



Topper pan & tilt



- |                                       |   |
|---------------------------------------|---|
| Strong lightweight construction       | Dual process heat treated gravity die cast aluminium casing                   |
| Highly reliable with minimal backlash | Precision turned and milled internal components with ball races on major axes |
| Built to last                         | Stainless steel fastenings  |
| Weatherproof                          | 'O' rings and lip seals. IP rating 68   |
| Long operational life                 | Maintenance free, two year warranty   |
| Easy to install                       | Simple external limit switch adjustment to 360 degrees travel                 |
| Universal mounting plate              | Suitable for all housings   |
| Continuous rotation option            | Installation flexibility with quickest route to preset                        |
| Corrosion resistant finish            | Colour options available  |
| Regenerative braking                  | Aids rapid deceleration   |

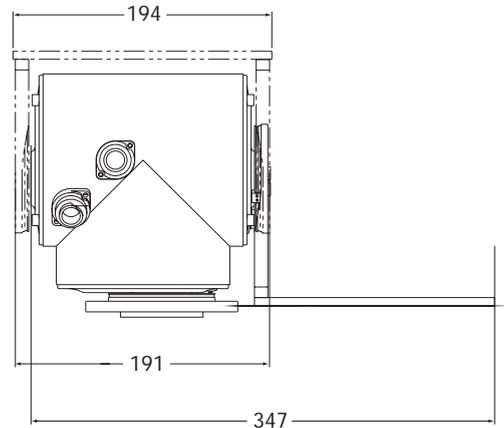
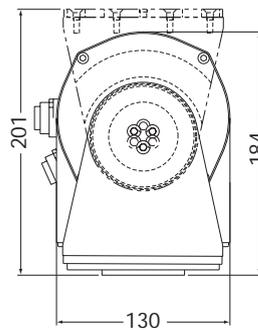
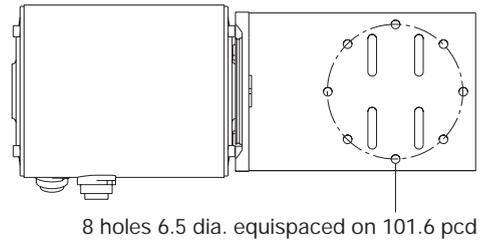
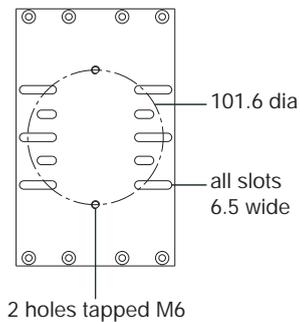




## Topper pan & tilt

The topper range of pan and tilt heads consists of 230/24 V AC and 24 V DC units in both over the top and side mount configurations. The units are extremely compact, externally robust and aesthetically designed to an IP68 rating providing a rugged and stable mobile camera platform for use in most CCTV applications.

A fresh design approach has introduced a simple but effective limit switch facility and larger bearings with a broader spread to allow a much higher load capacity on side arm configurations. The gearbox has been designed to provide higher gear ratios which give lower speeds without costly modifications.



<b>Dimensions (mm nominal)</b>		Side mount	Over the top
Height		184	201
Width to platform face		183	183
Width to platform outer edge		347	N/A
Depth (without plugs)		130	130
<b>Weight (kg)</b>		< 6	< 6
<b>Fixing centres</b>	Base	4 holes tapped M6 on 4" (101.6) PCD plus 4 holes 6.35 Dia on 4" (101.6) PCD	
	Platform	4 holes 6.5mm dia. on 101.6mm (4") PCD/square 4 holes 6.35mm dia. on 101.6mm (4") PCD/diamond 4 slots, 6.35mm wide x 30mm long in pairs In line with camera axis	
<b>Voltages</b>		12, 24V DC, nominal, 24V AC, 110V AC, 240V AC	
<b>Speeds (°/sec)</b>		<b>AC</b>	<b>DC</b>
	Pan	3, 6, 12	12, 32, 48, 58
	Tilt	3, 6	12
<b>Capacity</b>		25 kg in side mounting configuration, any speed 16 kg in over the top configuration with lower speed gearboxes i.e. 32°/sec pan/12°/sec tilt	
<b>Operational Angles (°)</b>		Pan	Tilt
	Side Mount	360	±180
Over the Top	360	-90 to +25	
<b>Backlash</b>		Less than 0.15°	
<b>Control cable</b>		Mating connectors supplied	
<b>Wiring &amp; connectors</b>		Pre-made cables can be supplied if required	
<b>Recommended cable</b>		16/0.2 (rated at 230v for AC version)	
<b>House colour</b>		Goose Grey, Textured, Semi Gloss (BS4800 00 A05)	
<b>Maintenance</b>		None required	
<b>Temp. range (°C)</b>		-20 to +50 Heater available	



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