VP194-D2-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-D2-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-D2-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

Default Baud Rate

9600

Thermal Camera Specifications		
Configuration	D275	
Thermal Type	Cooled	
Thermal Engine	17μ 640 x 512	
Lens Type	Continuous Zoom	
Focal Length	19 - 275mm	
Lens F #	f/5.5	
Video Type	(NTSC/PAL); 30Hz	
Spectral Band	3 - 5μ	
NETD	<25° mK	
Horizontal Field of View (wide)	28.3°	
Horizontal Field of View (narrow)	2.0°	
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 Specifi		
Imager Type	1/2" Color CCD	
Effective Pixels	768 x 494 (NTSC); 752 x 582 (PAL)	
Lens Type	32x Continuous Zoom	
Lens Focal Length	10 - 320mm	
Imager Horizontal FOV	35.3° to 1.1°	
S/N ratio	>50 dB	
	Specifications (optional)	
Configuration Availability		
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	

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Technical specifications (continued)

Pan/Tilt Speed0-50° per secondPan Range360° continuousTilt Range-90° to +90°Pan/Tilt Resolution+/- 1.5 mRadMechanical ParametersDimensionsDependent on Configuration (refer to ICDs)Weight62 lbs (28 kg)OthersVideo FormatDual Channel (Thermal/CCD) - 2 BNC's; RS-170/CCIR, 1.0V p-p, 75ohmCertifications and Approvals	Pan/Tilt Unit		
Tilk Range -90° to +90° Pan/Tilk Resolution +/- 1.5 mRad Mechanical Parameters Dimensions Dependent on Configuration (refer to ICDs) Weight 62 lbs (28 kg) Others Video Format Dual Channel (Thermal/CCD) - 2 BNC's; RS-170/CCIR, 1.0V p-p, 75ohm	Pan/Tilt Speed	0-50° per second	
Pan/Tilk Resolution +/- 1.5 mRad Mechanical Parameters Dimensions Dependent on Configuration (refer to ICDs) Weight 62 lbs (28 kg) Others Video Format Dual Channel (Thermal/CCD) - 2 BNC's; RS-170/CCIR, 1.0V p-p, 750hm	Pan Range	360° continuous	
Mechanical Parameters Dimensions Dependent on Configuration (refer to ICDs) Weight 62 lbs (28 kg) Others Video Format Dual Channel (Thermal/CCD) - 2 BNC's; RS-170/CCIR, 1.0V p-p, 75ohm	Tilt Range	-90° to +90°	
DimensionsDependent on Configuration (refer to ICDs)Weight62 lbs (28 kg)OthersVideo FormatDual Channel (Thermal/CCD) - 2 BNC's; RS-170/CCIR, 1.0V p-p, 75ohm	Pan/Tilt Resolution	+/- 1.5 mRad	
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Video Format Dual Channel (Thermal/CCD) - 2 BNC's; RS-170/CCIR, 1.0V p-p, 75ohm	Weight	62 lbs (28 kg)	
	Others		
Certifications and Approvals	Video Format	Dual Channel (Thermal/CCD) - 2 BNC's; RS-170/CCIR, 1.0V p-p, 75ohm	
	Certifications and Approvals		
Product Certifications CE, FCC, IP66	Product Certifications	CE, FCC, IP66	

Ordering Information VP194-D275Z17V-PAP00 D275, 10-320mm Continuous Zoom (for CCD Camera/Lens), 17µ 640x512 cooled and 19-275mm (for Thermal

VP194-D275Z17V-PAP01D275, 10-320mm Continuous Zoom (for CCD Camera/Lens), 17μ 640x512 cooled and 19-275mm (for Thermal

Performance



Engine/Lens), PAL

