

Product datasheet

Hydra Duo™ rugged PTZ camera platform

Rugged dual head PTZ platform designed for operation in harsh environments.



Key features

- Dual camera enclosure
- Die-cast aluminium housing
- IP68
- Direct drive, no backlash
- Overview digital servo pan and tilt drive
- Outstanding accuracy and dynamic range
- Continuous rotation in both pan and tilt
- Supports wide range of cameras
- Optional infra-red and white light illumination
- Flat window with wiper
- ONVIF conformant

Description

Designed from the outset to support operation in harsh environments, Hydra Duo uses technology new to the CCTV industry. Hydra Duo 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 iBLDC digital servo drives to give a previously unattainable level of positional accuracy, repeatability, wide dynamic range and smoothness – this results in military performance at commercial cost, with very long life leading to low cost of ownership.

Hydra Duo is a highly flexible platform accommodating a very wide range of analogue, HD and IP cameras with up to 40x zoom, as well as a wide range of Overview thermal cameras. The integral adaptive illuminator covers at least 150m, and rotation is continuous in both pan and tilt.

Technical Summary – Hydra Duo™

Mechanical	
Construction	Ruggedized construction in die-cast aluminium
Pan and tilt manual control speed	0.05 degree to 180 degrees/sec (both axes)
Pan and tilt movement	360 degrees continuous rotation in both axis
Preset positions	250 with repeatable accuracy of >0.01°
Tours	100 preset tours and 8 mimic tours
Alarm I/O	8 alarm in 1 alarm out (optional)
OSD	Time, date and title display
Operating voltage	48VDC
Power consumption	TBC
Operating temperature	-10° C to 60° C (standard) -40° C to 60° C (low temperature option) 90% humidity (maximum)
Enclosure	Die-cast aluminium, colour RAL9002, or to meet customer's requirements, a range of scratch resistant windows to support thermal imager and visible light cameras.
Wiper	Yes
IP Rating	IP68
Dimension H x W x D	360 x 265 x 180mm
Weight	7.5kgs with LED lights
Shipping dimensions H x W x D	275 x 500 x 400
Shipping weight	10Kg

Camera Options

Hydra Duo can be configured to support a range of camera options, examples are:

Daylight Camera	HD colour day/night	SD analogue colour day/night
Sensor	2.1 megapixel 1/2.8" CMOS	¼" Super HAD II CCD
Resolution	1920 x 1080p @ 25fps	670TVL
Scanning system	Progressive scan	Progressive scan
Minimum Illumination	Colour: 0.5 Lux B/W: 0.01 Lux ICR on	Colour: 0.6 Lux B/W: 0.01 Lux ICR on
S/N ratio	52dB	50dB
ICR	Auto/manual	Auto/manual
WDR	Yes	Yes
DNR	3D	2D and 3D
Lens	30:1, f = 4.3 to 129mm, F1.6 to F5.0	40:1, f = 3.06 to 122.4mm, F1.6 to F4.6
Angle of view - horizontal	65.1-2.34°	60.0° to 1.6°
Auto focus	Yes	Yes
Exposure mode	Auto/manual	Auto/manual
Privacy masking	Yes	Yes
BLC	On/off	On/off

Thermal Imager	Standard resolution		High resolution
Array Size - pixels	384 x 288		640 x 480
Detector	Uncooled silicon micro bolometer		Uncooled silicon micro bolometer
Pixel pitch	17µm		17µm
Sensitivity @ 20°C ambient	70mK	50mK	70mK or 50mK (model dependant)
Spectral response	8µm -14µm	8µm -14µm	8µm -14µm
Frame rate (model dependant)	8.3Hz PAL,7.5Hz NTSC 25Hz PAL, 30Hz NTSC		8.3Hz PAL,7.5Hz NTSC 25Hz PAL, 30Hz NTSC
Colour palette	18 palettes		18 palettes
Shutter	Auto or manual Manual trigger		Auto or manual Manual trigger
Digital zoom	Yes		Yes
Lens	Range of lenses		Range of lenses

Encoder Options

Encoder	FHD - IP	SD - IP
Video compression	H.264	H.264, JPEG
Encoder output	1080p and D1	D1, 4CIF, 2CIF
FPS	25	25
Number of streams	3	3
Protocol	TCP/IP, HTTP, DCHP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP, UPnP, SNMP, FTP, QoS, HTTPS, IPv6	TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTCP, RTP/UDP, FTP, RTP/TCP, SMTP, DNS, UPnP, SMTP, IGMP, DHCP, DDNS, SNMP.
Security	Password protected	Password protected
ONVIF	Yes	Yes

Certification and approval

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

Note: Data sheet may change without notice

European Community Registered Design

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