

VP190-B-N 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**

Continuous Zoom, Dual Field of View, Thermal Imaging Autofocus

- **Versatility**

Wide variety of fixed 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-B-N 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-B-N camera is available as a fixed camera system and offers a variety of optics including dual field of view zoom lenses and continuous zoom lenses.

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

The VP190-B-N 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	12-32VDC
Power Consumption	<4W (Typical); 48W (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: 5351 g (45/135mm Dual FOV Motorized); 5751 g (15~100mm Continuous Zoom Motorized); 17μ: 5511 g (45/135mm Dual FOV Motorized); 5911 g (15~100mm Continuous Zoom Motorized);
Dimensions (W×D×H)	9.53"×8.07"×12.91" (205mm×328mm×242mm)

Thermal Camera

Image Type	Uncooled Microbolometer
Video Output	RS-170/CCIR, 1.0V p-p, 75ohm
Video Compression	MJPEG/H.264

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: Athermalized (Focus Free)	17μ (NTSC/PAL): 14.3°/ 4.6° (45/135mm Dual FOV Motorized) 42.2° - 6.2° (15~100mm Continuous Zoom Motorized) 25μ (NTSC): 10.4°/ 3.4° (45/135mm Dual FOV Motorized) 30.8° - 4.6° (15~100mm Continuous Zoom Motorized) 25μ (PAL): 12.6°/ 4.1° (45/135mm Dual FOV Motorized) 37.1° - 5.5° (15~100mm Continuous Zoom Motorized)

