

DUALSEC™ PTZ

Day & Night Observation Head



Description

DUALSEC™ PTZ is a powerful around the clock, day and night multi sensor observation head, especially developed for security applications. System provides 360° horizontal and +30/-90° vertically superb situational awareness with medium range observation and detection while the CCD enables identification.

Using state of the art thermal imaging and Sony CCD technology, DUALSEC™ PTZ includes Opgal's uncooled dual field of view (45mm \ 135mm) thermal imaging camera for day and night operation.

The narrow field-of view allow you to detect objects, the size of a human being, more than 2 km away, in total darkness, through smoke, light fog and in the most adverse weather conditions. DUALSEC™ PTZ is ruggedized to withstand the harshest weather and environmental conditions, including rain, direct sunlight, high humidity and dust.

Applications

Ideal for perimeter surveillance and protection of national boards, airports, pipelines, oil terminals, power stations, industrial facilities and other sensitive sites.

DUALSEC™ PTZ is very effective for securing large open areas. protects during day and night on people and assets before they are exposed to danger.

Features & Benefits

- Thermal camera with resolution of 320X240 or 640X480
- Auto focus thermal imaging Dual FOV 45/135mm
- CCD 36x optical zoom with continuous digital zoom 12x
- Automatic focus
- Cameras sealed proof for water, sand and dust
- Ethernet TCP/IP control link
- Easy installation and maintenance
- Cost effective day night system on PTZ
- Presenting identification abilities
- Light weight, ruggedized and robust
- Warranty period of 2 years

DUALSEC™ PTZ

Technical specification

Imaging performance

Night Camera	Day Camera
Thermal Camera ARBEL	CCD Sony Camera
FPA Image Sensor 384x288 \ 640x480	FCB-EX1000\P
Long wave Micro bolometer Spectral Band 8 – 12 μm Visible	1/4-type EX-view HAD CCD
NETD < 50°mK (with F#1 optics)	
Video Output \ Signal CCIR or RS-170	NTSC (380k pixel) PAL (440k pixel)
Control Operation Polarity, NUC, Image Flip, Manual Gain/Level, e-Zoom, Focus Corrections	Auto, Manual, Priority mode, Bright, EV compensation, Backlight, compensation, Slow AE
Field Of View Dual wide (45mm) narrow (135mm)	36x optical zoom, f=3.4 mm (wide) to 122.4 mm (tele), F1.6 to F4.5
384x228 WFOV 12.2° X 9.2° NFOV 4.1° X 3.1° 640x480 WFOV 20.2° X 15.1° NFOV 6.8° X 5.1°	e-zoom x2 and x4 \ continues zoom 12x (432x with optical zoom)
Auto Focus corrections	Auto (Sensitivity: normal, low), One push AF, Manual, Infinity, Interval AF, Zoom trigger AF

Pan Tilt

Pan: 360° continuous, 0.1°/sec to 120°/sec.
Tilt: +30°/-90°, 0.1°/sec to 120°/sec.

Power

Operating voltage: 24 V DC
Consumption: 35 W nominal (During power mode)
50 W max (heaters)

Communication

RS 422 with the PTZ, RS232 with the cameras

Environmental

Operating temperature range -30°C to +55°C
Storage temperature range -40°C to +70°C
Humidity Rain +40°C 93% RH
Sand/dust Mil-Std-810E
Encapsulation IP66
Shock Mil-Std-810E
Vibration Mil-Std-810E

Physical Characteristics

System Weight <19 kg
Camera Size 45.0 cm diameter x 36.6 cm height - swept volume

Standard Package

Pan/Tilt or fixed mounted head with integrated thermal imagers and CCD camera
Break-out cable with standard mating connectors
Operator manual

Optional

Tripod including tripod adaptor
control software system
3 meter cable and a power supply are optionally available

Range Performance

Wide FOV 45 mm



Man (1.7mX0.5m)

Detection: 830m
Recognition: 280m



Object (2.3mX2.3m)

Detection: 2000m
Recognition: 690m

Range Performance

Narrow FOV 135 mm



Man (1.7mX0.5m)

Detection: 2500m
Recognition: 830m



Object (2.3mX2.3m)

Detection: 6200m
Recognition: 2000m



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