VP194-D4-PA Series Dual Channel Thermal/CCD Camera





Major Components

- CCD Camera/Lens Color (Day) Camera and lens for detailed imaging
- > Thermal Camera Thermal (Night) Camera for IR Imaging
- Thermal Camera Lens Continuous Options
- Pan/Tilt Positioner High accuracy pan/tilt unit
- Optional Laser Range Finder module
- Optional GPS module

Applications

- Port Security
- Airport Perimeters
- Nuclear Power Plants
- Border Surveillance
- Critical Infrastructure
- Oil and Gas Facilities

Infinova VP194-D4-PA series camera is powerful long range, night and day multi-sensor observation systems developed for security applications. It allows long range observation and detection using state of the art thermal imaging and CCD technology. The camera features a color CCD camera for day time operation and high performance cooled and uncooled thermal cameras with several long range lens options for both day and night operation.

The VP194-D4-PA series camera is designed and constructed to withstand the harshest weather and environmental conditions.

Configurations of this series camera are named based on their thermal imager.

Technical Specifications

Thermal Camera Specificati	ons				
Configuration	D420				
Thermal Type	Cooled				
Thermal Engine	17μ 640 x 512				
Lens Type	Continuous Zoom				
Focal Length	21 - 420mm				
Lens F#	f/4.0				
Video Type	(NTSC/PAL); 30Hz				
Spectral Band	3 - 5μ				
NETD	25° mK				
Horizontal Field of View (wide)	25.1°				
Horizontal Field of View (marrow)	1.3°				
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Digital Zoom	1x, 2x, 4x				
Focus Control	Motorized, Autofocus on Demand				
Control Operation	Polarity, NUC, Image Flip, Manual gain/level, Optical & Digital Zoom, Autofocus on Demand				
CCD Camera Specifications					
Imager Type	1/2" Color CCD				
Effective Pixels	768 x 494 (NTSC); 752 x 582 (PAL)				
Lens Type	32x Continuous Zoom				
Lens Focal Length	15.6 - 500mm				
Imager Horizontal FOV	22.4° to 0.45°				
S/N ratio	>50 dB				
Laser Range Finder Specific					
Configuration Availability	D420				
Maximum Range	20000 meters				
Minimum Range	80 m				
Range Accuracy @<1500m	+/- 5m				
Range Accuracy @>1500m	+/- 5m				
Nominal Wavelength	1540nm				
Laser Safety Rating	Class 1				
Pan / Tilt Positioner Specifications					
Position accuracy (resolution)	+/- 1.5 mRad				
Minimum pan speed	0.1%sec.				
Maximum pan speed	50°/sec.				
Minimum tilt speed	0.1%sec.				
Maximum tilt speed	50°/sec.				
Tilt range	+90°/-90°				
Power Requirements					
Power Input	24VDC ± 1%				
Power Consumption	30w typical (static, no heaters); 390w max (moving, with heaters)				
Environmental					
Storage Temperature	-40°F to +160°F (-40°C to +71°C)				
Operating Temperature	-40°F to +140°F (-40°C to +60°C)				
Humidity	+40°C, 93% RH				
Environmental Rating	IP66				
Communication					
Control Connections	RS-422/RS-485 Serial				
Protocol	Pelco D				
Default Baud Rate	9600				

Technical specifications (continued)

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Pan/Tilt Speed 0-50° per second
Pan Range 360° continuous
Tilt Range -90° to +90°
Pan/Tilt Resolution +/- 1.5 mRad

Mechanical Parameters

Dimensions Dependent on Configuration (refer to ICDs)

Weight 64 lbs (29 kg)

Others

Video Format Dual Channel (Thermal/CCD) - 2 BNC's; RS-170/CCIR, 1.0V p-p, 750hm

Certifications and Approvals

Product Certifications CE, FCC, IP66

Ordering Information

 $VP194-D420Z17V-PAP00 \qquad \qquad D420, \ 15.6-500mm \ Continuous \ Zoom \ (for \ CCD \ Camera/Lens), \ 17\mu \ 640x512 \ cooled \ and \ 21-420mm \ (for \ Thermal \ Cooled \$

Engine/Lens), PAL, LRF

VP194-D420Z17V-PAP01 D420, 15.6-500mm Continuous Zoom (for CCD Camera/Lens), 17µ 640x512 cooled and 21-420mm (for Thermal

Engine/Lens), PAL

Performance



