

Video & Optical Systems Limited

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Thermal PTZ ROBO Camera JM612-TM

Features

- Manufactured from aluminium alloy (average 22mm)
- Pelco P/D + optional protocols available
- Resistant to small arms fire, bricks and stones, dust and water
- High strength optically flat front window (5mm)
- 360° Pan rotation, -12° - +22.4° Tilt rotation
- Built-in high resolution 36x optical zoom integrated camera
- Built-in high performance FLIR Thermal imager
- Available in black & 316 grade stainless Steel
- Meets CE & FCC/RoHS compliance
- IP66



Description

The JM612 Thermal PTZ camera, machined from 8-22mm Aluminium alloy is a perfect addition to our rugged and vandal resistant range of cameras.

It is ideal for long range applications, combining a FLIR thermal infrared imager, integrated zoom camera and a high-performance pan/tilt unit. The FLIR thermal imager is fitted with a 100mm lens to provide detection ranges of over 1600m. The operator can select black or white hot. The FLIR thermal imager has built-in sun protection that allows the camera to self-heal should it be pointed directly at the sun. The JM612 also uses unique technology in its drive, processing and display, ensuring that the image output is clear and stable.

Typical Applications

- High Security
- Search & Rescue
- Military
- Defence
- Traffic & Aviation
- Ports & Harbours

Specifications

Model	JM612-TM
Thermal Image	
Lens:	100mm
Type:	Un-Cooled Focal Plane Array (FPA)
Detector Material:	Vanadium Oxide Micro Bolometer
Picture Resolution:	320 x 240
Detection Range:	1600m for Human Detection 4400m for Vehicle Detection
Spectral Response:	7.5 to 13.5 μm
Thermal Sensitivity:	85mk atF1.6
Features:	White Hot, Black Hot & False Colour
Target Temperature Range:	-80°C-+500°C
Video Camera	
Sensor:	¼" Ex-view HAD CCD
S/N Ratio:	>50dB
Effective Pixel:	752H x 582V
Shutter Speed:	½ ~1/10,000s
Minimum Illumination:	0.01 Lux
Sync System:	Internal/External
Signal Output:	1.0Vp-p/75 Ω
Iris Control:	Auto/Manual
White Balance:	Auto/Manual
Focus Control:	Auto/Manual
Scanning System:	15.625KHz(H) 50Hz(V)
Zoom:	36:1 f = 3.4 ~ 122.4mm
Horizontal Resolution:	540TVL
Electrical	
Voltage Input:	24V ac / 24V dc (12V dc Optional)
Working Temperature:	-10°C ~ +60°C
Power Consumption:	50W
PTZ Features	
Pan Speed:	0.23°-80°/s
Tilt Speed:	0.1°-8°/s
Pre-Set Target Speed	
Pan Speed:	8°/s
Tilt Speed:	40°/s
Auto Scanning Speed:	1°-40°/s (Adjustable)
3 Scanning Model:	Auto/Apple-Peel/Pre-set Tour
Features	
Dual Image Output	
Stepper motor which ensures steady rotation, accurate position and rapid response	
Manual Control Speed For Pan:	0.1°-90°/s
Manual Control Speed For Tilt:	0.1°-40°/s
Preset Target Speed:	90°/s for pan 40°/s for Tilt
Variable Pan Auto Scan Speed:	1°-40°/s Can Be Set
Variable Apple Peel Scan Speed:	1°-40°/s for pan; 1°-20°/s for Tilt
Included	
	Built-In Wiper & Heater
	Built-In Defroster
Environmental	
Built-In Surge and Lightning Protector	

IP66
CE, ROHS, FCC Standards
Camera Features
Built-in high-resolution and high-zoom integrated camera
Backlight compensation
Wide dynamic range
Video stabilisation
Privacy zone masking function, up to 8 privacy zones
High-speed pre-set video freeze
OSD Menu Features
Built-In easy to use menu
With OSD password protect function
Edit the title of user name, camera position and pre-set position
Set, Run, Clear Pre-sets, Pre-set tours, Privacy zone by menu
Internal temperature and Pan/Tilt orientation information display
Built-In Decoder Features
Pelco P/Pelco D/VCL Protocols
Easy to use OSD menu to set the camera and Pan/Tilt parameters and functions
Thermostatically controlled, once the cameras exceed a set value, The fans will automatically activate powering on function. Users can assign the camera's movements on powering up
Proportional zoom function
On screen display option for Pan/Tilt and camera zoom
With auto scan function, the elevation angle can be set
Virtual home position can be set
Apple peel scan function
2 Pattern functions
4 Pre-set tours with adjustable dwell time
128 Pre-set positions with precision error less than +/- 0.3°
Camera orientation display function (N,NE,E,SE,S,SW,W,NW Total 8 orientations)
2 Alarm Inputs, 1 AUX output