

HYDRA™ 1000

Ruggedized IP PTZ Surveillance Platform

FEATURES

- Single and dual camera enclosures
- Supports a wide range of cameras including visual and thermal
- Outstanding positional accuracy and repeatability
- Continuous rotation in both pan and tilt*
- Intelligent infra-red and white light illuminator option
- Flat window with wiper



Designed for Operation in Harsh Environments

Designed from the outset to support operation in harsh environments, the Hydra 1000 Series surveillance platform uses state-of-the-art technology to deliver best-in-class performance in extreme environments and adverse weather conditions.

Available as a single-camera platform, the Hydra Uno, and a two camera variant, the Hydra Duo, the Hydra 1000 series achieves outstanding and ultra-reliable performance in an immensely rugged housing, manufactured from die-cast aluminium.

Each axis is driven directly without intermediate belts or gears by Overview's unique Servotorq™ Integrated Servo Motors to give a previously unattainable level of positional accuracy, repeatability, wide dynamic speed range and smoothness – this results in military performance at a commercial cost, with very long life, leading to low cost of ownership.

The Hydra 1000 series is highly flexible, accommodating a wide range of visual and thermal IP cameras. The integral intelligent illuminator covers at least 150m, and rotation is continuous in both pan and tilt*.



Hydra 1000 Uno with infra-red & white light illuminator option

Model Code:	Model Description:
OVU00254AA	Hydra 1000 Uno HD-IP 30X (Grey-white)
OVU00254AB	Hydra 1000 Uno HD-IP 30X (Black)
OVU00256AA	Hydra 1000 Uno HD-IP 30X LED (Grey-white)
OVU00256AB	Hydra 1000 Uno HD-IP 30X LED (Black)
OVU10023AA	Hydra 1000 Duo HD-IP 30X, SD 25Hz IR 13mm (Grey-white)
OVU10023AB	Hydra 1000 Duo HD-IP 30X, SD 25Hz IR 13mm (Black)
OVU20011AA	Hydra 1000 Duo HD-IP 30X, SD 25Hz IR 13mm LED (Grey-white)
OVU20011AB	Hydra 1000 Duo HD-IP 30X, SD 25Hz IR 13mm LED (Black)

Technical Specifications

Mechanical	Uno	Duo
Construction	Highly rugged construction in die-cast aluminium	
Pan and Tilt Speed	0.05° to 360°/sec (both axes)	
Pan Range	360° continuous rotation	360° continuous rotation
Tilt Range*	360° continuous rotation	180° (+/-90°) limited in software – continuous option
Preset Positions	250 with repeatable accuracy better than 0.01°	
Tours	16 preset tours	
On-Screen Display (OSD)	Time, date and title display	
Operating Voltage	48VDC (supplied by Control Box from 110 - 240VAC input)	
Power Consumption	6.5 Watts with no lights, 20.6 Watts with lights operating. 79.2 Watts maximum power with all auxiliaries and maximum load on motors	10.5 Watts with no lights, 25 Watts with lights operating. 85 Watts maximum power with all auxiliaries and maximum load on motors
Operating Temperature	-20°C to 60°C	
Enclosure	Die-cast aluminium, colour RAL9002 & RAL9005 (or to meet customer's requirement). Scratch resistant windows to support thermal imager and visible light cameras .	
Wiper	Yes	
IP Rating	IP68	
Dimensions (LxWxH)	Without lights = 265mm x 180mm x 357mm With lights = 275mm x 180mm x 368mm	Without lights = 283mm x 198mm x 363mm With lights = 287mm x 198mm x 369mm
Weight	6.8kg without lights / 7.1kg with LED lights	7.3kg without lights / 7.6kg with LED lights
Shipping Dimensions (LxWxH)	400mm x 250mm x 500mm	
Shipping Weight	9kg	10kg

IP Camera Options**	
Daylight Camera	HD colour day/night
Sensor	2.1 megapixel 1/2.8" CMOS
Resolution	1920 x 1080 pixels @ 25 fps
Scanning Systems	Progressive scan
Min. Illumination	Colour: 0.05 Lux B/W: 0.01 Lux - Automatic Gain Control (AGC) on, f/1.6
S/N Ratio	52dB AGC off
Infrared Cut Removal (ICR)	Auto or Manual
Wide Dynamic Range (WDR)	Yes
Digital Noise Reduction (DNR)	3D
Frames Per Second (FPS)	25
Lens	30x optical zoom, Focal length: 4.3mm to 129mm, f/1.6 to f/5.0
Horizontal Field of View	65.1° - 2.34° Dependant on zoom level
Auto Focus	Yes
Exposure Mode	Auto/Manual
Privacy Mode	Yes
Back Light Compensation (BLC)	On or Off

Compatibility	
Protocol	Name
RS-485	Overview, BBV485, Pelco P, Pelco D, Samsung SCC-3000, Sensormatic, CBC C-Dome, Forward Vision MICI300, VCL, Vicon
IP	ONVIF profile S and G. IP video stream available from thermal camera via an additional optional encoder fitted in the control box.

Certifications & Approvals - Standards	
IP68 – IEC60529	Salt spray IEC60068-2-52:1996 severity Level 1
FCC part 15	Vibration IEC60068-2-6
IK10 – EN62262	Shock IEC60068-2-7
CE-EN50130-4, EN61000-3-2 & 3-3, EN55022, EN60950-1	

Note: Specifications subject to change without notice.

IP Thermal Imager Options**		
	Standard Resolution	High Resolution
Array Size	336 x 256 pixels	640 x 512 pixels
Detector	Uncooled VOx micro bolometer	
Pixel Pitch	17µm	
Sensitivity @ f/1.0	50mK	
Spectral Response	7.5µm - 13.5µm	
Frame rate (model depend.)	8.3Hz PAL, 7.5Hz NTSC; 25Hz PAL, 30Hz NTSC	
Colour Palette	Yes	
Shutter	Auto or Manual trigger	
Digital Zoom	Yes	

Accessories	
Model No.:	Model Description:
OVU10005AA	Hydra Wall Mount Bracket Kit (Grey-white)
OVU10005AB	Hydra Wall Mount Bracket Kit (Black)
OVU10006AA	Hydra Column Mount Kit (Grey-white)
OVU10006AA	Hydra Column Mount Kit (Black)
OVU10007AA	Hydra Swan Neck Bracket Kit (Grey-white)
OVU10007AB	Hydra Swan Neck Bracket Kit (Black)
OVU10009AA	Hydra Pole Mount Kit (Grey-white)
OVU10009AB	Hydra Pole Mount Kit (Black)
OVU10008AA	Hydra Corner Mount Kit (Grey-white)
OVU10008AB	Hydra Corner Mount Kit (Black)
OVU10010	Hydra Control Box Uno
OVU10011	Hydra Control Box Duo
OVU00259	Hydra 2.5 Metre Umbilical Cable
OVU00260	Hydra 5 Metre Umbilical Cable
OVU00261	Hydra 7.5 Metre Umbilical Cable
OVU00262	Hydra 10 Metre Umbilical Cable
OVC00101	Hydra 30 Metre Umbilical Cable

European Community Registered Design

Numbers: 3153378-0001; 3153378-0002; 3153378-0003

**Hydra Uno and Duo can be configured to support a range of visual camera and thermal imager options. Examples are shown above.