

## The Pinnacle of Camera Mounting

Modular Towers & Columns 100 Fixed & Tilt Down **Tubular Poles Cabinet Based** Poles ----- far----**Ornate Poles** Infrastructure Transport & Brackets & Accessories Technical ļ

### **CCTV Product Catalogue v4.0**

Altron successfully proposed, designed, manufactured and delivered, on time, over 1300 deployable camera poles and cylindrical bases, in the lead up to 2012's major sporting event.

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Welcome to our comprehensive guide to CCTV camera mounting equipment.

Whilst most applications should be covered in this catalogue, we can supply variations to many of our products and also produce products tailored to suit associated industry needs.

Please feel free to contact us.

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### $\rightarrow$ Company Overview



# We are dedicated to supplying the most secure products of the highest standard...

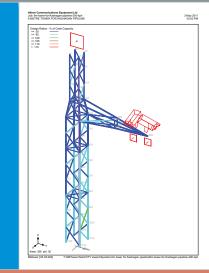


Our UK base provides 6,000m<sup>2</sup> (60,000ft<sup>2</sup>) of manufacturing space in a modern well-equipped facility situated close to the main motorway network.

Ongoing investment in equipment means that we remain at the forefront of being able to supply competitively and reliably.

### Design

Altron has been responsible for many firsts in the industry and that continues to this day. From the first purpose-built cabinet based pole through to some of the new products included in this edition, with many unique and patentable features.





### ← Product Range

Our product range is extensive - we have many other solutions in addition to those shown in this catalogue - let us know what, how and where you want to mount and we'll find the answer.



### ← Supply

We have a large range of stock, enabling us to ship your order in the shortest time possible. This includes most brackets, towers and columns and a selection of our most popular poles.





With our own fleet of delivery vehicles we are able to offer a first class, professional delivery service across the whole of the UK.

We have a great deal of experience in organising shipments to countries across the world and have selected a small number of expert shipping companies to service these markets, with containers shipping weekly.



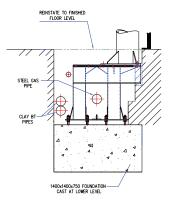
### Support

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Our dedicated knowledgeable people are able to support you in finding the best product for your needs.

There are many technical services available, including advising on site specific foundations and providing specific calculations and information to satisfy your client's needs.

We can train your people to operate our products safely and competently and offer training in winch operation for our tilting, telescopic and lowering trolley head poles.



Buried flange foundation detail

### With our history and service you can be sure.... You're Safe with Altron

### $\rightarrow$ Worldwide Presence



Altron supplies to markets worldwide, with countries in the Middle East being of particular importance. Here is a small selection of projects to date:-

## ← AW1545 Tilt Down at central area of highway Kuwait



Monopole located within petrochemical refinery Qatar →





← AW1545UP at Doha Cultural Centre Qatar

ACT Lattice tower located at petrochemical installation Middle East →



AW1859 located roadside Oman  $\uparrow$ 



# You're Safe with Altron

We are dedicated to supplying the most secure products of the highest standard to ensure your CCTV installations are the best they can be. With our industry leading secure features you're safe with Altron.





Heavy duty latch resists lever attacks and close fitting oval spindle means lock cannot be operated without correct key.

### **Flush door**



Altron's unique flush door design has 1mm clearance all round, preventing successful lever attacks.



### Secure vents

Mesh-covered offset internal aperture and vent orientation with ground level combine to hinder access through vent.



The pinnacle of camera mounting

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PMB SPT     Single PTZ Camera Pole Mounting Bracket     79     WB1-F     Wall Mounted Bracket for Fixed Camera     69       PMB TF     Twin Fixed Camera Pole Mounting Bracket     79     WB2     Wall Mounted Bracket - Heavy Duty     69       PMB TPT     Twin PTZ Camera Pole Mounting Bracket     79     WB2     Wall Mounted Bracket for Cladding     74       PMB TPT     Twin PTZ Camera Pole Mounting Bracket     79     WB2-900     Extended Wall Mounted Bracket     69       PMBT SF     Pole Top Mounting Bracket for Fixed     78     XP     Column Spacer Range     78	
Bracket     Fixed Camera     Fixed Camera       PMB TF     Twin Fixed Camera Pole Mounting Bracket     79     WB2     Wall Mounted Bracket - Heavy Duty     69       PMB TPT     Twin PTZ Camera Pole Mounting Bracket     79     WB2/C     Wall Bracket for Cladding     74       PMB TPT     Twin PTZ Camera Pole Mounting Bracket     79     WB2-900     Extended Wall Mounted Bracket     69       PMBT SF     Pole Top Mounting Bracket for Fixed     78     XP     Column Spacer Range     78	
PMB TF     Twin Fixed Camera Pole Mounting Bracket     79     WB2     Wall Mounted Bracket - Heavy Duty     69       PMB TPT     Twin PTZ Camera Pole Mounting Bracket     79     WB2/C     Wall Bracket for Cladding     74       PMB TPT     Twin PTZ Camera Pole Mounting Bracket     79     WB2-900     Extended Wall Mounted Bracket     69       PMBT SF     Pole Top Mounting Bracket for Fixed     78     XP     Column Spacer Range     78	5 5 5 F
Bracket     74       PMB TPT     Twin PTZ Camera Pole Mounting Bracket     79     WB2-900     Extended Wall Mounted Bracket     69       PMBT SF     Pole Top Mounting Bracket for Fixed     78     XP     Column Spacer Range     78	
PMB TPT     Twin PTZ Camera Pole Mounting Bracket     79     WB2-900     Extended Wall Mounted Bracket     69       PMBT SF     Pole Top Mounting Bracket for Fixed     78     XP     Column Spacer Range     78	5
BracketWB2-900-DExtended Wall Mounted Dome Bracket71PMBT SFPole Top Mounting Bracket for Fixed78XPColumn Spacer Range78	5
PMBT SF         Pole Top Mounting Bracket for Fixed         78         XP         Column Spacer Range         78	5



### Modular Towers & Columns ←





Altron's range of Modular Towers and Columns are a practical and economic solution to many commercial and industrial CCTV installations. Sectional construction means economic shipping and easy installation in more inaccessible locations.

We offer the most comprehensive range available with tilt-down models up to 15 metres and fixed models up to 25 metres with telescopic, cabinet based and internally cabled products completing the range.

Altron's numerous security design features ensure a good level of resistance against vandal attacks.

Modular Towers & Columns

### → ACC Modular Columns



### Fixed height range 4.5m - 10m Tilt-down height range 4.5m - 15m

Altron Camera Columns, a cost effective and comprehensive range with most models available 'ex stock', offering a good level of security. Suitable for installations where the public has access - tilt-down models have internal padlock facility. The range is generally for light to medium fixed and PTZ applications, but there are also heavy duty (HD) options for high loading PTZ and dual lighting & CCTV applications.

### Typically used for the following types of installation

- o Industrial and commercial premises
- o Perimeter detection
- o Utilities sites
- o Schools and universities
- o Railway platforms & car parks
- o Car parks
- o Petrochemical sites
- o Sports stadia

### **Security Features**

- o Internal cabling
- o Internal padlock facility on tilt-down models to protect against unauthorised lowering
- o Close fitting flush doors
- o Solid secure heavy duty door locks

### **General Features**

- o Modular construction for ease of assembly and installation on site
- o Ideal for restricted access areas
- o Provides stable mounting platform for all camera types
- o Demountable winches ensure tilt down models are secure and reduces costs on multiple installations
- o Tilt Down models enable camera maintenance at ground level, therefore reducing maintenance costs
- o Tilt Down models available in both bolt down and post mounted base versions
- o A wide range of standard Altron Accessories and Brackets available ex stock
- o Quick turnaround for larger projects
- o Constructed in high tensile steel and hot dip galvanised after fabrication for durability
- o Option of painting over the galvanised finish in colours available from BS and RAL colour charts
- o For design, manufacturing and finishing standards, see details on page 107



Tilt-down columns have the facility to be padlocked internally

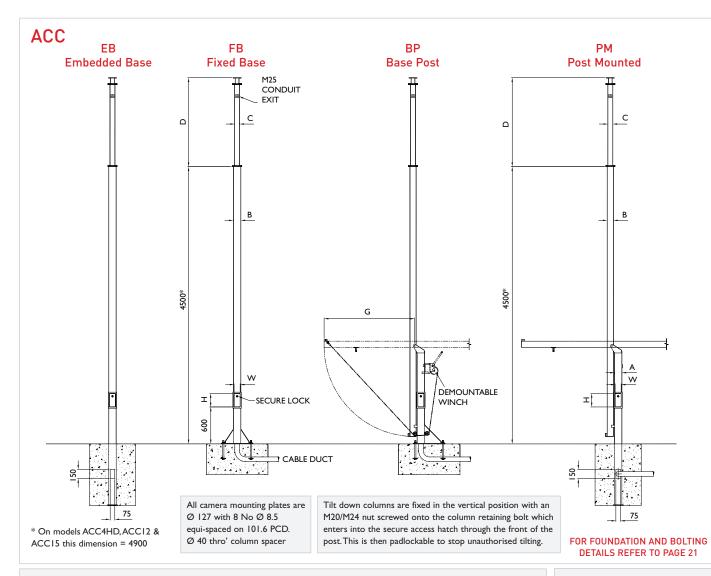


All columns have flush fitting doors



ACC2BPLA in tilted position

### ACC Modular Columns $\leftarrow$ **Technical Specifications**



Model No.	Height in	Post type	Max equip	Max equip	Post size	Lower section	Mid section	Upper section	Extension length	Door aperture	Column Rear	Winch part	Product weight	Accessorie	es
	mtrs		weight at top kgs		A <sup>2</sup>	B <sup>2</sup>	B <sup>2</sup>	C <sup>2</sup>	D mtrs	size HxW	clearance when tilting G	number	kgs	Top mounting brackets for Fixed and PTZ cameras	
ACCI	4.5	FB/EB	35	0.3	-	100	-	-	-	250x70	-	-	68	Swanneck brackets for Do	me
Standard		PM	35	0.3	120	100	-	-	-	270×80	1700	DW1000/AC	100	cameras	
Duty		BP	35	0.3	120	100	-	-	-	270×80	1700	DW1000/AC	115		
ACC2	6	FB/EB		0.2	-	120	-	90	1.5	270×80	-	-	114	Anti-climb guards	
Standard		PM	25	0.2	120	100	-	80	1.5	270×80	1700	DW1000/AC	115		
Duty		BP	25	0.2	120	100	-	80	1.5	270×80	1700	DW1000/AC	130	Clamp-on camera mountin	ng
ACC2H	<b>D</b> 6	FB/EB		0.3	-	150	-	100	1.5	280x110	-	-	144	brackets	
Heavy		PM	35	0.3	120	120	-	90	1.5	270×80	1700	DW1000/AC	138	Telemetry box mounting	
Duty		BP	35	0.3	120	120	-	90	1.5	270×80	1700	DW1000/AC	157	Telemetry box mounting brackets	
ACC3	7.5	FB/EB		0.2	-	150	-	100	3	280x110	-	-	161	Diackets	
Standard		PM	25	0.2	150	120	-	90	3	280x110	2000	DW1500/AC	189	Column top mounting cage	es
Duty		BP	25	0.2	150	120	-	90	3	280x110	2000	DW1500/AC	193		
ACC3H	<b>D</b> 7.5	FB/EB		0.3	-	200	-	120	3	315x150	-	-	178		
Heavy		PM	50	0.3	150	150	-	100	3	280x110		DW1500/ACHI		Quick refere	enc
Duty		BP	50	0.3	150	150	-	100	3	280x110	2000	DW1500/ACHI			
ACC4	9	FB/EB		0.16	-	150	-	100	4.4	280×110	-	-	197	Single fixed camera knuckle	e <b>P</b> 1
Standard		PM	25	0.16	150	150	-	100	4.4	280×110	2000	DW2500/AC	244		
Duty		BP	25	0.16	150	150	-	100	4.4	280×110	2000	DW2500/AC	248	Twin fixed camera bracket	Т
ACC4H	<b>D</b> 10	FB/EB		0.5	-	200	-	150	4.9	315×150	-	-	305		
Heavy		PM	50	0.5	200	200	-	150	4.9	315×150		DW2500/ACHI		Half swanneck for dome	A
Duty		BP	50	0.5	200	200	-	150	4.9	315x150	2400	DW2500/ACHI	<b>5</b> 500		
									i ii					Full swanneck for dome	A
ACC12	12	PM	35	0.3	200	200	150	100		315×150		DW2500/ACHI		Anti climb guard	so
		BP	35	0.3	200	200	150	100		315×150		DW2500/ACHI		Anti climb guard	50
ACC15	15	PM	25	0.16	200	200	150	100		315×150		DW2500/ACHI		Telemetry bracket	A
		BP	25	0.16	200	200	150	100	4.9 4.9	315×150	2400	DW2500/ACHI	<b>5</b> 63	leichieu y bracket	1

Where payloads are greater than those stated above, please contact Altron EB Version is directly embedded

All dimensions in mm unless stated otherwise

АТВС

Top mounting brackets for Fixed and PTZ cameras		P76		
Swanneck brackets for Dor cameras	ne	P81		
Anti-climb guards		P77		
Clamp-on camera mounting brackets	5	P78		
Telemetry box mounting brackets		P77		
Column top mounting cage	s	P83		
Quick refere	nc	e		
Single fixed camera knuckle	РТ	'S-I		
Twin fixed camera bracket	те	2-600F		
Half swanneck for dome	AV	W1699H		
Full swanneck for dome	V1699F			
Anti climb guard	sg	iC		



Modular Towers & Columns

### AW1697

Height range 4.5m - 15m

A cost effective and comprehensive range with most models available 'ex stock', offering a good level of security. The column base post has a built in cabinet for mounting equipment within the one unit, therefore providing cost savings where a separate cabinet would otherwise need to be used. Suitable for installations where the public has access, these columns have an internal padlock facility. The range is generally for light to medium fixed and PTZ applications, but there are also heavy duty (HD) options for high loading PTZ and dual lighting & CCTV applications.

Car parks

ο

0

0

0

0

o Railway platforms & car parks

Petrochemical sites

Securing compounds

Close fitting flush doors

Solid secure heavy duty door locks

### Typically used for the following types of installation

- Industrial and commercial premises
- Perimeter detection 0
- 0 Utilities sites
  - Schools and universities 0
  - Sports stadia

### **Security Features**

- Internal cabling ο
- Internal padlock facility 0

#### **General Features**

- Modular construction for ease of assembly and installation on site ο
- Ideal for restricted access areas 0
- Provides stable mounting platform for all camera types о
- Demountable winches ensure tilt down models are secure and reduces costs on multiple installations ο
- Tilt Down models enable camera maintenance at ground level, therefore reducing maintenance costs o
- ο Tilt Down models available in both bolt down and embedded base versions
- A wide range of standard Altron Accessories and Brackets available ex stock ο
- Quick turnaround for larger projects 0
- Constructed in high tensile steel and hot dip galvanised after fabrication for durability ο
- ο Option of painting over the galvanised finish in colours available from BS and RAL colour charts
- For design, manufacturing and finishing standards, see details on page 107 0



### Height range 4m - 8m

Telescopic

Altron's range of telescopic columns offer the facility to maintain camera equipment at low level without the need to 'tilt- down' the column. This has the advantage of enabling maintenance for cameras in restricted area locations where a cherry picker does not have access. The range is for light to medium fixed and PTZ applications.

### Typically used for the following types of installation

- Industrial and commercial premises Railway platforms
- o Railway marshalling areas
- Roof mounted locations

### Security Features

Internal cabling 0

ο

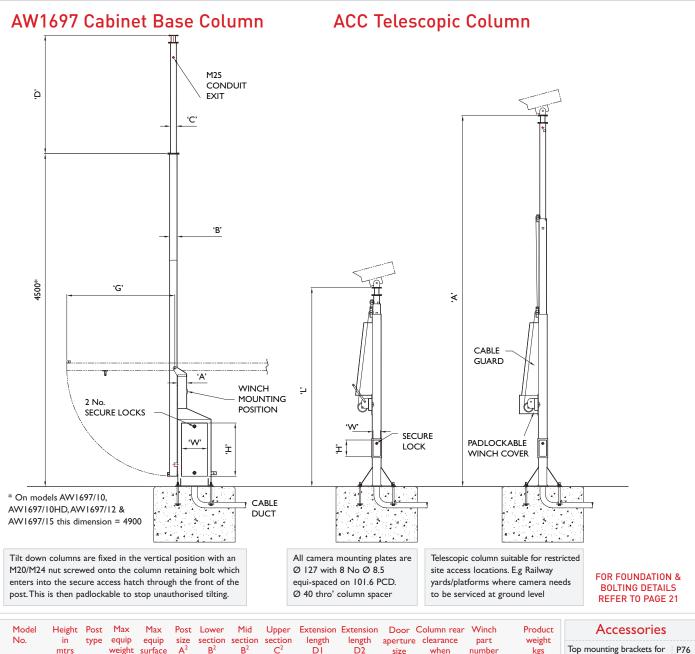
- Close fitting flush doors
- Solid secure heavy duty door locks 0
- Padlockable winch cover and cable guard

### **General Features**

- Enables cameras to be mounted in locations that they otherwise could not be. 0
- Ideal for restricted access areas
- Provides stable mounting platform for all camera types 0
- Enables camera maintenance at ground level, therefore reducing maintenance costs.
- A wide range of standard Altron Accessories and Brackets available ex stock 0
- 0 Constructed in high tensile steel and hot dip galvanised after fabrication for durability
- 0 For design, manufacturing and finishing standards, see details on page 107

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### AW1697 Cabinet Columns & ACC Telescopic Columns Technical Specification $\leftarrow$



Model No.	Height in			Max equip	Post size	Lower section	Mid section	Upper section	Extension length	Extension length		Column re		Product weight	Accessories	
INO.	mtrs	type	weight at top	surface area m <sup>2</sup>	A <sup>2</sup>	B <sup>2</sup>	B <sup>2</sup>	C <sup>2</sup>	DI	D2 mtrs	size HxW	when tilting G	number	kgs	Top mounting brackets Fixed and PTZ cameras	or P76
			kgs												Swanneck brackets for Dome cameras	P81
AW1697/4.5	4.5	BP	35	0.3	120	100	-	-	-	-	600×350	1700	DW1000/97	180		
AW1697/6	6	BP	25	0.2	120	100	-	80	1.5	-	600x350	1700	DW1000/97	192	Anti-climb guards	P77
AW1697/6H	<b>D</b> 6	BP	35	0.3	120	120	-	90	1.5	-	600×350	1700	DW1000/97	220	Clamp-on camera mour brackets	ting P78
AW1697/7.5	7.5	BP	25	0.2	150	120	-	90	3.0	-	600×350	2000	DW1500/97	244	Telemetry box mounting	
AW1697/7.5H	<b>HD</b> 7.5	BP	50	0.3	150	150	-	100	3.0	-	600×350	2000	DW1500/97HE	273	brackets	,
AW1697/9	9	BP	25	0.16	150	150	-	100	4.5	-	600×350	2000	DW2500/97	299	Column top mounting o	ages P83
AW1697/10	10	BP	50	0.5	200	200	-	150	4.9	3.0	600×350	2400	DW2500/97HE	551	Outok nofom	
AW1697/12	12	BP	35	0.3	200	200	150	100	4.9	3.0	600×350	2400	DW2500/97HE	<b>5</b> 77	Quick reference	
AW1697/15	15	BP	25	0.16	200	200	150	100	4.9	4.9	600×350	2400	DW2500/97H	<b>)</b> 614	Single fixed camera <b>P</b> knuckle	'S-1
Telescop	oic C	olum	nns												Twin fixed camera <b>TI</b> bracket	2-600F

ACC/TELE/8	8	FB	25	0.11	-	120	100	80	-	-	280×110	3.8	Included	195	Telemetry bracket
ACC/TELE/6	6	FB	35	0.25	-	120	100	80	-	-	280×110	3	Included	156	Anti climb guard
ACC/TELE/4	4 mt	FB	35	0.25	-	100	80	60	-	-	200×90	L mtrs 2.1	Included	95	Full swanneck for dome
Height Height d														Half swanneck for dome	
Telescopic	: 00	วเนท	nns												bracket

Where payloads are greater than those stated above, please contact Altron All dimensions in mm unless stated otherwise

SGC

ATBC

AW1699H

AW1699F

Modular Towers & Columns



### Fixed height range 4.5m - 12m Tilt-down height range 4.5m - 14m

Altron Camera Towers, a cost effective and comprehensive range with most models available 'ex stock'. Giving good rigidity they are suitable for exposed, high wind load locations. The range is for medium to heavy camera installations, and for dual lighting & CCTV applications, or lighter applications where rigidity is paramount. ACT Towers are not ideally suited to public area installations due to their climbable nature and external camera cabling.

### Typically used for the following types of installation

- o Industrial and commercial premises
- o Perimeter detection
- o Utilities sites
- o Car parks
- o Petrochemical sites
- o Securing compounds
- o Military and high security sites

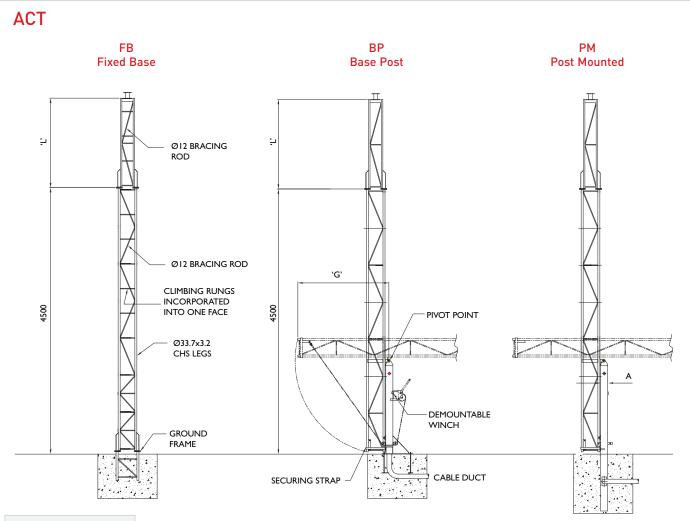
### **General Features**

- o Modular construction for ease of assembly and installation on site
- o Ideal for restricted access areas
- o Provides stable mounting platform for all camera types
- o Demountable winches ensure tilt down models are secure and reduces costs on multiple installations
- o Tilt Down models enable camera maintenance at ground level, therefore reducing maintenance costs
- o Tilt Down models available in both bolt down and post mounted versions
- o A wide range of standard Altron Accessories and Brackets available ex stock
- o Simple system of casting ground frame, bolts or post
- o Conduit cabling system available as an option
- o Quick turnaround for larger projects
- o Available with AW1697 Cabinet if required (See page 13)
- o Constructed in high tensile steel and hot dip galvanised after fabrication for durability
- o Option of painting over the galvanised finish in colours available from BS and RAL colour charts
- o For design, manufacturing and finishing standards, see details on page 107



ACTI BP in tilted position

### ACT Modular Towers ← Technical Specifications



All camera mounting plates are Ø 127 with 8 No Ø 8.5 equi-spaced on 101.6 PCD.

Ø 40 thro' column spacer

Model No.	Height in mtrs	Post type	Max equip weight at top kgs	Max surface area m <sup>2</sup>	Post size A <sup>2</sup>	Mid length mtrs L	Top length mtrs	Tower rear clearance when tilting G	part	Product weight kgs
ACTI	4.5	FB	40	0.4	-	-	-	-	-	55
Standard		PM	40	0.4	120	-	-	1700	DW1000/AT	98
Duty		BP	40	0.4	120	-	-	1700	DW1000/AT	115
ACT2	6	FB	40	0.4	-	-	1.5	-	-	70
Standard		PM	40	0.4	120	-	1.5	1700	DW1000/AT	118
Duty		BP	40	0.4	120	-	1.5	1700	DW1000/AT	135
ACT3	7.5	FB	35	0.25	-	-	3	-	-	81
Standard		PM	35	0.25	120	-	3	1700	DW1500/AT	131
Duty		BP	35	0.25	120	-	3	1700	DW1500/AT	147
<b>ACT3HD</b>	7.5	FB	40	0.35	-	-	3	-	-	107
Heavy		PM	40	0.35	150	-	3	2000 I	DWI500/ATHD	193
Duty		BP	40	0.35	150	-	3	2000	DWI500/ATHD	197
ACT4HD	9	FB	35	0.25	-	-	4.5	-	-	124
Heavy		PM	35	0.25	150	-	4.5	2000	DWI500/ATHD	204
Duty		BP	35	0.25	150	-	4.5	2000	DWI500/ATHD	208
ACT12	12	FB	25	0.2	-	4.5	3	-	-	150
		BP	25	0.2	180	4.5	3	2200	DW2500/AT	237
		PM	25	0.2	180	4.5	3	2200	DW2500/AT	233
ACT14	14	BP	50	0.25	200	-	7	2500	DW1500/AT14	387
Telescopic		PM	50	0.25	200	-	-	2500	DW1500/AT14	341

Where payloads are greater than those stated above, please contact Altron All dimensions in mm unless stated otherwise

#### FOR FOUNDATION & BOLTING DETAILS REFER TO PAGE 21

Accessories	
Top mounting brackets for Fixed and PTZ cameras	P76
Swanneck brackets for Dome cameras	P81
Anti-climb guards	P77
Clamp-on camera mounting brackets	P78
Telemetry box mounting brackets	P77
Tower top mounting cages	P83

Quick reference	e
Single fixed camera knuckle	PTS-I
Twin fixed camera bracket	TB2-600F
Half swanneck for dome	AW1699H
Full swanneck for dome	AW1699F
Anti climb guard	SGC
Telemetry bracket	ATBT

### $\rightarrow$ ANCT Modular Towers



### Height range 4m - 10m

Altron Nested Camera Towers are designed to be a secure mounting solution, where a lattice tower is the preferred mounting option. Cabling through the tower is completely concealed thanks to its patented hinge design and there is a secure access door and treated backboard within the base post so that connections and equipment are situated inside the tower.

Installation is made easy by the use of a simple bolt frame for setting the holding down bolts and a large entry point into the base post provides clear access for cable ducts. The footprint of the tower is small and the appearance is neat and compact due to the base post 'nesting' inside the tower.

ANCT towers give good rigidity and are suitable for exposed locations. Ideal for medium to heavy camera installations or lighter applications where rigidity is paramount, a full range of accessories are available and all tower components are held in stock. ANCT Towers are not ideally suited for public area installations due to their climbable nature.

#### Typically used for the following types of installation

- o Industrial and commercial premises
- o Perimeter detection
- o Utilities sites
- o Car parks
- o Petrochemical sites
- o Securing compounds
- o Military and high security sites

#### **Security Features**

- o Internal cabling
- o Internal padlock facility
- o Close fitting flush doors
- o Solid secure heavy duty door locks

#### **General Features**

- o Modular construction in 2 metre sections for ease of assembly and installation on site
- o Large integrated cabinet, allowing equipment mounting and internal cable connections
- o Patented method of internal cabling pathway, through cabinet and tilt-mechanism, up through tower leg and exiting via conduit exit points.
- o Simple method of pre-casting base connections only bolts need to be cast, no other steelwork
- o Large cable duct entry into bottom of base post
- o Ideal for restricted access areas
- o Provides stable mounting platform for all camera types
- o Demountable winches ensure towers are secure and reduces costs on multiple installations
- o Enables camera maintenance at ground level, therefore reducing maintenance costs
- o A wide range of standard Altron Accessories and Brackets available ex stock
- o Constructed in high tensile steel and hot dip galvanised after fabrication for durability
- o Option of painting over the galvanised finish in colours available from BS and RAL colour charts
- o For design, manufacturing and finishing standards, see details on page 107

ANCT6



ANCT winch mounting arrangement

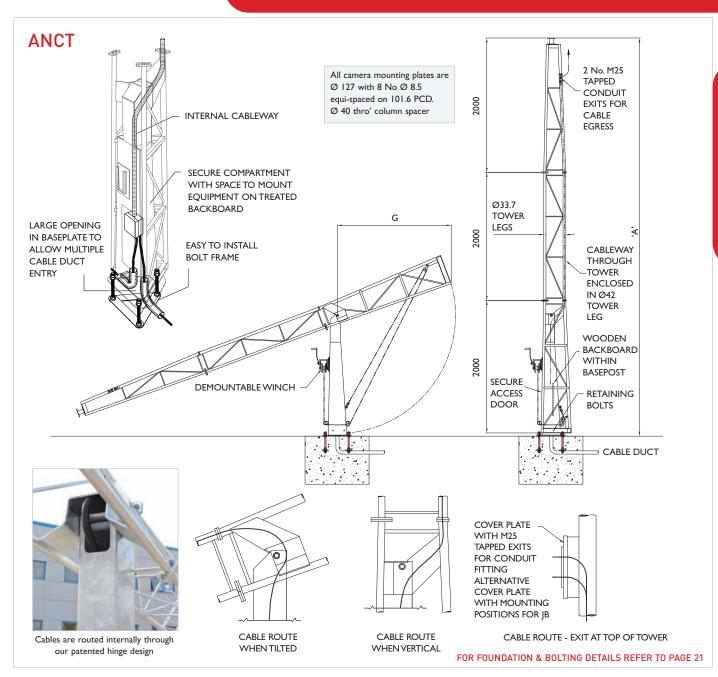


Large equipment mounting backboard



ANCT/6 in tilted position

### ANCT Modular Towers ← Technical Specifications



### Cable and Conduit Installation Notes

When installing cables within the lower leg, cables should be enclosed within flexible conduit. Where there are too many cables to fit inside a continuous flexible conduit, then a split conduit should be used at the hinge point between the base post and the tower section, locally (see photograph on this page showing flexible conduit in position). Some slack should be left in cables – approx 100mm – to ensure that the cables do not pull tight when the tower tilts down.

