

VP194-A Series

Dual Channel Thermal/CCD Camera

Infinova[®]
The Integrator's Manufacturer



- **Major components:** CCD camera/lens, thermal camera, pan/tilt positioner
- **Applications:** sea/airport security, border surveillance, critical infrastructure, oil and gas facilities and perimeter security
- **Thermal camera:** the VP194-A thermal camera is available in 17 μ 640 x 480 resolution
- **Day CCD camera:** VP194-A includes a 1/4" color CCD camera for daytime threat detection and assessment. The imager is a high sensitivity, high zoom magnification visible camera providing color video for daytime operation
- **Pan/tilt positioner:** the variable speed Pan/Tilt unit provides continuous 360° rotation of the cameras at up to 60°/sec (pan/tilt)

VP194-A Series dual channel thermal/CCD camera is a powerful around the clock, night and day multisensor observation system developed for security applications. It allows long range observation and detection using state of the art thermal imaging and CCD technology.

VP194-A Series dual channel thermal/CCD camera features a 1/4" Color CCD camera for day time operation and the choice of 17 μ 640x480 thermal engine paired with one of several athermalized lens options: 19mm, 35mm, 60mm, or 100mm which offer threat detection beyond 6km. The thermal camera provides superior threat detection performance day or night including.

VP194-A Series dual channel thermal/CCD camera is designed and constructed to withstand the harshest environmental conditions, including rain, direct sunlight, humidity and dust.

Technical specifications

Power Requirements

Power Input	24VDC ± 1%
Power Consumption	40w typical (static, no heaters) 120w max (moving, with heaters)

Environmental

Storage Temperature	-40°C to +71°C -40° F to +160° F
Operating Temperature	-40°C to +60°C -40° F to +140° F
Humidity	+40°C , 93% RH
Environmental Rating	IP66

Mechanical Parameters

Weight	19mm: 12.8kg (28.22 lbs) 35mm: 13kg (28.66 lbs) 60mm: 13.1kg (28.88 lbs) 100mm: 13.2kg (29.1 lbs)
Dimensions	269mm (h) x 431mm (w) x 180mm (d) 10.6" (h) x 17.0" (w) x 7.1" (d)

Thermal Camera

Imager Type	Uncooled Microbolometer
Spectral Band	7.5-14μ

Pixel Size / Resolution	17μ / 640 x 480
NETD	<50° mK
Day CCD Camera	
Imager Type	1/4" CCD
Focal Length	3.4-122.4mm (36x)
Resolution	768 x 494 (NTSC), 752 x 582 (PAL)
S/N Ratio	<50dB

Video Format

Dual Channel (Thermal/CCD) - 2 BNC's
RS-170 (30Hz) / CCIR (25Hz), 1.0V p-p, 75ohm

Communication

RS-422/RS-485 Serial/TCP/IP	
Protocol	Pelco D (SDK Available)
Default Baud Rate	9600

Pan/Tilt Unit

Pan/Tilt Speed	Variable Speed, 0 - 70°/sec max
Pan Range	360° continuous
Tilt Range	-90° to +90°

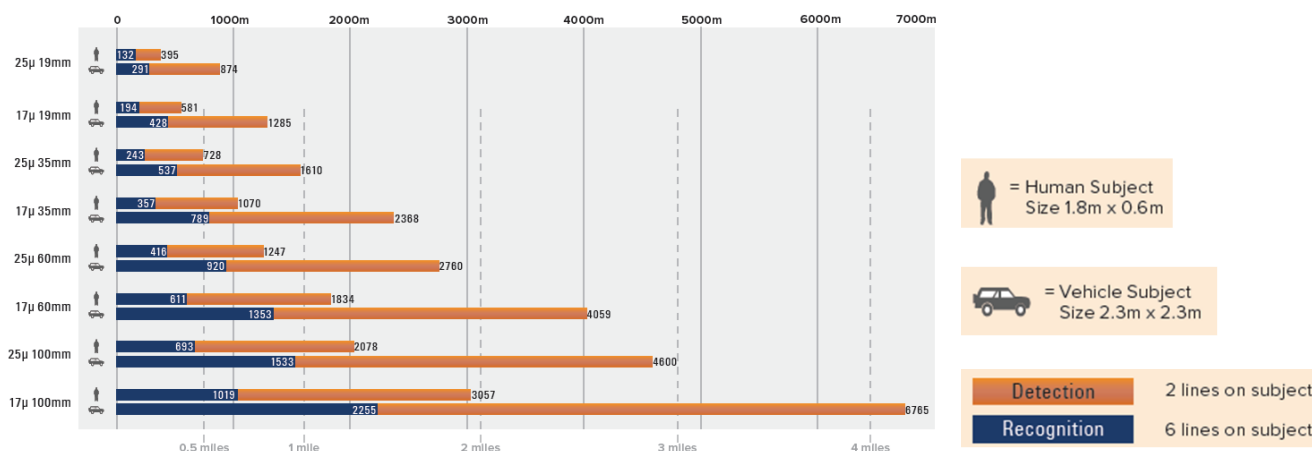
Certifications and Approval

Product Certifications	CE, FCC, IP66
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Ordering information

Model	CCD Camera/Lens	Thermal Lens	Thermal Engine	Video Type
VP194-A19A17V-PAP00	3.4-122.4mm Continuous Zoom	19mm Athermalized	17μ 640 x 480	PAL
VP194-A35A17V-PAP00	3.4-122.4mm Continuous Zoom	35mm Athermalized	17μ 640 x 480	PAL
VP194-A60A17V-PAP00	3.4-122.4mm Continuous Zoom	60mm Athermalized	17μ 640 x 480	PAL
VP194-A100A17V-PAP00	3.4-122.4mm Continuous Zoom	100mm Athermalized	17μ 640 x 480	PAL
VP194-A100A17V-PAP00	3.4-122.4mm Continuous Zoom	100mm Athermalized	17μ 640 x 480	IP

Performance



* Performance depends on atmospheric conditions.

Typical system application diagrams

