OCULUS

OCULUS Searcher

Rugged pan/tilt unit with dual HD/SD video and thermal modules

The Oculus Searcher is the perfect solution for mid-range surveillance applications, providing the best performance available within a rugged pan and tilt casing of this size.

The Oculus Searcher employs DRS' proven un-cooled high resolution 640 x 480 (DB), 17µm VOx thermal imaging technologies to provide man detection up to 2.1 kilometres. The thermal uses ICE to enhance contrast and features continuous digital zoom. All models also offer simultaneous video verification provided by a 36x zoom module or 30x HD zoom module.

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. 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 Searcher 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.

Key features

- HD and SD video option
- ICE Image enhancement technology
- Industry leading 17µm thermal technology
- Simultaneous video and thermal outputs
- Man detection up to 2.1km
- IP and HD-SDI option
- Optical encoders for accurate positioning and repeatability
- Protected to IP67 (IP68 option)
- 316L Stainless steel option
- Built-in camera lens wiper as standard
- Preset, tours and privacy masking
- Multiple mounting options
- Optional heater for reliable operation down to -40°C







Tamarisk® Image enhancement selections



The Silent Sentinel Range

Silent Sentinel offer an extensive range of camera and lens configurations to meet your exact surveillance requirements.

Contact customer service for more information on our full range of products and bespoke design and build services.

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OCULUS Oculus standard and HD video range

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Video type	SD	HD
Optical zoom	Збх	30x
Digital Enlargement	12x (432x combined)	12x (360x with optical zoom)
Image Sensors	1/4" Exview CCD	1/2.8" type Exmor CMOS sensor
Resolution	530TVL	Approx 3.27 million
Signal System	PAL	HD: 1080p/SD:NTSC/PAL
Lens (wide to tele)	F=3.4mm to 122mm F1.6 to F4.5	f=4.3mm to 129.0mm, F1.6 to F4.7
Angle of view - horizontal	58.° (W) to 1.7° (T)	54.1° (W) to 2.9° (T)
Minimum illumination (50IRE)	1.4 lux Colour, 0.01 lux Mono	1.7 lux, 0.5 lux in High Sens Mode
Video output	Composite	Digital/IP

Mechanical specifications

Construction	Die-cast hard anodised, powder coated aluminium with A4 stainless fittings		
Turning diameter Height Height with adaptor	Normal 220mm / 8.66" 370mm / 14.57" 500mm / 19.68"	Offset 370mm / 14.57" 340mm / 13.86" 470mm / 18.50"	
Pan rotation limit / speed Tilt rotation limit / speed	360° continuous / 180° per +90° to -30° upright (-68° i 180° per second (excluding	second (excluding ramping) nclined) +30° to -90° inverted ramping)	
Weight (with adaptor)	7Kg (8Kg) 15.43lb (17.63lb)		
Mounting profile	Upright / Inverted / Offset		
Pan/tilt bearings	Sealed for life – no mainter	nance required	
Motor drive	Long life toothed polypropy Pulleys bonded to keypad s	lene belt drive hafts for minimum backlash	
Environmental rating	IP67		
Operating temperature range (ambient, dry)	-20°C to +60°C (-40°C to + -4°F to +150°F (-40°F to +1	60°C with optional heater) (50°F with optional heater)	
Mounting	4" PCD mount		
Connection socket	IP67 Neptune multi-way SD	, IP67 Marine HD-SDI option and IP67 IP option	

Detection, Recognition, Identification range charts

DB Type Thermal



Dimensions (in millimeters)





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VISION & MOTION CONTROL



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ww.alavaingenieros.com **Oculus thermal range**

Video type	Thermal	
Sensor type	Uncooled V0x Microbolometer	
Pixel size	17μ	
Spectral band	8-14µm	
Thermal sensitivity	<50mK	
Array format	640x480	
Frames rates	9Hz, 25Hz	
Image control	White hot, Black hot, Invert	
Focus	Fixed, preset, Athermalised	
Zoom	E-zoom 1-4, Region of interest	
FOV	12° - 50mm f1.2	
Video Output	Composite	

Electrical, electronic and software specifications

Optical encoder preset accuracy	0.01°
Rotational contacts	Heavy duty slip rings for power, data, video, switching for washer
Position control	"Capable of retaining position without drift Automatic position recovery if forced away by a "non-control" intervention"
Roll around mode	Auto 180º pan spin when tilt reaches end of travel while following subjects
Configuration	Via on screen menus
Presets	127 + wash preset (repeatability 0.05°)
Tours	16 preset tours (maximum of 60 positions each), four 8 minute mimic tours
Privacy zones	Maximum of eight on-screen simultaneously
Communications	Coaxial or RS485 half duplex data comms with absolute positioning output
Supported protocols	Pelco-D, Pelco-P, CBC OCP485, Forward Vision Mic1 FV300, Philips, Vicon.
Power requirements	"At Oculus unit: 14 to 36VDC or 14 to 26VAC, 45W peak (100W with optional heater) Supplied PSU requires 230VAC. 12VDC support on some models"
Additional details	In-built real-time clock

Ordering Information

Product code	Product Description
RC3-PSEARCHERFB	Oculus Rugged Dome Thermal/Video Thermal 12°(50mm) 640x480 25Hz plus 36:1 Sony video, Black
RC3-PSEARCHERFW	Oculus Rugged Dome Thermal/Video Thermal 12°(50mm) 640x480 25Hz plus 36:1 Sony video, White
RC3-PSEARCHERFSS	Oculus Rugged Dome Thermal/Video Thermal 12°(50mm) 640x480 25Hz plus 36:1 Sony video, Stainless Steel
RC3-ISEARCHERFB	Oculus Rugged Dome Thermal/Video Thermal 12°(50mm) 640x480 25Hz plus HD 30:1 Sony video IP, Black
RC3-ISEARCHERFW	Oculus Rugged Dome Thermal/Video Thermal 12°(50mm) 640x480 25Hz plus HD 30:1 Sony video IP, Black
RC3-ISEARCHERFSS	Oculus Rugged Dome Thermal/Video Thermal 12°(50mm) 640x480 25Hz plus HD 30:1 Sony video IP, Stainless Steel
RC3-HSEARCHERFB	Oculus Rugged Dome Thermal/Video Thermal 12°(50mm) 640x480 25Hz plus HD 30:1 HD-SDI Sony video, Black
RC3-HSEARCHERFW	Oculus Rugged Dome Thermal/Video Thermal 12°(50mm) 640x480 25Hz plus HD 30:1 HD-SDI Sony video, Black
RC3-HSEARCHERFSS	Oculus Rugged Dome Thermal/Video Thermal 12°(50mm) 640x480 25Hz plus HD 30:1 HD-SDI Sony video, Stainless Steel



Specifications may be subject to change without notice \bullet DN010914 - 1.1c \bullet O 2014

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