Model No.	Height mtrs A	Max equip weight at top kgs	Max equip surface area m <sup>2</sup>	Tower rear clearance when tilting G	Cabinet door size H x W	Back board size & compartment depth H x W x D	Winch part number	Product weight kgs
ANCT 4	4	50	0.5	2000	600x165	570x170x150	DW1000/ANCT	145
ANCT 6	6	50	0.4	2000	600×165	570x170x150	DW1000/ANCT	172
ANCT 8	8	30	0.25	2000	600×165	570x170x150	DW2500/ANCT	199
ANCT 10	10	25	0.2	2000	600x165	570x170x150	DW2500/ANCT	226

Where payloads are greater than those stated above, please contact Altron All dimensions in mm unless stated otherwise

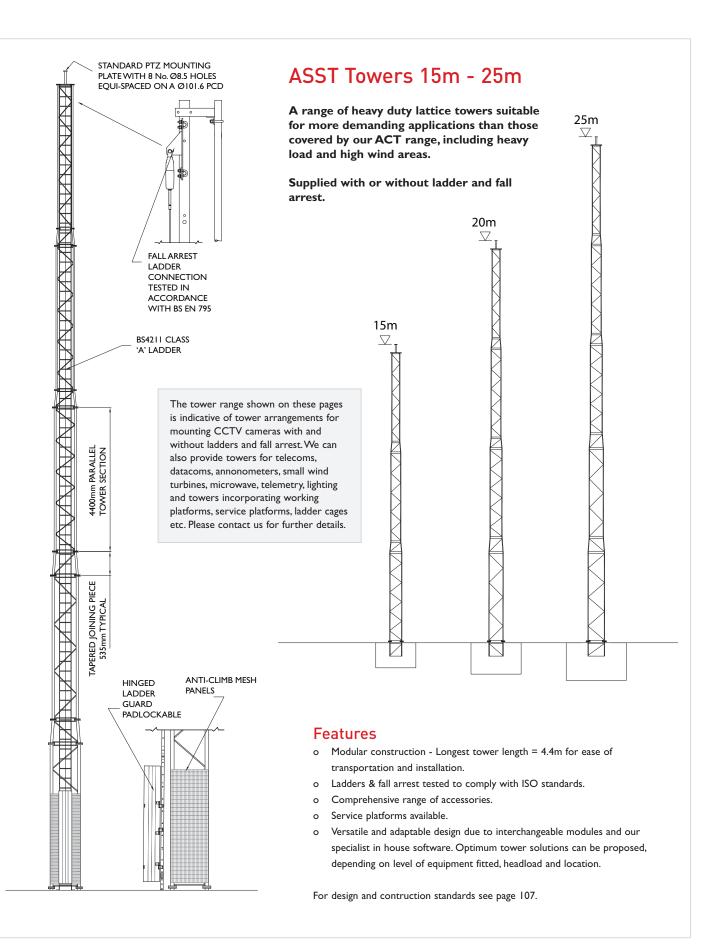
#### Accessories

Top mounting brackets for Fixed and PTZ cameras	P76
Swanneck brackets for Dome cameras	P81
Anti-climb guards	P77
Clamp-on camera mounting brackets	P78
Telemetry box mounting brackets	P77
Tower top mounting cages	P83

#### Quick reference

Single fixed camera knuckle	PTS-I
Twin fixed camera bracket	TB2-600F
Half swanneck for dome	AW1699H
Full swanneck for dome	AW1699F
Anti climb guard	SGT3/HD
Telemetry bracket	ATBT

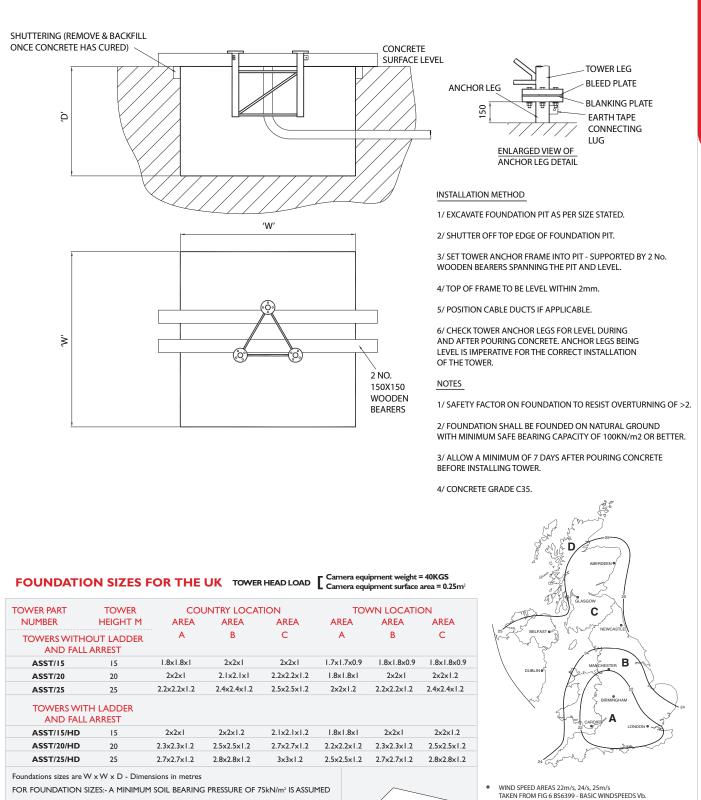
Modular Towers & Columns



### ASST Foundation ← & Installation Methods

Modular Towers & Columns

### ASST



Minimum concrete Grade C35

Allow 72 hours after pouring concrete before installing pole or tower

Please note that foundation sizes shown in the table above are in accordance with recommended headload andwindload capacities shown in technical specification tables. For increased headloads – foundations may need to increase in size – please contact us for revised foundation sizes for specific installations. SITE MEAN WINDSPEEDS (Vs) FOR AREAS A, B & C ARE:-A= 24.2m/s(100m ASL) B=26.4m/s(100m ASL) C=28.8m/s(150m ASL)

SPECIFICATION

- ACTUAL WIND VELOCITY FOR THESE WINDSPEEDS (Ve) ARE:-A= 41.8m/s(93m) B=45.6m/s(102m) C=50m/s(111m ASL)
  - FOR AREA 'D' PLEASE CONTACT ALTRON FOR FOUNDATION

### → Modular Towers & Columns Foundation & Bolting Details

10DEL NO.	HEIGHT MTRS	BOLT CENTRES '1 <sup>2,</sup>	BASE PLATE SIZE 'H <sup>2</sup> '	SERVICE ENTRY SIZE	SERVICE C ENTRY OFFSET (BP MODELS)	HOLDING DOWN BOLT SIZE D × L	FOUNDA	TION SIZE	S FOR THE	UK		
	ΒĘ	<u>B</u>	E S BA	N A A	M	LI N N	00	UNTRY LOCAT	ION	тс		J
	÷	Ű	-N	SΞ	EN IS	ΞÖΞ	AREA A	AREA B	AREA C	AREA A	AREA B	AREA C
CC-FB - Fixe	d Ba	se colu										
CCI/FB	4.5	350	405	90x90		M16x245	1.0 x 1.0 x 0.5	l.l x l.l x 0.55	l.l x l.l x 0.55	0.9 x 09 x 0.5	1.0 x 1.0 x 0.5	1.0 x 1.0 x 0.5
ACC2/FB	6	450	510	0x  0		M20x325	1.1 x 1.1 x 0.55	1.2 x 1.2 x 0.6	1.2 x 1.2 x 0.6	1.0 x 1.0 x 0.5	1.1 x 1.1 x 0.55	l.l x l.l x 0.55
CC2/FB/HD	6	450	510	140x140		M20x325	1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65	1.3 x 1.3 x 0.65	1.1 x 1.1 x 0.55	1.2 x 1.2 x 0.6	1.2 x 1.2 x 0.6
CC3/FB	7.5	450	510	140×140		M20x325	1.3 x 1.3 x 0.65	1.4 x 1.4 x 0.7	1.4 x 1.4 x 0.7	1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65	1.3 x 1.3 x 0.65
CC3/FB/HD	7.5	550	630	180×180		M24x425	1.4 x 1.4 x 0.7	1.4 x 1.4 x 0.7	1.5 x 1.5 x 0.75	1.3 x 1.3 x 0.65	1.3 x 1.3 x 0.65	1.4 x 1.4 x 0.7
CC4/FB	9	550	630	140×140		M24x425	1.4 x 1.4 x 0.7	1.5 x 1.5 x 0.75	1.6 x 1.6 x 0.8	1.3 x 1.3 x 0.65	1.4 x 1.4 x 0.7	1.4 x 1.4 x 0.7
CC4/FB/HD	9	550	630	180×180		M24x425	1.8 x 1.8 x 0.9	1.8 x 1.8 x 0.9	2.0 x 2.0 x 1.0	1.7 x 1.7 x 0.9	1.8 x 1.8 x 0.9	1.8 x 1.8 x 0.9
CC-BP(PM)	- Base	e Post	(Post N	(Jounted)	columns							
CCI/BP	4.5	450	510	110x110	90	M20x325	1.0 x 1.0 x 0.5	l.l x l.l x 0.55	l.l x l.l x 0.55	0.9 x 09 x 0.5	1.0 x 1.0 x 0.5	1.0 x 1.0 x 0.5
CC2/BP	6	450	510	110x110	90	M20x325	1.1 x 1.1 x 0.55	1.2 x 1.2 x 0.6	1.2 x 1.2 x 0.6	1.0 x 1.0 x 0.5	1.1 x 1.1 x 0.55	1.1 x 1.1 x 0.55
CC2/BP/HD	6	450	510	110x110	90	M20x325	1.2 x 1.2 x 0.6	1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65	I.I x I.I x 0.55	1.2 x 1.2 x 0.6	1.2 x 1.2 x 0.6
CC3BP	7.5	550	630	140x140	105	M24x425	1.3 x 1.3 x 0.65	1.3 x 1.3 x 0.65	1.4 x 1.4 x 0.7	1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65	1.3 x 1.3 x 0.65
CC3BP/HD	7.5	550	630	140x140	105	M24x425	1.3 x 1.3 x 0.65	1.4 x 1.4 x 0.7	1.5 x 1.5 x 0.75	1.3 x 1.3 x 0.65	1.3 x 1.3 x 0.65	I.4 x I.4 x 0.7
CC4/BP	9	550	630	140x140	105	M24x425	1.4 x 1.4 x 0.7	1.5 x 1.5 x 0.75	1.6 x 1.6 x 0.8	1.3 x 1.3 x 0.65	1.4 x 1.4 x 0.7	1.4 x 1.4 x 0.7
CC4/BP/HD	10	700	800	180×180	150	M27×600	1.8 x 1.8 x 0.9	1.8 x 1.8 x 0.9	2.0 x 2.0 x 1.0	1.7 x 1.7 x 0.9	1.8 x 1.8 x 0.9	1.8 x 1.8 x 0.9
ACC12/BP	12	700	800	180×180	150	M27x600	1.8 x 1.8 x 0.9	1.9 x 1.9 x 1.0	2.0 x 2.0 x 1.0	1.7 x 1.7 x 0.9	1.8 x 1.8 x 0.9	1.9 x 1.9 x 0.9
CC15/BP	15	700	800	180×180	150	M27×600	2.0 x 2.0 x 1.0	2.0 x 2.0 x 1.0	2.2 x 2.2 x 1.1	1.8 x 1.8 x 0.9	2.0 x 2.0 x 1.0	2.0 x 2.0 x 1.0
CT-BP-PM-F	B- st	andar	d tower	<b>°S</b> (HD bolts	not used on	FB towers)						
CTI	4.5	450	510	110x110	90	M20x325	1.1 x 1.1 x 0.55	l.l x l.l x 0.55	1.2 x 1.2 x 0.6	1.0 x 1.0 x 0.5	1.0 x 1.0 x 0.5	1.1 x 1.1 x 0.55
ACT2	6	450	510	110x110	90	M20x325	1.2 x 1.2 x 0.6	1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65	1.1 x 1.1 x 0.55	1.1 x 1.1 x 0.55	1.2 x 1.2 x 0.6
CT3	7.5	450	510	110x110	90	M20x325	1.2 x 1.2 x 0.6	1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65	1.1 x 1.1 x 0.55	I.I x I.I x 0.55	1.2 x 1.2 x 0.6
CT3/HD	7.5	550	630	140x140	105	M24x425	1.3 x 1.3 x 0.65	1.4 x 1.4 x 0.7	1.4 x 1.4 x 0.7	1.2 x 1.2 x 0.6	1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65
CT4/HD	9	550	630	140×140	105	M24x425	1.3 x 1.3 x 0.65	1.4 x 1.4 x 0.7	1.4 x 1.4 x 0.7	1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65	1.3 x 1.3 x 0.65
CT12	12	550	630	160x160	105	M24x425	1.4 x 1.4 x 0.7	1.5 x 1.5 x 0.75	1.6 x 1.6 x 0.8	1.3 x 1.3 x 0.65	I.4 x I.4 x 0.7	I.4 x I.4 x 0.7
CT14/BP/PM	14	700	800	230x230	150	M27×600	1.6 x 1.6 x 0.8	1.7 x 1.7 x 0.9	1.8 x 1.8 x 0.9	1.4 x 1.4 x 0.75	1.5 x 1.5 x 0.75	1.6 x 1.6 x 0.8
NCT - Neste	d tow	ers										
ANCT/4	4	420	570	370x250		M24x425	I.I x I.I x 0.55	1.1 x 1.1 x 0.55	1.2 x 1.2 x 0.6	1.0 x 1.0 x 0.5	1.0 x 1.0 x 0.5	l.l x l.l x 0.55
NCT/6	6	420	570	370x250		M24x425	1.2 x 1.2 x 0.6	1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65	1.1 x 1.1 x 0.55	1.2 x 1.2 x 0.6	1.2 x 1.2 x 0.6
NCT/8	8	420	570	370x250		M24x425	1.3 x 1.3 x 0.65	1.3 x 1.3 x 0.65	1.4 x 1.4 x 0.7	1.2 x 1.2 x 0.6	1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65
NCT/10	10	420	570	370x250		M24x425	1.4 x 1.4 x 0.7	1.4 x 1.4 x 0.7	1.5 x 1.5 x 0.75	1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65	1.4 x 1.4 x 0.7
W1697 - cab	inet b	ased t	ilt-dow	n columr	าร							
W1697/4.5	4.5m	450	510	430x280		M20x325	1.0 x 1.0 x 0.5	I.I x I.I x 0.55	I.I x I.I x 0.55	0.9 x 09 x 0.5	1.0 x 1.0 x 0.5	1.0 x 1.0 x 0.5
W1697/6	6m	450	510	430x280		M20x325	1.1 x 1.1 x 0.55	$1.2 \times 1.2 \times 0.6$	1.2 x 1.2 x 0.6	$1.0 \times 1.0 \times 0.5$	1.1 x 1.1 x 0.55	1.1 x 1.1 x 0.55
W1697/6HD		450	510	430x280		M20x325	1.2 x 1.2 x 0.6	1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65	1.1 x 1.1 x 0.55	1.2 x 1.2 x 0.6	$1.2 \times 1.2 \times 0.6$
W1697/7.5	7.5m	550	630	430x280		M24x425	1.3 x 1.3 x 0.65	1.3 x 1.3 x 0.65	1.4 x 1.4 x 0.7	1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65	1.3 x 1.3 x 0.65
W1697/7.5HD		550	630	430x280		M24x425	1.3 x 1.3 x 0.65	1.4 x 1.4 x 0.7	1.5 x 1.5 x 0.75	1.3 x 1.3 x 0.65	1.3 x 1.3 x 0.65	1.4 x 1.4 x 0.7
W1697/9	9m	550	630	430x280		M24x425	1.4 x 1.4 x 0.7	1.5 x 1.5 x 0.75	1.6 x 1.6 x 0.8	1.3 x 1.3 x 0.65	1.4 x 1.4 x 0.7	1.4 x 1.4 x 0.7
	10m	700	800	430x280		M27×600	1.8 x 1.8 x 0.9	1.8 x 1.8 x 0.9	2.0 x 2.0 x 1.0	1.7 x 1.7 x 0.9	1.8 x 1.8 x 0.9	1.8 x 1.8 x 0.9
W1697/12	I2m	700	800	430x280		M27x600	1.8 x 1.8 x 0.9	1.9 x 1.9 x 1.0	2.0 x 2.0 x 1.0	1.7 x 1.7 x 0.9	1.8 x 1.8 x 0.9	1.9 x 1.9 x 0.9
W1697/15	I5m	700	800	430x280		M27x600	2.0 x 2.0 x 1.0	2.0 x 2.0 x 1.0	2.2 × 2.2 × 1.1	1.8 x 1.8 x 0.9	2.0 x 2.0 x 1.0	2.0 x 2.0 x 1.0
CC - Telesco	pic co	lumns	5									
CC/TEL/4	4m	350	405	90×90		M16x245	0.9 x 0.9 x 0.5	0.9 x 0.9 x 0.5	1.0 x 1.0 x 0.5	0.9 x 0.9 x 0.5	0.9 x 0.9 x 0.5	0.9 x 0.9 x 0.5
ACC/TEL/6	6m	450	510	0x  0		M20x325	1.1 x 1.1 x 0.55	1.2 x 1.2 x 0.6	1.2 x 1.2 x 0.6	l.l x l.l x 0.55	1.1 x 1.1 x 0.55	1.2 x 1.2 x 0.6
ACC/TEL/8	8m	450	510	110x110		M20x325	1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65	1.3 x 1.3 x 0.65	1.1 x 1.1 x 0.55	1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65

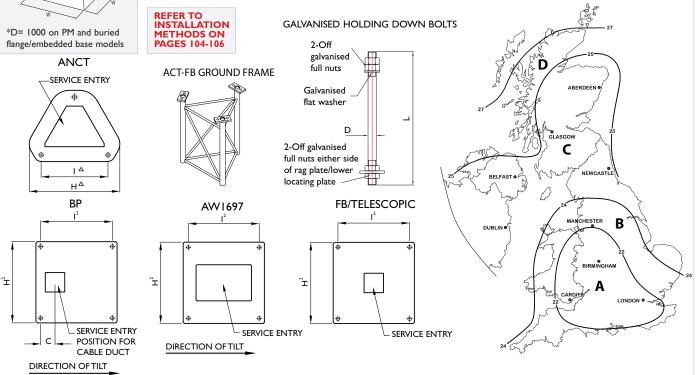
Foundation sizes in table are W x W x D Dimensions in metres

• For area D locations and exposed locations over 100m above sea level for areas A, B and 150m above sea level for area C, we recommend increased foundation sizes. Please refer to the table on page 101 for conformation of these.

• A minimum soil bearing capacity of 75 kN/m<sup>2</sup> is assumed.

• Foundation base dimensions are typical and may vary depending on site conditions.

• Please refer to the foundations & windloading section on pages 101-103 for further guidance.



**Modular Towers & Columns** 

### Tubular Poles Fixed & Tilt Down $\leftarrow$



Tubular Poles Fixed & Tilt Down

**Fixed Tubular Poles** 

AW1502 Lamp Standard Poles

AW1859 - Tilt-Down Poles

Altron's tubular poles provide a comprehensive and versatile range of mounting solutions, suitable for public area locations.

The range comprises of fixed tubular poles, used typically for general CCTV applications; lamp standard poles that fit in with existing street furniture, but are heavy duty, designed specifically for CCTV camera mounting and can also be used for dual lighting and CCTV applications; tilt down tubular poles suitable for public areas, providing the facility to service camera equipment at ground level and tapered tubular poles, that offer an aesthetic appearance to fit in with architectural themes.

Altron's numerous security design features ensure a good level of protection against vandal attacks.

#### Height range 3m - 12m

A comprehensive range of high specification poles, that cater for light, medium and heavy duty CCTV applications, therefore offering cost effective mounting solutions tailored to the individual installations requirements. A full range of accessories are available to ensure appropriate and high quality installations.

### Typically used for the following types of installation

- o Industrial and commercial premises
- o Perimeter detection
- o Schools and universities

Public area CCTV

- Railway platforms & car parksCar parks
- & Tilt Down

**Fubular Poles Fixed** 

- o Retail Parks
- o Sports stadia

#### **Security Features**

- o Internal cabling
- o Close fitting flush doors
- o Solid secure heavy duty door locks

#### **General Features**

- Available in 3 duties; light, medium and heavy duty to accommodate all types of camera installations
   Compartments have doors that are close fitting and flush with heavy duty secure locks and are complete with treated backboard
- o Available in bolt down and embedded/direct burial versions
- o A wide range of standard Altron Accessories and Brackets available
- o Pole adaptations available to suit customers/project specific requirements
- o Constructed in high tensile steel and hot dip galvanised after fabrication for durability
- o Option of painting over the galvanised finish in colours available from BS and RAL colour charts
- o Also available in 316 stainless steel, architectural finish
- o For design, manufacturing and finishing standards, see details on page 107



## Tubular Fixed Poles $\leftarrow$ Technical Specification

Tubular Poles Fixed & Tilt Down

Tu	bular Poles	5		AW2207 T	apered	Poles	Options	PT No.
8	400	M25 CON EXIT	IDUIT	C	25 ONDUIT KIT	ØB	Access cover plate and cable restraining bar Decorative banding High security locks Screw in swan neck adapto Tamper switch Double Door Lighting spigot	/AC /B /HS /SN /TS /DD /LS
	4	ØB		4			All camera mounti are Ø 127 with 8 equi-spaced on 10 Ø 40 thro' column	No Ø 8.5 1.6 PCD.
							Poles complete wir equipment mountin inside compartmer lugs within pole an	ng board it. Earthing
	н 009	SEC LOC	URE CK	600 H		N SECURE LOCK		
EMBEDDED BASE	Max equip weight at pole top	Max equip surface area	Pole	Door aperture size	Pole weight		FOR FOUNDA BOLTING DET REFER TO PA Accessories	AILS
mtrs				H×W		Top mountin	g brackets for Fixed and PTZ	Z P76
Light duty - Typically fo AW1755/3 3	25	0.25	114	312 x 76	52	cameras		.,.
AW1755/4 4 AW1592/5 5 AW1592/6 6	25 25 25	0.25 0.25 0.25	4  39  39	312 x 76 312 x 76 312 x 76	63   3  3	Swanneck br	ackets for Dome cameras	P81
AW1507/7 7 AW1507/8 8	25 25 25	0.25	168	362 x 106 362 x 106	176	Anti-climb gu	ards	P77
AW1581/9 9 AW1581/10 10	25 25	0.25	193	362 x 126 362 x 126	265 290	Clamp-on ca	mera mounting brackets	P79
Medium duty - Typical				212 74	77	Telemetry bo	x mounting brackets	P77
AW1592/3 3 AW1592/4 4 AW1507/5 5	35 35 35	0.4 0.4 0.4	39   39   68	312 x 76 312 x 76 362 x 106	77 95 132	Pole top mor	unting cages	P83
AW1507/6 6 AW1581/7 7 AW1581/8 8	35 35 35 35	0.4 0.4 0.4 0.4	168 193 193	362 x 106 362 x 106 362 x 126 362 x 126	152 154 215 240	PIR mounting	g ring	P84
AW1576/9 9 AW1576/10 10	35	0.4	219	362 × 126 362 × 126	293 376			
Heavy duty - Typically	for large fully functional	PTZ, offset camera	a loads where	e min deflection is requi	red		Quick reference	
AW1507/4 4 AW1581/5 5	50 50	0.5 0.5	168 193	362 × 106 362 × 126	110 165	Single fixed o	amera knuckle	PTS-I
AW1581/6 6 AW1576/7 7	50 50	0.5 0.5	193 219	362 x 126 362 x 126	190 235			
AW1576/8 8 AW1631/9 9	50 50	0.5 0.5	219 273	362 × 126 462 × 126	264 418	Iwin fixed ca	mera bracket	TB2-60
AW1631/10 10 AW1631/12 12	50 50	0.5	273 273	462 x 126 462 x 126	461 547	Half swanned	k for dome	AW169
		0.5	2/3	TUL X 120	J-1/			

 TUBULAR TAPERED FIXED POLES - giving aesthetic appearance, and good rigidity

 Model
 Height
 Max equip weight
 Max equip
 Pole Top
 Pole Bottom
 Door ape

No.	in metres	at pole top	surface area	ØB	ØC	size H x W	kgs
AW2207/4	4	kgs 35	m <sup>2</sup> 0.4	114	187	360 x 115	93
AW2207/5		35	0.4	114	198	360 x 135	124
AW2207/6	-	35	0.4	140	249	360 x 140	174
AW2207/7		35	0.4	140	267	360 x 160	210
AW2207/8	-	35	0.4	140	285	360 x 170	251

Where payloads are greater than those stated above, please contact Altron All dimensions in mm unless stated otherwise

Quick referen	nce
Single fixed camera knuckle	PTS-I
Twin fixed camera bracket	TB2-600F
Half swanneck for dome	AW1699H
Full swanneck for dome	AW1699F
Anti climb guard	SGC
PIR mounting ring	AW1962
Telemetry bracket	АТВС

www.altron.co.uk 24

Due to our policy of continuous product improvement specifications may change without notice

### → AW1502 Lamp Standard Pole



AW1502/10/DD

#### Height range 3m - 15m

Altron lamp standard CCTV poles are a versatile, high specification range of poles, designed to look like traditional lamp posts, but are very heavy duty, specifically to give the rigidity required for CCTV camera mounting. The range is ideal for medium to heavy duty applications, including dual CCTV and lighting, where we offer a full range of accessories to support this use. There are also lighter duty (LD) models, which are more economically suited for fixed camera and light PTZ installations.

o Car parks

0

Retail Parks

Sports stadia

o Railway platforms & car parks

### Typically used for the following types of installation

- Public area urban CCTV 0
- Highways
- Industrial and commercial premises ο
- Schools and universities
- **Security Features**
- Internal cabling 0
- Close fitting flush doors 0
- Solid secure heavy duty door locks o
- Anchor bolts below ground level 0

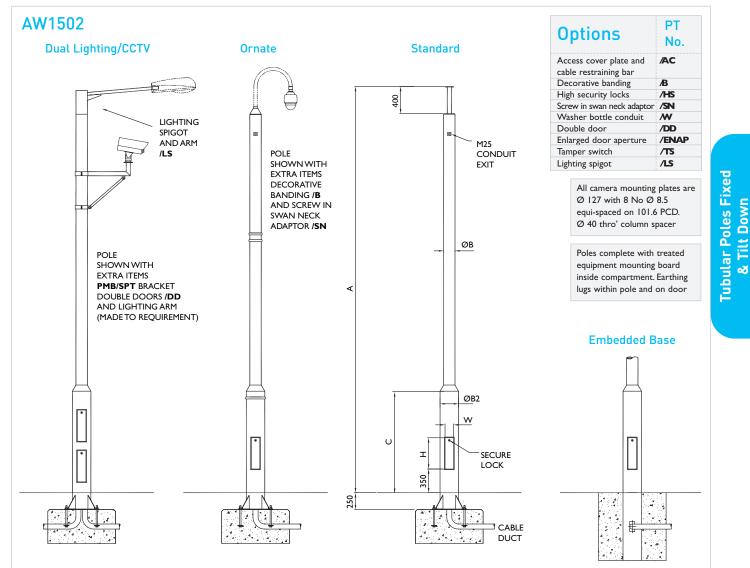
### **General Features**

- ο Stable structures for all camera types
- Versatile range with many accessories for both CCTV and dual lighting use ο
- Double door versions available for dual CCTV and lighting, keeping services separate 0
- Enlarged door version available where additional equipment mounting capacity is required 0
- ο Compartments have doors that are close fitting and flush with heavy duty secure locks and are complete with treated backboard
- Available in bolt down and embedded/direct burial versions ο
- o A wide range of standard Altron accessories and Brackets available
- Pole adaptations available to suit customers/project specific requirements 0
- Constructed in high tensile steel and hot dip galvanised after fabrication for durability о
- Option of painting over the galvanised finish in colours available from BS and RAL colour charts ο
- o Also available in 316 stainless steel, architectural finish
- o For design, manufacturing and finishing standards, see details on page 107





### AW1502 Lamp Standard Pole ← Technical Specification



FOR FOUNDATION & BOLTING DETAILS REFE	R TO PAGE 29
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Accessories	
Top mounting brackets for Fixed and PTZ cameras	P76
Swanneck brackets for Dome cameras	P81
Anti-climb guards	P77
Clamp-on camera mounting brackets	P79
Telemetry box mounting brackets	P77
Pole top mounting cages	P83
PIR mounting ring	P84

Quick reference								
Single fixed camera knuckle	PTS-I							
Twin fixed camera bracket	TB2-600F							
Half swanneck for dome	AW1699H							
Full swanneck for dome	AW1699F							
Anti climb guard	SGC							
PIR mounting ring	AW1962							
Telemetry bracket	АТВС							

Model No.	Height in mtrs A	Max equip weight at top kgs	Max equip surface area m <sup>2</sup>	Shaft ØB	Base ØB2	Base height C	Door aperture size H x W	Product weight kgs
WI502/3	3	35	0.4	139	219	1100	362x126	99
W1502/4	4	35	0.4	139	219	1100	362x126	117
AW1502/5	5	35	0.4	168	273	1500	462x126	192
AW1502/5LD	5	25	0.25	139	219	1500	362x126	135
AW1502/6	6	35	0.4	168	273	1500	462x126	214
AW1502/6LD	6	25	0.25	139	219	1500	362x126	153
AW1502/7	7	35	0.4	168	273	1500	462x126	236
AW1502/7LD	7	25	0.25	139	219	1500	362x126	171
AW1502/8LD	8	25	0.25	168	273	1500	462x126	258
AW1502/8	8	35	0.4	219	323	1900	425×177	353
AW1502/9	9	35	0.4	219	323	1900	425x177	382
AW1502/10	10	35	0.4	219	323	1900	425X177	453
AW1502/10H	<b>D</b> 10	50	0.5	273	355	1900	425×177	614
AW1502/11	11	35	0.4	273	355	1900	425×177	657
AW1502/12	12	35	0.4	273	355	1900	425×177	700
AW1502/13	13	35	0.4	273	355	1900	425×177	743
AW1502/14	14	35	0.4	273	355	1900	425×177	786

Where payloads are greater than those stated above, please contact Altron All dimensions in mm unless stated otherwise

0.4

273

355

AW1502/15

15

35

425×177

829

1900

### → AW1859 & AW4460 Tubular Tilt Down Poles



AW4460/4



AW1859/5

#### Height range 4m - 12m

The AW4460 is a light duty tilt down tubular pole more suitable for fixed camera and dome installations, whereas the AW1859 range is a heavier duty product suitable for medium to heavy PTZ applications. Both products give a neat and aesthetic appearance and are suitable for installations where the public have access, whilst enabling camera equipment to be serviced at ground level. Flush doors and secure locks make these secure products, designed for security installations. A full range of standard accessories back up this comprehensive range of tilt down poles.

#### Typically used for the following types of installation

- o Industrial and commercial premises
- o Perimeter detection
- o Schools and universities
- o Prisons and detention facilities
- o Railway platforms & car parks
- o Car parks
- o Public area CCTV
- o Retail Parks
- o Sports stadia

#### **Security Features**

- o Internal cabling
- o Close fitting flush doors
- o Solid secure heavy duty door locks
- o Internal padlock facility to protect against un-authorised lowering
- o Can be mounted with anchor bolts below ground level

#### **General Features**

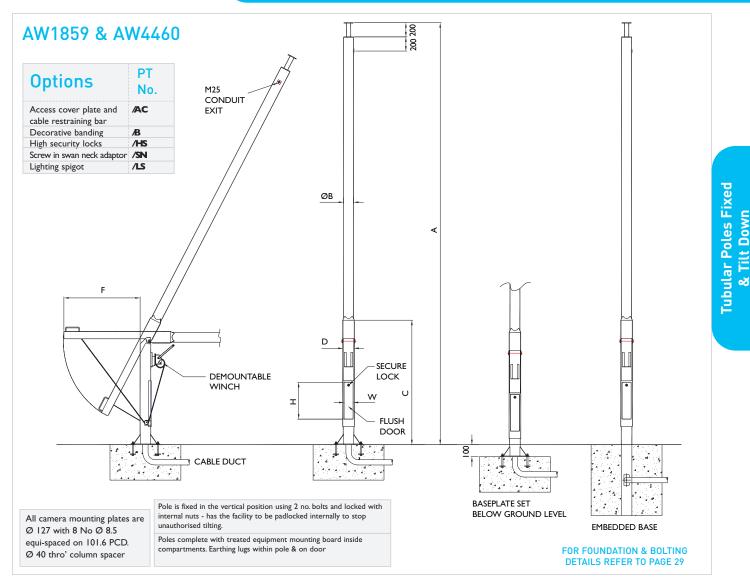
- o Stable structures for all camera types
- o Suitable for public access areas
- o Demountable winches allow for a secure installation whilst also reducing costs on multiple installations
- o Compartments have doors that are close fitting and flush with heavy duty secure locks and are
  - complete with treated backboard
- o Available in bolt down and embedded/direct burial versions
- o A wide range of standard Altron Accessories and Brackets available
- o Pole adaptations available to suit customers/project specific requirements
- o Constructed in high tensile steel and hot dip galvanised after fabrication for durability
- o Option of painting over the galvanised finish in colours available from BS and RAL colour charts
- o Also available in 316 stainless steel, architectural finish
- o For design, manufacturing and finishing standards, see details on page 107



AW1859/6 in tilted position

Tubular Poles Fixed & Tilt Down

### AW1859/4460 Tubular Tilt Down Pole ← Technical Specification



Model No.	Height in mtrs A	Max equip weight at pole top	Max equip surface area	Pole ØB	Post size D <sup>2</sup>	Post height C	Pole rear clearance when tilting F	Door aperture H x W	Winch part number	Product weight kgs
		kgs	m²							
AW4460 T	LT-DOW	N POLES -	suitable fo	or loads (	up to ligh	it PTZ and	d dual dom	e applicati	ons	
AW4460/4	4	25	0.25	114	150	1700	1800	500×110	DW1000/	<b>50</b> 115
AW4460/5	5	25	0.25	114	150	1700	1800	500×110	DW1000/	<b>50</b>   30
AW4460/6	6	25	0.25	114	150	1700	1800	500×110	DW1000/	<b>50</b> 145
AW4460/7	7	25	0.25	139	150	2000	2200	500×110	DW1500/	<b>50</b> 198
AW4460/8	8	25	0.25	139	150	2000	2200	500×110	DW1500/	<b>50</b> 216
AW1859 TI AW1859/4		<mark>'N POLES</mark> - 40	suitable fo 0.40	or heavie 139	r PTZ ap 150	plications	and for he	ights up to 500x110	0 12m DW1000/	<b>59</b> 125
AW1859/5	5	40	0.40	139	150	1700	1800	500×110	DW1000/	<b>59</b>  47
AW1859/6	6	30	0.40	139	150	1700	1800	500×110	DW1000/	<b>59</b> 170
AW1859/7	7	30	0.40	168	180	2000	2200	500×130	DW1500/	<b>59</b> 253
AW1859/8	8	30	0.40	168	180	2000	2200	500×130	DW1500/	<b>59</b> 275
AW1859/9	9	30	0.40	193	200	2700	2900	500×140	DW2500/	<b>59</b> 401
AW1859/1	0 10	30	0.40	193	200	2700	2900	500×140	DW2500/	<b>59</b> 427

200

200

2700

2700

Where payloads are greater than those stated above, please contact Altron All dimensions in mm unless stated otherwise

0.30

0.25

193

193

25

25

AW1859/11 ||

AW1859/12 12

A .	
Accessories	
Top mounting brackets for Fixed and PTZ cameras	P76
Swanneck brackets for Dome cameras	P81
Anti-climb guards	P77
Clamp-on camera mounting brackets	P79
Telemetry box mounting brackets	P77
Pole top mounting cages	P83
PIR mounting ring	P84

### Quick reference

Single fixed camera knuckle	PTS-I
Twin fixed camera bracket	TB2-600F
Half swanneck for dome	AW1699H
Full swanneck for dome	AW1699F
Anti climb guard	SGC
PIR mounting ring	AW1962
Telemetry bracket	АТВС

2900

2900

500×140

500x140

DW2500/59 453

DW2500/59 479

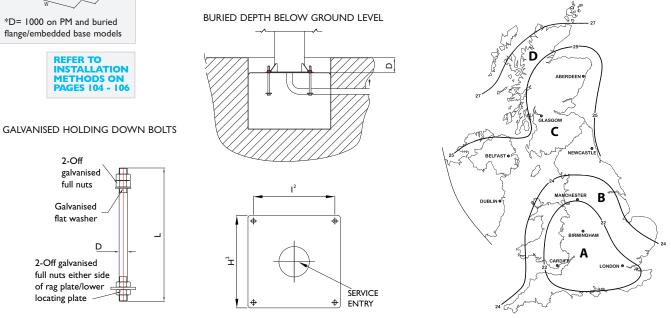
### $\rightarrow$ Tubular Poles - Fixed & Tilt-Down **Foundations & Bolting Details**