Communication

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

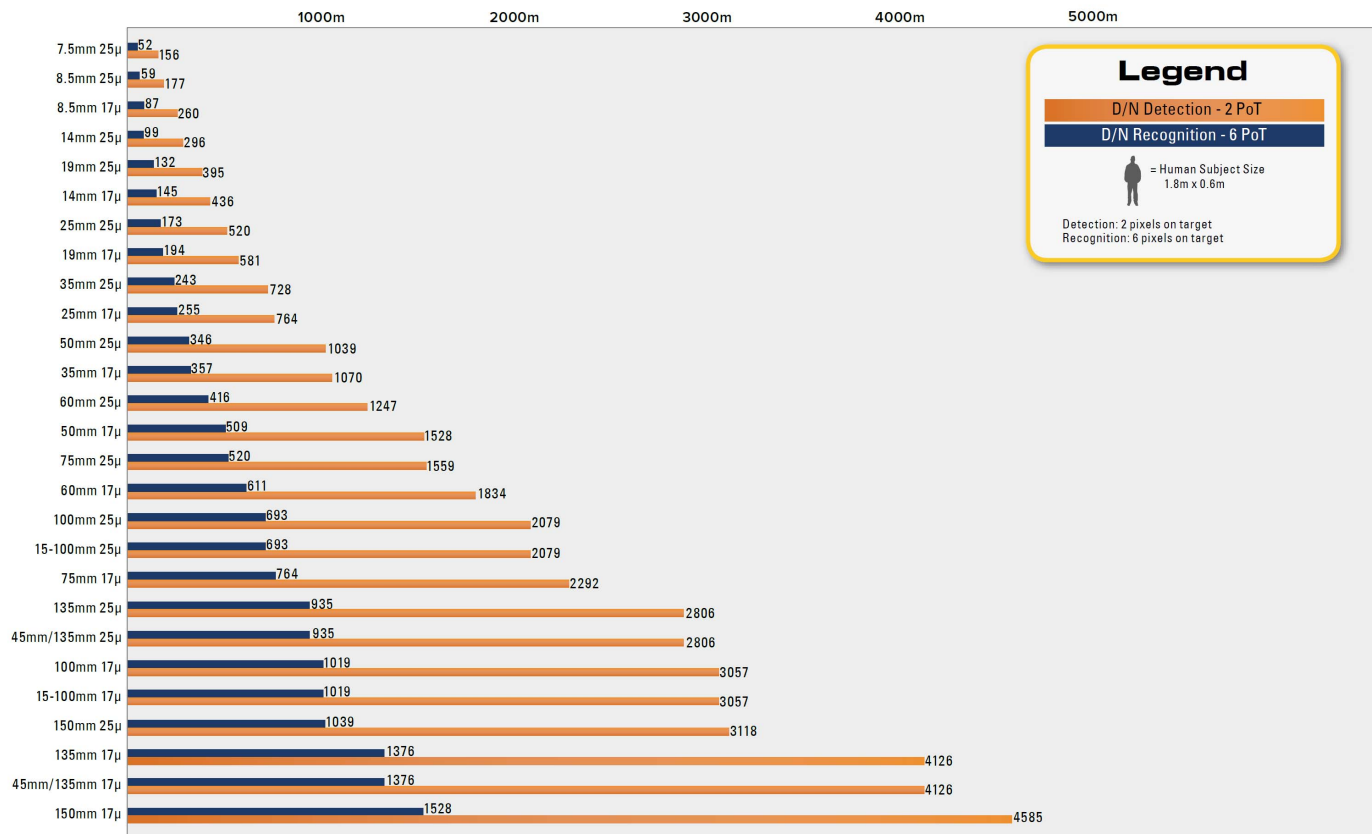
Standards & Certifications

IP66, CE, FCC

Ordering information

VP190-BE135D25Q-0N020	IP thermal camera, 25μ, NTSC/PAL, 45/135mm f/1.1 / f/1.6 Dual Field of View Motorized lens
VP190-BE135D17V-0N020	IP thermal camera, 17μ, NTSC/PAL, 45/135mm f/1.1 / f/1.6 Dual Field of View Motorized lens
VP190-BE100Z25Q-0N020	IP thermal camera, 25μ, NTSC/PAL, 15-100mm f/1.1 - f/1.4 Continuous Zoom Motorized lens
VP190-BE100Z17V-0N020	IP thermal camera, 17μ, NTSC/PAL, 15-100mm f/1.1 - f/1.4 Continuous Zoom Motorized lens

