

VP194-AM Series

Compact Thermal & CCD Camera System

Infinova[®]
The Integrator's Manufacturer



- Major components: CCD camera/lens, thermal camera, pan/tilt positioned.
- Applications: sea/airport security, critical infrastructure, oil and gas facilities, perimeter security.
- Thermal camera: the VP194-AM thermal camera is available in 17 μ 640 x 480 resolution (NTSC/PAL).
- Lens options: Fixed Field of View Athermalized: 19mm, 25mm, 35mm, 60mm.
- CCD camera: VP194-AM 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 80°/sec on the pan axis and 50°/sec on the tilt axis.

VP194-AM is a compact and lightweight 24/7, 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.

The VP194-AM features a 1/4" Color CCD camera for day time operation and a 17 μ 640x480 thermal engine paired with one of several athermalized lens options: 19mm, 25mm, 35mm or 60mm. The thermal camera provides superior threat detection performance day or night.

The system is designed and constructed to withstand the harshest environmental conditions, including rain, direct sunlight, humidity and dust.

Technical specifications

Power requirements

Power Input	24VDC \pm 1%
Power Consumption	34w max

Environmental

Storage Temperature	-40°C to +71°C (-40°F to +160°F)
Operating Temperature	-35°C to +65°C (-40°F to +140°F)
Humidity	+40°C , 93% RH
Environmental Rating	IP66

Mechanical parameters

Weight	5kg (11 lbs)
Dimensions	207mm (h) x 242mm (w) x 143mm (d) 8.2" (h) x 9.5" (w) x 5.6" (d)

Thermal camera

Imager Type	Uncooled Microbolometer
Spectral Band	7.5-14 μ
Pixel Size / Resolution	17 μ / 640 x 480 NTSC/PAL
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/CCIR, 1.0V p-p, 75ohm.

Communication

Communication	RS-485 Serial
Protocol	Pelco D / Pelco P
Default Baud Rate	2400

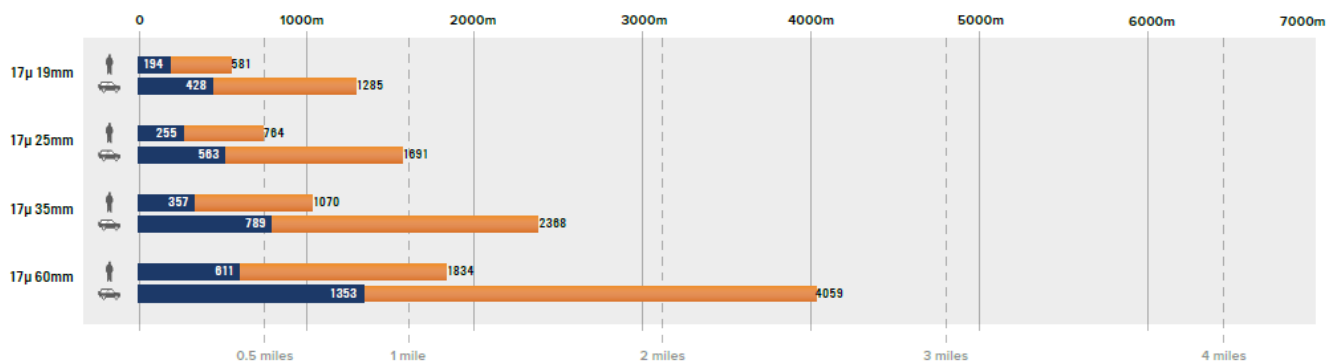
Pan/Tilt Unit

Pan Speed	0-80° per second
Pan Range	360° continuous
Tilt Speed	0-40° per second
Tilt Range	-90° to +90°

Certifications

IP66

Performance



Legend

D/N Detection (Thermal) - 2 PoT

D/N Recognition (Thermal) - 6 PoT



= Human Subject Size
1.8m x 0.8m



= Vehicle Subject Size
2.3m x 2.3m

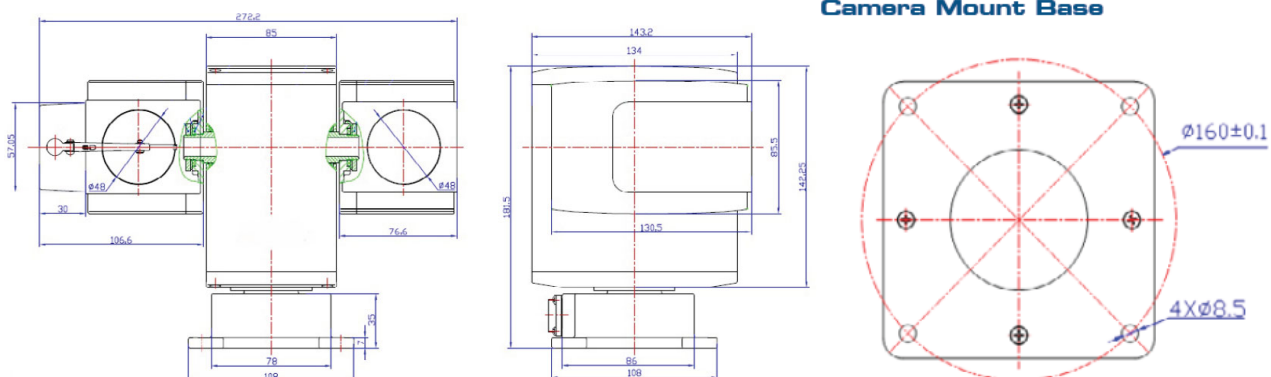
Detection: 2 TV lines on target
Recognition: 6 TV lines on target

Ordering information

All orders include mating connector, and setup/test software, integration cables should be ordered separately (see next page).

CCD Camera/Lens	Thermal Lens	Thermal Engine	Part Number
3.4- 122.4mm Continuous Zoom	19mm Athermalized	17 μ 640 x 480	VP194-AM19A17V-PAP00
3.4- 122.4mm Continuous Zoom	25mm Athermalized	17 μ 640 x 480	VP194-AM25A17V-PAP00
3.4- 122.4mm Continuous Zoom	35mm Athermalized	17 μ 640 x 480	VP194-AM35A17V-PAP00
3.4- 122.4mm Continuous Zoom	60mm Athermalized	17 μ 640 x 480	VP194-AM60A17V-PAP00

System drawings



Camera Mount Base