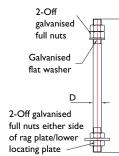
IODEL NO.	HEIGHT MTRS	RES	E E	ASE				TION SIZE				
		BOLT CENTRES'1 <sup>2,</sup>	BURIED DEPTH 'D'	A B	SERVICE ENTRY SIZE	HOLDING DOWN BOLT SIZE D × L	CC	UNTRY LOCAT	ION	тс	WN LOCATIO	N
		Ü	- <u> </u>	BASE PLATE SIZE 'H <sup>2,</sup>	ά	т С «	AREA A	AREA B	AREA C	AREA A	AREA B	AREA C
W1502 - lam												
N1502/4	4m	350	250	405	200	M16x245	0.9 x 0.9 x 0.5	0.9 x 0.9 x 0.5	0.9 x 0.9 x 0.5	0.9 x 0.9 x 0.5	0.9 x 0.9 x 0.5	0.9 x 0.9 x 0.5
N1502/5	5m	450	250	510	250	M20x325	1.1 x 1.1 x 0.55	1.1 x 1.1 x 0.55	1.2 x 1.2 x 0.6	1.0 x 1.0 x 0.5	1.0 x 1.0 x 0.5	1.1 x 1.1 x 0.55
W1502/6	6m	450	250	510	250	M20x325	1.1 x 1.1 x 0.55	1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65	1.1 x 1.1 x 0.55	1.1 x 1.1 x 0.55	1.2 x 1.2 x 0.6
₩1502/7	7m	450	250	510	250	M20x325	1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65	1.3 x 1.3 x 0.65	1.2 x 1.2 x 0.6	1.2 × 1.2 × 0.6	1.3 x 1.3 x 0.65
W1502/8	8m	550	250	630	250	M24x425	1.3 x 1.3 x 0.65	1.4 x 1.4 x 0.7	1.5 × 1.5 × 0.75	1.3 × 1.3 × 0.65	1.3 × 1.3 × 0.65	1.4 × 1.4 × 0.7
W1502/10	10m 10m	550 700	250 250	630 800	250	M24x425	1.5 x 1.5 x 0.75	1.6 x 1.6 x 0.8	1.7 x 1.7 x 0.9	1.4 x 1.4 x 0.7	1.5 x 1.5 x 0.75	1.6 x 1.6 x 0.8
W1502/10HD W1502/12	10m	700	250	800	300 300	M27x600 M27x600	1.6 x 1.6 x 0.8 1.7 x 1.7 x 0.9	1.7 x 1.7 x 0.9 1.8 x 1.8 x 0.9	1.8 x 1.8 x 0.9 2.0 x 2.0 x 1.0	1.5 x 1.5 x 0.75 1.6 x 1.6 x 0.8	1.6 x 1.6 x 0.8 1.7 x 1.7 x 0.9	1.7 x 1.7 x 0.9 1.8 x 1.8 x 0.9
W1502/12	12m	700	250	800	300	M27x600	2.0 x 2.0 x 1.0	2.1 x 2.1 x 1.0	2.0 x 2.0 x 1.0 2.2 x 2.2 x 1.1	1.8 x 1.8 x 0.9	2.0 x 2.0 x 1.0	2.1 x 2.1 x 1.0
				800	300	1127 X000	2.0 x 2.0 x 1.0	2.1 X 2.1 X 1.0	2.2 X 2.2 X 1.1	1.0 X 1.0 X U.7	2.0 X 2.0 X 1.0	2.1 X 2.1 X 1.0
W1859 - tub W1859/4	4m	350	n	405	120	M16x245	0.9 x 09 x 0.5	1.0 x 1.0 x 0.5	1.1 x 1.1 x 0.55	0.9 x 09 x 0.5	0.9 x 09 x 0.5	1.0 x 1.0 x 0.5
W1859/5	5m	350		405	120	MI6x245	1.1 x 1.1 x 0.55	1.1 x 1.1 x 0.55	$1.2 \times 1.2 \times 0.6$	$1.0 \times 1.0 \times 0.5$	$1.0 \times 1.0 \times 0.5$	1.1 x 1.1 x 0.55
W1859/6	6m	350		405	120	MI6x245	1.1 x 1.1 x 0.55	1.2 x 1.2 x 0.6	1.2 x 1.2 x 0.6	1.1 x 1.1 x 0.55	1.1 x 1.1 x 0.55	1.2 x 1.2 x 0.6
W1859/7	7m	450		510	150	M20x325	1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65	1.3 x 1.3 x 0.65	1.1 x 1.1 x 0.55	$1.2 \times 1.2 \times 0.6$	1.3 x 1.3 x 0.65
W1859/8	8m	450		510	150	M20x325	1.3 x 1.3 x 0.65	1.3 x 1.3 x 0.65	1.4 x 1.4 x 0.7	$1.2 \times 1.2 \times 0.6$	1.3 x 1.3 x 0.65	1.3 x 1.3 x 0.65
W1859/10	10m	550		630	180	M24x425	1.4 x 1.4 x 0.7	1.5 x 1.5 x 0.75	1.6 x 1.6 x 0.8	1.4 x 1.4 x 0.7	1.5 x 1.5 x 0.75	1.5 x 1.5 x 0.75
W1859/12	I2m	550		630	180	M24x425	1.5 x 1.5 x 0.75	1.6 x 1.6 x 0.8	1.7 x 1.7 x 0.9	1.4 x 1.4 x 0.7	1.5 x 1.5 x 0.75	1.6 x 1.6 x 0.8
N4460 - tub	ular ti	lt-dow	n									
W4460/4	4m	350		405	120	M16x245	0.9 x 09 x 0.5	0.9 x 0.9 x 0.5	0.9 x 0.9 x 0.5	0.8 x 0.8 x 0.4	0.9 x 09 x 0.5	0.9 x 0.9 x 0.5
W4460/6	6m	350		405	120	M16x245	1.1 x 1.1 x 0.55	1.1 x 1.1 x 0.55	1.1 x 1.1 x 0.55	$1.0 \times 1.0 \times 0.5$	$1.0 \times 1.0 \times 0.5$	1.1 x 1.1 x 0.55
W4460/8	8m	450		510	150	M20x325	1.2 x 1.2 x 0.6	1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65	1.1 x 1.1 x 0.55	1.2 × 1.2 × 0.6	1.2 x 1.2 x 0.6
ibular poles	s - Ligl	nt Duty										
W1755/4	4m	350		405	110	M16x245	0.9 x 0.9 x 0.5	0.9 x 0.9 x 0.5	0.9 x 0.9 x 0.5	0.8 x 0.8 x 0.4	0.9 × 0.9 × 0.5	0.9 x 0.9 x 0.5
W1592/5	5m	350		405	110	M16x245	0.9 x 0.9 x 0.5	1.0 x 1.0 x 0.5	1.0 x 1.0 x 0.5	0.9 x 0.9 x 0.5	0.9 x 0.9 x 0.5	1.0 x 1.0 x 0.5
W1592/6	6m	350		405	110	M16x245	1.0 x 1.0 x 0.5	1.1 x 1.1 x 0.55	1.1 x 1.1 x 0.55	1.0 x 1.0 x 0.5	1.0 x 1.0 x 0.5	1.1 x 1.1 x 0.55
W1507/7	7m	450		510	150	M20x325	1.1 x 1.1 x 0.55	1.2 x 1.2 x 0.6	1.2 x 1.2 x 0.6	1.1 x 1.1 x 0.55	1.1 x 1.1 x 0.55	1.2 x 1.2 x 0.6
W1507/8 W1581/9	8m 9m	450 550		510 630	150 180	M20x325 M24x425	1.2 x 1.2 x 0.6 1.3 x 1.3 x 0.65	1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65	1.1 x 1.1 x 0.55	1.2 × 1.2 × 0.6	1.2 × 1.2 × 0.6
W1581/10	10m	550		630	180	M24x425 M24x425	1.3 x 1.3 x 0.65	1.3 x 1.3 x 0.65 1.4 x 1.4 x 0.7	l.4 x l.4 x 0.7 l.5 x l.5 x 0.75	1.2 x 1.2 x 0.6 1.3 x 1.3 x 0.65	1.3 x 1.3 x 0.65 1.4 x 1.4 x 0.7	1.3 x 1.3 x 0.65 1.4 x 1.4 x 0.7
	TOIL	330		030	100	11242425	1.5 X 1.5 X 0.65	1.4 X 1.4 X 0.7	1.5 X 1.5 X 0.75	1.5 X 1.5 X 0.05	1.4 X 1.4 X 0.7	1.4 × 1.4 × 0.7
edium duty W1592/4	4m	350		405	110	M16x245	0.9 x 0.9 x 0.5			0.9 x 0.9 x 0.5	0.000.5	
W1507/5	5m	450		510	150	M20x325	1.0 x 1.0 x 0.5	1.0 x 1.0 x 0.5 1.1 x 1.1 x 0.55	1.0 x 1.0 x 0.5 1.2 x 1.2 x 0.6	$1.0 \times 1.0 \times 0.5$	0.9 x 0.9 x 0.5 1.0 x 1.0 x 0.5	1.0 x 1.0 x 0.5 1.1 x 1.1 x 0.55
W1507/6	5m	450		510	150	M20x325	1.0 x 1.0 x 0.5 1.1 x 1.1 x 0.55	$1.1 \times 1.1 \times 0.33$ $1.2 \times 1.2 \times 0.6$	1.2 x 1.2 x 0.6	1.0 x 1.0 x 0.5 1.1 x 1.1 x 0.55	1.0 x 1.0 x 0.5 1.1 x 1.1 x 0.55	1.1 x 1.1 x 0.33
WI581/7	7m	450		510	180	M20x325	1.2 x 1.2 x 0.6	1.2 x 1.2 x 0.65	1.2 x 1.2 x 0.65	1.1 x 1.1 x 0.55	$1.2 \times 1.2 \times 0.6$	1.3 x 1.3 x 0.65
W1581/8	8m	550		630	180	M24x425	1.3 x 1.3 x 0.65	1.4 x 1.4 x 0.7	1.4 x 1.4 x 0.7	$1.2 \times 1.2 \times 0.6$	1.3 x 1.3 x 0.65	1.3 x 1.3 x 0.65
W1576/9	9m	550		630	200	M24x425	1.4 x 1.4 x 0.7	1.5 x 1.5 x 0.75	1.5 x 1.5 x 0.75	1.3 x 1.3 x 0.65	1.4 x 1.4 x 0.7	1.4 x 1.4 x 0.7
W1576/10	10m	550		630	200	M24x425	1.5 x 1.5 x 0.75	1.5 x 1.5 x 0.75	1.6 x 1.6 x 0.8	1.4 x 1.4 x 0.7	1.5 x 1.5 x 0.75	1.6 x 1.6 x 0.8
eavy duty												
W1507/4	4m	350		405	150	M16x245	1.0 x 1.0 x 0.5	1.0 x 1.0 x 0.5	I.I x I.I x 0.55	0.9 x 0.9 x 0.5	1.0 x 1.0 x 0.5	1.0 x 1.0 x 0.5
W1581/5	5m	450		510	180	M20x325	1.1 x 1.1 x 0.55	1.2 x 1.2 x 0.6	1.2 x 1.2 x 0.6	1.0 x 1.0 x 0.5	1.1 x 1.1 x 0.55	1.1 x 1.1 x 0.55
W1581/6	6m	450		510	180	M20x325	1.2 x 1.2 x 0.6	1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65	1.1 x 1.1 x 0.55	1.2 x 1.2 x 0.6	1.2 x 1.2 x 0.6
W1576/7	7m	450		510	200	M20x325	1.3 x 1.3 x 0.65	1.3 x 1.3 x 0.65	1.4 x 1.4 x 0.7	1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65	1.3 x 1.3 x 0.65
W1576/8	8m	550		630	200	M24x425	1.4 x 1.4 x 0.7	1.4 x 1.4 x 0.7	1.5 x 1.5 x 0.75	1.3 x 1.3 x 0.65	1.3 x 1.3 x 0.65	1.4 x 1.4 x 0.7
W1631/9	9m	550		630	250	M24x425	1.5 x 1.5 x 0.75	1.5 x 1.5 x 0.75	1.6 x 1.6 x 0.8	1.4 x 1.4 x 0.7	1.5 x 1.5 x 0.75	1.6 x 1.6 x 0.8
W1631/10	10m	550		630	250	M24x425	1.6 x 1.6 x 0.8	1.7 x 1.7 x 0.9	1.8 x 1.8 x 0.9	1.5 x 1.5 x 0.75	1.6 x 1.6 x 0.8	1.7 x 1.7 x 0.9
W1631/12	l2m	550		630	250	M24x425	1.8 x 1.8 x 0.9	1.8 x 1.8 x 0.9	2.0 x 2.0 x 1.0	1.7 x 1.7 x 0.9	1.8 x 1.8 x 0.9	1.9 x 1.9 x 1.0
pered tubu			250	405	150	MI4-245						
W2207/4	4m	350	250	405	150	MI6x245	0.9 × 0.9 × 0.5	1.0 x 1.0 x 0.5	1.0 × 1.0 × 0.5	0.9 × 0.9 × 0.5	0.9 × 0.9 × 0.5	1.0 x 1.0 x 0.5
W2207/6	6m	450	250 250	510	200	M20x325	1.1 x 1.1 x 0.55	1.2 x 1.2 x 0.6	1.2 x 1.2 x 0.6	1.1 x 1.1 x 0.55	1.1 x 1.1 x 0.55	1.2 x 1.2 x 0.6
W2207/8	8m n mm	450	250	510	200	M20x325	1.3 x 1.3 x 0.65	1.4 x 1.4 x 0.7	1.4 x 1.4 x 0.7	1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65	1.3 x 1.3 x 0.65

for area C, we recommend increased foundation sizes. Please refer to the table on page 101 for conformation of these. A minimum soil bearing capacity of 75 kN/m<sup>2</sup> is assumed. 

Foundation base dimensions are typical and may vary depending on site conditions.

• Please refer to the foundations & windloading section on pages 101-103 for further guidance.





Tubular Poles Fixed & Tilt Down

### Cabinet Based Poles Gallery $\leftarrow$

Altron Cabinet Based Poles are versatile and robust with the facility for 2 or more compartments therefore making them ideal for multiple use installations - such as CCTV and traffic light mounting.



AW1545/6/DD/UP with gold banding



AW1545/6/DD/UP with gold banding



AW1545/6/300/DD/UP with banding and screw in swan neck

### $\rightarrow$ Cabinet Based Poles Gallery



AW1545/5/TD/UP



AW1545/8/UP



AW1545/8/UP



AW1545/6/UP in stainless steel

### Cabinet Based Poles $\leftarrow$



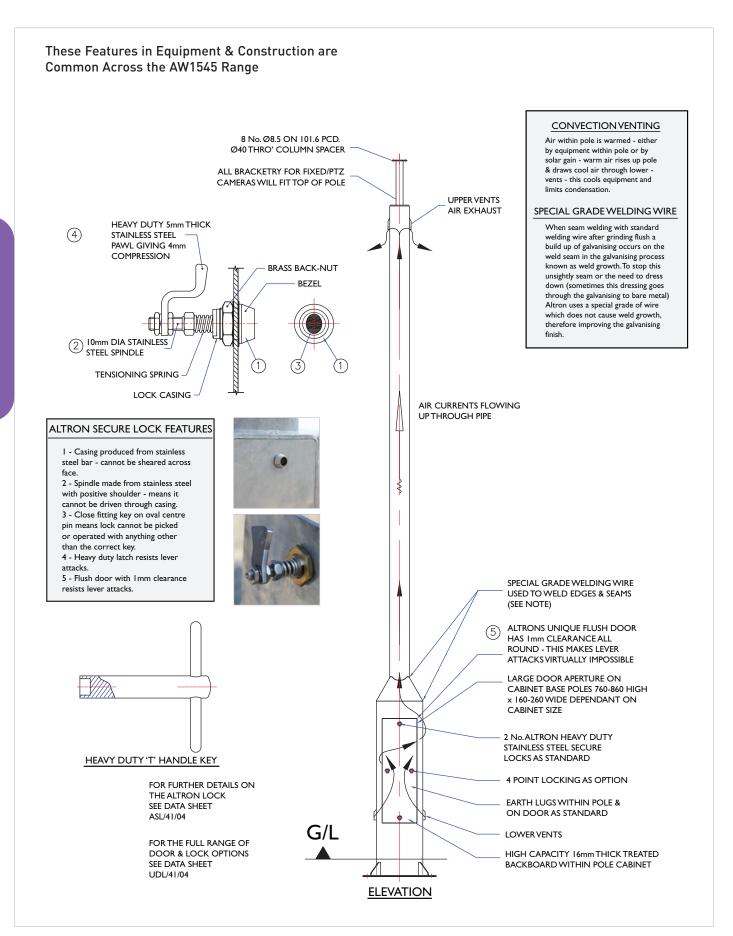
Altron AW1545 cabinet based camera poles were originally introduced in 1994 as the first CCTV cabinet based pole product. They have been used and specified extensively since then and are now a common feature in urban areas throughout the UK. Ideal for mounting camera equipment within, they provide a cost effective installation and reduce street furniture and clutter. The tilt-down range enables camera equipment to be serviced easily at ground level, without the need for a man lift. Recent developments have been aimed at producing a clean and aesthetic outline, whilst enhancing security, so close fitting flush doors and our heavy duty secure locks are now common across the range.

The AW2075 Cylindrical cabinet based version, with parallel or tapered shafts are popular for installations with an architectural theme.

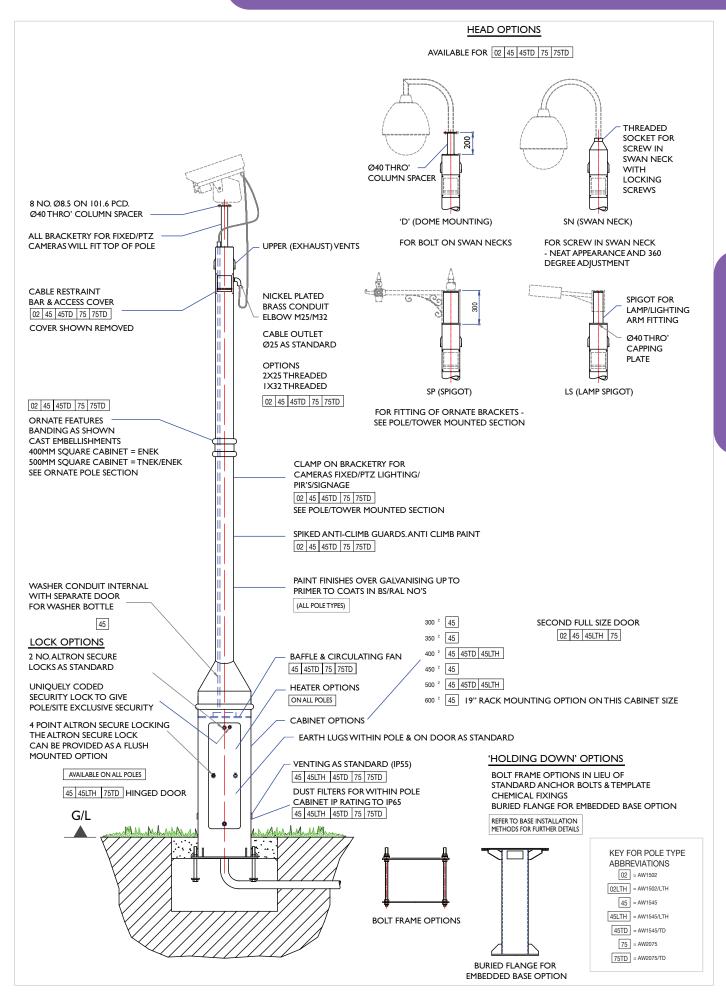
Altron's numerous security design features ensure a good level of protection against vandal attacks.

www.altron.co.uk 32 Due to our policy of continuous product improvement specifications may change without notice

### $\rightarrow$ Features of Urban Highway Poles



### Options of Urban Highway Poles $\leftarrow$



### $\rightarrow$ AW1545/UP Cabinet Based Pole



### Fixed height range 4m - 15m Tilt Down height range 4m -12m

Designed to meet the specific demands of urban area CCTV, our range of high specification cabinet based poles come as standard with venting, high security locks and high capacity, good quality, treated back boards. With many cabinet sizes, door options and head mounting options, backed up with a full range of accessories, the AW1545 UP pole range offers a comprehensive solution for urban CCTV installations.

### Typically used for the following types of installation

- o Public area urban CCTV
- o Highways
- o Industrial and commercial premises
- o Schools and universities
- o Prisons and detention facilities
- o Utilities sites
- o Railway platforms & car parks
- o Car parks
- o Retail Parks
- o Sports stadia

#### **Security Features**

- o Internal cabling
- o Close fitting flush doors
- o Solid secure heavy duty door locks and high security lock
- o Secure venting method
- o Internal padlock facility on tilt down poles to protect against un-authorised lowering
- o Anchor bolts below ground level

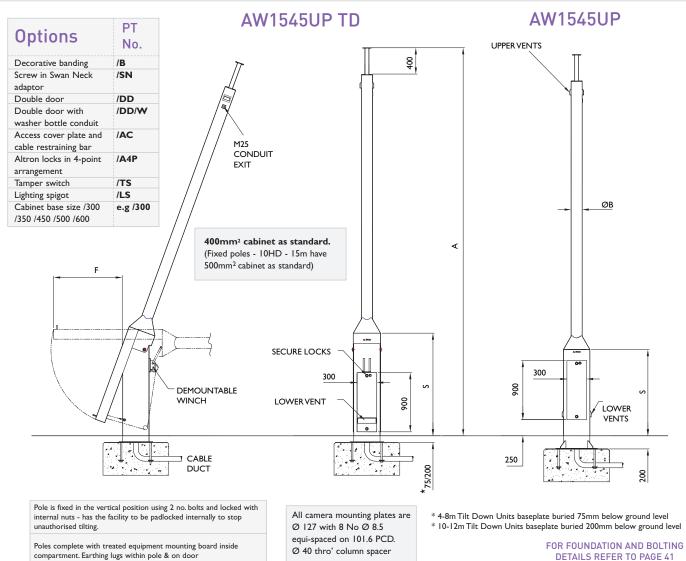
#### **General Features**

- o Stable structures for all camera types
- o Available in 6 standard cabinet sizes, 300, 350, 400, 450, 500 and 600 square (400mm square as standard if not specified)
- o Flush fitting door, level with cabinet surface, no external frame combined with flush fitting Altron secure locks and a high security lock giving enhanced security and a clean aesthetic appearance
- o 4 point security door locking option
- o Standard convection venting eliminates condensation (when the pole base is properly sealed on installation)
- o Baffle vents to IP55 available as option
- o Demountable winches allow for a secure installation whilst also reducing costs on multiple installations
- o A wide range of standard Altron Accessories and Brackets available
- o Pole adaptations available to suit customers/project specific requirements
- o Constructed in high tensile steel and hot dip galvanised after fabrication for durability
- o Option of painting over the galvanised finish in colours available from BS and RAL colour charts
- o Also available in 316 stainless steel, architectural finish
- o For design, manufacturing and finishing standards, see details on page 107



AW1545/6TD/UP in tilted position

## $\rightarrow$ AW1545/UP Cabinet Based Pole **Technical Specification**



Model I No.	Height in mtrs A	Max equip weight at top kgs	Max equip surface area m <sup>2</sup>	Pole ØB	Cabinet height above ground S	Pole rear clearance when tilting F		Product weight kgs
AW1545UP-Fi	xed							
AW1545/4/UP	4	40	0.25	168	1300	-	-	216
AW1545/5/UP	5	40	0.25	168	1300	-	-	238
AW1545/6/UP	6	40	0.25	168	1300	-	-	260
AW1545/7/UP	7	40	0.25	168	1300	-	-	292
AW1545/8/UP	8	40	0.25	168	1300	-	-	314
AW1545/8HD/UP	8	40	0.25	219	1300	-	-	350
AW1545/9/UP	9	40	0.25	219	1650	-	-	425
AW1545/10/UP	10	40	0.25	219	1650	-	-	496
AW1545/10HD/U	<b>P</b> 10	40	0.25	273	1650	-	-	780
AW1545/12/UP	12	40	0.25	273	1650	-	-	866
AW1545/15/UP	15	40	0.25	273	1650	-	-	995
AW1545UP TE	D-Tilt	Down						
AW1545/4TD/UP	4	40	0.25	168	1625	II50 I	DW1000/45	246
WI545/6TD/UP	6	30	0.25	168	1625	II50 I	DW1000/45	290
WI545/8TD/UP	8	25	0.25	168	1625		DW1500/45	555
WI545/10TD/U	<b>P</b> 10	25	0.25	219	2650	2150 I	DW2500/45	668
AW1545/12TD/U	<b>P</b> 12	25	0.25	219	2650	2150 I	DW2500/45	726

Where payloads are greater than those stated above, please contact Altron All dimensions in mm unless stated otherwise

**DETAILS REFER TO PAGE 41** 

Accessories							
Top mounting brackets for Fixed and PTZ cameras	P76						
Swanneck brackets for Dome cameras	P81						
Anti-climb guards	P77						
Clamp-on camera mounting brackets	P79						
Telemetry box mounting brackets	P77						
Pole top mounting cages	P83						
PIR mounting ring	P84						

Quick reference						
Single fixed camera knuckle	PTS-I					
Twin fixed camera bracket	TB2-600F					
Half swanneck for dome	AW1699H					
Full swanneck for dome	AW1699F					
Anti climb guard	SGC					
PIR mounting ring	AW1962					
Telemetry bracket	АТВР					

**Cabinet Based Poles** 

## $\rightarrow$ AW1545/BAS Cabinet Based Pole



### Fixed height range 4m - 12m Tilt Down height range 4m -12m

The 'basic' AW1545 BAS cabinet based pole range offers a cost effective means of mounting CCTV equipment within the one pole structure. More commonly used for industrial and commercial type installations, it does not have venting and high security locks, that come as standard on the UP range, but does offer the other security features common to our cabinet based poles and also the clean, aesthetic appearance, common to the AW1545 ranges and is backed up with a full range of accessories.

### Typically used for the following types of installation

- o Public area CCTV
- o Industrial and commercial premises
- o Schools and universities
- o Prisons and detention facilities
- o Utilities sites
- o Railway platforms & car parks
- o Car parks
- o Retail Parks
- o Sports stadia

#### **Security Features**

- o Internal cabling
- o Close fitting flush doors
- o Solid secure heavy duty door locks
- o Internal padlock facility on tilt down poles to protect against un-authorised lowering

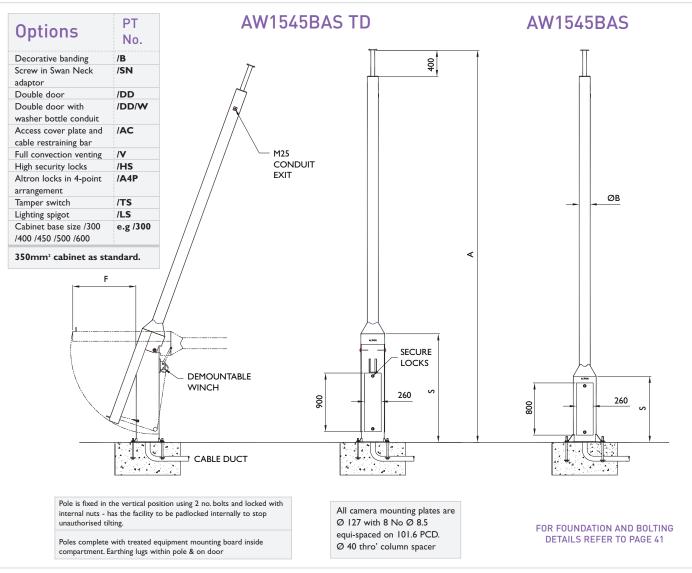
### **General Features**

- o Stable structures for all camera types
- o Available in 6 standard cabinet sizes, 300, 350, 400, 450, 500 and 600 square (350mm square as standard if not specified)
- o Flush fitting door, level with cabinet surface, no external frame combined with flush fitting Altron secure locks giving enhanced security and a clean aesthetic appearance
- o Treated wooden backboard within cabinet
- o 4 point security door locking option
- o Demountable winches allow for a secure installation whilst also reducing costs on multiple installations
- o A wide range of standard Altron Accessories and Brackets available
- o Pole adaptations available to suit customers/project specific requirements
- o Constructed in high tensile steel and hot dip galvanised after fabrication for durability
- o Option of painting over the galvanised finish in colours available from BS and RAL colour charts
  - For design, manufacturing and finishing standards, see details on page 107



AW1545/6TD/BAS in tilted position

## AW1545/BAS Cabinet Based Pole Technical Specification ←



Model No.	Height in mtrs A	Max equip weight at top kgs	Max equip surface area m <sup>2</sup>	Pole ØB	Cabinet height above ground S	Pole rear clearance when tilting F	Winch part number	Product weight kgs
AW1545BAS-F	ixed							
AW1545/4/BAS	4	40	0.25	168	1000	-	-	153
AW1545/5/BAS	5	40	0.25	168	1000	-	-	175
AW1545/6/BAS	6	40	0.25	168	1000	-	-	197
AW1545/7/BAS	7	40	0.25	168	1000	-	-	219
AW1545/8/BAS	8	40	0.25	168	1000	-	-	251
AW1545/8HD/BAS	8	40	0.25	193	1000	-	-	341
AW1545/9/BAS	9	40	0.25	193	1300	-	-	371
AW1545/10/BAS	10	40	0.25	193	1300	-	-	401
AW1545/12/BAS	12	40	0.25	193	1300	-	-	462

AW1545/4TD/BAS	4	40	0.25	168	1700	1100	DW1000/45	236
AW1545/6TD/BAS	6	30	0.25	168	1700	1100	DW1000/45	280
AW1545/8TD/BAS	8	25	0.25	168	1700	1100	DW1500/45	334
AW1545/10TD/BAS	10	25	0.25	193	2850	2150	DW2500/45	592
AW1545/12TD/BAS	12	25	0.25	193	2850	2150	DW2500/45	643

Where payloads are greater than those stated above, please contact Altron All dimensions in mm unless stated otherwise

Accessories							
Top mounting brackets for Fixed and PTZ cameras	P76						
Swanneck brackets for Dome cameras	P81						
Anti-climb guards	P77						
Clamp-on camera mounting brackets	P79						
Telemetry box mounting brackets	P77						
Pole top mounting cages	P83						
PIR mounting ring	P84						

Quick reference					
Single fixed camera knuckle	PTS-I				
Twin fixed camera bracket	TB2-600F				
Half swanneck for dome	AW1699H				
Full swanneck for dome	AW1699F				
Anti climb guard	SGC				
PIR mounting ring	AW1962				
Telemetry bracket	АТВР				

**Cabinet Based Poles** 

### Fixed height range 4m - 10m Tilt Down height range 4m - 10m

An architectural range of high specification cabinet based poles based on the AWI545 UP pole specification, but with a cylindrical cabinet and either a parallel or tapered pole shaft. These poles come as standard with venting, high security locks and high capacity, good quality, treated back boards.

