VP194-D7-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-D7-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-D7-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

Thormal Camora Specifications		
Thermal Camera Specifications	D700	
Configuration	D700	
Thermal Type	Cooled	
Thermal Engine	17μ 640 x 512	
Lens Type	Continuous Zoom	
Focal Length	48.5 - 700mm	
Lens F #	f/5.5	
Video Type	(NTSC/PAL); 30Hz	
Spectral Band	3 - 5μ	
NETD	<25° mK	
Horizontal Field of View (wide)	11.9°	
Horizontal Field of View (narrow)	0.8°	
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 Specification	ns (optional)	
Configuration Availability	D700	
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 Specification	ons	
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	71	
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	1P66	
Communication	11 00	
Control Connections	DC 422/DC 49E Corial	
	RS-422/RS-485 Serial	
Protocol Default Baud Rate	Pelco D 9600	
Delault Daud Nate	3000	

Technical specifications (continued)

Pan/Tilt Unit		
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	65 lbs (29.5 kg)	
Others		
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	

Ordering Information

Engine/Lens), PAL, LRF

VP194-D700Z17V-PAP01 D700, 15.6-500mm Continuous Zoom (for CCD Camera/Lens), 17μ 640x512 cooled and 48.5-700mm (for Thermal

Engine/Lens), PAL

Performance



