

VP190-A-PA Series

Superior Thermal Security Cameras

Infinova[®]
The Integrator's Manufacturer



- **Innovative Features**

Unique signal processing algorithms provide enhanced contrast for Video Analytics and Infinova's innovative Fire Detection Algorithm

- **High Image Quality**

High Resolution, small pixel pitch

- **Advanced Optics**

Thermal Imaging Autofocus

- **Versatility**

Wide variety of fixed, PTZ, and optics configurations

- **Easy Installation**

Pelco D protocol, common industry mounting options, serial or IP communication

- **Outdoor Design**

Outdoor designed to withstand the harshest environmental conditions, rated IP66

The VP190-A-PA camera is a broad portfolio of high performance outdoor rated thermal cameras for 24/7 perimeter surveillance, observation, and monitoring of critical infrastructure and sensitive sites.

The VP190-A-PA camera is available as a fixed camera system mounted on a Pan/Tilt Positioner and offers a variety of optics including fixed single field of view athermalized lenses.

The VP190-A-PA camera also features the option for either standard 30Hz video frequency or optional 9Hz frequency; the 9Hz video option allows for simple and easy export.

The VP190-A-PA camera is ruggedly designed to withstand the harshest weather and environmental conditions, including rain, direct sunlight, high humidity, dust, heat, and cold.

The VP190-A-PA camera is widely used in Port Security, Airport Perimeters, Nuclear Power Plants, Border Surveillance, Critical Infrastructure, and Oil and Gas facilities.

Technical specifications

Power Requirements

Power Input	24VDC±1%
Power Consumption	<35W (Typical); 120W (Max.)

Environmental Parameters

Operating Temperature	-27°F to + 131°F (-33°C to +55°C)
Storage Temperature	-40°F to + 160°F (-40°C to +71°C)
Humidity	+40°C, 93% RH
Environmental Rating	IP66

Mechanical Parameters

Weight	25μ: 17476 g (100mm Athermalized); 17μ: 17566 g (100mm Athermalized);
Dimensions (W×D×H)	12.91"×16.34"×18.62" (328mm×415mm×473mm)

Thermal Camera

Image Type	Uncooled Microbolometer
Video Output	RS-170/CCIR, 1.0V p-p, 75ohm
Spectral Band	7.5-14μ
Pixel Size / Resolution	17μ / 640×480 NTSC / PAL; 25μ / 320×240 NTSC (384 x 288 PAL)
NETD	17μ 640 x 480: <50° mK NTSC/PAL 25μ 320 x 240: <50° mK NTSC 25μ 384 x 288: <50° mK PAL

Video Frequency	30Hz or 9Hz (Easy Export)
Lens Options:	17μ (NTSC/PAL): 100mm(6.2°)
Athermalized	25μ (NTSC): 100mm(4.6°)
(Focus Free)	25μ (PAL): 100mm(5.5°)

Communication

Control connections	RS-422/RS485 4 wires
Control Protocols	Pelco D
Remote Operation	Serial

PAN/TILT UNIT

Pan Range/Speed	360° continuous / 0-100° per second
Tilt Range/Speed	-90° to +90° / 0-50° per second
Backlash	<0.2°
# of Presets	64
Speed Variability	On-the-fly speed changes

