

VP194-C2-PA Series

Dual Channel Thermal/CCD Camera

Infinova[®]
The Integrator's Manufacturer



● Major Components

- CCD Camera/Lens - Color (Day) Camera for detailed imaging
- Thermal Camera - thermal (Night) Camera for IR Imaging
- Thermal Camera Lens - Continuous Lens Options
- Pan/Tilt Positioner - High accuracy Pan/Tilt unit
- Thermal Image Stabilization (standard on PAP01 unit only)
- Optional Laser Range Finder module
- Optional TCP/IP module
- Optional GPS module

● Applications

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

Infinova VP194-C2-PA series camera is a market-leading long-range dual-sensor surveillance system. This unique system combines an advanced high resolution uncooled 25-225mm continuous zoom thermal camera with a mid- or long-range visible-light camera on an accurate pan-tilt unit.

The VP194-C2-PA series camera offers extreme long-range detection and assessment without requiring regular maintenance, ensuring a low cost of ownership. Typical applications include airports and other sensitive areas.

The VP194-C2-PA series camera is available in a range of configurations, including analog or IP, and additional options such as Laser Range Finder and thermal image stabilization.

Technical specifications

Thermal Camera Specifications

Configuration	C225
Thermal Type	Uncooled
Thermal Core	17 μ 640 x 480
Lens Type	Continuous Zoom
Focal Length	25 - 225mm
Lens F #	f/1.5
Video Type	(NTSC/PAL); 30Hz
Spectral Band	7.5 - 14 μ
NETD	<50° mK
Horizontal Field of View (wide)	24.5°
Horizontal Field of View (narrow)	2.77°
Digital Zoom	1 - 12x
Focus Control	Motorized, Autofocus on Demand
Control Operation	Polarity, NUC, Image Flip, Manual Gain Level Control, Optical & Digital Zoom, Autofocus on Demand
Additional Features	Image Stabilization

CCD Camera Specifications

Imager Type	1/4" or 1/2" Color CCD
Effective Pixels	768 x 494 (NTSC); 752 x 582 (PAL)
Lens Type	36x (1/4") or 30x (1/2") Continuous Zoom
Lens Focal Length	3.4 - 122.4mm (1/4"); 10 - 320mm (1/2")
Imager Horizontal FOV	60.2° to 1.8° (1/4"); 35.3° to 1.1° (1/2")
S/N ratio	>50 dB
Additional Features	Image Stabilization, IR Cut-Filter Removal, Defrost Mechanism

Laser Range Finder Specifications (optional)

Configuration Availability	1/4" CCD
Maximum Range	6 km
Minimum Range	5 m
Range Accuracy @<1500m	+/- 3m
Range Accuracy @>1500m	+/- 5m
Nominal Wavelength	1550nm
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 \pm 1%
Power Consumption	30w typical (static, no heaters); 350w 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

Technical specifications (continued)

Communication

Control Connections	RS-422/RS-485 Serial
Protocol	Pelco D
Default Baud Rate	9600
Default Pelco Address	1

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

Optional TCP/IP Specifications

Compression	H.264, MJPEG
Frame Rate	1 - 30 fps
Dual Streaming	2x Full Frame Rate @ D1 Resolution
Output Data Rate	56kb/s to 6Mb/s
Standards	ONVIF Profile S

Mechanical Parameters

Dimensions	Dependent on Configuration (refer to ICDs)
Weight	23 kg (Analog with 1/4" CCD); 32 kg (Analog with 1/2" CCD)

Others

Video Format	Dual Channel (Thermal/CCD) - 2 BNC's; RS-170/CCIR, 1.0V p-p, 75ohm
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Certifications and Approvals

Product Certifications	CE, FCC, IP66
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Ordering Information

VP194-C225Z17V-PAP00	C225 (122mm CCD), 3.4-122.4mm Continuous Zoom (for CCD Camera/Lens), 17μ 640x480 Uncooled and 25-225mm Continuous Zoom (for Thermal Engine/Lens), PAL
VP194-C225Z17V-PAP01	C225 (320mm CCD), 10-320mm Continuous Zoom (for CCD Camera/Lens), 17μ 640x480 Uncooled and 25-225mm Continuous Zoom (for Thermal Engine/Lens), PAL

Performance

Legend

D/N Detection (Thermal) - 2 PoT

D/N Recognition (Thermal) - 6 PoT



= Human Subject Size
1.8m x 0.6m



= Vehicle Subject Size
2.3m x 2.3m

Detection: 2 lines on target
Recognition: 6 lines on target