### Typically used for the following types of installation

- Public area urban CCTV 0
- **Retail Parks** 0
- To fit in with other architectural tapered street furniture 0
- Sports stadia 0

#### **Security Features**

- Internal cabling ο
- Solid secure heavy duty door locks and high security lock 0
- Secure venting method 0
- Additional security measures available 0
- Internal padlock facility on tilt down poles to protect against un-authorised lowering
- Anchor bolts below ground level 0

### **General Features**

- о Stable structures for all camera types
- 4 point security door locking option 0
- Standard convection venting eliminates condensation (when the pole base is properly sealed on installation) 0
- Baffle vents to IP55 available as option 0
- Demountable winches allow for a secure installation whilst also reducing costs on multiple installations 0
- 0 A wide range of standard Altron Accessories and Brackets available
- Pole adaptations available to suit customers/project specific requirements 0
- Constructed in high tensile steel and hot dip galvanised after fabrication for durability ο
- Option of painting over the galvanised finish in colours available from BS and RAL colour charts 0
- Also available in 316 stainless steel, architectural finish о
- For design, manufacturing and finishing standards, see details on page 107 ο







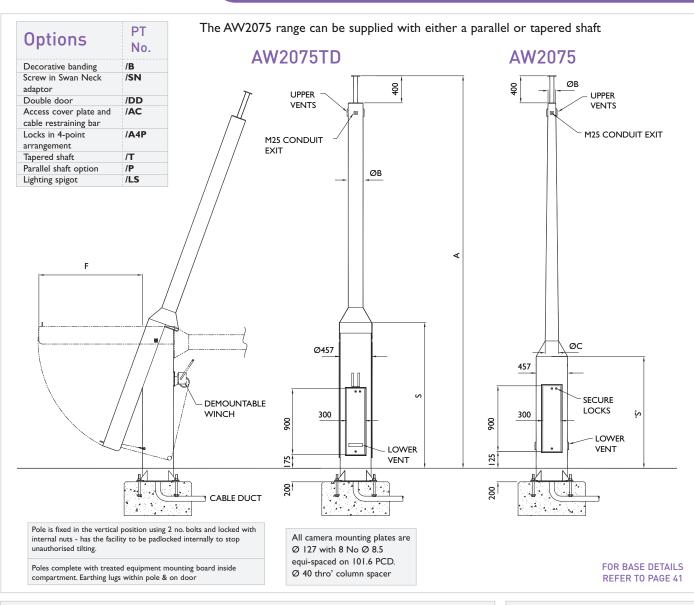


AW2075/6 with ornate finial

AW2075/8

**Cabinet Based Poles** 

### AW2075 Cabinet Based Pole Technical Specification ←



Model No.	Height in mtrs A	Max equip weight at pole	Max equip surface area	Parallel shaft ØB	Tapered shaft bottom ØC	Tapered shaft Top ØB	height above ground	Pole rear clearance when tilting		Product weight kgs	T F
		top kgs	m²				S	F			9
AW2075-	Fixed										_
AW2075/4	4	40	0.25	168	153	114	1200	-	-	208	
AW2075/5	5	40	0.25	168	171	114	1200	-	-	230	
AW2075/6	6	40	0.25	168	189	114	1200	-	-	252	
AW2075/7	7	40	0.25	168	230	140	1200	-	-	274	
AW2075/8	8	40	0.25	219	248	140	1650	-	-	318	
AW2075/9	9	40	0.25	219	266	140	1650	-	-	364	
AW2075/10	0 10	40	0.25	219	284	140	1650	-	-	410	
											-
AW2075	<b>FD-Tilt</b>	down									
AW2075/41	T <b>D</b> 4	40	0.25	168	144	114	1800	1350	DW1000/7	<b>5</b> 362	1

180

239

275

168

219

219

114

140

140

1800

1800

2150

Accessories								
Top mounting brackets for Fixed and PTZ cameras	P76							
Swanneck brackets for Dome cameras	P81							
Anti-climb guards	P77							
Clamp-on camera mounting brackets	P79							
Telemetry box mounting brackets	P77							
Pole top mounting cages	P83							
PIR mounting ring	P84							

**Cabinet Based Poles** 

Quick reference							
Single fixed camera knuckle	PTS-I						
Twin fixed camera bracket	TB2-600F						
Half swanneck for dome	AW1699H						
Full swanneck for dome	AW1699F						
Anti climb guard	SGC						
PIR mounting ring	AW1962						
Telemetry bracket	АТВР						

Where payloads are greater than those stated above, please contact Altron All dimensions in mm unless stated otherwise

0.25

0.25

0.25

30

25

25

6

8

AW2075/6TD

AW2075/8TD

AW2075/10TD 10

1350

1350

2150

DW1000/75

DW1500/75

DW2500/75

402

478

581

## $\rightarrow$ Cabinet Based Poles Foundations & Bolting Details

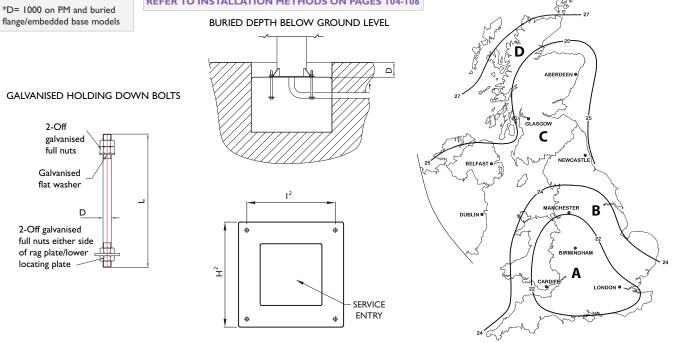
	HEIGHT MTRS	BOLT CENTRES <sup>'1<sup>2,</sup></sup>	BASE PLATE SIZE 'H <sup>2</sup> '	BURIED DEPTH 'D'	SERVICE ENTRY SIZE	HOLDING DOWN BOLT SIZE D X L	FOUNDA	TION SIZE	S FOR THE	UK			
Ĕ	ΞŦ	ΞF	ΞĘ	10 E	BA TE S	EPT	TRY		СО	UNTRY LOCAT	OWN LOCATION		
	1	Ü	PLA <sup>-</sup>		EX S	S D H	AREA A	AREA B	AREA C	AREA A	AREA B	AREA C	
W1545/UP													
ked cabinet bas	1.1												
W1545/4	4	550	630	200	370×370	M24x325	0.9 x 0.9 x 0.5	0.9 x 0.9 x 0.5	$1.0 \times 1.0 \times 0.5$	0.9 x 0.9 x 0.5	0.9 x 0.9 x 0.5	0.9 x 0.9 x 0.5	
V1545/5	5	550	630	200	370×370	M24x325	1.0 x 1.0 x 0.5	I.I x I.I x 0.55	1.1 x 1.1 x 0.55	0.9 x 0.9 x 0.5	1.0 x 1.0 x 0.5	1.0 x 1.0 x 0.5	
V1545/6	6	550	630	200	370×370	M24x325	1.1 x 1.1 x 0.55	1.1 x 1.1 x 0.55	1.2 x 1.2 x 0.6	1.0 x 1.0 x 0.5	1.1 x 1.1 x 0.55	1.1 x 1.1 x 0.55	
V1545/7	7	550	630	200	370x370	M24x325	1.1 x 1.1 x 0.55	1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65	1.1 x 1.1 x 0.55	1.1 x 1.1 x 0.55	1.2 x 1.2 x 0.6	
N1545/8	8 8	550 550	630 630	200 200	370x370 370x370	M24x425	1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65	1.3 x 1.3 x 0.65	1.2 x 1.2 x 0.6	1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65	
V1545/9	0 9	550	630	200	370x370 370x370	M24x425 M24x425	1.2 x 1.2 x 0.6 1.3 x 1.3 x 0.65	1.3 x 1.3 x 0.65 1.4 x 1.4 x 0.7	.4 x  .4 x 0.7  .4 x  .4 x 0.7	1.2 x 1.2 x 0.6 1.2 x 1.2 x 0.6	1.2 x 1.2 x 0.6 1.3 x 1.3 x 0.65	1.3 x 1.3 x 0.65 1.4 x 1.4 x 0.7	
V1545/10	10	550	630	200	370x370	M24x425	1.3 x 1.3 x 0.85	1.4 x 1.4 x 0.7 1.5 x 1.5 x 0.75	1.4 x 1.4 x 0.7	1.2 x 1.2 x 0.6 1.3 x 1.3 x 0.65	1.3 x 1.3 x 0.85	1.5 x 1.5 x 0.75	
V1545/10/HD		700	800	200	470x470	M27x600	1.4 x 1.4 x 0.7	1.5 x 1.5 x 0.75	1.6 x 1.6 x 0.8	1.5 x 1.5 x 0.05	1.4 x 1.4 x 0.7	1.5 x 1.5 x 0.75	
₩1545/12	12	700	800	200	470x470	M27x600	1.6 x 1.6 x 0.8	1.7 x 1.7 x 0.9	1.8 x 1.8 x 0.9	1.5 x 1.5 x 0.75	1.6 x 1.6 x 0.8	1.7 x 1.7 x 0.9	
V1545/15	15	700	800	200	470x470	M27x600	1.9 x 1.9 x 1.0	2.0 x 2.0 x 1.0	2.1 x 2.1 x 1.0	1.8 x 1.8 x 0.9	1.9 x 1.9 x 1.0	$2.0 \times 2.0 \times 1.0$	
V1545/UP/T	D												
t-down cabine		pole. Sta	andard ca	abinet bas	se size of 400	)mm <sup>2</sup>							
V1545/4TD	4	550	630	75	370x370	M24x325	1.0 x 1.0 x 0.5	1.0 x 1.0 x 0.5	l.l x l.l x 0.55	0.9 x 0.9 x 0.5	0.9 x 0.9 x 0.5	1.0 x 1.0 x 0.5	
V1545/6TD	6	550	630	75	370×370	M24x325	1.1 x 1.1 x 0.55	1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65	1.1 x 1.1 x 0.55	l.l x l.l x 0.55	1.2 x 1.2 x 0.6	
V1545/8TD	8	550	630	75	370×370	M24x425	1.3 x 1.3 x 0.65	1.3 x 1.3 x 0.65	1.4 x 1.4 x 0.7	1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65	1.3 x 1.3 x 0.65	
VI545/I0TD	10	550	630	200	370×370	M24x425	1.4 x 1.4 x 0.7	1.5 x 1.5 x 0.75	1.6 x 1.6 x 0.8	1.3 x 1.3 x 0.65	1.4 x 1.4 x 0.7	1.5 x 1.5 x 0.75	
VI545/I2TD	12	550	630	200	370×370	M24x425	1.6 x 1.6 x 0.8	1.7 x 1.7 x 0.9	1.8 x 1.8 x 0.9	1.5 x 1.5 x 0.75	1.6 x 1.6 x 0.8	1.7 x 1.7 x 0.9	
ed cabinet bas ₩1545/4	sed pole 4	. Standa 450	rd cabine	et base si N/A	ze of 350mm 330x330	<sup>2</sup> M20x325	0.9 x 0.9 x 0.5	0.9 x 0.9 x 0.5	1.0 x 1.0 x 0.5	0.9 × 0.9 × 0.5	0.9 x 0.9 x 0.5	0.9 x 0.9 x 0.5	
₩1545/5	5	450	510	N/A	330×330	M20x325	$1.0 \times 1.0 \times 0.5$	1.1 x 1.1 x 0.55	1.1 x 1.1 x 0.55	0.9 x 0.9 x 0.5	1.0 x 1.0 x 0.5	$1.0 \times 1.0 \times 0.5$	
₩1545/6	6	450	510	N/A	330×330	M20x325	1.1 x 1.1 x 0.55	1.1 x 1.1 x 0.55	1.2 x 1.2 x 0.6	1.0 x 1.0 x 0.5	l.l x l.l x 0.55	l.l x l.l x 0.55	
₩1545/7	7	550	630	N/A	330×330	M20x325	1.1 x 1.1 x 0.55	1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65	l.l x l.l x 0.55	l.l x l.l x 0.55	1.2 x 1.2 x 0.6	
₩1545/8	8	550	630	N/A	330×330	M24x425	1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65	1.3 x 1.3 x 0.65	1.2 x 1.2 x 0.6	1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65	
VI545/9	9	550	630	N/A	330×330	M24x425	1.3 x 1.3 x 0.65	1.4 x 1.4 x 0.7	1.5 x 1.5 x 0.75	1.3 x 1.3 x 0.65	1.3 x 1.3 x 0.65	1.4 x 1.4 x 0.7	
VI545/I0	10	550	630	N/A	330×330	M24x425	1.4 x 1.4 x 0.7	1.4 x 1.4 x 0.7	1.5 x 1.5 x 0.75	1.3 x 1.3 x 0.65	1.4 x 1.4 x 0.7	1.4 x 1.4 x 0.7	
	12	550	630	N/A	330x330	M24x425	1.6 x 1.6 x 0.8	1.7 x 1.7 x 0.9	1.8 x 1.8 x 0.9	1.4 x 1.4 x 0.7	1.6 x 1.6 x 0.8	1.7 x 1.7 x 0.9	
V1545/12													
V1545/BAS/		nolo Sta	undard or	hinot ba	so size of 250	lmm2							
V1545/BAS/ -down cabine	t based							10 10 0-			00 00 07		
V1545/BAS/ i-down cabine VI545/4TD	t based 4	450	510	75	330x330	M20x325	1.0 × 1.0 × 0.5	1.0 × 1.0 × 0.5	I.I x I.I x 0.55	0.9 × 0.9 × 0.5	0.9 × 0.9 × 0.5	1.0 x 1.0 x 0.5	
V1545/BAS/ t-down cabine W1545/4TD W1545/6TD	t based 4 6	450 450	510 510	75 75	330x330 330x330	M20x325 M20x325	1.1 x 1.1 x 0.55	1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65	I.I x I.I x 0.55	1.1 x 1.1 x 0.55	1.2 x 1.2 x 0.6	
V1545/BAS/ t-down cabine V1545/4TD V1545/6TD V1545/8TD	t based 4 6 8	450 450 550	510 510 630	75 75 75	330x330 330x330 330x330	M20x325 M20x325 M24x425	.  x  .  x 0.55  .3 x  .3 x 0.65	1.2 x 1.2 x 0.6 1.3 x 1.3 x 0.65	1.3 x 1.3 x 0.65 1.4 x 1.4 x 0.7	.  x  .  x 0.55  .2 x  .2 x 0.6	.  x  .  x 0.55  .3 x  .3 x 0.65	1.2 x 1.2 x 0.6 1.3 x 1.3 x 0.65	
V1545/BAS/ t-down cabine V1545/4TD V1545/6TD V1545/8TD V1545/10TD	t based 4 6 8 10	450 450 550 550	510 510 630 630	75 75 75 200	330x330 330x330 330x330 330x330	M20x325 M20x325 M24x425 M24x425	.  x  .  x 0.55  .3 x  .3 x 0.65  .4 x  .4 x 0.7	1.2 x 1.2 x 0.6 1.3 x 1.3 x 0.65 1.5 x 1.5 x 0.75	1.3 x 1.3 x 0.65 1.4 x 1.4 x 0.7 1.6 x 1.6 x 0.8	1.1 x 1.1 x 0.55 1.2 x 1.2 x 0.6 1.3 x 1.3 x 0.65	1.1 x 1.1 x 0.55 1.3 x 1.3 x 0.65 1.4 x 1.4 x 0.7	1.2 x 1.2 x 0.6 1.3 x 1.3 x 0.65 1.5 x 1.5 x 0.75	
V1545/BAS/ t-down cabine W1545/4TD W1545/6TD W1545/8TD W1545/10TD W1545/12TD	4 6 8 10 12	450 450 550 550 550	510 510 630	75 75 75	330x330 330x330 330x330	M20x325 M20x325 M24x425	.  x  .  x 0.55  .3 x  .3 x 0.65	1.2 x 1.2 x 0.6 1.3 x 1.3 x 0.65	1.3 x 1.3 x 0.65 1.4 x 1.4 x 0.7	1.1 x 1.1 x 0.55 1.2 x 1.2 x 0.6	.  x  .  x 0.55  .3 x  .3 x 0.65	1.2 x 1.2 x 0.6 1.3 x 1.3 x 0.65	
V1545/BAS/ -down cabine V1545/4TD V1545/6TD V1545/8TD V1545/10TD V1545/12TD V2075 - AW:	t based 4 6 8 10 12 2075/1	450 450 550 550 550	510 510 630 630 630	75 75 75 200 200	330×330 330×330 330×330 330×330 330×330	M20x325 M20x325 M24x425 M24x425 M24x425 M24x425	.  x  .  x 0.55  .3 x  .3 x 0.65  .4 x  .4 x 0.7	1.2 x 1.2 x 0.6 1.3 x 1.3 x 0.65 1.5 x 1.5 x 0.75	1.3 x 1.3 x 0.65 1.4 x 1.4 x 0.7 1.6 x 1.6 x 0.8	1.1 x 1.1 x 0.55 1.2 x 1.2 x 0.6 1.3 x 1.3 x 0.65	1.1 x 1.1 x 0.55 1.3 x 1.3 x 0.65 1.4 x 1.4 x 0.7	1.2 x 1.2 x 0.6 1.3 x 1.3 x 0.65 1.5 x 1.5 x 0.75	
V1545/BAS/ -down cabine W1545/4TD W1545/6TD W1545/8TD W1545/10TD W1545/12TD V2075 - AW: th fixed and till	t based 4 6 8 10 12 2075/1	450 450 550 550 550	510 510 630 630 630	75 75 75 200 200	330×330 330×330 330×330 330×330 330×330	M20x325 M20x325 M24x425 M24x425 M24x425 M24x425	.  x  .  x 0.55  .3 x  .3 x 0.65  .4 x  .4 x 0.7	1.2 x 1.2 x 0.6 1.3 x 1.3 x 0.65 1.5 x 1.5 x 0.75	1.3 x 1.3 x 0.65 1.4 x 1.4 x 0.7 1.6 x 1.6 x 0.8	1.1 x 1.1 x 0.55 1.2 x 1.2 x 0.6 1.3 x 1.3 x 0.65	1.1 x 1.1 x 0.55 1.3 x 1.3 x 0.65 1.4 x 1.4 x 0.7	1.2 x 1.2 x 0.6 1.3 x 1.3 x 0.65 1.5 x 1.5 x 0.75	
V1545/BAS/ t-down cabine W1545/4TD W1545/6TD W1545/8TD W1545/10TD W1545/12TD V2075 - AW: th fixed and till W2075/4	t based 4 6 8 10 12 2075/T t-down	450 450 550 550 550 TD poles ha	510 510 630 630 630 ve a Ø45	75 75 200 200	330x330 330x330 330x330 330x330 330x330 330x330	M20x325 M20x325 M24x425 M24x425 M24x425 M24x425	1.1 x 1.1 x 0.55 1.3 x 1.3 x 0.65 1.4 x 1.4 x 0.7 1.5 x 1.5 x 0.75	1.2 x 1.2 x 0.6 1.3 x 1.3 x 0.65 1.5 x 1.5 x 0.75 1.6 x 1.6 x 0.8	1.3 × 1.3 × 0.65 1.4 × 1.4 × 0.7 1.6 × 1.6 × 0.8 1.7 × 1.7 × 0.9	1.1 x 1.1 x 0.55 1.2 x 1.2 x 0.6 1.3 x 1.3 x 0.65 1.4 x 1.4 x 0.75	1.1 x 1.1 x 0.55 1.3 x 1.3 x 0.65 1.4 x 1.4 x 0.7 1.5 x 1.5 x 0.75	1.2 x 1.2 x 0.6 1.3 x 1.3 x 0.65 1.5 x 1.5 x 0.75 1.6 x 1.6 x 0.8	
W1545/12 N1545/BAS/ t-down cabine W1545/4TD W1545/6TD W1545/10TD W1545/10TD W1545/12TD N2075 - AW: th fixed and tilt W2075/4 W2075/8	t based 4 6 8 10 12 2075/T t-down 4	450 450 550 550 550 550 TD poles hav 450	510 510 630 630 630 ve a Ø45 510	75 75 200 200 7mm cab 200	330x330 330x330 330x330 330x330 330x330 inet base on Ø420	M20x325 M20x325 M24x425 M24x425 M24x425 M24x425 Vy. M20x325	1.1 × 1.1 × 0.55 1.3 × 1.3 × 0.65 1.4 × 1.4 × 0.7 1.5 × 1.5 × 0.75 0.9 × 0.9 × 0.5	1.2 × 1.2 × 0.6 1.3 × 1.3 × 0.65 1.5 × 1.5 × 0.75 1.6 × 1.6 × 0.8 0.9 × 0.9 × 0.5	1.3 × 1.3 × 0.65 1.4 × 1.4 × 0.7 1.6 × 1.6 × 0.8 1.7 × 1.7 × 0.9	1.1 × 1.1 × 0.55 1.2 × 1.2 × 0.6 1.3 × 1.3 × 0.65 1.4 × 1.4 × 0.75	1.1 × 1.1 × 0.55 1.3 × 1.3 × 0.65 1.4 × 1.4 × 0.7 1.5 × 1.5 × 0.75	$1.2 \times 1.2 \times 0.6$ $1.3 \times 1.3 \times 0.65$ $1.5 \times 1.5 \times 0.75$ $1.6 \times 1.6 \times 0.8$ $0.9 \times 0.9 \times 0.5$	
V1545/BAS/ t-down cabine: W1545/4TD W1545/6TD W1545/8TD W1545/10TD W1545/12TD V2075 - AW: th fixed and till th fixed and till w2075/4 W2075/6	t based 4 6 8 10 12 2075/T t-down 4 6	450 450 550 550 550 TD poles hav 450	510 510 630 630 630 ve a Ø45 510 510	75 75 200 200 7mm cab 200 200	330x330 330x330 330x330 330x330 330x330 330x330 inet base on Ø420 Ø420	M20x325 M20x325 M24x425 M24x425 M24x425 M24x425 M24x425 M20x325 M20x325	1.1 × 1.1 × 0.55 1.3 × 1.3 × 0.65 1.4 × 1.4 × 0.7 1.5 × 1.5 × 0.75 0.9 × 0.9 × 0.5 1.1 × 1.1 × 0.55	1.2 × 1.2 × 0.6 1.3 × 1.3 × 0.65 1.5 × 1.5 × 0.75 1.6 × 1.6 × 0.8 0.9 × 0.9 × 0.5 1.1 × 1.1 × 0.55	$\begin{array}{c} 1.3 \times 1.3 \times 0.65 \\ 1.4 \times 1.4 \times 0.7 \\ 1.6 \times 1.6 \times 0.8 \\ 1.7 \times 1.7 \times 0.9 \end{array}$	1.1 × 1.1 × 0.55 1.2 × 1.2 × 0.6 1.3 × 1.3 × 0.65 1.4 × 1.4 × 0.75 0.9 × 0.9 × 0.5 1.0 × 1.0 × 0.5	1.1 × 1.1 × 0.55 1.3 × 1.3 × 0.65 1.4 × 1.4 × 0.7 1.5 × 1.5 × 0.75 0.9 × 0.9 × 0.5 1.1 × 1.1 × 0.55	$\begin{array}{c} 1.2 \times 1.2 \times 0.6 \\ 1.3 \times 1.3 \times 0.65 \\ 1.5 \times 1.5 \times 0.75 \\ 1.6 \times 1.6 \times 0.8 \end{array}$	

• For area D locations and exposed locations over 100m above sea level for areas A, B and 150m above sea level for area C, we recommend increased foundation sizes. Please refer to the table on page 101 for conformation of these. • A minimum soil bearing capacity of 75 kN/m<sup>2</sup> is assumed.

• Foundation base dimensions are typical and may vary depending on site conditions.

Please refer to the foundations & windloading section on pages 101-103 for further guidance.

#### **REFER TO INSTALLATION METHODS ON PAGES 104-106**



Altron anti-vandal poles have a range of smart design features that ensure they are the toughest products available on the market. They have been successfully installed for many years in inner city areas of Belfast, London, Manchester, Glasgow, Leeds and many other high risk areas.

- Higher initial expenditure, but significant cost savings through not having to replace expensive camera equipment 0 repeatedly
- о Reduces camera down time and service call outs

o

- AW1545/AVD, AW1665 and AW1664 poles look like standard cabinet based camera poles, therefore minimising 0 visual impact
- Fire retardant upgrade to cabinet available on AW1664 and AW1663 pole variations о

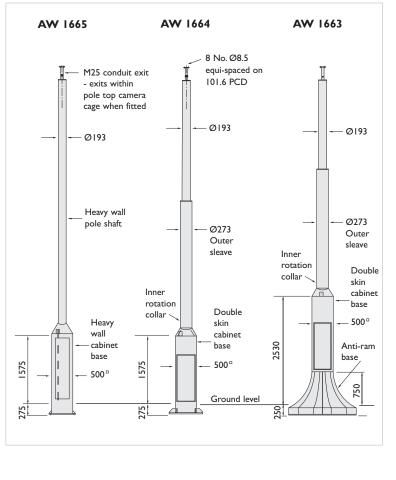


	AW1545/AVD	AW1665	AW1664	AW1663
Double Skin Base			•	•
Anti-Ram Base				•
Double Skin Pole Section			•	•
Dead Bolt Door Locking Mechanism	•	•	•	•
Heavy Wall Cabinet	•	•	•	•
Strengthened Base Plate and Increased				
Holding Down Capacity		•	•	•
High Security Door Locks	•	•	•	•
Double Door Access			•	•
Holding Down Bolts Below Ground Level	•	•	•	•
Stainless Steel Hinges on Outer Door		•	•	•
No Locks on Outer Door	•	•	•	•

AW1545/AVD not shown below, is based on the AW1545/UP cabinet based pole range (see p35) ο

All poles are hot dip galvanised to ISO 1461 as standard and painting to colours from BS and RAL colour charts, over the galvanised finish is available as an optional extra





**Cabinet Based Poles** 

AW1664

AW1663

# $\rightarrow$ Gallery - Ornate Poles

Altron ornate camera poles are used extensively throughout Central London



## Ornate Poles $\leftarrow$





AW1545/8/HNEK

AW1545/6/TNEK

Altron ornate poles are based on our cabinet based AW1545 UP range and our AW1502 lamp standard range. They incorporate all of the benefits of these standard pole ranges, but are appropriate for historic and sensitive locations where the camera pole needs to blend in with surrounding street furniture and architecture. The standard range is made up of the most popular variations, but we can also provide poles with a specific architectural theme for individual projects.

Altron's numerous security design features ensure a good level of protection against vandal attacks.



## $\rightarrow$ Ornate Poles



### AW1545 - ENEK-HNEK-TNEK

Height range 4m - 15m

Ornate versions of the AW1545 UP cabinet base pole range, incorporating cast embellishment kits to enhance the pole appearance. Ideally suited to areas of historical or architectural importance where CCTV systems are required to blend aesthetically with their surroundings. A full range of ornate brackets and accessories ensure an authentic installation.

### Typically used for the following types of installation

- Public area urban CCTV 0
- Historic sites
- Private residences

#### Security Features

Internal cabling ο

0

0

0

- Close fitting flush doors Solid secure heavy duty door locks and high security lock
- ο ο Secure venting method
- Additional security measures available
- Anchor bolts below ground level

### **General Features**

- Stable structures for all camera types 0
- Flush fitting door, level with cabinet surface, no external frame combined with flush fitting Altron secure locks 0 and a high security lock giving enhanced security and a clean aesthetic appearance
- 4 point security door locking option
- Standard convection venting eliminates condensation (when the pole base is properly sealed on installation)
- A wide range of ornate Altron Accessories and Brackets available
- 0 Pole adaptations available to suit customers/project specific requirements
- o Constructed in high tensile steel and hot dip galvanised after fabrication for durability
- Option of painting over the galvanised finish in colours available from BS and RAL colour charts o 0
  - For design, manufacturing and finishing standards, see details on page 107



### **AW1502 - ENEK**

Height range 4m - 10m

Ornate version of the AWI 502 lamp standard range. The cast embellishment kits enhance the pole appearance and are often used to match ornate features of existing lighting columns to bring conformity to street furniture but ensuring cameras are on a stable pole built for CCTV use. A full range of ornate brackets and accessories ensure an authentic installation.

### Typically used for the following types of installation

- Public area urban CCTV
- Historic sites 0
- Private residences o

#### **Security Features**

Internal cabling ο

0

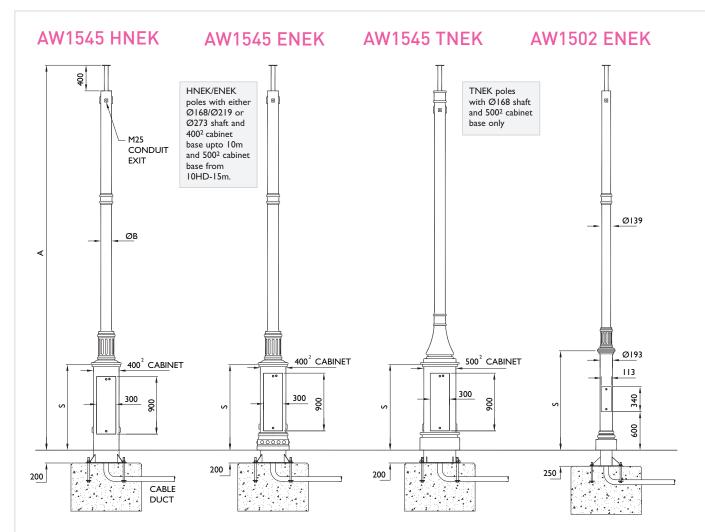
- o Close fitting flush doors
- Solid secure heavy duty door locks and high security lock o
- o Anchor bolts below ground level

#### **General Features**

- Stable structures for all camera types 0
- Versatile range with many accessories for both CCTV and dual lighting use 0
- Double door versions available for dual CCTV and lighting, keeping services separate o
- Compartments have doors that are close fitting and flush with heavy duty secure locks and are complete with o treated backboard
  - Available in bolt down and embedded/direct burial versions
- A wide range of ornate Altron accessories and Brackets available 0
- Pole adaptations available to suit customers/project specific requirements o
- 0 Constructed in high tensile steel and hot dip galvanised after fabrication for durability
- Option of painting over the galvanised finish in colours available from BS and RAL colour charts 0
- For design, manufacturing and finishing standards, see details on page 107 0

**Ornate Poles** 

## Ornate Poles Technical Specification $\leftarrow$



#### FOR FOUNDATION AND BOLTING DETAILS REFER TO PAGE 49

Model No.	Height in	Max equip weight at	Max equip surface area	Pole ØB	Cabinet height above ground	Product weight kgs	Accessories
Add suffix eg AW1545/4/TNEK	mtrs A	top kgs	m²		s ENEK\ HNEK TNEK		Ornate top mounting brackets for Fixed and PTZ cameras
AW1545/4	4	40	0.25	168	1300 1200	397	
AW1545/5	5	40	0.25	168	1300 1200	418	Ornate brackets for Dome cameras
AW1545/6	6	40	0.25	168	1300 1200	436	
AW1545/7	7	40	0.25	168	1300 1200	490	Clamp-on ornate camera
AW1545/8	8	40	0.25	168	1300 1200	517	mounting brackets
AW1545/8HD	8	40	0.25	219	1300 1200	548	Anti-climb guards
AW1545/9	9	40	0.25	219	1600 1200	619	And-chillb guards
AW1545/10	10	40	0.25	219	1600 1600	702	Telemetry box mounting
AW1545/10HD	10	40	0.25	273	1600 1600	820	brackets
AW1545/12	12	40	0.25	273	1600 1600	920	PIR mounting ring
AW1545/15	15	40	0.25	273	1600 1600	1090	

Note TNEK version Available in  $500^2$  cabinet, and Ø168 shaft only and only up to 12m

Model No.	Height in mtrs A	Max equip weight at top kgs	Max equip surface area m <sup>2</sup>	Base height C	Product weight kgs
AW1502/3/ENEK	3	40	0.50	1100	126
AW1502/4/ENEK	4	40	0.50	1100	144
AW1502/5/ENEK	5	30	0.50	1500	162
AW1502/6/ENEK	6	30	0.40	1500	180
AW1502/7/ENEK	8	25	0.30	1500	198
AW1502/8/ENEK	10	25	0.25	1500	216

Where payloads are greater than those stated above, please contact Altron All dimensions in mm unless stated otherwise

nti-climb guards P77 P77 lemetry box mounting ackets P84 R mounting ring

### Quick reference Pole top dome brkt PT-1689

Pole top Fixed	PT-1689/SF
Pole top PTZ brkt	PT-1689/SPT
Telemetry bracket	АТВР

P48

P48

P48

**Ornate Poles** 

## → Embellishment Details

Altron embellishments are produced to a high standard in cast aluminium or cast iron. Our standard embellishment ranges are shown in detail below. We also provide castings designed to meet specific customer requirements, examples are shown on p43, embellishments produced for Westminster Council.

#### AW1545 HNEK





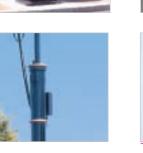
AW1545 TNEK



Тор



Mid









AW1545 ENEK









Mid



AW1502 ENEK





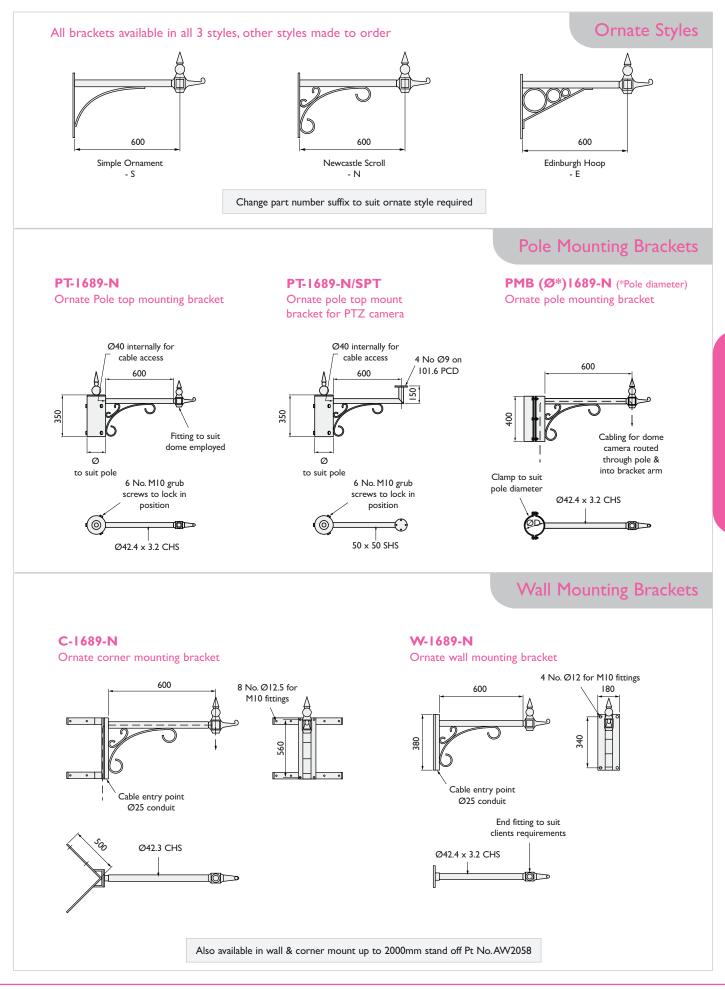
Тор





Base

## Ornate Brackets $\leftarrow$



MODEL NO.	HEIGHT MTRS	BOLT CENTRES '1 <sup>2,</sup>	BASE PLATE SIZE 'H <sup>2</sup> '	BURIED DEPTH 'D'	SERVICE ENTRY SIZE	HOLDING DOWN BOLT SIZE D X L	FOUNDATION SIZES FOR THE UK						
	ĘΨ	8 Ē	Βμ	р Ш	T R	l ≤ 2	СО	UNTRY LOCAT	ION	тс	WN LOCATIO	N	
	<u> </u>	Ü	PLA	<u> </u>	E ~	E O IS	AREA A	AREA B	AREA C	AREA A	AREA B	AREA C	
AW1545UP - E	ENEK-	HNEK-	TNEK	Fixed cabi	inet based p	oles. 400 <sup>2</sup>							
cabinet base for I	ENEK &	HNEK a	ind 500 <sup>2</sup>	cabinet b	ase on TNE	(							
AW1545/4	4	550	630	200	370×370	M24x325	0.9 x 0.9 x 0.5	0.9 x 0.9 x 0.5	1.0 x 1.0 x 0.5	0.9 x 0.9 x 0.5	0.9 x 0.9 x 0.5	0.9 x 0.9 x 0.5	
AW1545/5	5	550	630	200	370×370	M24x325	1.0 x 1.0 x 0.5	1.1 x 1.1 x 0.55	1.1 x 1.1 x 0.55	0.9 x 0.9 x 0.5	1.0 x 1.0 x 0.5	1.0 x 1.0 x 0.5	
AW1545/6	6	550	630	200	370×370	M24x325	1.1 x 1.1 x 0.55	1.1 x 1.1 x 0.55	1.2 x 1.2 x 0.6	1.0 x 1.0 x 0.5	I.I x I.I x 0.55	l.l x l.l x 0.55	
AW1545/7	7	550	630	200	370×370	M24x325	1.1 x 1.1 x 0.55	1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65	1.1 x 1.1 x 0.55	1.1 x 1.1 x 0.55	1.2 x 1.2 x 0.6	
AW1545/8	8	550	630	200	370×370	M24x425	1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65	1.3 x 1.3 x 0.65	1.2 x 1.2 x 0.6	1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65	
AW1545/8/HD	8	550	630	200	370×370	M24x425	1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65	1.4 x 1.4 x 0.7	1.2 x 1.2 x 0.6	1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65	
AW1545/9	9	550	630	200	370×370	M24x425	1.3 x 1.3 x 0.65	1.4 x 1.4 x 0.7	1.4 x 1.4 x 0.7	1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65	1.4 x 1.4 x 0.7	
AW1545/10	10	550	630	200	370×370	M24x425	1.4 x 1.4 x 0.7	1.5 x 1.5 x 0.75	1.6 x 1.6 x 0.8	1.3 x 1.3 x 0.65	1.4 x 1.4 x 0.7	1.5 x 1.5 x 0.75	
AW1545UP - E Fixed cabinet ba	sed po	les. 500	<sup>2</sup> cabine	t base as	standard.								
AW1545/10/HD		700	800	200	470×470	M27×600	1.4 x 1.4 x 0.7	1.5 x 1.5 x 0.75	1.6 x 1.6 x 0.8	1.4 x 1.4 x 0.7	1.4 x 1.4 x 0.7	1.5 x 1.5 x 0.75	
AW1545/12	12	700	800	200	470×470	M27x600	1.6 x 1.6 x 0.8	1.7 x 1.7 x 0.9	1.8 x 1.8 x 0.9	1.5 x 1.5 x 0.75	1.6 x 1.6 x 0.8	1.7 x 1.7 x 0.9	
AW1545/15 AW1502 - ENE	15 K	700	800	200	470x470	M27x600	1.9 x 1.9 x 1.0	2.0 x 2.0 x 1.0	2.1 x 2.1 x 1.0	1.8 x 1.8 x 0.9	1.9 x 1.9 x 1.0	2.0 x 2.0 x 1.0	
tubular lamp star		oles.											
AW1502/3	3	350	405	250	200	M16x245	0.8 × 0.8 × 0.4	0.8 × 0.8 × 0.4	0.9 × 0.9 × 0.5	0.8 × 0.8 × 0.4	0.8 × 0.8 × 0.4	0.8 x 0.8 x 0.4	
AW1502/4	4	350	405	250	200	MI6x245	0.9 x 0.9 x 0.5	0.9 x 0.9 x 0.5	0.9 x 0.9 x 0.5	0.9 x 0.9 x 0.5	0.9 x 0.9 x 0.5	0.9 x 0.9 x 0.5	
AW1502/5	5	350	405	250	250	M20x325	1.1 x 1.1 x 0.55	1.1 x 1.1 x 0.55	1.2 x 1.2 x 0.6	1.0 x 1.0 x 0.5	1.0 x 1.0 x 0.5	1.1 x 1.1 x 0.55	
AW1502/6	6	350	405	250	250	M20x325	1.1 x 1.1 x 0.55	1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65	1.1 x 1.1 x 0.55	1.1 x 1.1 x 0.55	1.2 x 1.2 x 0.6	
AW1502/7	7	450	510	250	250	M20x325	1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65	1.3 x 1.3 x 0.65	1.2 x 1.2 x 0.6	1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65	
AW1502/8	8	450	510	250	250	M24x425	1.3 x 1.3 x 0.65	1.4 x 1.4 x 0.7	1.5 x 1.5 x 0.75	1.3 x 1.3 x 0.65	1.3 x 1.3 x 0.65	1.4 x 1.4 x 0.7	
Table dimensions	in mm												

Foundation sizes in table are  $W \times W \times D$ Dimensions in metros

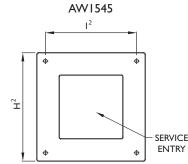
\*D= 1000 on PM and buried flange/embedded base models • For area D locations and exposed locations over 100m above sea level for areas A, B and 150m above sea level for area C, we recommend increased foundation sizes. Please refer to the table on page 101 for conformation of these.

