



IP68 All Weatherproof



Thermal Imaging Camera



36x D1 Camera

THERMAL IMAGING PTZ CAMERA ULTIMATE SURVEILLANCE SOLUTION

THERMAL IMAGING CAMERA

- 720 x 480 Super Clear Video Resolution (Thermal Imaging) with patented QIET(Quality Image Enhancement Technology)
- AOZ (Advanced Optimal Zoom)
- Built-in TEC (Thermo Electric Controller)
- Direct Short Key Controls on Control Board
- Lowest NETD : 40mk

36X D1 ZOOM CAMERA

- Day&night 36x Zoom Color CCD Camera

MECHANISM

- IP68 All Weatherproof
- 1,000 Hours Salt Spraying Test Passed
- 3G Vibration Test Passed
- 360° Endless Panning / Tilting

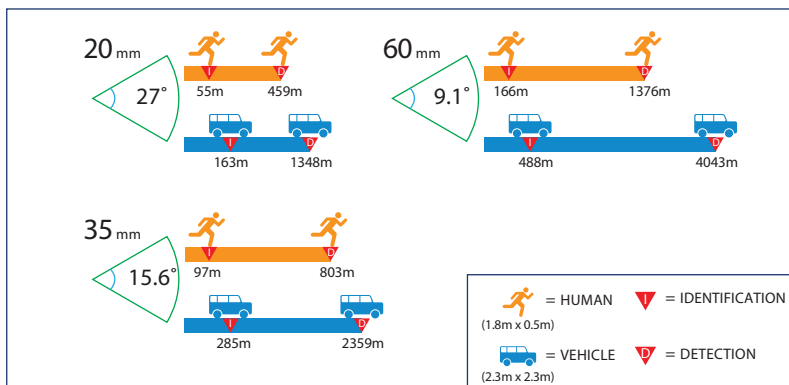


ULTIMATE SURVEILLANCE SOLUTION

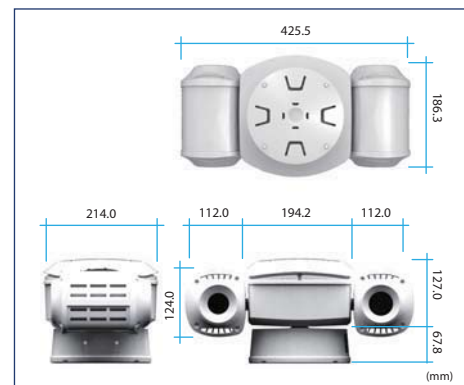
All TPV Series thermal imaging PTZ cameras are installed on a precision pan/tilt mechanism. It allows the user to rotate & tilt the camera 360° continuously to increase situational awareness in ultimate weatherproof condition. The Pan/Tilt has 165 preset positions.

All versions are equipped with a long range daylight/low light camera. The video output of the thermal imaging and daylight/low light camera are simultaneously available. The daylight camera offers an 36x optical zoom.

EXCELLENT RANGE PERFORMANCE



DIMENSIONS



SPECIFICATIONS

Model	TPV - BD
THERMAL MODULE	
SENSOR	
Thermal Sensor	Uncooled Micro Bolometer
Pixel Pitch	25µm
Wave Length	8 ~ 14µm
NETD	40mK / F1.0
Output Frequency	NTSC : 59.94Hz (30fps), PAL : 50Hz (25fps)
Resolution	720 x 480 (NTSC) / 720 x 576 (PAL)
Lens	20mm (FOV 27° x 20.4°)[Basic], 35mm (FOV 15.6° x 11.7°) / 60mm (FOV 9.1° x 6.9°)[Option]
FUNCTION	
Calibration	Auto / Manual / Interval(sec) Mode Selectable
Image Flip	Vertical, Horizontal ON / OFF
Invers Mode	ON / OFF
Freeze Mode	ON / OFF
AGC Mode	Mode : Mode (1, 2, 3, 4), OFF / ACG Level : 5 steps (x1.0, x1.5, x2.0, x2.5, x3.0)
Temperature Range Process	MIN / MAX Temperature Range Selectable
Image Mode	B/W and Three Color Modes
D-Zoom(AOZ)	x4 (15 steps)
CAMERA MODULE	
Image Sensor	1/4" Sony Exview HAD CCD
Total Image Pixels	NTSC : 811(H) x 508(V) 410K / PAL : 795(H) x 596(V) 470K
Lens	36x F=1.6~4.5, f=3.4~122.4mm (Digital : 12X / Total : 432X)
Min. Illumination	0.01Lux(B/W : ICR ON) 0.1Lux(Color : 50IRE) 1.4 Lux(DSS OFF)
Luminance S/N ratio	More than 50dB
MECHANISM	
PAN/TILT	
Pan Rotation Angle	0° ~ 360°Endless
Pan Speed	Manual : 0.1° ~ 80°/sec (64step), Preset : MAX 100°/sec
Tilt Rotation Angle	0° ~ 360°Endless
Tilt Speed	Manual : 0.1° ~ 80°/sec (64step), Preset : MAX 100°/sec
System Accuracy	0.0225°
FUNCTION	
Preset	165 positions with 16-character label available for each position with different speed steps and Freeze Preset available
Group Tour	Max. 8 Programmable Group Tours (each one consisting of up to 60 preset steps with different steps)
Auto Scan	Programmable Auto Scan
Pattern	8 Programmable Patterns (total 480 seconds)
Password Protection	Available
Video Output	CVBS : 1.0Vp-p / 75Ω , Analog CVBS Out 2Channel (Thermal, Day Light)
Alarm Input	4 Alarms (With various programmable states)
Alarm Actions	Activate preset, Group Tour, Pattern
Aux Output	2 Relay
Auto Flip	Digital Auto Flip (Angle Auto Sensing)
OSD Menu	Yes
Communication	RS-485 (Pelco-D 2400 / 4800 / 9600bps)
OTHERS	
Dimensions	425.5mm(W) x 194.8mm(H) x 214.0mm(D)
Weight	12.3Kg
Construction	Aluminum die casting
Storage Temperature	-40°C ~ +60°C
Operating Temperature	-40°C ~ 55°C (When the power in at -40°C operation start within 1 hour.)
Option	1,000 hours Saltproof
Certifications	CE, FCC, IP68
POWER	
Power Consumption	Camera Power : AC24V 2.6A 62.4W (Peak) / DC24V 1.7A 40.8W (Peak) Heater Power : AC / DC 24V 3.4A 81.6W (Peak)
Power Supply	AC24V 50/60Hz 5A / DC24 5A

FEATURES

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- Built-in TEC (Thermo Electric Controller)
- Direct Short Key Controls on Control Board
- Lowest NETD : 40mK
- Day&night 36x Zoom Color CCD Camera
- IP68 All Weatherproof
- 1,000 Hours Salt Spraying Test Passed (Optional)
- 3G Vibration Test Passed
- 360° Endless Panning / Tilting

VARIOUS COLOR SETS