Standards & Certifications

IP66, CE, FCC

Ordering information

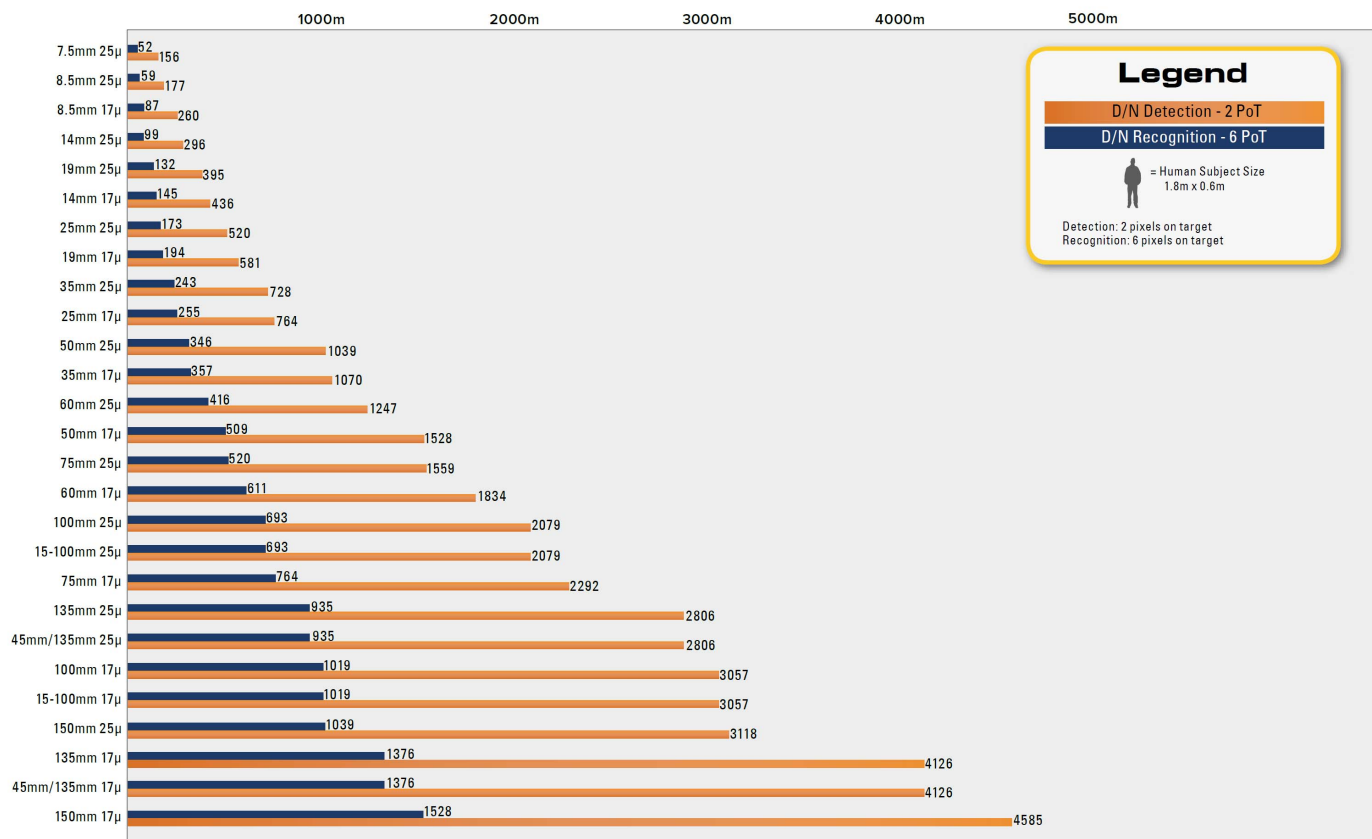
VP190-AE100A25Q-PA020

Analog thermal PTZ camera, 25μ, NTSC/PAL, 100mm f/1.6, Athermalized, Fixed Focus lens

VP190-AE100A17V-PA020

Analog thermal PTZ camera, 17μ, NTSC/PAL, 100mm f/1.6, Athermalized, Fixed Focus lens