• A minimum soil bearing capacity of 75 kN/m<sup>2</sup> is assumed.

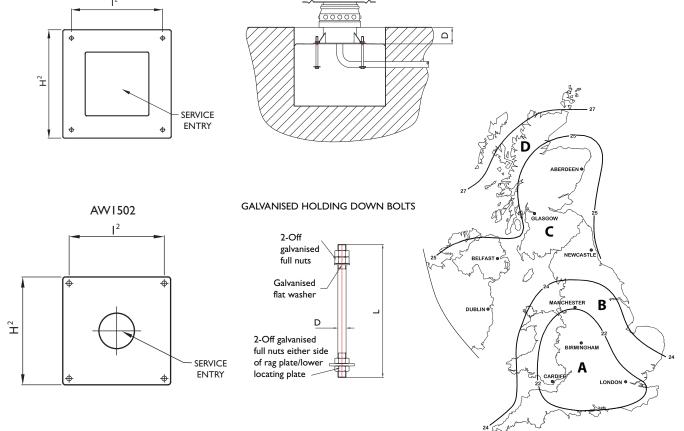
• Foundation base dimensions are typical and may vary depending on site conditions.

• Please refer to the foundations & windloading section on pages 101-103 for further guidance.

REFER TO INSTALLATION METHODS ON PAGES 104-106



DEPTH BELOW GROUND LEVEL



## Transport & Infrastructure Products $\leftarrow$



ACC4BPLA on deployable base



AW1545/6/500/LTH with twin arm



AW1545/4/LTH special



Low emission zone cantilever pole

Altron Produce a range of products to satisfy most highways applications. Lowering trolley head poles that comply with HA requirements, deployable products for temporary road works and cantilever poles for ANPR and variable speed monitoring.

Altron's numerous security design features ensure a good level of protection against vandal attacks.



## Lowering Trolley Head Poles $\leftarrow$



AW1545/LTH Cabinet Based



AW1502/LTH Lamp Standard



AW1502/LTH/168/SN Slim Line Lamp Standard

We have developed a range of features for our Lowering Trolley Head poles, to make them easy, reliable and above all, safe to use. These features mean that a pole with the relevant options included, can be operated by one man standing on the ground, without the need for steps, or the need to support heavy camera loads, when lowering the camera into the upright maintenance position. This therefore is the safest and easiest to operate Lowering Trolley Head pole available on the market today.

Altron's numerous security design features ensure a good level of protection against vandal attacks.

## → Lowering Trolley Head Poles



### Height ranges AW1545/LTH & AW1502/LTH 4m - 15m Height range AW1502/LTH/168 Slim-line 4-10m

Altron Lowering Trolley Head Poles enable CCTV equipment to be serviced at ground level, safely, without the need for a man lift or a clear area to tilt the pole over. This is particularly useful in locations where road closures would otherwise be required, pavement locations and pedestrianised areas or where it is not possible to get a man lift and there is no space to tilt the pole over. The AWI 545 cabinet based version offers a fully integrated solution, where equipment is mounted in the base of the pole, so no separate street cabinet is required.

### Typically used for the following types of installation

- Where access to the camera location is restricted o Railway platforms & car parks
- Public area urban CCTV o
- о Highways
- Prisons and detention facilities 0
- Car parks
- Retail Parks ο
- Sports stadia 0

### **Security Features**

- o Internal cabling
- Close fitting flush doors 0
- о Solid secure heavy duty door locks and high security lock
- Secure venting method ο
- Internal padlock facility available to stop unauthorised access to winch mechanism o
- Anchor bolts below ground level 0

### **General Features**

- Stable structures for all camera types 0
- Design complies with Highways Agency specification. ο
- Trolley Head locks solidly in the raised position by means of a cam lever uplatch, meaning that there is o no movement in the Trolley Head when the camera is in operation.
- AW1545/LTH cabinet based version also available with 500 square cabinet for additional equipment ο mounting capacity.
- Flush doors and secure locks as standard, enhance security and appearance. 0
- Standard convection venting on AW1545/LTH version eliminates condensation (when the pole base is о properly sealed on installation)
- Unique slim-line version up to 10 metres in height, using a 168 diameter shaft, giving an extremely o slim outline silhouette.
- A wide range of standard Altron Accessories available 0
- Constructed in high tensile steel and hot dip galvanised after fabrication for durability o
- Option of painting over the galvanised finish in colours available from BS and RAL colour charts 0
- For design, manufacturing and finishing standards, see details on page 107 o

AWI502/I0LTH/DDA

Infrastructure Products

ransport &

### Pole Options Explained

Our lowering trolley head pole range is made up of the basic units, part numbers AW1502/LTH and AW1545/LTH. We offer a full range of upgrades as additions to the basic poles, as outlined below. All additional options are explained further in the following pages.

#### Basic pole (AWI502/LTH)

Lamp standard version with no back board within the winch compartment. Winch is auto-braking and manually operated and the trolley head neck is fixed. Quick release uplatch included as standard. Trackway is extra.

#### Basic pole with cabinet base (AW1545/LTH)

As the AW1502/LTH, but with a cabinet base. There are twin doors as standard, front and back with equipment mounting boards within both compartments. Trackway is extra.

#### Addition /DO, Drill Operated dual drum winch

This winch requires the Drill winding unit DW/DO to operate it. This enables the trolley head to be lowered using the DW/DO, rather than the manually operated the winch. Winch has dual drum, so two cables are employed, with the second cable as a failsafe. Trackway is fitted as standard with this option.

#### Addition of /TR - Trackway.

The benefit of Trackway, is to keep the trolley head aligned when lowering and raising, in high wind conditions (an extra item on the basic pole models).

#### Addition of the /DDA Drop Down Arm.

Our patented Drop Down Arm, enables camera equipment to be brought down to waist height, for maintenance, without having to support the weight of the camera equipment by hand.

#### Addition of the /RA, Rotating Arm and /SN-RA Swan Neck Rotating Arm option

This is ideally suited for dome mounting using our swan neck, or for light PTZ applications. This is a cost effective way of getting camera equipment down to ground level for maintenance. We do not recommend this option for heavier PTZ applications, of loads over 10 kgs.

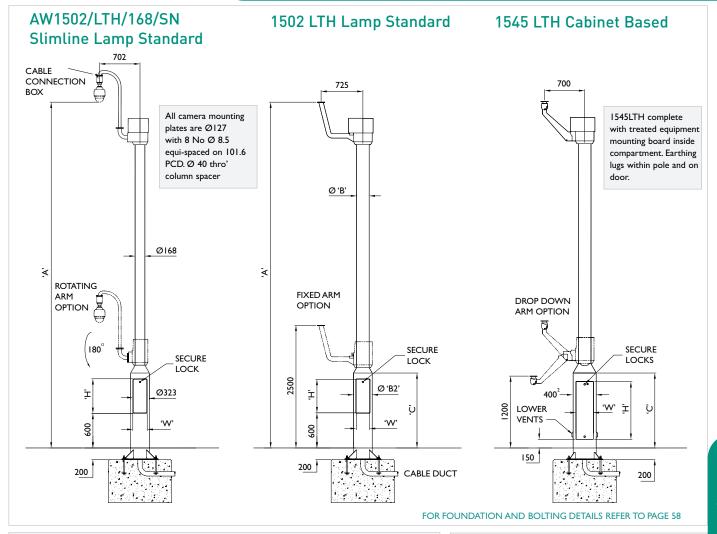
#### Addition of /CM, Cable Management

Cable management enables camera cables to be disconnected and marshalled through the pole automatically.

#### **Cable pulley configurations**

A number of pulley configurations are available for the head of the pole, depending on the type of cable being used to feed the camera. Please contact our Sales team who will provide further information and advice.

## Lowering Trolley Head Poles $\leftarrow$ **Technical Specifications**



Model No.	Height in mtrs	Max equip weight at top kgs	Max equip surface area m <sup>2</sup>	Pole ØB	Cabinet height above ground C	Front door size H x W	Rear door size H x W	Product weight kgs
AW1545/4LTH	4	30	0.25	219	1300	970x270	520x270	281
AW1545/5LTH	5	30	0.25	219	1300	970x270	520x270	310
AW1545/6LTH	6	30	0.25	219	1300	970x270	520x270	339
AW1545/7LTH	7	30	0.25	219	1300	970x270	520x270	368
AW1545/8LTH	8	30	0.25	219	1300	970x270	520x270	397
AW1545/9LTH	9	30	0.25	219	1300	970x270	520x270	513
AW1545/10LTH	10	30	0.25	219	1300	970x270	520x270	548
AW1545/10HDL	<b>TH</b> 10	30	0.25	273	1300	970x270	520x270	738
AW1545/12LTH	12	30	0.25	273	1300	970x270	520x270	731
AW1545/15LTH	15	30	0.25	273	1300	970x270	520x270	910
Model No.	Height in mtrs	Max equip weight at top kgs	Max equip surface area m <sup>2</sup>	Shaft ØB	Base ØB2	Base height C	Door aperture size H x W	Product weight kgs
AW1502/4LTH	4	30	0.25	219	323	1300	425x177	277
AW1502/5LTH	5	30	0.25	219	323	1300	425x177	306
AW 1502/6LTH	6	30	0.25	219	323	1300	425x177	335
AW1502/7LTH	7	30	0.25	219	323	1300	425x177	364
AW1502/8LTH	8	30	0.25	219	323	1300	425x177	393
AW1502/9LTH	9	30	0.25	219	323	1300	425×177	495
AW1502/10LTH	10	30	0.25	219	323	1300	425x177	530

355

355

355

273

273

273

1300

1300

1300

425x177

425×177

425x177

Due to our policy of continuous product improvement specifications may change without notice

693

686

815

Decorative Banding (on Cabinet only)	/B
Altron 4 Point Locking	/A4P
Trackway Upgrade (for manually operated poles)	/TR
Dual drum Winch & Drill Winding Device	/DO

AW1545/LTH & AW1502/LTH Options

Dual drum Winch & Drill Win Upgrade (Includes trackway)	ding Device /DO
Drill Winding Device	DW/DO
Drop Down Arm for 15kg car	mera /DDA/15
Drop Down Arm for 30kg car	nera /DDA/30
Cable Management System	/CM
Rotating Arm	/RA
Swan Neck Rotating Arm	/SN-RA

#### AWI 502/LTH only **Options** High Security Lock

### AW1545/LTH Cabinet & Door Configurations

Standard cabinet base size is 400 <sup>2</sup> Standard door configuration size door on winch access side & one half size door on opp	
450sq cabinet	/450
500sq cabinet	/500

#### Accessories AVV1545/LTH & AVV1502/LTH Manual Winch Winder for Dual Drum Winch /MWW Support Bracket for Drill Winding Device /DSB /IPP Internal Padlock Plate

Where payloads are greater than those stated above, please contact Altron All dimensions in mm unless stated otherwise

0.25

0.25

0.25

12

15

AW1502/10HDLTH 10

AW1502/12LTH

AW1502/15LTH

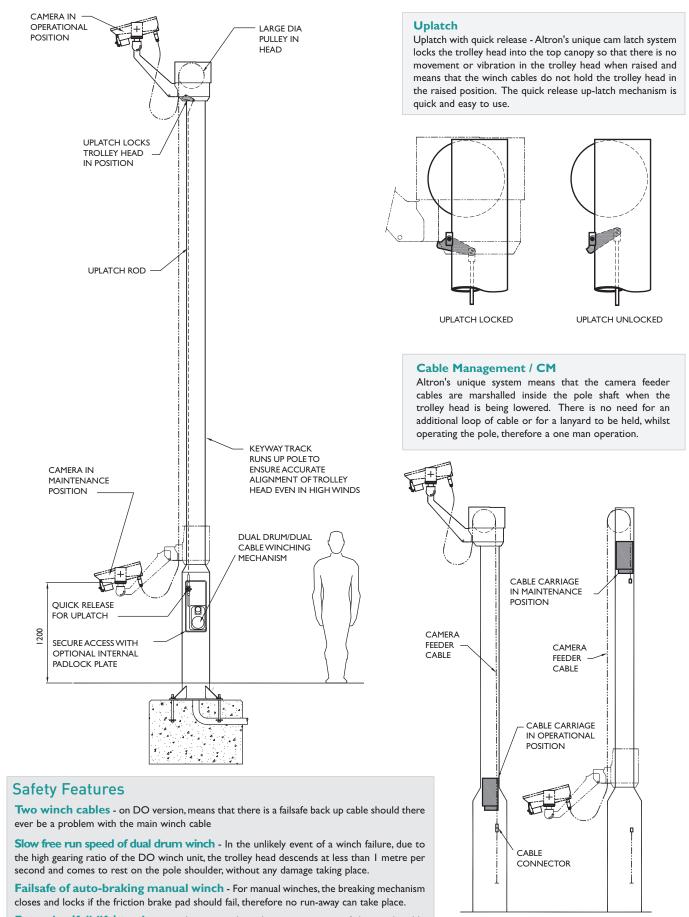
30

30

30

/HS

### → Lowering Trolley Head Poles Options & Features



**Extensive 'full life' testing** - we have gone through rigorous testing of the winch, cable and trolley head components to replicate more than 10 years of operation. All parts are manufactured to be either maintenance free, or give maximum life to first maintenance.

Infrastructure Products

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CAMERA RAISED

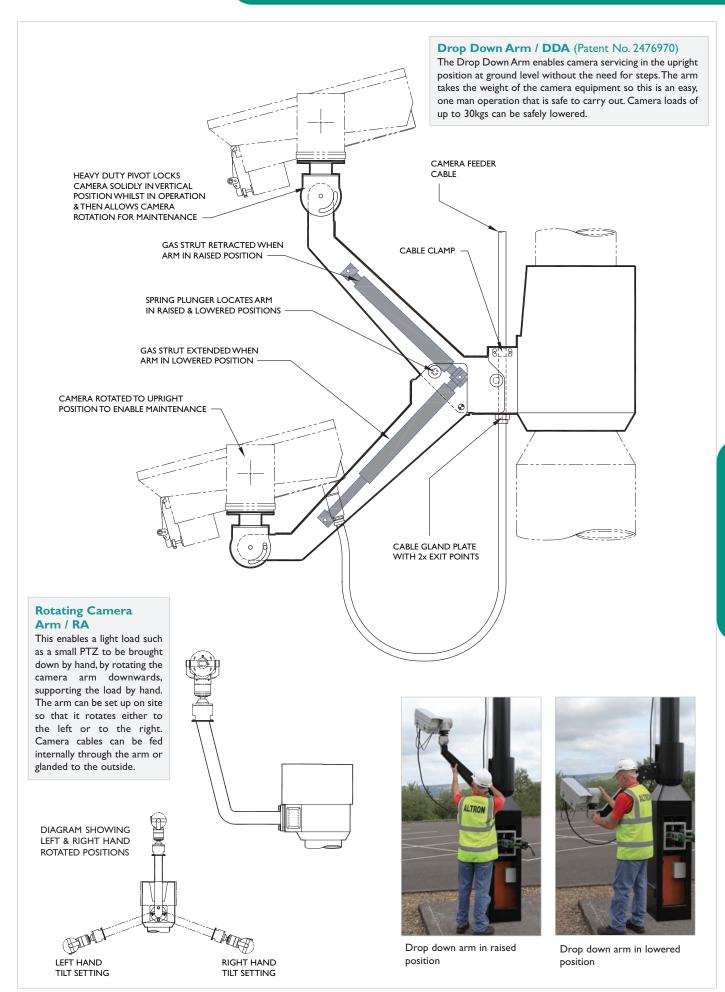
FOR OPERATION

CAMERA IN

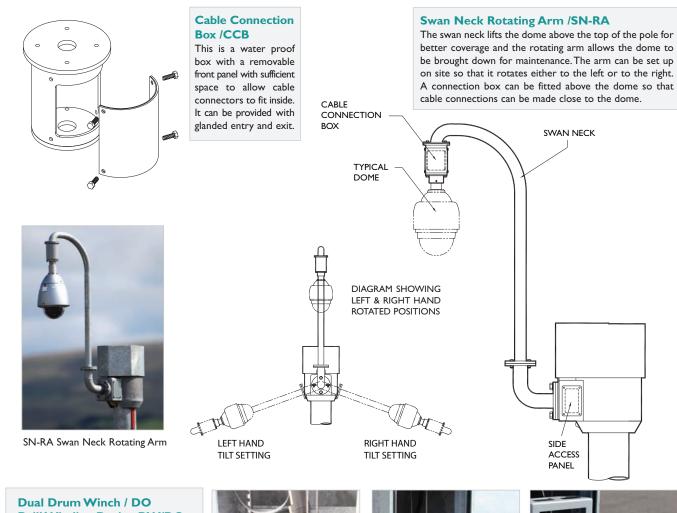
POSITION

MAINTENANCE

### Lowering Trolley Head Poles ← Options & Features



### → Lowering Trolley Head Poles **Options & Features**



### **Drill Winding Device DW/DO** Dual Drum Winch and Drill Winding

Device - The dual drum winch gives complete safety with a second 'safety' winch rope. The drill winding device uses the latest battery technology with a speed limiter and torque lock upgrade, specifically for this application to ensure safe, reliable operation. The Drill winding device is light and transferable, so one device can service many poles. This upgrade meets the requirements of ILE TR7.

**Drill Support Bracket / DSB** Drill Winding Device Support Bracket this can be incorporated for easy one hand operation and takes the weight of the drill winding device, so operating the pole could not be easier.

#### Trackway / TR

Trackway Upgrade - Trackway keeps the trolley head running true, when lowering and raising even in very windy conditions. This is standard on /DO pole versions.



DO - Dual drum winch



TR Trackway



DW/DO Drill winder hand held

#### Internal Padlock Plate / IPP

This is a close fitting internal plate that sits behind the main door, and only comes into view once the door is removed. It will withstand lever attacks and is a second line of defence to make our lowering trolley head poles extremely secure against vandal attacks.



DSB - Drill Support Bracket, with Drill winder located in bracket



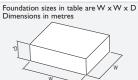
**IPP Internal Padlock Plate** 

Infrastructure Products

Transport &

## Lowering Trolley Head Poles ← Foundations & Bolting Details

MODEL NO.	HEIGHT MTRS	BOLT CENTRES '1 <sup>2,</sup>	BASE PLATE SIZE 'H <sup>2,</sup>	BURIED DEPTH 'D'	SERVICE ENTRY SIZE	HOLDING SIZE D X L	FOUNDA		S FOR THE	UK		
	Ĕ	BOLT	26 E	E T T	E SE	ZE VOI	CO	UNTRY LOCATI	ON	тс	WN LOCATIO	N
	<u> </u>	Ü	PLA:	۵ <sup>۳</sup>	S A	±0≥	AREA A	AREA B	AREA C	AREA A	AREA B	AREA C
AW1545/LTH												
cabinet based, lov	/ering	trolley he	ead pole	- all varia	nts							
AW1545/LTH/4	4	550	630	200	370x370	M24x325	0.9 × 0.9 × 0.5	1.0 x 1.0 x 0.5	1.1 x 1.1 x 0.55	0.9 x 0.9 x 0.5	0.9 x 0.9 x 0.5	1.0 x 1.0 x 0.5
AW1545/ LTH/5	5	550	630	200	370x370	M24x325	1.1 x 1.1 x 0.55	l.l x l.l x 0.55	1.2 x 1.2 x 0.6	1.0 x 1.0 x 0.5	l.l x l.l x 0.55	l.l x l.l x 0.55
AW1545/ LTH/6	6	550	630	200	370x370	M24x325	1.2 x 1.2 x 0.6	1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65	l.l x l.l x 0.55	I.I x I.I x 0.55	1.2 x 1.2 x 0.6
W1545/ LTH/7	7	550	630	200	370x370	M24x325	1.3 x 1.3 x 0.65	1.3 x 1.3 x 0.65	1.4 x 1.4 x 0.7	1.2 x 1.2 x 0.6	1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65
W1545/ LTH/8	8	550	630	200	370x370	M24x425	1.3 x 1.3 x 0.65	1.4 x 1.4 x 0.7	1.5 x 1.5 x 0.75	1.3 x 1.3 x 0.65	1.3 x 1.3 x 0.65	1.4 x 1.4 x 0.7
W1545/ LTH/9	9	550	630	200	370x370	M24x425	1.4 x 1.4 x 0.7	1.5 x 1.5 x 0.75	1.6 x 1.6 x 0.8	1.4 x 1.4 x 0.7	1.4 x 1.4 x 0.7	1.5 x 1.5 x 0.75
W1545/ LTH/10	10	550	630	200	370x370	M24x425	1.5 x 1.5 x 0.75	1.6 x 1.6 x 0.8	1.7 x 1.7 x 0.9	1.4 x 1.4 x 0.7	1.5 x 1.5 x 0.75	1.6 x 1.6 x 0.8
W1545/ LTH/10F	<b>ID</b> 10	700	800	200	370x370	M27x600	1.6 x 1.6 x 0.8	1.7 x 1.7 x 0.9	1.8 x 1.8 x 0.9	1.5 x 1.5 x 0.75	1.6 x 1.6 x 0.8	1.7 x 1.7 x 0.9
W1545/LTH/12	12	700	800	200	370x370	M27x600	1.8 x 1.8 x 0.9	1.9 x 1.9 x 1.0	2.0 x 2.0 x 1.0	1.7 x 1.7 x 0.9	1.8 x 1.8 x 0.9	1.9 x 1.9 x 1.0
W1545/ LTH/15	15	700	800	200	370x370	M27x600	2.1 x 2.1 x 1.1	2.2 x 2.2 x 1.1	2.3 x 2.3 x 1.2	2.0 x 2.0 x 1.0	2.1 x 2.1 x 1.1	2.2 x 2.2 x 1.1
AW1502/LTH												
lamp standard, lov	vering	trolley h	ead pole	- all varia	ants							
W1502/LTH/4	4	350	405	250	200	M20x325	0.9 x 0.9 x 0.5	$1.0 \times 1.0 \times 0.5$	.  x  .  x 0.55	0.9 x 0.9 x 0.5	0.9 x 0.9 x 0.5	1.0 x 1.0 x 0.5
W1502/LTH/5	5	450	510	250	250	M20x325	1.1 x 1.1 x 0.55	1.1 x 1.1 x 0.55	1.2 x 1.2 x 0.6	1.0 x 1.0 x 0.5	1.1 x 1.1 x 0.55	1.1 x 1.1 x 0.55
W1502/LTH/6	6	450	510	250	250	M20x325	1.2 x 1.2 x 0.6	1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65	1.1 x 1.1 x 0.55	1.1 x 1.1 x 0.55	1.2 x 1.2 x 0.6
W1502/LTH/7	7	450	510	250	250	M20x325	1.3 x 1.3 x 0.65	1.3 x 1.3 x 0.65	1.4 x 1.4 x 0.7	1.2 x 1.2 x 0.6	1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65
W1502/LTH/8	8	550	630	250	250	M24x425	1.3 x 1.3 x 0.65	1.4 x 1.4 x 0.7	1.5 x 1.5 x 0.75	1.3 x 1.3 x 0.65	1.3 x 1.3 x 0.65	1.4 x 1.4 x 0.7
W1502/LTH/9	9	550	630	250	250	M24x425	1.4 x 1.4 x 0.7	1.5 x 1.5 x 0.75	1.6 x 1.6 x 0.8	1.4 x 1.4 x 0.7	1.4 x 1.4 x 0.7	1.5 x 1.5 x 0.75
W1502/LTH/10	10	550	630	250	250	M24x425	1.5 x 1.5 x 0.75	1.6 x 1.6 x 0.8	1.7 x 1.7 x 0.9	1.4 x 1.4 x 0.7	1.5 x 1.5 x 0.75	1.6 x 1.6 x 0.8
W1502/LTH/10H	ID	500PCD	Ø590	N/A	300	M27x600	1.6 x 1.6 x 0.8	1.7 x 1.7 x 0.9	1.8 x 1.8 x 0.9	1.5 x 1.5 x 0.75	1.6 x 1.6 x 0.8	1.7 x 1.7 x 0.9
W1502/LTH/12	12	500PCD	Ø590	N/A	300	M27x600	1.8 x 1.8 x 0.9	1.9 x 1.9 x 1.0	2.0 x 2.0 x 1.0	1.7 x 1.7 x 0.9	1.8 x 1.8 x 0.9	1.9 x 1.9 x 1.0
4441302/ LITH/12		500PCD	Ø590	N/A	300	M27x600	2.1 x 2.1 x 1.1	2.2 x 2.2 x 1.1	2.3 x 2.3 x 1.2	2.0 x 2.0 x 1.0	2.  x 2.  x 1.	2.2 x 2.2 x 1.1



• For area D locations and exposed locations over 100m above sea level for areas A, B and 150m above sea level for area C, we recommend increased foundation sizes. Please refer to the table on page 101 for conformation of these.

A minimum soil bearing capacity of 75 kN/m<sup>2</sup> is assumed. •

• Foundation base dimensions are typical and may vary depending on site conditions.

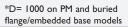
Please refer to the foundations & windloading section on pages 101-103 for further guidance.

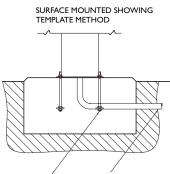
BELOW SURFACE MOUNTED

SHOWING BOLT FRAME METHOD

#### **REFER TO INSTALLATION METHODS ON PAGES 104-106**

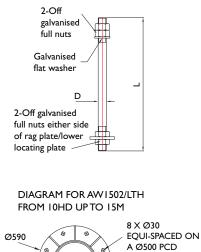
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ANCHOR BOLTS WITH RAG PLATES CABLE DUCT



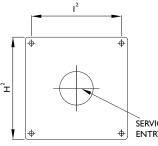


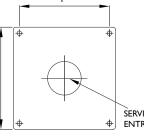
Ø300

ENTRY

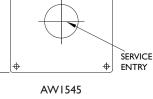
FOR SERVICE

igstyle lower locating plate AWI 502/LTH





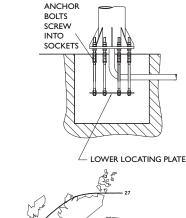






H2

æ



BERDEEN

NEWCA

В

LON

Δ

С

BOLT FRAME IN ACCORDANCE WITH BD94/07



SERVICE

ENTRY

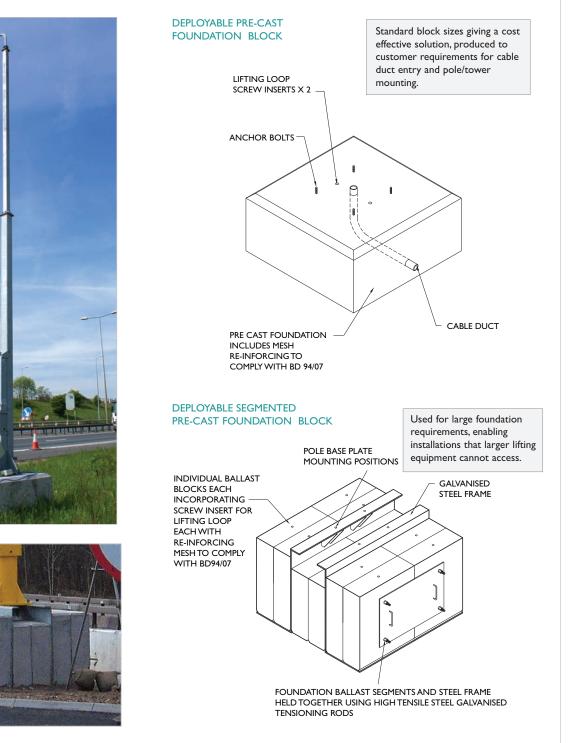
•

DUB

With increasing demand for temporary solutions for roadworks and major events, Altron has developed a range of pre-cast foundations that fully comply with HA standards and industry standard foundation requirements. Based on our knowledge gained from rapid deployable products for the telecoms industry, we cast foundations in house at our factory, keeping close control over the process and ship UK wide using specialist vehicles for offloading.

### **Features & Services**

- o Pre cast foundations can be produced to suit any Altron product
- o Ducting arrangements provided to suit customer requirements
- o Proven product and method of delivery, used in many installations over the past 8 years
- o Can be supplied in accordance with Highways Agency requirements
- o Full design service & support



## Temporary & Deployable Solutions $\leftarrow$



## $\rightarrow$ Cantilever Poles

Cantilever poles are becoming more prevalent for traffic monitoring, average speed camera systems, ANPR, perimeter security and with the increasing need to service camera equipment in a safe area and reduce lane closures and associated costs, the ability to swing the arm in and also in certain applications, lower the equipment to ground level, Altron provide a full design service and range of products that meet these requirements.

# Typically used for the following types of installation

- Roadworks and contraflows
- o Highways and trunk roads
- o Adjacent to quarantine areas e.g. adjacent to railway lines
- o Perimeter security

- **Security Features**
- o Internal cabling
- Close fitting flush doors
- o Solid secure heavy duty door locks
- o Secure venting method on cabinet based poles

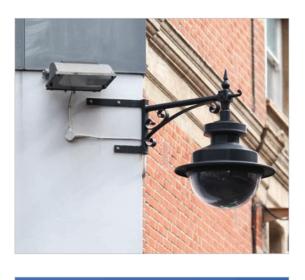
### **Features & Services**

- Full design service to comply with HA requirements, in accordance with BD94/07
- Manufacturing and test procedures comply with the Specification for Highways Works (SHW series 1300)
- In house software used to model structures for analysis of stability and product suitability different camera arrangements can be easily modelled and proposals produced for any location
- Cabinet based versions available, based on our AW1545/UP range
- Flush doors and secure locks as standard, enhance security and appearance.
- Standard convection venting on AW1545/UP version eliminates condensation (when the pole base is properly sealed on installation)
- o A wide range of Altron Accessories available

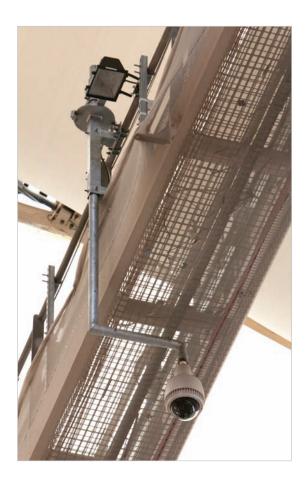




## Brackets & Accessories $\leftarrow$









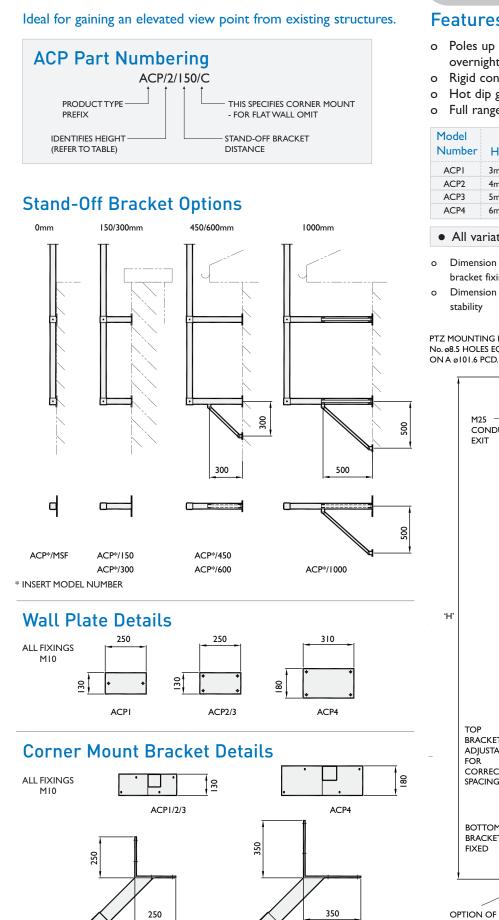


We offer a wide range of brackets and accessories, many available from stock, to suit the many varied camera mounting requirements for the CCTV industry. Where a standard bracket is not available, we produce variations and bespoke brackets on short lead times

## $\rightarrow$ Wall Mounted Poles



Ideal for gaining an elevated viewpoint from existing structures, we offer a range of wall and parapet mounted products, both fixed and tilt-down to suit most applications. Many are available from stock and where a standard product does not suit, we provide variations on short lead times.



