

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. 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

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|------------|-----------------------------------|
| 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 | 3.3 - 119mm (36x) |
| Resolution | 752 x 582 |
| S/N Ratio | <50dB |

Video Format

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

Communication

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|----------------------|--------------------------------|
| RS-422/RS-485 Serial | |
| Protocol | Pelco D, Vumii (SDK Available) |
| Default Baud Rate | 9600 |

Pan/Tilt Unit

| | |
|----------------|------------------|
| Pan/Tilt Speed | 0-60° per second |
| Pan Range | 360° continuous |
| Tilt Range | -90° to +90° |

Certifications and Approval

| | |
|------------------------|---------------|
| Product Certifications | CE, FCC, IP66 |
|------------------------|---------------|

Ordering information

| Model | CCD Camera/Lens | Thermal Lens | Thermal Engine | Video Type |
|----------------------|------------------------------|-----------------------|----------------|------------|
| VP194-A19A17V-PAP00 | 3.3-119mm Continuous Zoom | 19mm Athermalized | 17μ 640 x 480 | PAL |
| VP194-A35A17V-PAP00 | 3.3-119mm Continuous Zoom | 35mm Athermalized | 17μ 640 x 480 | PAL |
| VP194-A60A17V-PAP00 | 3.3-119mm Continuous Zoom | 60mm Athermalized | 17μ 640 x 480 | PAL |
| VP194-A100A17V-PAP00 | 3.3-119mm Continuous Zoom | 100mm Athermalized | 17μ 640 x 480 | PAL |

Typical system application diagrams

