



Natalus introduces cutting edge Infrared thermal imaging camera equipment to the security, surveillance and temperature monitoring .

Natalus state-of-the-art laboratories, ensure maximum performance and dependability for long range surveillance.

Several options are available for the Full HD Day camera, LRF, laser Illuminator, GPS, DMC, Motion detection and Target tracking as well.

Features



- High performance MWIR coastal and border surveillance system
- SD or HD MWIR thermal camera with zoom lens
- Full HD Day color camera with zoom lens
- SD or HD SWIR camera with zoom lens - Option
- High Precision pedestal or gimbals system with Zero back lash
- 20km LRF with CCTV reticule/laser beam boresight - Option
- Interface with GPS & DMC - Option
- Comply with MIL-STD-810G & IP66
- Comply with EMI/EMC



Housing dependant on lens and environment



Security Warehouse India Pvt. Ltd.

C-63/4, Okhla Industrial Area, Phase –II, New Delhi-110020.

sales@natalus.co.in

Specifications subject to change without prior notice

Parameter	Detail
MWIR Cooled Thermal Imaging Camera	
MWIR Sensor	InSb, Cooled detector 640 x 512 pixels, 15µm pitch, 20mK
Resolution	640 x 480 pixels
Optical Lens	Available for : 15~330mm, 36~500mm, 36~660mm, 36~740mm, 38~825mm, 60~1415mm Continuous zoom lens Cooler MTBF : more than 12,000 hours
Image enhancement	NUC, BPR, HDR, AGC, DRC, NR
Optional SWIR Camera - Penetrating fog, haze, smoke	
SWIR Sensor	0.6-1.7 (VIS-SWIR), InGaAs Detector, 15µm pitch
Resolution	640 x 512 pixels
Optical lens	Available for 100mm, 120mm, 140mm, 250mm Fixed lens, 30~300mm. 50~500mm, 100~900mm, 500-2500 Continuous zoom lens,
Full HD Day Color Camera	
Sensor	1/2" CMOS Sensor, 0.006 Lux (Color) and 0.0006 Lux (BW).
Resolution	Full HD, 1,920 x 1,080 pixels
Optical Lens	Available for 6~216mm, 10~330mm, 10~350mm 15.2~500mm, 20~720mm, 15.8~1040mm, or 31.6 ~ 2080mm Continuous zoom lens
Defog/Enhancement	De-fog, IR Corrected, Enhancement
Laser Range Finder - Option	
Type	Eye safe, up 20km, Repetition rate : 20PPM
System	
Material	Alloy-Aluminum for PT & Housing
Pan & Tilt velocity	Azimuth 0 ~60° /sec, Elevation 0 ~ 30°/sec
Pan & Tilt rotation	Azimuth : 360° continuous rotation, Elevation : +40° ~ -70° or Customizing
Torque motor	Direct driver motor, Zero back lash(option)
Payload / System weight	More than 35kg / approx.65kg
Dimension(W x D x H)	Approx.. 790mm x 790mm x 600mm (depend on lens size)
Interface	TCP/IP, RJ-45, Communication, Control, Video output, OnVif
Control protocol	Ethernet TCP/IP10/100/1000 base-T or Serial communication
Video	IP or NTSC/PAL, H.264, (MPEG-4)/AVC, JPEG.
Focus/Zoom control	Auto & Manual focus, Remote control, Digital Zoom
Anti-vibration	Resilient mount or Shock mount
Environmental	Comply with MIL-STD-810G, IP66
EMI/EMC	Comply with IEC or KC Standard
Power supply	220VAC, 60Hz

Range Performance (km) – 640 X 480 MWIR Infrared thermal imaging camera

Lens model	C330		C500		C660		C740		C825		C1075		C1415	
	Human	NATO	Human	NATO	Human	NATO	Human	NATO	Human	NATO	Human	NATO	Human	NATO
Target														
Detection	11.0	18.1	13.7	19.6	16.6	20.2	17.9	20.7	18.5	21.0	21.8	23.5	23.0	26.0
Recognition	3.6	7.5	5.2	11.1	6.7	11.9	8.0	13.8	8.5	14.0	9.8	15.5	14.7	19.2
Identification	1.7	4.2	2.5	7.5	3.5	8.4	4.2	9.2	4.7	9.9	5.7	11.0	7.3	13.0



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