### ACP Wall Mounted Poles

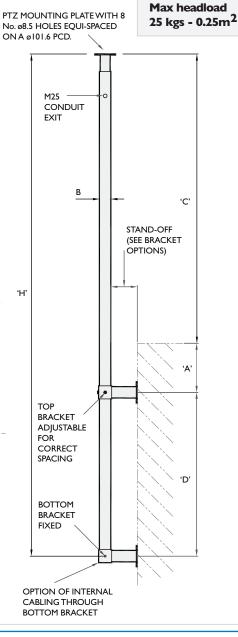
### **Features**

- o Poles up to 6m shipped on carrier for overnight delivery
- **Rigid** construction
- Hot dip galvanised for longevity
- Full range of accessories available

Model Number	н	В	A	С	D
ACPI	3m	70 <sup>2</sup>	0.3m	I.7m	lm
ACP2	4m	80 <sup>2</sup>	0.3m	2.2m	1.5m
ACP3	5m	<b>80</b> <sup>2</sup>	0.4m	2.6m	2m
ACP4	6m	90 <sup>2</sup>	0.5m	3.5m	2m

#### • All variations held in stock

- Dimension 'A' to be maintained for upper bracket fixing strength
- Dimension 'D' to be maintained for camera



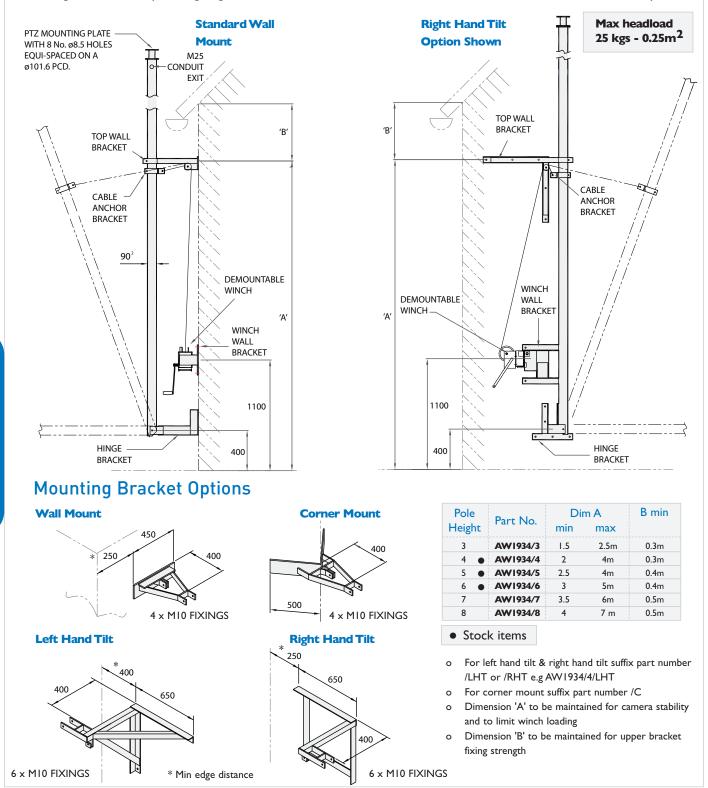
### Features of Wall Mounted Tilt-Down Poles

Altron Tilt-down wall mounted poles offer a solution to virtually any location and head load where a tilt-down wall mounted pole is suitable, for gaining an elevated viewpoint from an existing structure. Bespoke mounting brackets can be provided to suit site specific requirements.

- o Comprehensive standard range to suit most applications
- o All Altron standard accessories available
- o Hot dip galvanised for longevity
- o Bespoke fixing brackets for non-standard situations

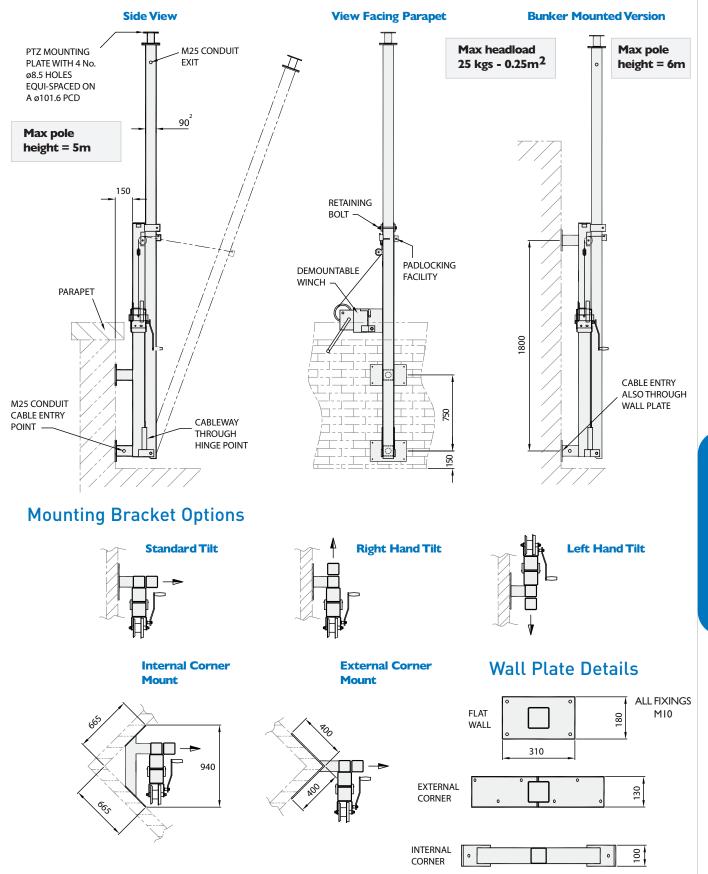
### AW1934 Wall Mounted Tilt-Down Poles

For single or two storey walls, giving a cost effective solution. Demountable winches are included for added security.



### AW1980 Parapet Mounted Tilt-Down Poles

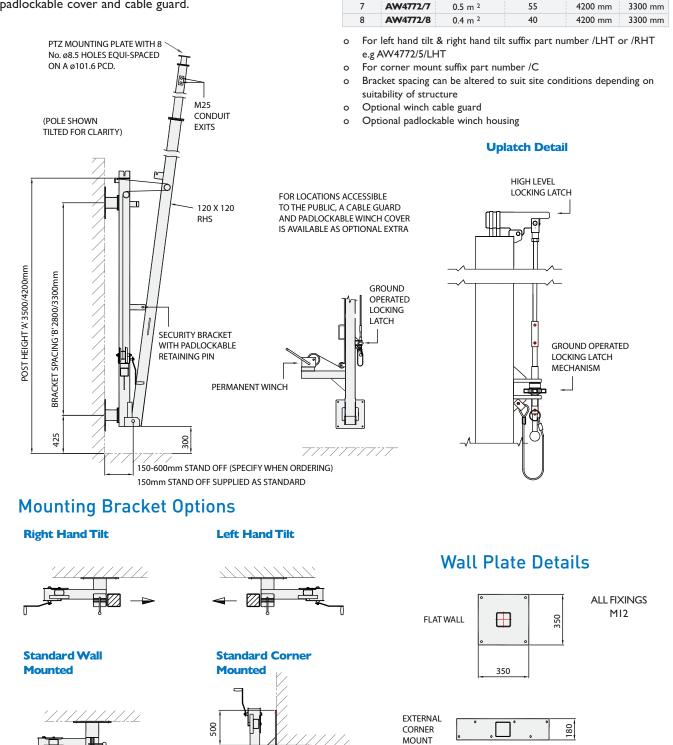
AW1980 parapet mounted tilt-down poles, give additional height from a standard parapet of suitable construction. Demountable winches and the facility to padlock make this product suitable for public areas, such as multi-storey car park roof levels. A roof 'bunker' mounted version is also available.



## -> Tilt-Down Wall Mounted Poles

### AW4772 High Loading Wall-Mounted Tilt-Down Pole

Typically for dual camera and lighting installations, this range can be operated safely without the need to access a high level locking bolt, utilising a high level latch operated from ground level. Winches are fixed and can be supplied with padlockable cover and cable guard.



Total

(m)

Height

4

5

6

7

Part

No.

AW4772/4

AW4772/5

AW4772/6

**Guidance for Equipment Loading** 

Weight of

equipment

(kgs)

75

75

70

Post

height

'A'

3500 mm

3500 mm

4200 mm

Bracket

spacing

**'B'** 

2800 mm

2800 mm

3300 mm

Wind surface

area of

equipment

0.75 m <sup>2</sup>

0.75 m<sup>2</sup>

0.65 m<sup>2</sup>

\*ALSO AVAILABLE WITH RIGHT HAND WINCH MOUNTING 500

## Wall Mounted Brackets $\leftarrow$









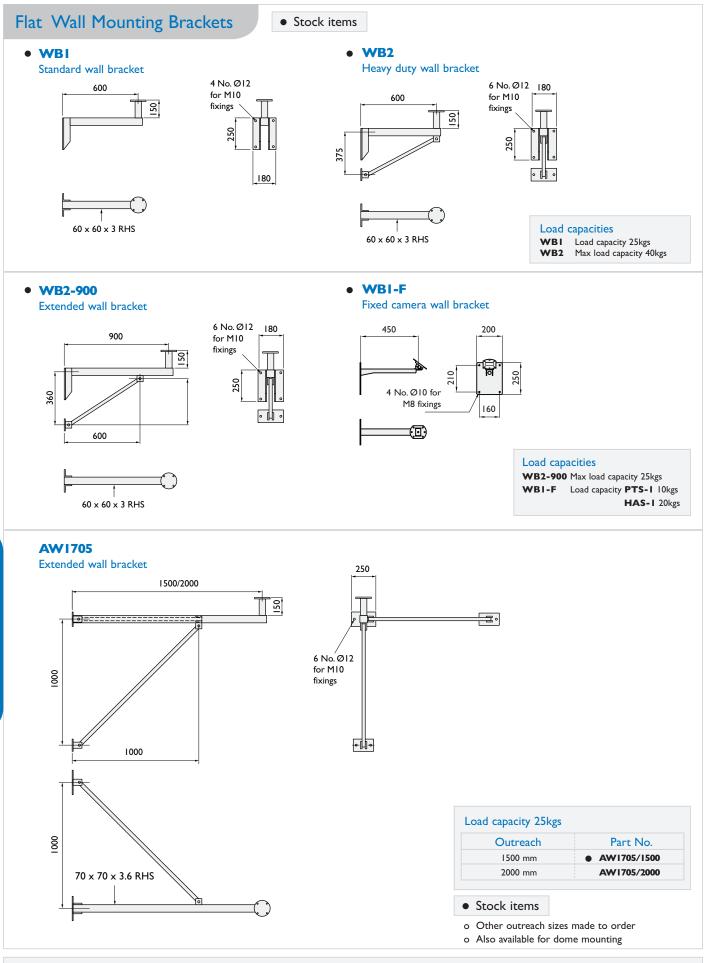






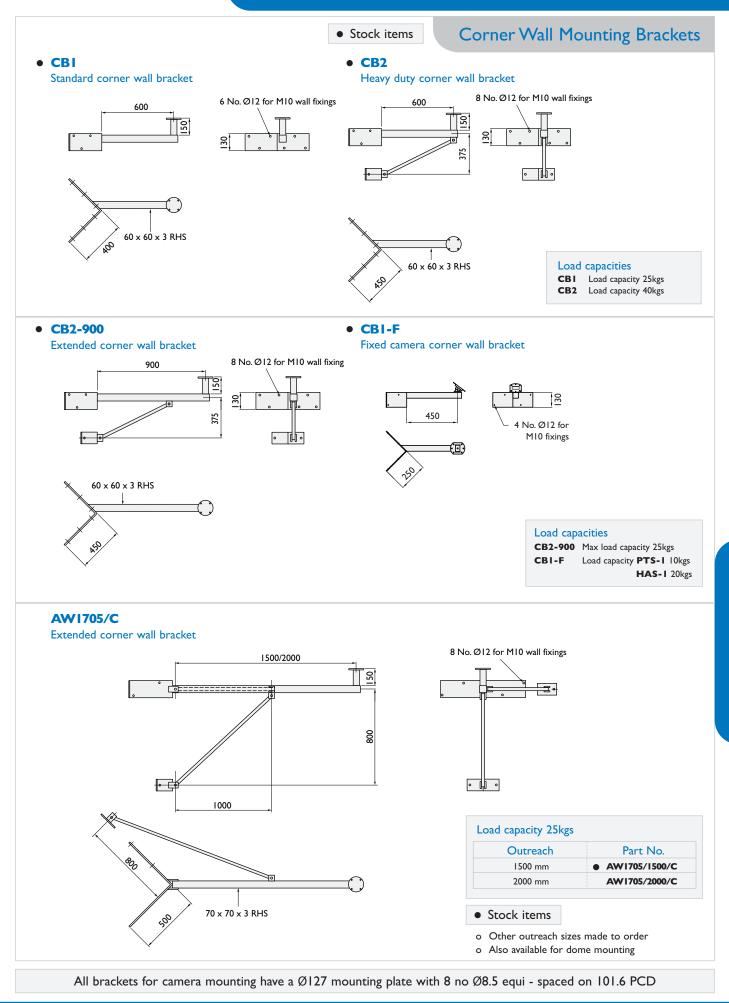
A comprehensive range of brackets to suit most common requirements, with a large amount of stock held. For installations where a standard bracket is not suitable, then we produce modified bracket designs and bespoke brackets on a fast turnaround.

## $\rightarrow$ Wall Mounted Brackets



All brackets for camera mounting have a Ø127 mounting plate with 8 no Ø8.5 equi - spaced on 101.6 PCD

## Wall Mounted Brackets $\leftarrow$



## $\rightarrow$ Wall Mounted Brackets

### Wall & Corner Mounted Dome Brackets

The Altron range of wall brackets for mounting domes is versatile and can be produced to suit any dome type. Standard mounting variations suit most installations, but if you have an installation that requires something non-standard, then we produce bespoke brackets to suit your specific requirement.

We stock components to suit the following manufacturers domes.

- Bosch

IVC

\_

\_

- Mic I
- Dedicated MicrosHoneywell

Mark Mercer

- Molynx/Bewator
- Panasonic
- Pelco
  - Peico Philips
- Tyco/ AD
  - Ultrak

Samsung Techwin

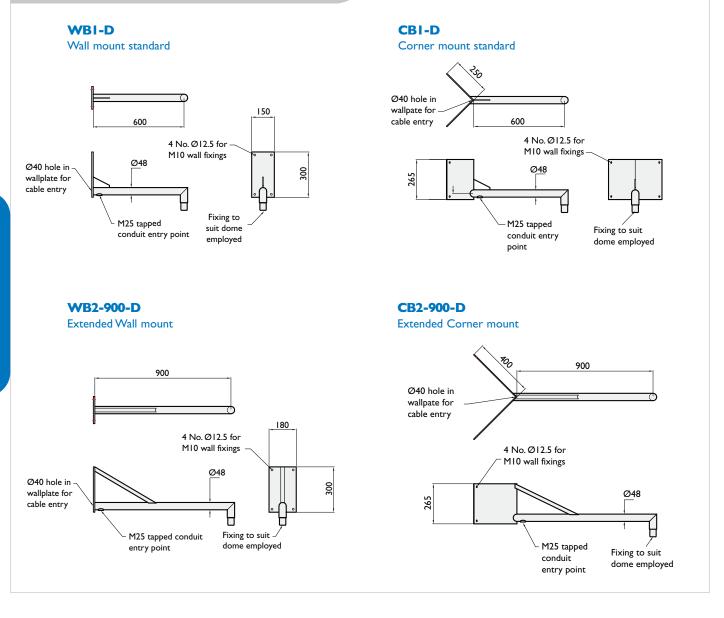
Siemens

Sony

- Vicon
  - Vista
    - Videotec

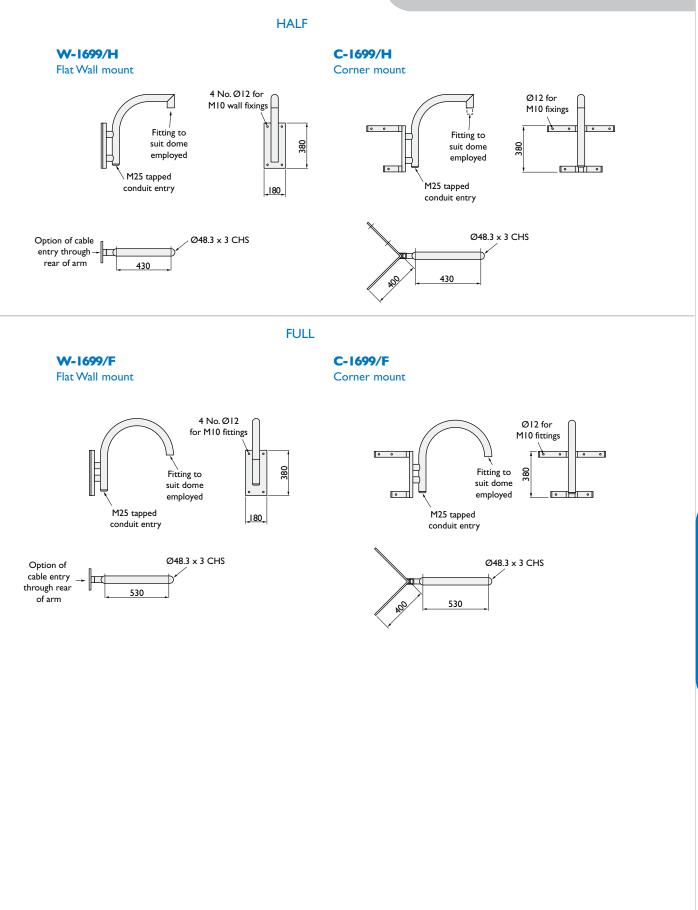
- o Please specify dome type when ordering
- o All other manufacturers dome fittings made to order

### Wall & Corner Dome Mounting Brackets



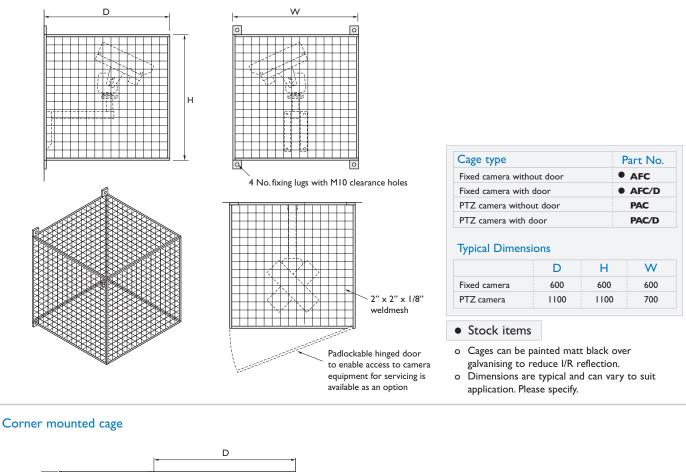
## Wall Mounted Brackets $\leftarrow$

### Wall & Corner Swan Neck Brackets

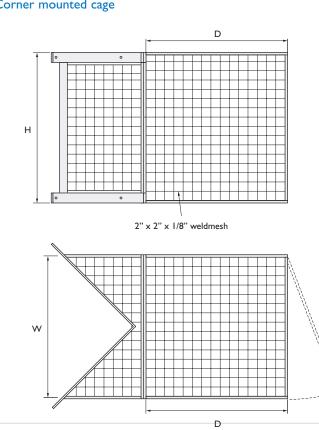


### Wall Mounted Cages









Cage type	Part No.
Fixed camera without door	C-AFC
Fixed camera with door	C-AFC/D
PTZ camera without door	C-PAC
PTZ camera with door	C-PAC/D

#### Typical Dimensions

	D	Н	W
Fixed camera	600	420	600
PTZ camera	650	500	1100

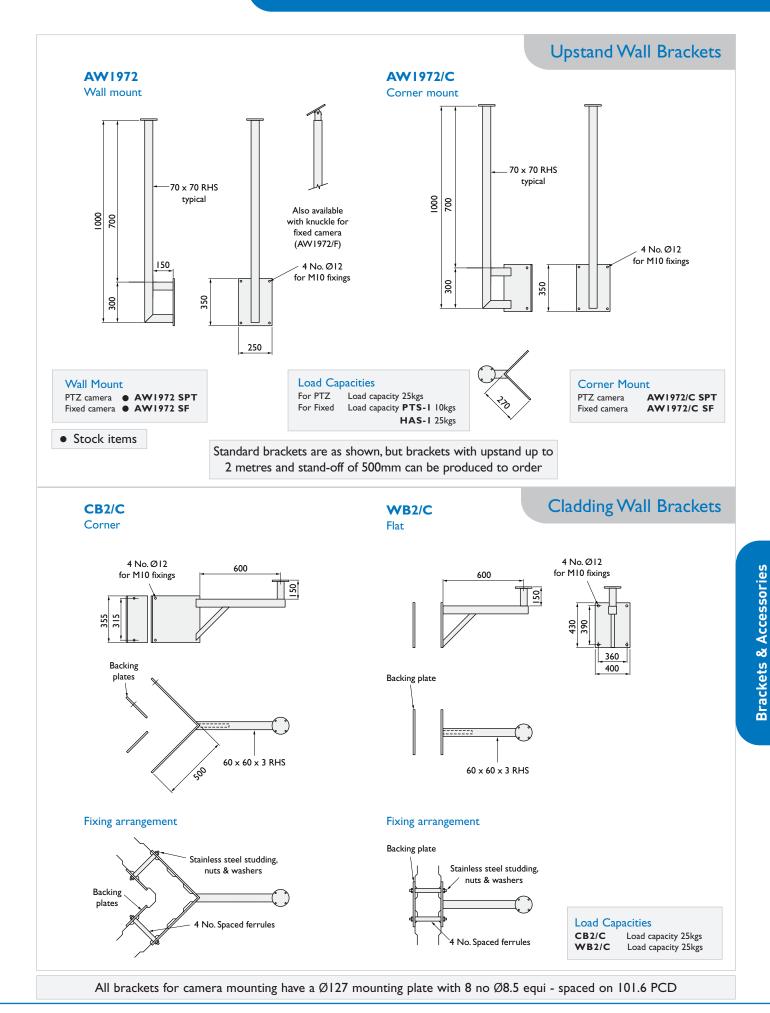
o Cages can be painted matt black over galvanising to reduce I/R reflection.

o Dimensions are typical and can vary to suit application. Please specify.

Padlockable hinged door

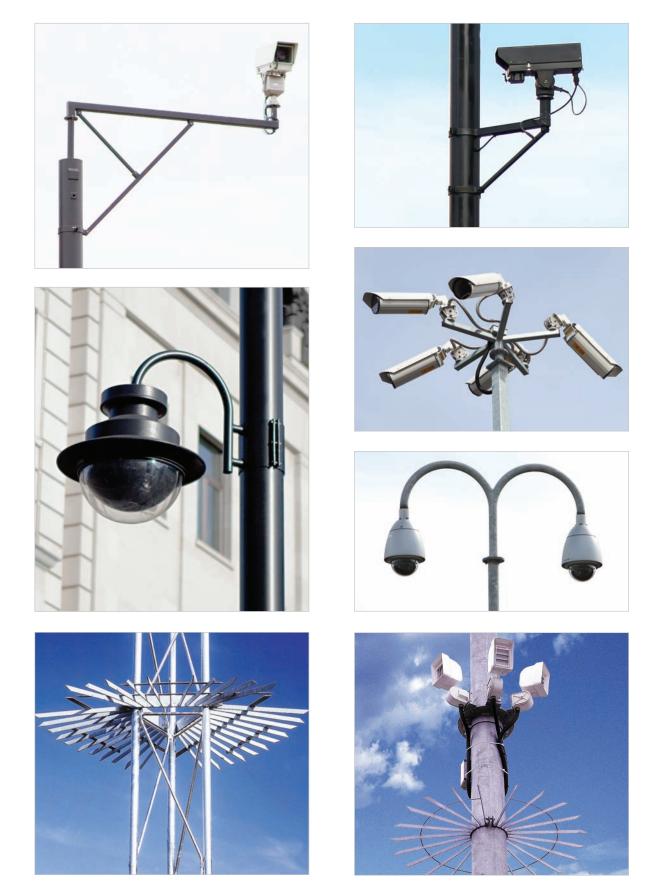
to enable access to camera equipment for servicing is available as an option

## Wall Mounted Brackets $\leftarrow$



Due to our policy of continuous product improvement specifications may change without notice

## $\rightarrow$ Pole & Tower Accessories



All of our pole and tower ranges are backed up with a wide range of standard mounting accessories giving an appropriate and professional installation. Most items are held in stock and variations are available on a short lead time.

## Pole & Tower Accessories $\leftarrow$

• Stock items

#### • PTS-I

- Standard fixed camera knuckle
- o Load rating 10Kgs
- o General duty adjustable knuckle for mounting fixed cameras robust & economic

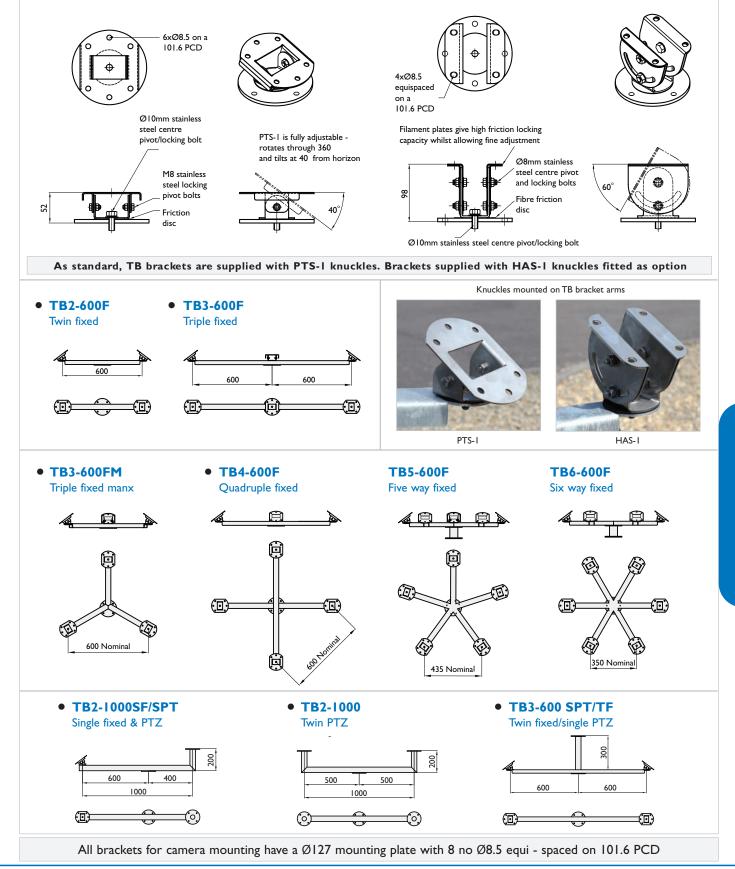
### **TB Brackets & Fixed Camera Knuckles**

#### • HAS-I

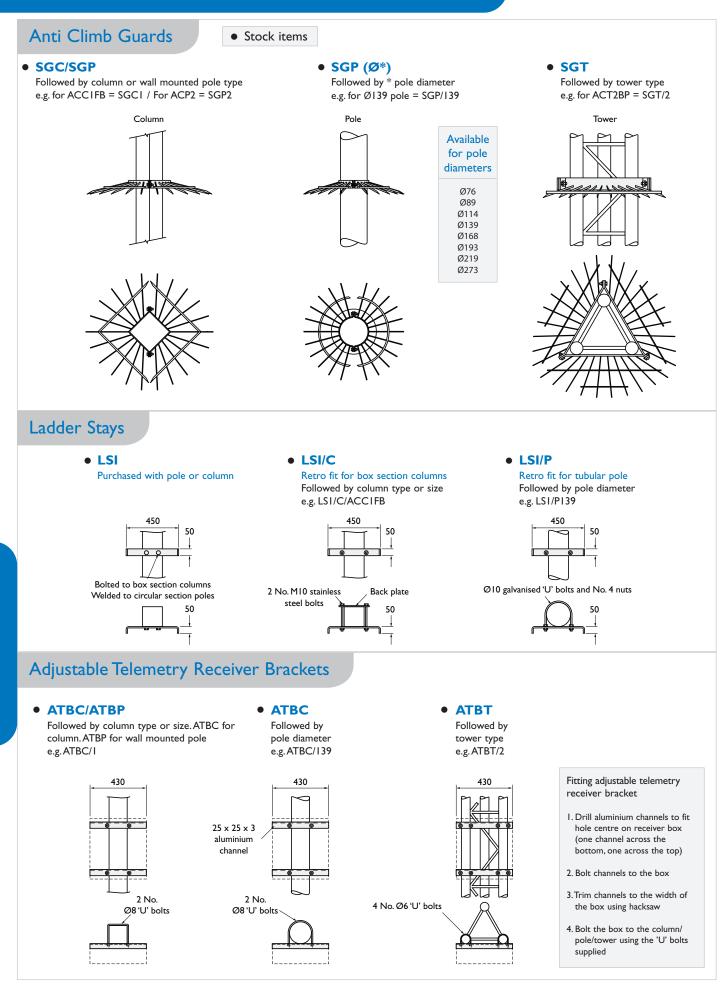
#### High specification fixed camera knuckle

O Load rating 25Kgs

O High specification adjustable knuckle where fine adjustment and a solid platform are required to ensure accurate reliable camera alignment

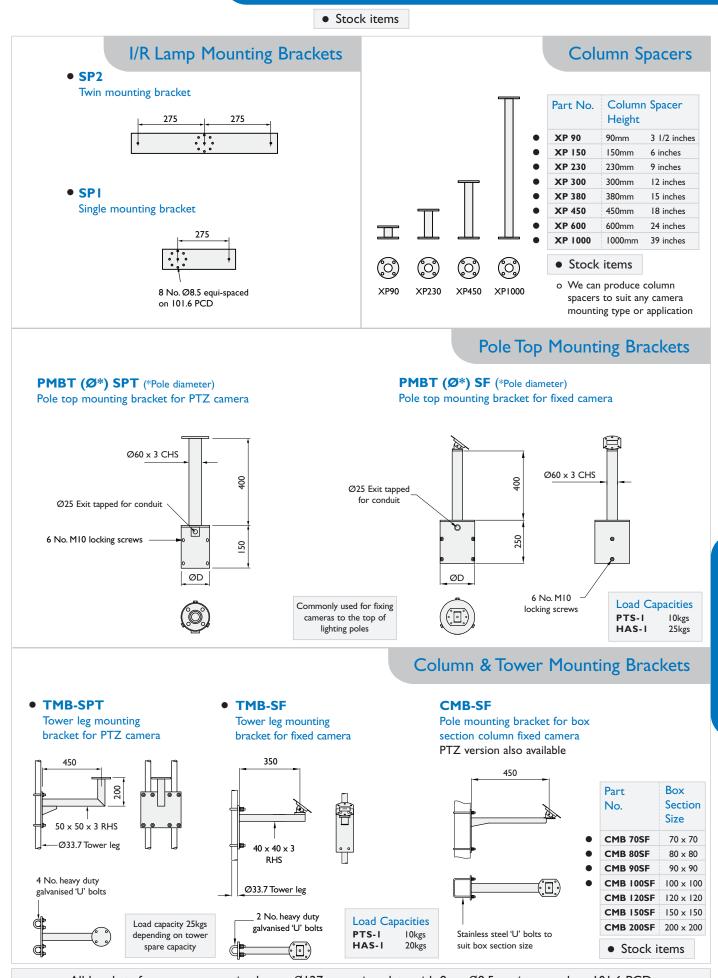


## $\rightarrow$ Pole & Tower Accessories



Brackets & Accessories

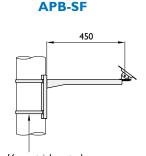
## Pole & Tower Accessories $\leftarrow$

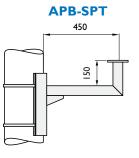


All brackets for camera mounting have a Ø127 mounting plate with 8 no Ø8.5 equi - spaced on 101.6 PCD

## $\rightarrow$ Pole & Tower Accessories

### Adjustable Pole Mounting Brackets





Heavy 16mm stainless steel strapping grade 304



Load capacities PMB/APB						
	PTS-I HAS-I					
For Fixed	10 Kgs 20 Kgs					
For PTZ	25 Kgs					

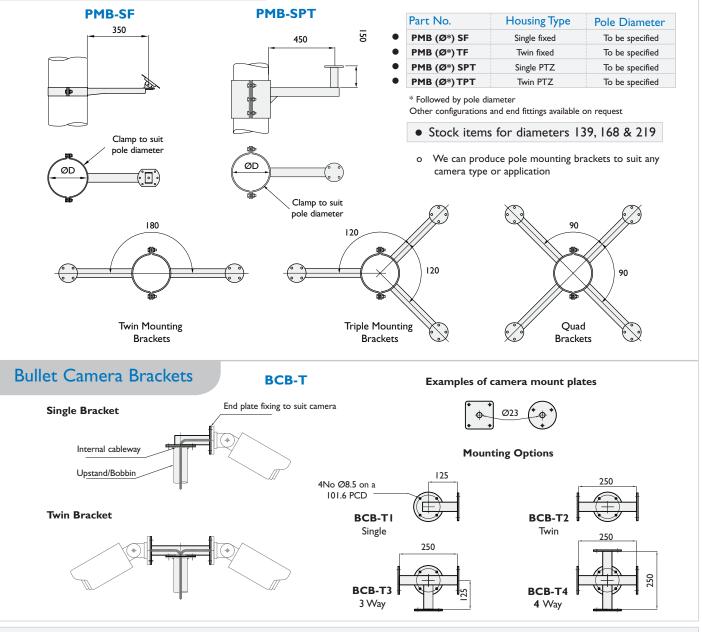
### Pole Mounting Camera Brackets

Part No.	Housing Type	Pole Diameter
APB 150 SF	Single fixed	75-150
APB 150 TF	Twin fixed	75-150
APB 150 SPT	Single PTZ	75-150
APB 150 TPT	Twin PTZ	75-150
APB 250 SF	Single fixed	150-250
APB 250 TF	Twin fixed	150-250
APB 250 SPT	Single PTZ	150-250
<b>APB 250 TPT</b>	Twin PTZ	150-250

• Stock items

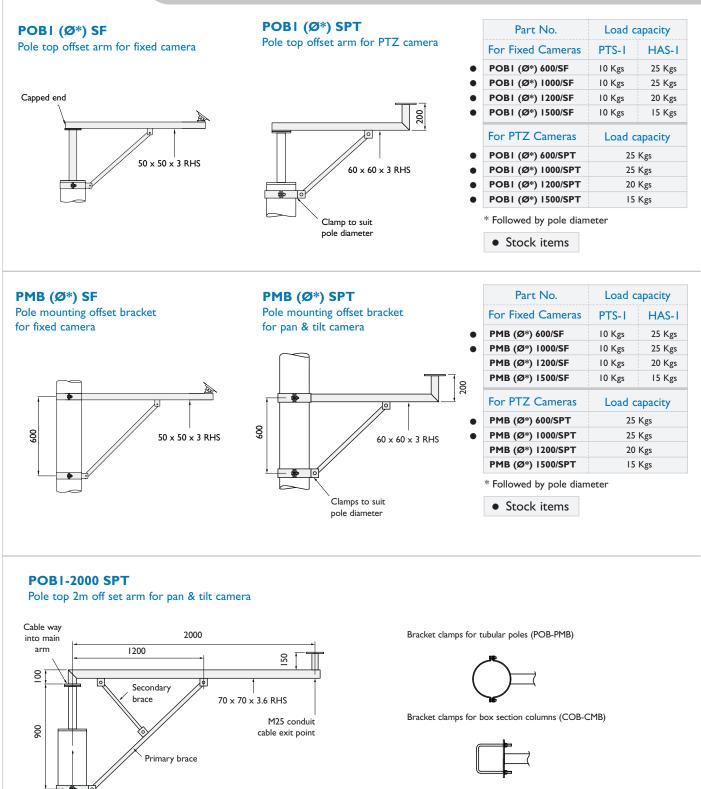
o Stainless steel strapping has a I tonne breaking strain

o Can also be produced for AW1699/H & AW1699/F swan necks



All brackets for camera mounting have a Ø127 mounting plate with 8 no Ø8.5 equi - spaced on 101.6 PCD





All part numbers noted above are for brackets to fit tubular poles. For brackets to fit box section columns replace POM/PMB prefixes with COB/CMB. State column section size instead of pole diameter.