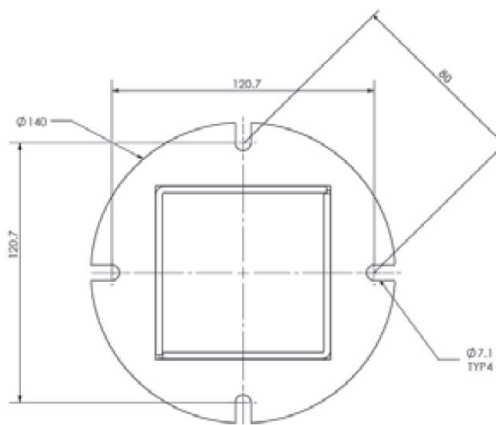
Thermal camera performance



*Performance Dependent on Atmospheric Conditions

100m = 328ft 1000m = .62 mi
500m = 1640ft 1610m = 1 mi

Camera mounting information



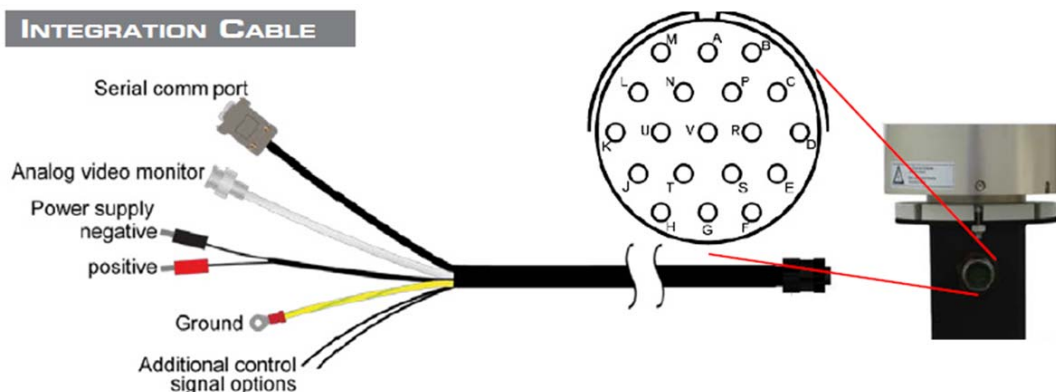
Wiring assignment

Communication

Connector Pin #	Signal name	Description	Input/Output
F	COMM_TX+	RS422/RS485 Transmit High	Output
E	COMM_TX-	RS422/RS485 Transmit Low RS232 Transmit	Output
H	COMM_RX+	RS422 Receive High RS232 Receive	Input
G	COMM_RX-	RS422/RS485 Receive Low	Input

Power, Video, Fire Detection

Connector Pin #	Signal name	Description	Input/Output
K,J	24VDC_PWR_IN*	Power Supply In	Input
U,V	24VDC_PWR_RTN*	Power Supply Return	Input
A	GND	Chassis Ground	-
D	VIDEO	Analog Video Signal	Output
C	VIDEO_RTN	Analog Video Signal RTN	Output
N	FD_ALERT	Fire Detection Alert (Dry Contact)	Output
R	FD_ALERT	High Risk of Fire Alert (Dry Contact)	Output



Shipping contents

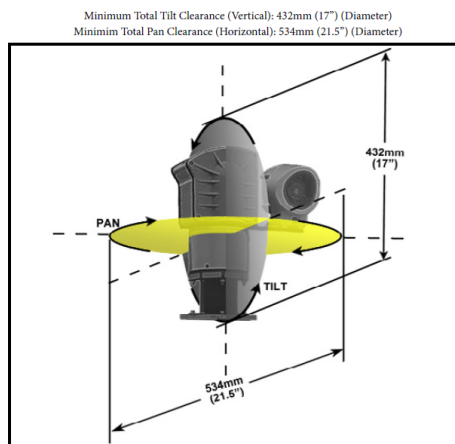
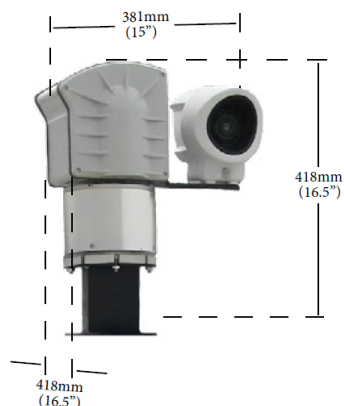
Standard Order includes:

- 1) Thermal camera & pan/tilt positioner
- 2) Pedestal Adaptor
- 3) Camera to PT Positioner Cable
- 4) Software & Documentation CD containing
 - a) User Manual
 - b) Test & Configuration Software
- 5) Cable Mating Connector



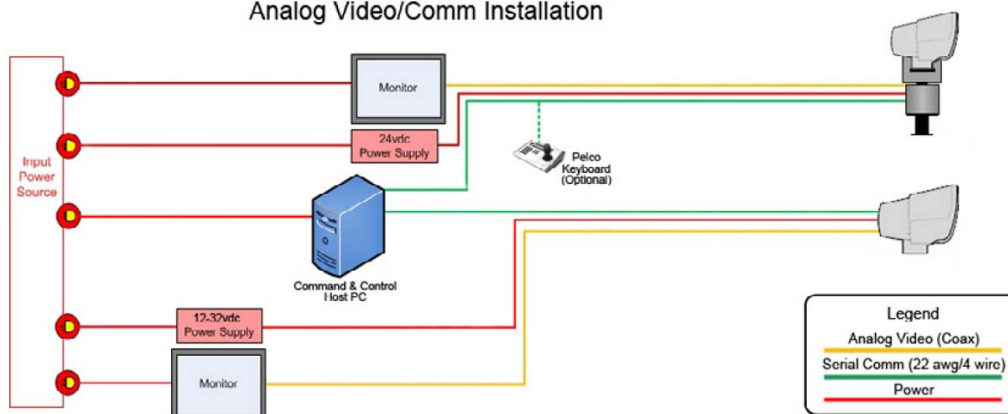
System installation dimensions

Required Installation Clearance



Typical system design

Analog Video/Comm Installation



System drawings

