

# Oculus IR

## Rugged Pan/Tilt Camera with IR Illumination

Now with  
100 metre  
illumination



**Building upon the solid foundations of the highly successful Oculus range, the Oculus IR adds integral infra-red illumination to the ever-widening list of range variants.**

The genius of Oculus IR is that the infra-red illumination moves in every direction with the camera. This allows the illumination spread and intensity to be finely matched, thus freeing you from the need to flood an entire area with unnecessary IR lighting. The use of multiple LED infra-red emitter technology ensures long life, low power, low heat generation and sufficient brightness to provide up to a 100 metre usable throw.

As with all Oculus units, everything is fully housed within a hard anodised aluminium casing, fully rated to IP67 and ready to handle the harshest environments. The toughened, optically flat glass provides clear images, even at the highest zoom levels and can be kept clean at all times by the compact wiper unit. An optional washer kit provides an even higher level of cleaning for the dirtiest deployments.

Optical encoders for both the pan and tilt axes provide highly accurate positioning and repeatability, allied with self-correction systems that will counteract any external interference with the moving head.

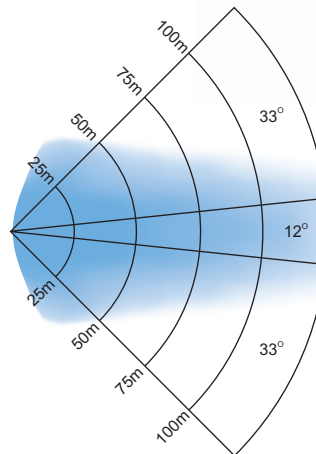
The Oculus IR can be mounted upright or inverted and the yoke can be offset to eliminate blindspots through a full 360 degrees of rotation. Mounting accessories are available to suit standard mounting platforms, including 4" PCD.

The Oculus IR is available with a range of high resolution day/night Sony zoom camera modules to suit your installation.



### Key features

- Vandal resistant
- Day/night operation
- Highly efficient, low power IR illumination
- LED IR technology for long life and low cost
- 18x, 28x and 36x optical zoom options
- Flat, toughened glass window
- Protected to IP67
- Built-in camera lens wiper
- Presets, tours and privacy masking
- Multiple control protocols



Infra-red illumination  
range chart

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## Camera Modules

Manufacturer	Sony	Sony	Sony
Optical Zoom	18x	28x	36x
Digital Enlargement	12x (216x combined)	12x	12x (432x combined)
Image Sensor	1/4" EXview CCD	1/4" EXview CCD	1/4" EXview CCD
Resolution	520TVL	550TVL	520TVL
Signal System	PAL	PAL (NTSC on request)	PAL
S/N ratio	More than 50dB	50dB	More than 50 dB
Gain	Gain Auto, Manual, (-3 to 28dB, 2dB steps)	Gain Auto, Manual, (-3 to 28dB, 2dB steps)	Gain Auto, Manual, (-3 to 28dB, 2dB steps)
Exposure control	Auto, Manual	Auto, Manual	Auto, Manual
White balance modes	Auto, ATW, Indoor, Outdoor, One-push, Manual	Auto, ATW, Indoor, Outdoor, One-push, Manual	Auto, ATW, Indoor, Outdoor, One-push, Manual
Lens (wide to tele)	f=4.1mm to 73.8mm F1.4 to F3.0	F=3.5mm to 98.00mm f1.35-3.7	f=3.4mm to 122.4mm F1.6 to F4.5
Angle of view - horizontal	48 (W) to 2.80 (T)	55.8 (W) to 2.1 (T)	58 (W) to 1.70 (T)
Min. working distance	290mm (W) to 800mm (T)	10mm (W) 1500mm (T)	320mm (W) to 1500mm (T)
Minimum illumination (50IRE)	Day mode (colour): 0.7 lux typical Night mode (mono): 0.1 lux typical	0.65 Day mode 0.005 Night mode	Day mode (colour): 1.4 lux typical Night mode (mono): 0.1 lux typical
Electronic shutter	1/1 to 1/10000s	1/4 to 10000 sec (20sec)	1/1 to 1/10000s
Video Output	VBS: 1.0 Vp-p (sync negative)	VBS: 1.0 Vp-p (sync negative)	VBS: 1.0 Vp-p (sync negative)