For extended offset brackets, it is important than on tilt down products, the arm is orientated in the direction of tilt. Please refer to P103 for full explanation.

All brackets for camera mounting have a Ø127 mounting plate with 8 no Ø8.5 equi - spaced on 101.6 PCD

Loading capacity = 15Kgs

Clamp to suit

pole diameter

Cable fed internally through pole into bracket arm

## Swan Neck & Dome Mounting Brackets

The Altron range of swan necks & dome mounting brackets are versatile and can be produced to suit any dome type. Standard mounting variations suit most installations, but if you have an installation that requires something non-standard, then we produce bespoke brackets to suit your specific requirement.

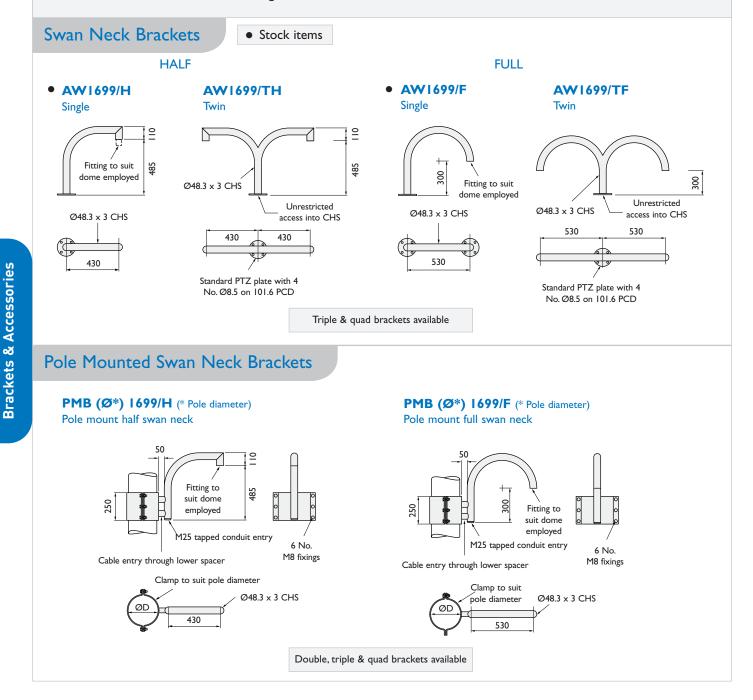
We stock components to suit the following manufacturers domes.

- Bosch
- Mic I Mahan
- Dedicated Micros
- Molynx/Bewator
- Honeywell - JVC

Mark Mercer

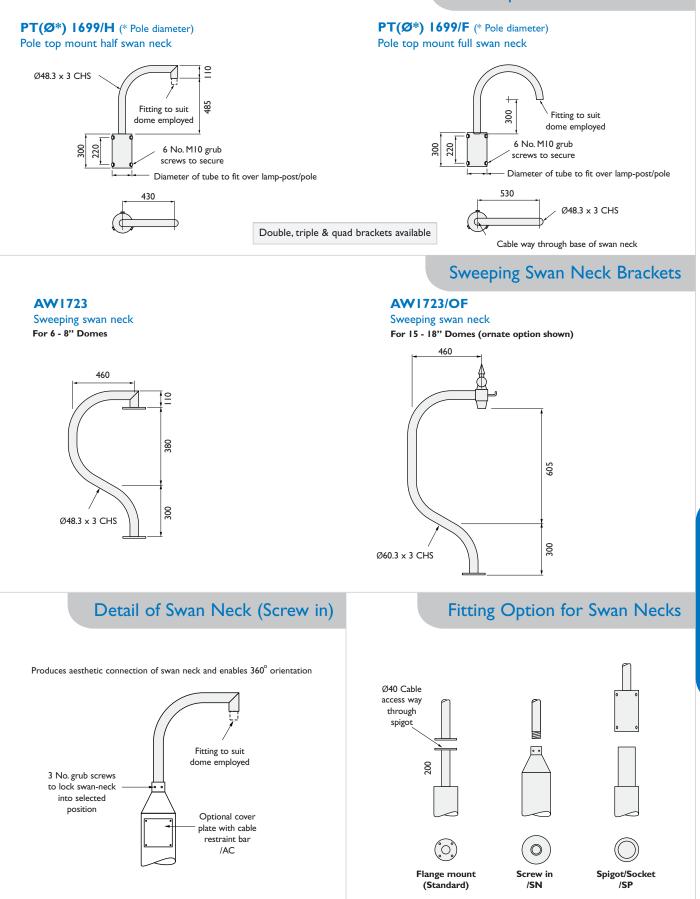
- · Panasonic
- Pelco - Philips
- Samsung Techwin
- Siemens
- Sony - Tyco/ AD - Ultrak
- Vicon
- Vista
- Videotec

- o Please specify dome type when ordering
- o All other manufacturers dome fittings made to order



## Pole & Tower Accessories $\leftarrow$



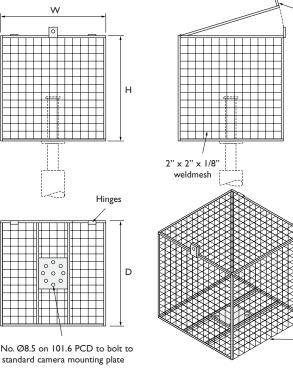


Brackets & Accessories

## $\rightarrow$ Pole & Tower Accessories

### Pole Top Mounting Cages

#### Pole top mounted cage



Padlockable hinged door to enable access to camera equipment for servicing is available as an option

Note

Angle of frame removed

from this front edge to

allow unrestricted view for camera

Cage type	Part No.
Fixed camera	AFCPT
PTZ camera	PACPT

Typical Dimensions

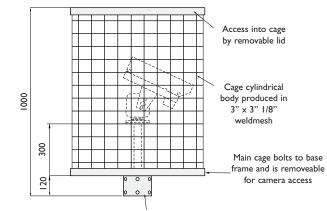
	D	Н	W
Fixed camera	500	500	500
PTZ camera	1000	1000	1000

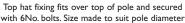
o Cages can be painted matt black over galvanising to reduce I/R reflection.

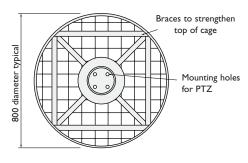
o Dimensions are typical and can vary to suit application. Please specify.

8 No. Ø8.5 on 101.6 PCD to bolt to

#### Cylindrical cage for pole top







Cage Ø	Part No.
500	PACPT/500
800	PACPT/800
1000	PACPT/1000
1200	PACPT/1200

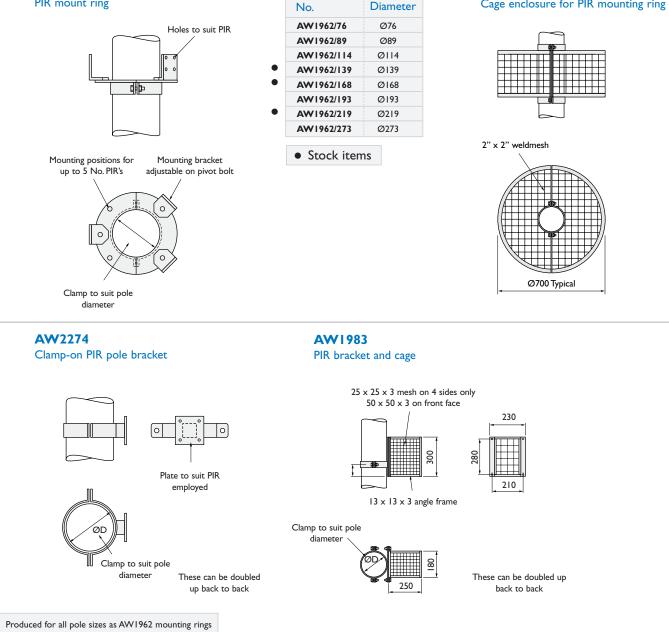
o Cages can be painted matt black over galvanising to reduce I/R reflection

o Diameter of cage to suit camera assembly housing

**Brackets & Accessories** 

## Pole & Tower Accessories $\leftarrow$





Pole

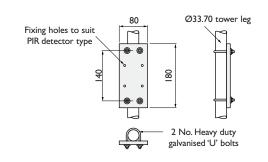
Part

#### AW2275

AW1962

PIR mount ring





## $\rightarrow$ Roof Mounted Brackets



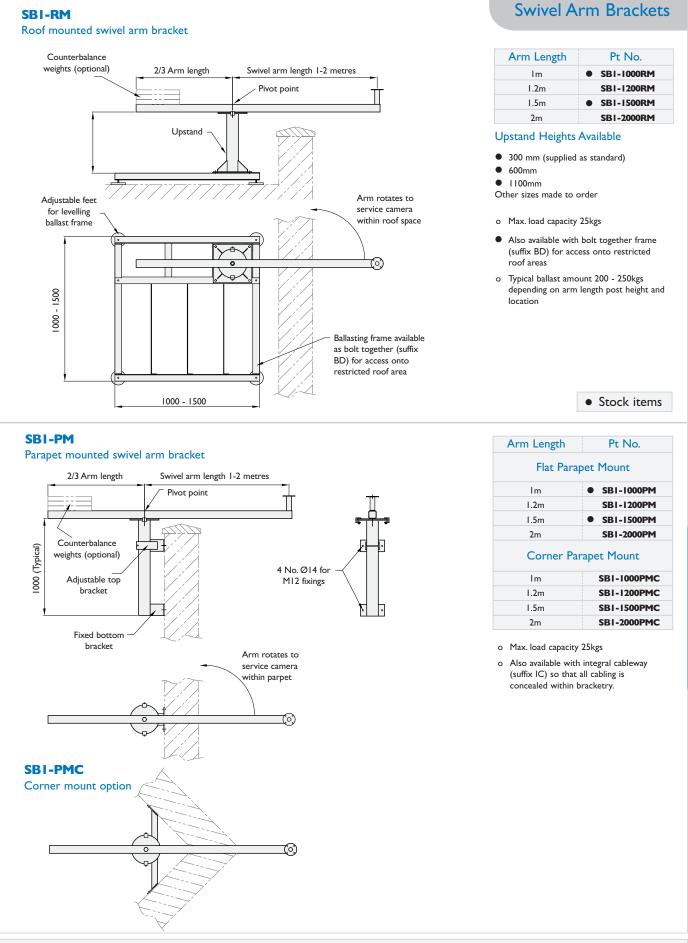






A common sight, protruding over parapets, our roof and parapet mounting brackets enable safe servicing of cameras within the roof space. Catering specifically for both PTZ and dome applications, most variations are available either from stock or on short lead times. For the many more unusual roof mounted installations, we provide a bespoke design service calling upon many years of experience, to overcome unusual mounting requests.

## Roof Mounted Brackets ←

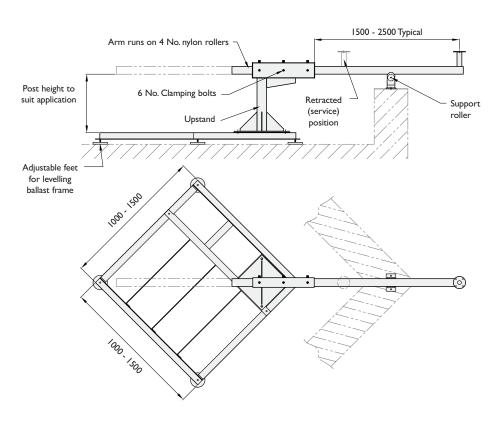


All brackets for camera mounting have a Ø127 mounting plate with 8 no Ø8.5 equi - spaced on 101.6 PCD

### **Sliding Arm Brackets**

#### SAI-RM

Roof mounted sliding arm bracket



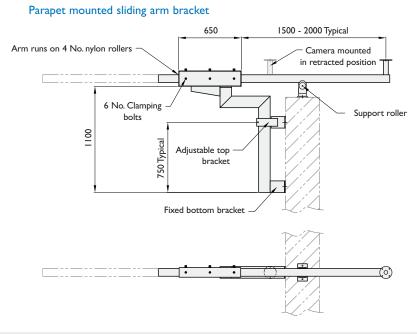
Arm Length	Pt No.
1.5m	SAI-1500RM
2m	SA1-2000RM
2.5m	SA1-2500RM

#### Upstand Heights Available

300 mm (supplied as standard) 600mm & 1100mm Other sizes made to order

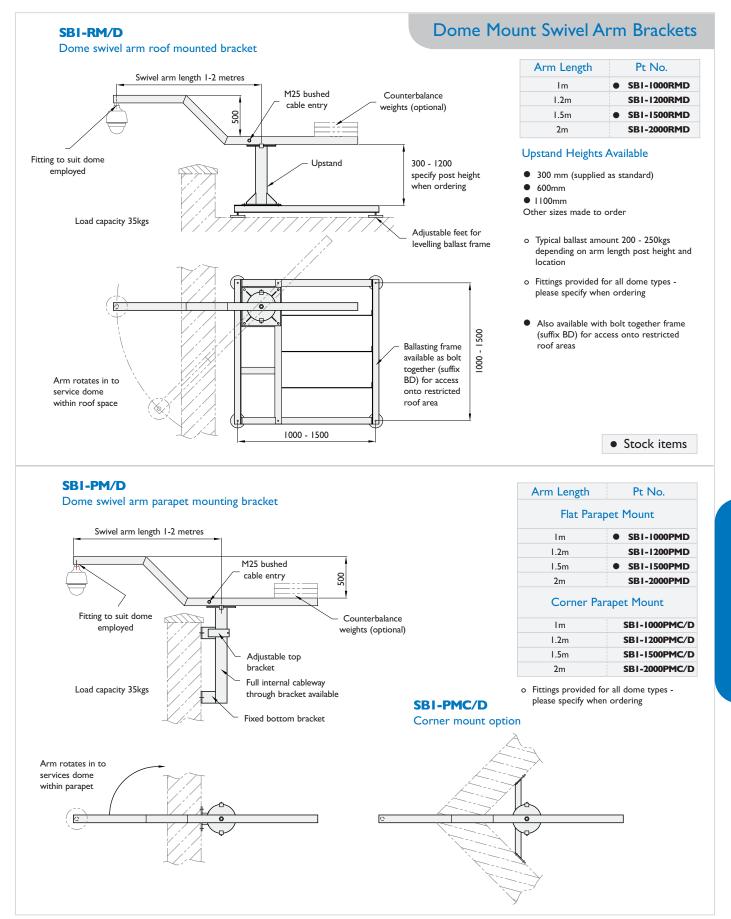
- o Available as flat mount as shown or corner mount
- Also available with bolt together frame (suffix BD) for access onto restricted roof areas
- o Typical ballast amount 200 250kgs depending on arm length post height and location

#### SAI-PM



Arm Length	Pt No.			
Flat Para	oet Mount			
Im <b>SAI-1000PM</b>				
1.5m	SA1-1500PM			
2m Corner Par	SBI-2000PM			
	apet Mount			
Corner Par				

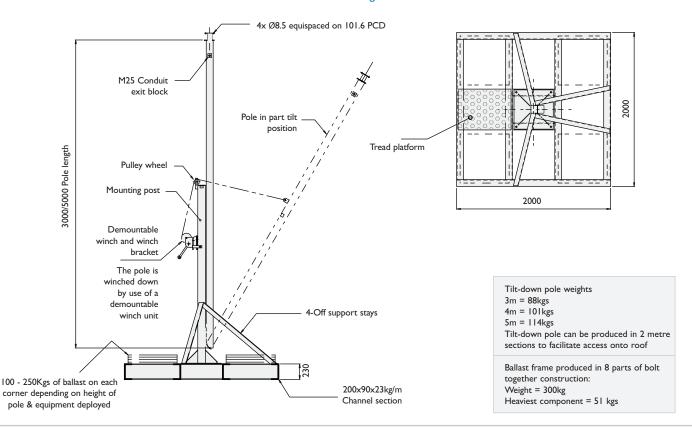
All brackets for camera mounting have a Ø127 mounting plate with 8 no Ø8.5 equi - spaced on 101.6 PCD



## $\rightarrow$ Roof Mounted Brackets

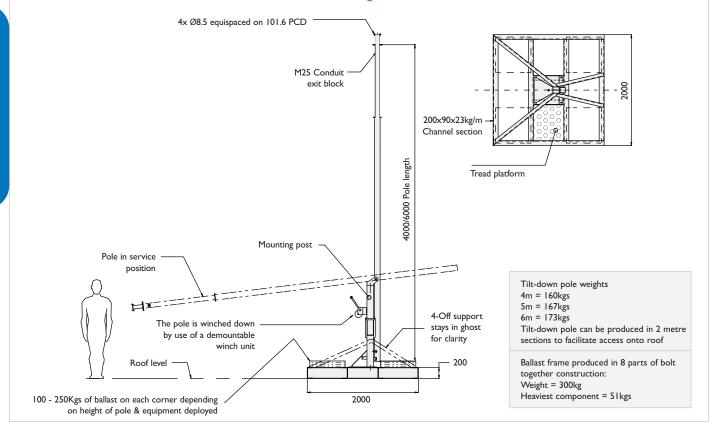


Ballasted frame - roof mounted 3/5m tilt-down-column bottom hinged

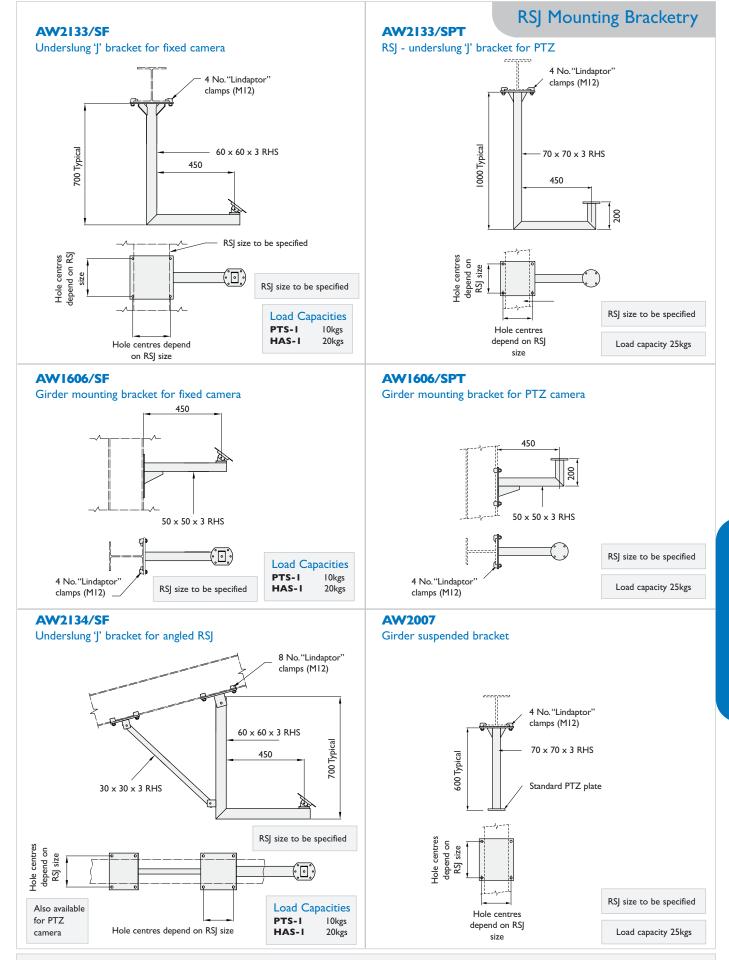


#### AW3288

Ballasted frame - roof mounted 4/6m tilt-down-column mid hinged



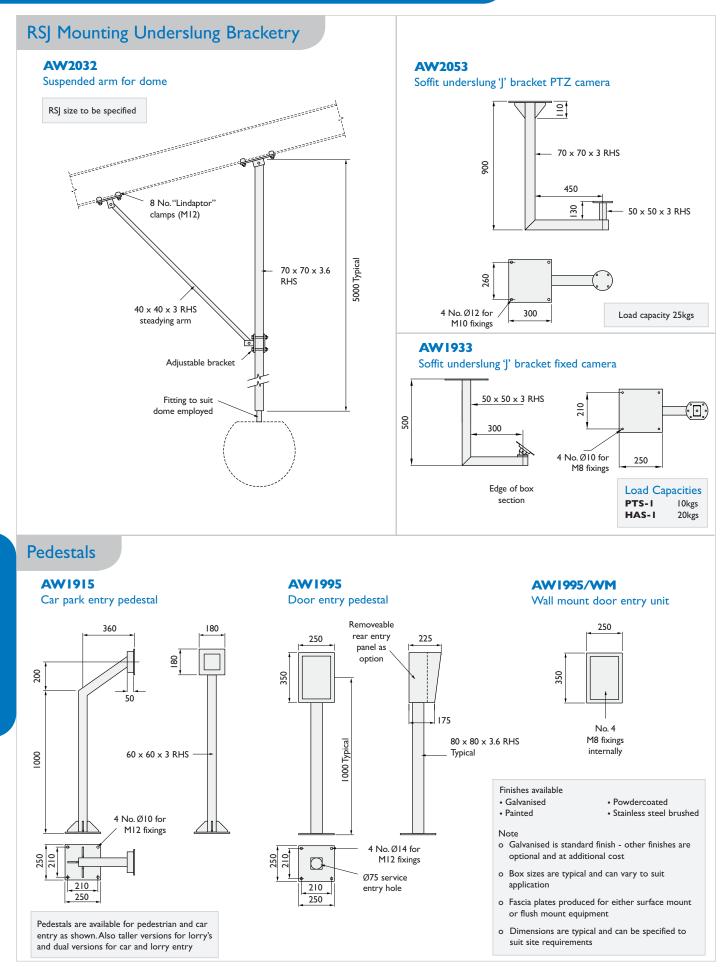
## $\mathsf{Miscellaneous} \leftarrow$



All brackets for camera mounting have a Ø127 mounting plate with 8 no Ø8.5 equi - spaced on 101.6 PCD

**Brackets & Accessories** 

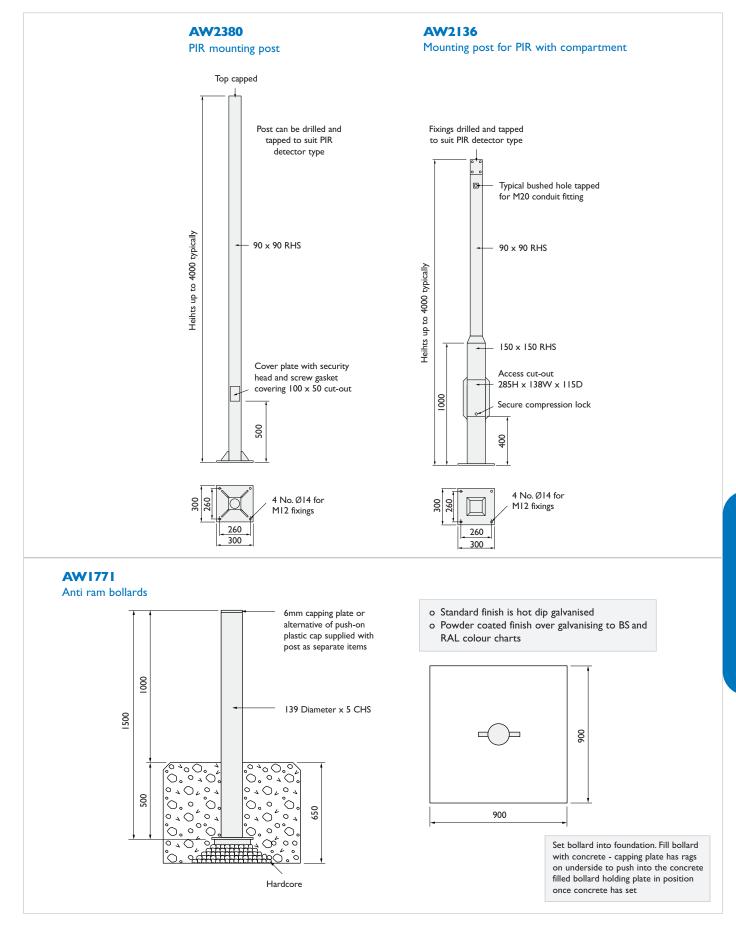
## $\rightarrow$ Miscellaneous



All brackets for camera mounting have a Ø127 mounting plate with 8 no Ø8.5 equi - spaced on 101.6 PCD

**Brackets & Accessories** 

## $Miscellaneous \leftarrow$



## $\rightarrow$ Special Bracket Design

As well as providing a wide range of standard brackets we have over the past 20 years built up a significant library of 'special' designs, to overcome the many varying and challenging requirements for mounting cameras in difficult and unusual locations.

Today we find that the many 'specials' are a variation of either a standard bracket or a modification to a previous design for a similar application, so they are straight forward for us to produce.

We also have many standard design features that can be brought together into a one bespoke off design. And where the requirement is completely specific, we offer a full design service.

The diagrams in this section illustrate how we have overcome various specific customers installation requirements. The photographs are just a small sample of the many thousands of specials we have produced.

### Hampden Park lighting gantry bracket

Telescopic raise and lower bracket to enable camera servicing within lighting gantry.





In operational position



Top view



Winch mechanism

## Waterloo bridge bracket

Retractable bracket using separate device to raise for servicing of camera





## Case Study

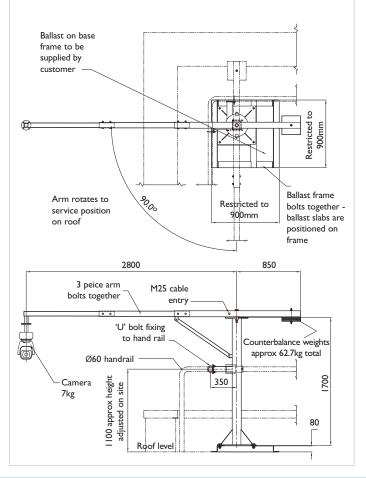
#### Ballast Swivel arm bracket

#### Scenario

The customer requirement was to have the dome extend out over the building edge by 1500mm. The bracket needed to be steadied by a handrail, but could not be structurally fixed to it, but also had a limited foot print for a ballast frame as this needed to fit inside a window cleaning gantry track. Arm could not protrude to the rear by more than Im for the same reason. As the bracket is on a high rise roof, all parts needed to be small enough to carry onto the roof by one person via a lift and access stairs.

#### Solution

The solution was a swivel arm bracket with an arm that breaks down into three parts and is bolted together, along with a bolt together frame, bolt on steadying arms and counterbalance weights for the rear of the arm.



## Special Bracket Design $\leftarrow$

### Case Study

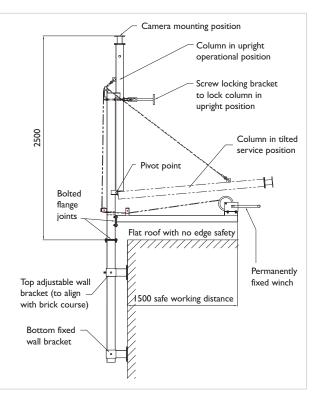
#### Roof edge mounted tilt down column

#### **Scenario**

The customer needed to mount a camera approx 2.5 metres high at an unprotected roof edge and be able to winch the camera in for servicing at a safe distance from the roof edge (1.5m).

#### Solution

The solution was a tilt down column, mounted to a wall mounted post and tilted down using a fixed winch on an extended arm. The column is locked in the vertical with a screw lock that can be operated at arm's length. The winch cable is routed around the bracket to enable the column to tilt down away from the edge of the roof towards the operator.



### Stainless Steel Corner Bracket

Made to customer specification



#### Ornate Corner Mount Bracket To match existing street furniture



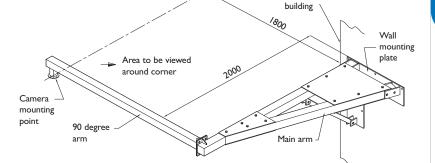
Corner of

### Case Study

#### 90 degree extended arm wall bracket

#### Scenario

Customer requirement was to view a fire escape door area being used as a shelter for drug abuse. The camera needed to be in a position where it could look at the door way, but be out of reach with the bracket fixing point, camera cables etc, not accessible from the fire escape.



#### Solution

The solution was for the bracket mounting points to be round the corner of the building, completely inaccessible and for the bracket to be installed using a cherry picker. The bracket has an arm at 90 degrees to reach around the corner and look at the fire escape and to stand off far enough to not be reached from the fire escape. The bracket needed to be made in three pieces - wall mounting plate, main arm and additional arm forming the 90 degree portion. The main arm needed to be sufficiently rigid to keep the movement of the 90 degree arm to a minimum.

## $\rightarrow$ Special Bracket Design

## Case Study

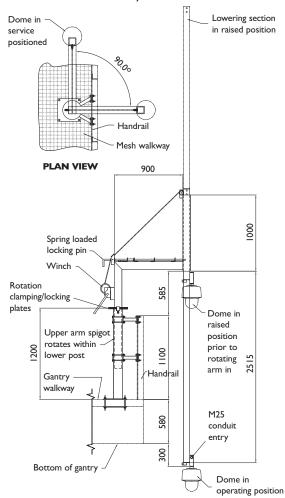
Gantry mounted telescopic, retractable, swivelling, dome mounting bracket

#### Scenario

Customer requirement was to have a dome mounted below a railway gantry to view along marshalling tracks and then to be able to bring the dome up onto the gantry walkway for servicing. The operation needed to take place within the gantry handrail with no overreaching.

#### Solution

The solution was a pole section that is lowered using a winch through an extended arm which swivels to enable the dome to be brought into the gantry walkway. The swivel arm is locked in the outward 'operating' position and can be padlocked there. The lowering pole is not held on the winch rope when lowered, but by a locking pin, that is spring loaded and operated from within the gantry. The bracket is fixed to the gantry floor and handrails for stability.



### Parapet Mounted Counter-Balance Bracket

Mounts to top of parapet only and tilts by hand onto roof



### Cantilever Arm Tower

Cameras oriented downwards to observe vehicles



### Wall Mounted Pole

No stand-off to customer specification



## Ornate Pole Top Bracket

To customer specification in keeping with other street furniture



## $\mathsf{Cabinets} \leftarrow$



Our standard range of cabinets are of robust and secure design. They are not intended to compete with light duty pressed steel cabinets. Material used in the body is steel plate, which is between 4-6mm thick depending on cabinet size. All cabinets are fully fabricated and then hot dip galvanised after fabrication. The finish is powder coated, and the minimum expected life span is 25 years.

As well as being very resistant to physical attack, they have key security features, to resist vandal attacks and attempts to force entry.

A full range of accessories and options are available.