## Mechanical specifications

Pan rotation limit / speed	360° continuous / 180° per second (excluding ramping)
Tilt rotation limit / speed	120° / 180° per second (excluding ramping)
Mounting	Upright or inverted
Pan/tilt bearings	Sealed for life - no maintenance required
Motor drive	Long life toothed polypropylene belt drive Pulleys bonded to keypad shafts for minimum backlash
Environmental rating	IP67
Operating temperature range	-20°C to +50°C
Supplied mounting	4" PCD mount
Connection lead	IP67 multi-way connector with 10m composite lead

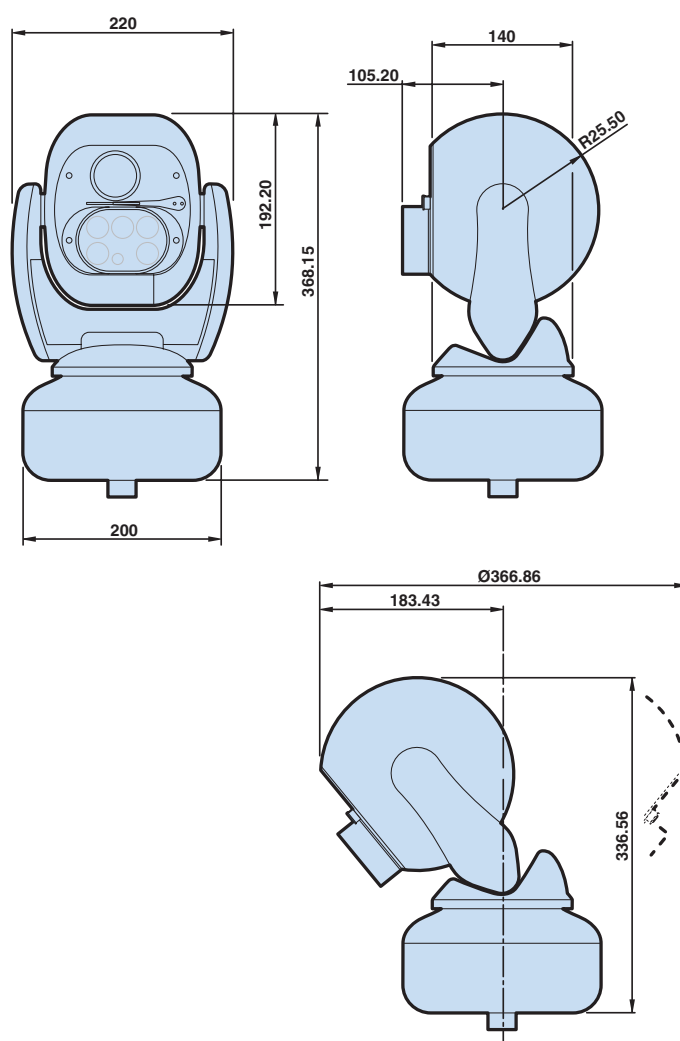
## Electrical, electronic and software specifications

Optical encoder preset accuracy	0.01°
Rotational contacts	Heavy duty slip rings for power, data, video, switching for washer plus bonded earth for lightning protection
Position control	Capable of retaining position without drift Automatic position recovery if forced away by a "non-control" intervention
Roll around mode	Auto 180° pan spin when tilt reaches end of travel while following subjects
Preset memories	32 PTZ positions, 16 tours, 4 one-minute mimic tours, wash position, Up to 24 privacy zones, 4 concurrent
Configuration	Via on screen menus
Communications	Robust RS485 half duplex data comms with absolute positioning output Coaxial telemetry
Supported protocols	360-Vision C-Dome, BBV Serial485, CBC OCP485, DeVision VTC485, Forward Vision FV Mic1-300, Ikegami I-LAN & RS485, Kalatel DP, Pelco D2400, Pelco P4800 & P9600, Philips 2400 & 9600, Samsung SCC2000 & SCC3000, Sensormatic, Ultrak/Honeywell Diamond, VCL, Baxall DC FSK-Standard
Power requirements	At Oculus unit: 20 to 36VDC or 14 to 26VAC, 50W peak Supplied PSU requires 230VAC
Additional details	In-built real-time clock to support configurable alarm events and actions Switch to IR mode via external input (via alarm card)

## Product codes

	Camera Only	Kitted Camera
Oculus IR with 18x zoom Sony camera - black or white finish	D3-50F18100	RC3-50F18100
Oculus IR with 36x zoom Sony camera - black or white finish	D3-50D36100	RC3-50D36100
Oculus IR with 28x zoom Sony camera - black or white finish	D3-50B28100	RC3-50B28100

## Dimensions



Specifications may be subject to change without notice • DN091104 - 1.4a • © February 2012

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