## → AEC Equipment Cabinet Range

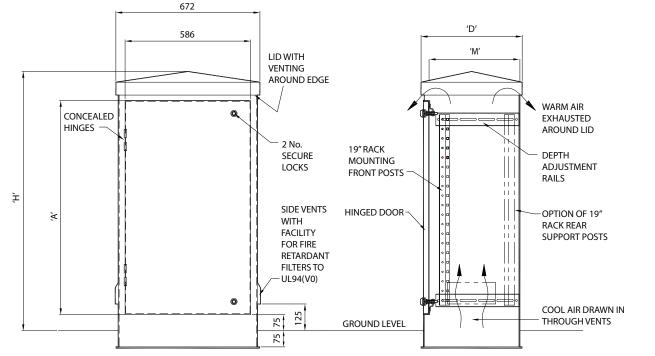


### **AEC Cabinet Range Features**

- o For use with 19" rack mounted equipment
- o Hinged door with internal hinges

o

- o Heavy duty fabricated construction
- o Hot dip galvanised finished gives minimum expected 25 year lifespan
  - Numerous security features ensure high level of vandal resistance
- o Earthing points within cabinet and on door
- o Convection air circulation and venting as standard
- o Additional back board can also be provided
- o Swing frame option and rear access door options available
- o As well as the standard range, special sizes and customer defined specifications can be produced to order
- o Stainless steel version available
- Standard colours are 14C39 Holly bush green or Black. Other colours from BS/RAL colour charts available on request
- o For security features see p99



Model No.	Height H	Depth D	Maximum Mounting Depth M	Door Aperture A x 516	Mounting Post Height	Cabinet Weight Kgs
AEC-90-65-45	900	450	400	650 x 516	l 5u	120
AEC-90-65-65	900	650	600	650 x 516	l 5u	132
AEC-11-65-45	1100	450	400	850 x 516	20u	140
AEC-11-65-65	1100	650	600	850 x 516	20u	154
AEC-13-65-45	1300	450	400	1050 x 516	25u	161
AEC-13-65-65	1300	650	600	1050 x 516	25u	177
AEC-16-65-45	1600	450	400	1250 x 516	30u	180
AEC-16-65-65	1600	650	600	1250 x 516	30u	200

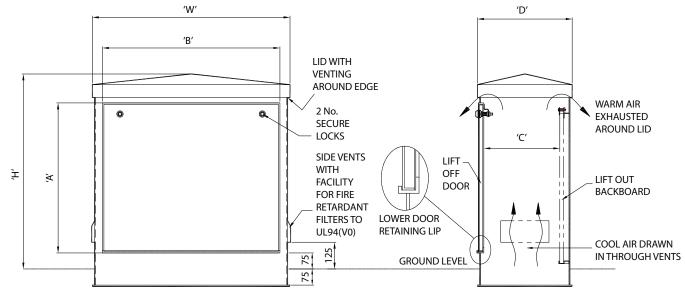
Options	PT No.
Tamper Switch	/TS
4 point locking	/A4P
High Security lock in addition	/HS
Filter for vents	/F
Circulation Fan with filter for vents	/CF
Thermostat	/ <b>T</b>
Heater	/H
Swing frame (cabinet width increases)	/SF
Padlockable Hasp and Staple	/PHS
Backboard - Removable	/BB

All dimensions in mm



### **ARC Cabinet Range Features**

- Complete with quick release removable 15 mm thick treated backboard for equipment mounting
- o Lift off door
- o Heavy duty fabricated construction
- o Hot dip galvanised finished gives minimum expected 25 year lifespan
- o Numerous security features ensure high level of vandal resistance
- o Earthing points within cabinet and on door
- o Convection air circulation and venting as standard
- o As well as the standard range, special sizes and customer defined specifications can be produced to order
- o Stainless steel version available
- o Standard colours are 14C39 Holly bush green or Black. Other colours from BS/RAL colour charts available on request
- o For security features see p99



Model No.	Height H	Width W	Depth D	Working Depth C	Back Board Height x Width	Door Aperture A x B	Cabinet Weight Kgs
ARC-90-60-32	2 900	600	320	220	700 × 470	650 x 475	90
ARC-90-90-32	<b>2</b> 900	900	320	220	700 x 770	650 x 775	122
ARC-90-12-32	<b>2</b> 900	1200	320	220	700 × 1070	650 x 1075	154
ARC-12-60-32	<b>2</b> 1200	600	320	220	1000 x 470	950 x 475	113
ARC-12-90-32	<b>2</b> 1200	900	320	220	1000 x 770	950 x 775	145
ARC-12-12-32	<b>2</b> 1200	1200	320	220	1000 x 1070	950 x 1075	177
ARC-90-60-42	<b>2</b> 900	600	420	320	700 x 470	650 x 475	97
ARC-90-90-42	<b>2</b> 900	900	420	320	700 x 770	650 x 775	132
ARC-90-12-42	<b>2</b> 900	1200	420	320	700 × 1070	650 x 1075	167
ARC-12-60-42	<b>2</b>  200	600	420	320	1000 x 470	950 x 475	121
ARC-12-90-42	<b>2</b> 1200	900	420	320	1000 x 770	950 x 775	153
ARC-12-12-42	<b>2</b>  200	1200	420	320	1000 x 1070	950 x 1075	185

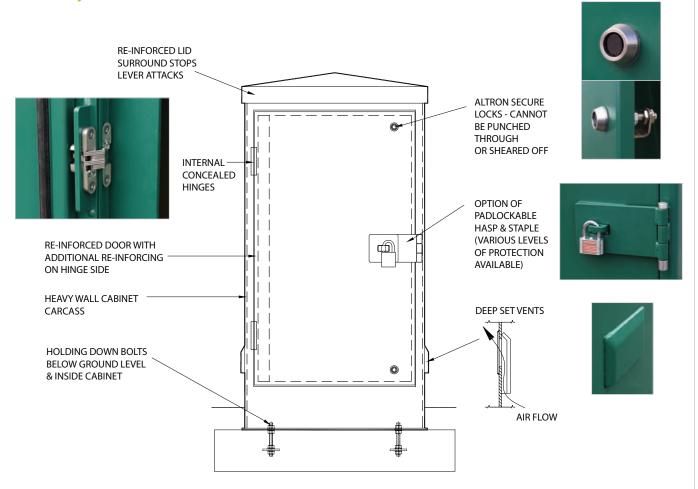
Options	PT No.
Tamper Switch	/TS
4 point locking	/A4P
High Security lock in addition	/HS
Filter for vents	/F
Circulation Fan with filter for vents	/CF
Thermostat	/ <b>T</b>
Heater	/H
Padlockable Hasp and Staple on either side of door	/PHS

All dimensions in mm

Cabinets

## $\rightarrow$ Cabinet Features

### **Security Features**



#### **Installation Details** HOLDING DOWN SERVICE DUCTS OPTIONAL LOWER LOCATING PLATE BOLTS RE-INSTATE TO GROUND LEVEL AFTER CABINET HAS USED WITH BOLT FRAME BEEN INSTALLED 75 150mm CONCRETE 150mm HARDCORE OUTLINE OF SERVICE DUCT ENTRY CONCRETE PLINTH IN BASEPLATE 0 0 þ ()ģ 0 0 'A' 'C'

### **Base Entry Details**

Part number	Base plate aperture for duct entry A x B	plinth footprint
ARC- * - 60 - 32	470 x 170	800 × 500
ARC- * - 90 - 32	770 x 170	1100 × 500
ARC- * - 12 - 32	1070 x 170	1400 × 500
ARC- * - 60 - 42	470 x 270	800 × 600
ARC- * - 90 - 42	770 x 270	1100 x 600
ARC- * - 12 - 42	1070 x 270	1400 x 600
AEC- * - 65 - 45	520 x 270	880 × 650
AEC- * - 65 - 65	520 x 370	880 × 850

\* All height variations

o Cabinet supplied complete with template and holding down bolts

o Bolt frame is available as an extra item

Cabinets

## Winches ←

BRAKING MECHANISM WITHIN WINCH CASING

DOUBLE RACHET



ROBUST WINCH HOUSING WITH HEAVY ZINC PLATED FINISH

LARGE CABLE DRUM

CABLE DRUM GEAR GUARD

#### Winches

Altron auto-braking winch kits have been proven in the field for over 25 years and have the following safety features

- 1. Auto-braking mechanism comprises a friction clutch. When the winch cable is wound in (raising the tower, column or pole), a conventional ratchet is used. When the cable is wound out (lowering the tower, column or pole), a friction clutch is engaged. The greater the load, the greater the clutches holding capacity. If the handle is released, the load is held on the clutch and is fail safe.
- 2. Winch-drum guard. On DW1000 and DW1500 winches a guard is fitted as standard. This reduces the possibility of anything getting trapped in the gears of the winch during operation such as loose clothing, etc. and also reduces the possibility of the drum gears getting damaged.
- 3. Large diameter drum core. Reduces flattening and kinking of winch cable, extending the usable life of the cable.
- 4. Gearing ratio. The gearing ratio used on all winches stops the winch being overloaded by manual winding of the winch handle. A specific design feature, when the winch is used correctly, the pressure on the winch handle required to overload the winch is greater than can be applied by hand. Therefore under normal conditions when the winch is used in accordance with our operating instructions and with camera equipment within maximum rated, winches cannot be overloaded.

#### Notes on Altron Winch Kits

Altron winch kits are designed to be as simple and safe as possible to use, but as with all mechanical equipment, require correct operation and regular maintenance to ensure safe and reliable on-going use.

Prior to raising or lowering any Altron tilt-down products, the operator should have thoroughly read the operating instructions supplied and should be familiar with the winch operating procedures and the possible risks involved.

Instructions are always available by contacting Altron and regular training courses are run at our offices.

Under LOLER (The Lifting Operations and Lifting Equipment Regulations 1998), it is the winch owner's responsibility to arrange an annual inspection of the winch to ensure that it is kept in a serviceable condition. Details of these requirements can be obtained from Altron.

#### Winch Mounting Options

Altron winches are mounted in the optimum position on all products, so that only balanced loads are applied to the product and winch mechanism. This gives an increased life span for the winch and pulleys and reduces maintenance due to wear.

To achieve this, winch bracket and handle combinations vary between product types. Each winch unit has a part number and serial number and it is imperative that the correct winch unit is used on each product. Winch part numbers are noted against all products in this catalogue.

The photographs below show the three sizes of winch that we



DW1000 Winch mounted on ACC2BPLA column. This bracket type for ACC/ACT columns and towers.



DW1500 Winch mounted on AW1545/TD pole. This bracket type for tubular poles.



DW2500 Winch mounted on ANCT tower. This bracket type for ANCT towers only.

## Foundations & Wind loading

Further information on foundations and wind loading for Altron products can be found on the following pages. This contains useful information which may help when assessing and planning projects using Altron CCTV products.

#### Foundation sizes for elevated sites and Area D

The table below shows foundation sizes for area D installations and, for exposed, elevated locations, higher than 100-150m above sea level. For areas A,B and C the left hand column shows the foundation size shown in the product foundation page - read across the table for the relevant foundation size to be used for the relevant location.

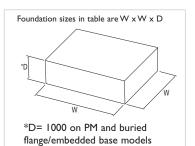
e.g. in the foundations table on p21 an ACC2/BPLA for country location in area B has a foundations size of  $1.2 \times 1.2 \times 0.6$  but the location is at 300m ASL. Look for the foundation size in the left hand column of the table below and read across the row to the 'Elevated foundation' column for the correct foundation size, for the elevated location.

- For locations above 350m above sea level (ASL) and area D locations above 250m ASL, please contact Altron who will advise on product suitability and foundation sizes.
- Products marked with an asterisk in their foundation page are note suitable for installations in Area D or in area C above 200m. Please select an alternative product.

Foundation size Shown in product Foundations table Area A&B 0-100m Area C 0-150m	Area D foundation size to be used (0-250m ASL) instead of area C foundation	Area A&B foundation sizes for elevated sites 100-200m ASL	Area A&B foundation sizes for elevated sites 200-350m ASL	Area C foundation sizes for elevated sites 150-350m ASL
0.8 x 0.8 x 0.4	0.9 x 09 x 0.5	0.9 x 09 x 0.5	$1.0 \times 1.0 \times 0.5$	0.9 × 09 × 0.5
0.9 x 0.9 x 0.5	$1.0 \times 1.0 \times 0.5$	$1.0 \times 1.0 \times 0.5$	1.1 x 1.1 x 0.55	$1.0 \times 1.0 \times 0.5$
1.0 x 1.0 x 0.5	1.1 x 1.1 x 0.55	1.1 x 1.1 x 0.55	1.2 x 1.2 x 0.6	1.1 x 1.1 x 0.55
1.1 x 1.1 x 0.55	1.2 x 1.2 x 0.6	$1.2 \times 1.2 \times 0.6$	1.3 x 1.3 x 0.65	1.2 x 1.2 x 0.6
1.2 x 1.2 x 0.6	1.3 x 1.3 x 0.65	1.3 x 1.3 x 0.65	1.4 x 1.4 x 0.7	1.3 x 1.3 x 0.65
1.3 x 1.3 x 0.65	1.4 x 1.4 x 0.7	1.4 x 1.4 x 0.7	1.5 x 1.5 x 0.75	1.4 x 1.4 x 0.7
1.4 x 1.4 x 0.7	1.5 x 1.5 x 0.75	1.5 x 1.5 x 0.75	1.6 x 1.6 x 0.8	1.5 x 1.5 x 0.75
1.4 x 1.4 x 0.75	1.5 x 1.5 x 0.75	1.5 x 1.5 x 0.75	1.6 x 1.6 x 0.8	1.5 x 1.5 x 0.75
1.5 x 1.5 x 0.75	1.6 x 1.6 x 0.8	1.6 x 1.6 x 0.8	1.7 x 1.7 x 0.9	1.6 x 1.6 x 0.8
1.6 x 1.6 x 0.8	1.7 x 1.7 x 0.9	1.7 x 1.7 x 0.9	1.8 x 1.8 x 0.9	1.7 x 1.7 x 0.9
1.7 x 1.7 x 0.9	1.8 x 1.8 x 0.9	1.8 x 1.8 x 0.9	1.9 x 1.9 x 1.0	1.8 x 1.8 x 0.9
1.8 x 1.8 x 0.9	1.9 x 1.9 x 1.0	1.9 x 1.9 x 1.0	$2.0 \times 2.0 \times 1.0$	1.9 x 1.9 x 1.0
1.9 x 1.9 x 1.0	2.0 x 2.0 x 1.0	2.0 x 2.0 x 1.0	2.1 x 2.1 x 1.1	2.0 x 2.0 x 1.0
2.0 x 2.0 x 1.0	2.1 x 2.1 x 1.1	2.1 x 2.1 x 1.1	2.2 x 2.2 x 1.1	2.1 x 2.1 x 1.1
2.1 x 2.1 x 1.1	2.2 x 2.2 x 1.1	2.2 x 2.2 x 1.1	2.3 x 2.3 x 1.2	2.2 x 2.2 x 1.1
2.2 x 2.2 x 1.1	2.3 x 2.3 x 1.2	2.3 x 2.3 x 1.2	2.4 x 2.4 x 1.2	2.3 x 2.3 x 1.2
2.3 x 2.3 x 1.2	2.4 × 2.4 × 1.2	2.4 x 2.4 x 1.2	2.5 x 2.5 x 1.2	2.4 × 2.4 × 1.2

#### Notes on foundations

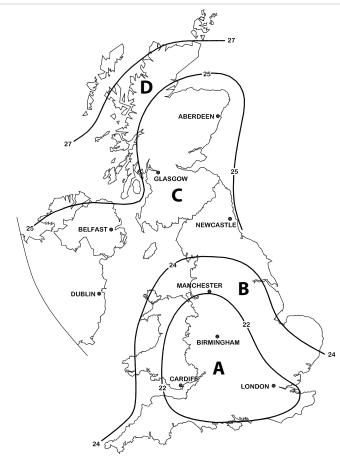
- o Grade C35 concrete to be used
- Allow a minimum of 72 hours for concrete to cure before placing pole/column/tower.
- o A minimum ground bearing capacity of 75  $kN/m^2$  is assumed
- Foundations comply with BS8004 and with the 'Institutes of Lighting Engineers Technical Report Number 7' (ILETR7).
- Foundation sizes are based on foundations being founded on natural ground. For made up ground, further assessment on ground suitability may be required.
- Foundation sizes shown are suitable for maximum equipment load and wind surface area as shown in product technical tables. For greater loads, foundations sizes will need to be increased, please contact us and we will advise on product suitability for greater loads and foundation requirements.
- Foundation sizes shown are not suitable for installations that include PV/ solar panels or small wind turbines. For this type of installation please contact our Sales office.



ASL = Above Sea Level

### Factors that effect foundation sizes & installations wind surface area

The main factor that determines foundation size (other than the location of the installation), is the wind surface area of the equipment being mounted on the pole/ tower/ column. It is the wind surface area that produces the wind force (kgf) that transfers itself to the foundation, for which the foundation needs to be of sufficient size to overcome the 'over turning moment' produced by this lever force. The greater the surface area of equipment at the top of the structure, the larger the foundation size required, so it is very important that the 'Max equip surface area' shown in our technical tables is not exceeded. An extreme example of this is a solar panel which can be very light - only a few kilograms, but can have a large surface area and therefore require a much larger foundation size than the ones we state.



## UK wind speed map

The UK map shows Basic Mean Hourly windspeeds with the contour lines defining areas A,B,C and D.Windspeeds are shown at sea level and for every 100m increase in altitude, the Basic Mean Hourly windspeed increases by 10%, then giving the Site Mean Windspeed.

This Map is represented in BS EN 8100, design standard for lattice towers and is also used for wind loading requirements for ILE TR7 (which refers to BS 6399 and this map in Fig. 6). Therefore the wind loading data used in the design of our foundations fully complies with the design standards we use for our CCTV lattice towers (BS EN 8100) and our tubular poles and columns (ILE TR7).

**Definition of 'Town location'** - Town locations are locations within built up areas, with at least 15% of the surface built on, and/or on which the average height of buildings exceed 15m - for locations on outskirts that do not comply with this, 'Country location' for foundation sizes should be used.

**Definition of 'Country location'** - All areas, both coastal, up to 100m ASL and inland up to 200m ASL, that are not 'Town locations' (see table for higher altitudes).

STANDARD				AREA A & B FOUNDATIONS UPTO 200m ASL			AREA AB & C FOUNDATIONS UPTO 350m ASL			
Area	Max Basic Mean Hourly Windspeed	Height above sea level for foundation design	Site mean wind speed	Actual wind velocity	Height above sea level for foundation design	Site mean wind speed	Actual wind velocity	Height above sea level for foundation design	Site mean wind speed	Actual wind velocity
А	22 m/s	100m	24.2 m/s	41.8 m/s (93 mph)	200m	26.4 m/s	45.6 m/s (102 mph)	350m	29.7 m/s	51.4 m/s (115 mph)
В	24 m/s	100m	26.4 m/s	45.6 m/s (102 mph)	200m	28.8 m/s	50 m/s (111 mph)	350m	32.4 m/s	56 m/s (125 mph)
С	25 m/s	150m	28.8 m/s	50 m/s (111 mph)	N/A	N/A	N/A	350m	33.75 m/s	58.3 m/s (130 mph)
D	27 m/s	250m	33.75 m/s	58.3 m/s (130 mph)	N/A	N/A	N/A	N/A	N/A	N/A

### International windspeed conversions

Our standard designs are based on a mean hourly wind speed of 28.8 m/s (metres per second). This table shows the conversion from this mean hourly wind speed, to other internationally recognised wind speed measurements. Conversions are taken from the International Code Council 'International Building Code'.

Mean Hourly	3 Sec Gust	10 Min Average	Fastest Mile
28.8 m/s	43.6 m/s	30.1 m/s	34.9 m/s
64.4 mph	97.5 mph	67.3 mph	78 mph
104.4 kph	158 kph	109 kph	126 kph

The actual wind velocity for a 28.8 m/s mean hourly wind speed = 50 m/s, 111 mph, 180 kph.

### Specific site location foundation sizes

We can specify a more accurate foundation size for specific site locations. Foundations sizes shown in product tables are for the max allowable head load and for the highest windspeed for the Area A,B,C or D (for instance, the centre of London has a mean wind speed of 22.05 m/s rather than the 24.2 m/s we use for area A in general). Given a specific site location and maximum equipment load that will be employed, we can provide an ideal foundation size that will be the minimum required for the site. This can save on civils costs and also help when there are site restrictions for foundation size.

### Foundation design service

For all products, we can provide specific foundation designs, for site conditions that do not comply with our standard designs. We are happy to provide guidance and pricing on request.

## Equipment weight

The actual weight of the camera equipment does not significantly affect the foundation size, so for fixed, non-tilting products weight is not an issue. The weight of equipment is only relevant for tilt-down products, where the camera equipment weight needs to be lowered using the winch and winch cable. Weight then is then very important on tilt-down products, so as not to overload the winch and cable mechanism, so for tilt-down products the stated 'max equip weight' should not be exceeded.

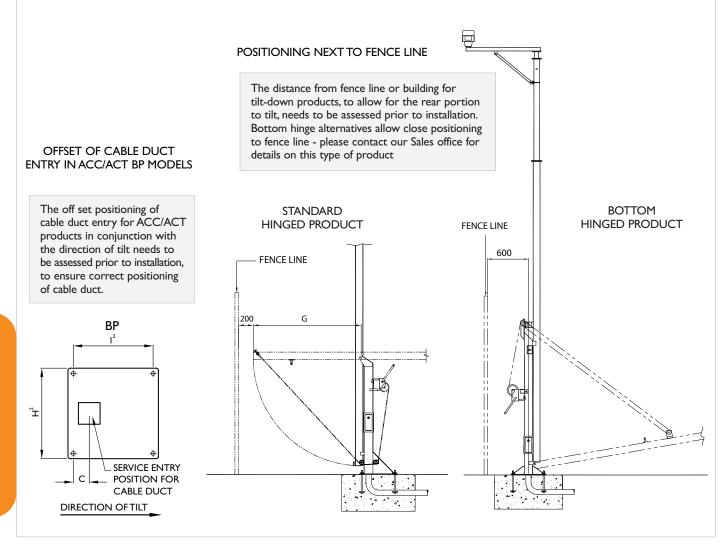
### Off-set loads

Off-set loads on fixed poles/ towers/ columns, typically produced by using one of our PMB or POB mounting brackets, are not a significant, other than the fact that an off-set load increases the deflection of the structure and the movement of the camera monitor image. Offset loads will also increase the stress on the structure, so even though most Altron poles, towers and columns have plenty of capacity for increased stress, some do not, so it is important to consult with us when anything more than a relatively small offset (600mm) is being used. Towers do not like to be twisted, so a pole is much better for an offset load then a tower, but a larger diameter pole will be needed to keep deflection to a minimum.

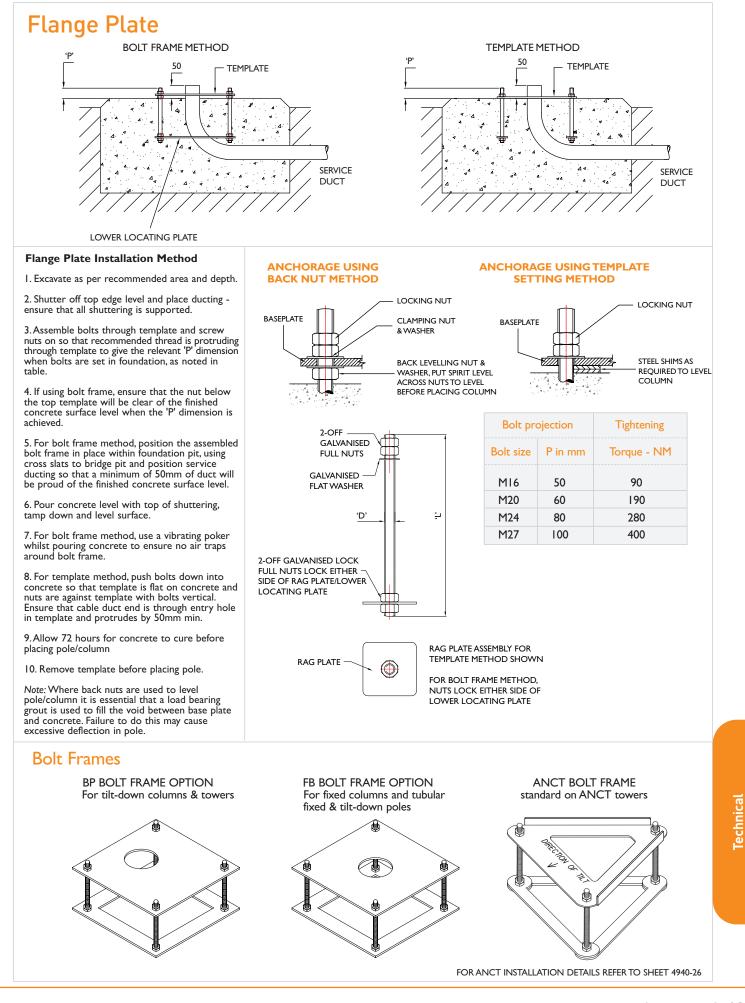
Offset loads on tilt-down products are not so desirable, unless in line with the direction of tilt, or if they are balanced (an equal load either side so when tilting the product, it is balanced). If the off-set load is not balanced, then this produces a side load at the hinge point, which can cause the hinge to bind, overloading the winch mechanism and is also a force that the hinge is not designed to take. We therefore recommend that a side load on a tilt-down product is only in line with the direction of tilt, or equal either side, so a balanced load.

### **Positioning Foundations**

The following factors should be considered when assessing the location of a foundation in accordance with the type of product being used.



## Installation Methods $\leftarrow$



## $\rightarrow$ Installation Methods

#### PM Method for columns and towers

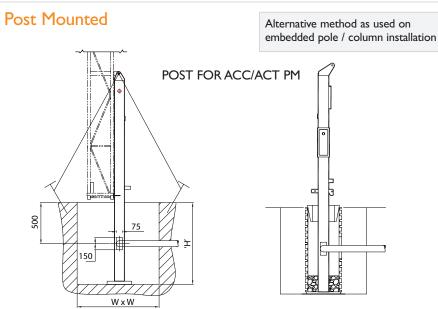
- I. Excavate as per recommended area and depth.
- 2. Shutter off top edge level and place ducting - ensure that all shuttering is supported.
- 3. Place 100mm of hardcore (paving slab) under post.
- 4. Guy from top of post with 3-4 stakes and guy ropes.
- 5. Plumb level post by adjusting guy ropes position ducting as required, ensuring it is supported sufficiently.
- 6. Pour concrete and check post for plumb.
- 7. Allow 72 hours for concrete to cure.
- 8. Remove guys and stakes.
- 9. Fix tower to post.

#### Embedded base installation method

- I. Excavate as per recommended area and depth
- Set socket into excavated pit on 2no 1 inch 2. thick slabs or suitable hardcore
- 3. Ensure socket verticality and that it is supported centrally.
- Position service duct so that 100mm enters 4 the socket, ensuring correct orientation with service entry point on pole.
- 5. Pour concrete on the outside of the pipe and fill pit to just below the top level of the socket.
- Allow to cure for minimum of 72 hours 6
- Lower pole into socket and support in position for operations 8-11 7.
- 8 Fill hardcore and sand around the base of the pole to a depth of approx 150mm
- of the pole to a deput of approx roomin
  9. Pack this down so that it is well compressed
  10. Select timber wedges and wedge pole in 3 places ensuring pole is vertical
  11. For poles up to 7 metres in height pour concrete into open socket. For poles over 7 metres in height use a cementitious grout instead of concrete. Use a vibrating poker to ensure no voids or air traps.
- 12. Allow 72 hours to cure
- 13. Remove wedges and fill gaps with grout

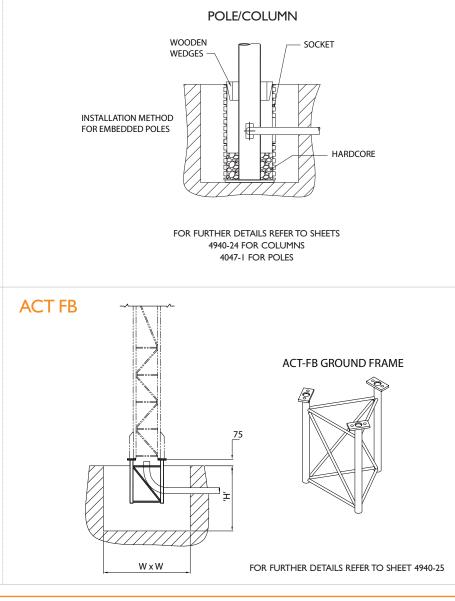
#### **FB** Method for towers

- I. Excavate as per recommended area and depth.
- 2. Shutter off top edge level and place ducting - ensure that all shuttering is supported.
- 3. Support tower ground frame in excavated base by tying wooden slat across top of frame and resting end of slat either side of base
- 4. Support slats in raised position so that top of tower ground frame is 75mm proud of base surface.
- 5. Position ducting so that it enters the base next to the required tower leg.
- 6. Level frame across the 3 No. flange ends. 7. Pour concrete and then check frame is level
- 8. Allow 72 hours for concrete to cure before placing tower.



FOR FURTHER DETAILS REFER TO SHEET 4940-36 FOR FURTHER DETAILS REFER TO SHEET 4940-23

### **Embedded Base**



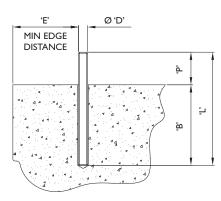
105 www.altron.co.uk

## Alternative holding down methods

## Installation of chemical anchors

For use on existing cast foundations or as an alternative to standard holding down bolts.

- o We recommend the use of chemical anchors over expanding sheath type anchors.
- o We can supply the chemical anchors shown below ex stock.
- o For full details on chemical anchors and installation method please contact our Sales team.



ØD	Р	В	B L		E
M16	65	125	125 190		170
M20	90	170	260		220
M24	85	210	295		260
M27	100	240	340		300
		TIM	IE TO	) C	CURE
TE	MP <sup>°</sup> C	DF	۲Y	١	<b>/VET</b>
0		I5 F	IRS	30 HRS	
10		3 H	RS	6 HRS	
	20	30 M	INS		HR

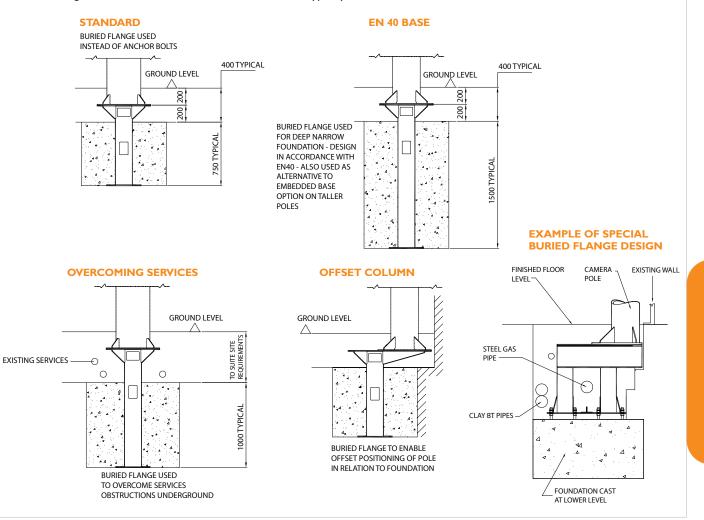
Installation method
I. Drill correct diameter and depth of hole for the stud.
2. Clean the hole using a brush and air pump.
3. Insert chemical capsule into the hole connect stud to drilling machine using an appropriate driver.
4. Offer stud to capsule and switch on machine. Drive stud into capsule to full depth. To prevent over mixing, stop rotation as soon as bottom of hole is reached. Leave undisturbed until resin has set.
5 Position baseplate and tighten to recommended torque

5. Position baseplate and tighten to recommended torque.

To ensure correct installation of chemical anchor bolts an experienced contractor should be employed.

## Buried flange members

o Where underground services restrict the possible location of the foundation/ camera position, buried Flange Members can often overcome congestion & provide a solution. Buried flange members can also be used as an alternative to other standard holding down methods and also to acheive installations typically outlined below, where other methods are not suitable.



echnical

All products in this brochure are manufactured to the following standards.

### Design

#### **Poles**

Windloading and structural design in accordance with ILE TR7 (the Institute of Lighting Engineers' Technical Report Number 7 high masts for lighting and CCTV 2000 edition). Design analysis is carried out using a specialist software package in accordance with ILE TR7, BS6399 and BS8100. We also produce designs in accordance with EN40/BS5649 and BD94/07 (Highways structures design : Design of minor structures)

#### **Towers**

Windloading and structural design is carried out using our specialist software package in accordance with BS8100 PT1, 'Code of practice for loading' and BS8100 PT3, 'Code of practice for strength assessment of members of lattice towers and masts', and fully complies with May 2005 amendment for increased windloading upon structures up to 10 metres above ground level.

#### Foundations

As standard in accordance with BS8004 for a safety factor better than 2:1. We can design to BD94/07 for highways and BSEN40 where required, for planted/direct burial foundations.

### **Material and Finishing**

- Structural steel hollow sections EN10219 EN10025:2004
- Steel flat angles and structural sections EN10025, EN10111, EN 10130
- Stainless steel sections Grade 304,316
- Aluminium section Grade 6082
- Foundation bolts Grade 4.6 spun galvanised BS4190, BS3692, DIN931, 934, 601
- Fixings: stainless steel Grade A2, galvanised Grade 4.6 Grade 8.8
   BS4190, BS3692, DIN 931, 934, 601
- Hot dipped galvanising after fabrication to ISO 1461
- Painting in BS and RAL colours in accordance with BS4800

### Manufacturing

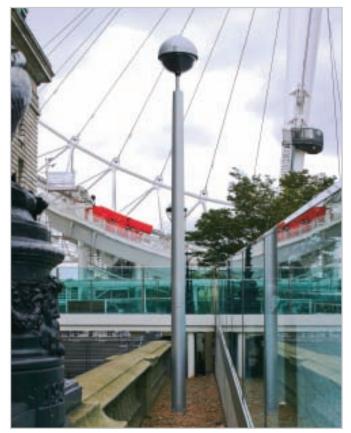
- Welding Procedures conform with BSEN 1011: 1998, BSEN 287
- Testing procedures for welders where applicable to BSEN 15614

### Winches

- Wire ropes to BS183/5281
- Winches conform with American ASAE standard S361.IT.



AW 1545 with dual lighting arm



Stainless steel pole London Eye

# Gallery $\leftarrow$



AW1545/6TD/BAS



AW1934/4/LHT



AWI545/12 Marble Arch

## $\rightarrow$ Gallery



AW1859/4



6m cantilever pole with 5m arm



Stainless steel tubular pole Wembley







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