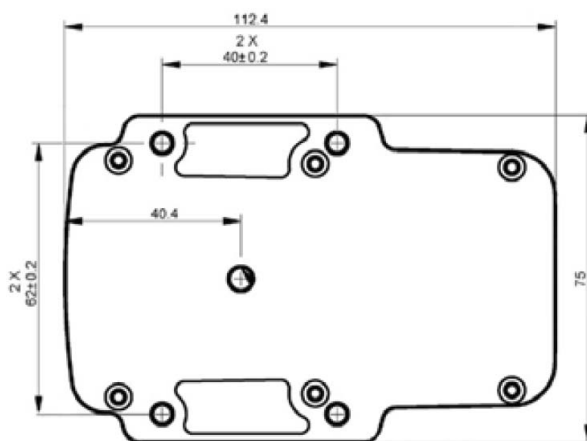
Thermal camera performance



*Performance Dependent on Atmospheric Conditions

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

Camera mounting information



Wiring assignment

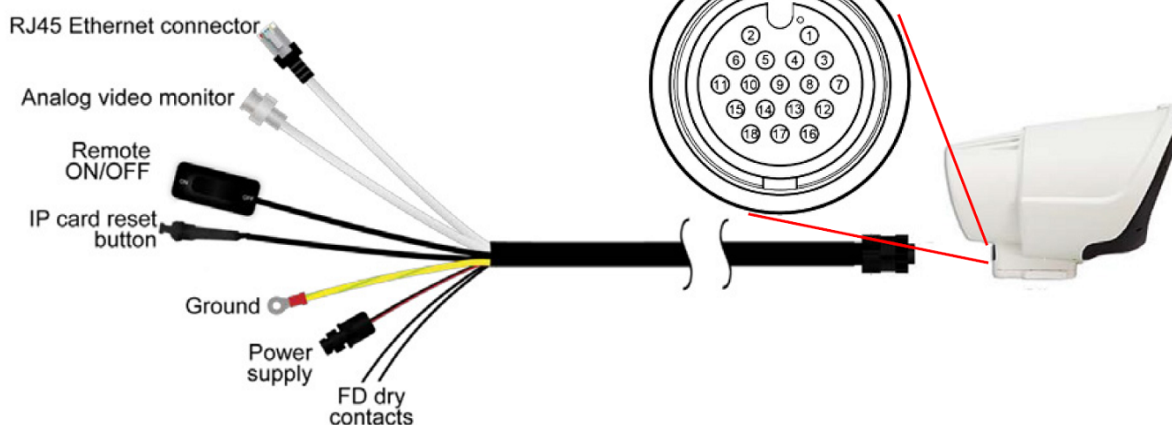
Communication

Connector Pin #	Signal name	Description	Input/Output
2	LAN_TX+	TCP/IP Transmit High	Output
6	LAN_TX-	TCP/IP Transmit Low	Output
11	LAN_RX+	TCP/IP Receive High	Input
15	LAN_RX-	TCP/IP Receive Low	Input
10	SPARE	Spare wire	-
18	PIC_TX	Factory Settings and Technician Use only (RS232)	Input
17	PIC_RX		
16	Reset IP	Resets the embedded IP encoder	-

Power, Video, Fire Detection

Connector Pin #	Signal name	Description	Input/Output
8	PWR_IN_RTN*	Power Supply Return	Input
9	PWR_IN*	Power Supply In	Input
7	GND	Chassis Ground	-
13	REMOTE_PWR	Remote Pwr ON/OFF	Input
1	VIDEO	Analog Video Signal	Output
3	VIDEO_RTN	Analog Video Signal RTN	Output
4	FD_ALERT	Fire Detection Alert (Dry Contact)	Output
5	FD_ALERT	High Risk of Fire Alert (Dry Contact)	Output
12	LAN_PWR_IN	PoE Power 48 VDC IN	Input
14	LAN_PWR_RTN	PoE Power 48 VDC IN	Input

INTEGRATION CABLE



Shipping contents

Standard Order includes:

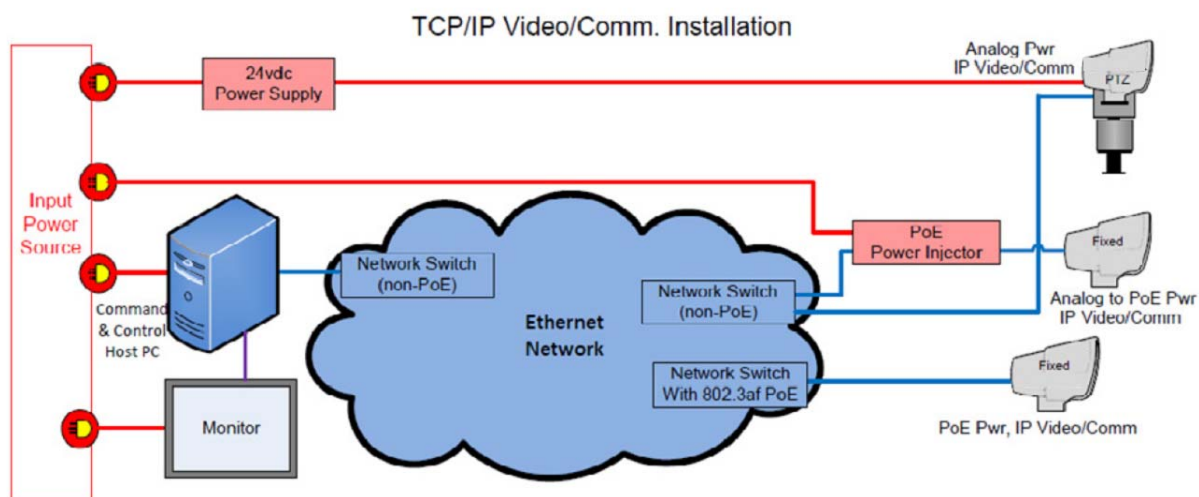
- 1) Thermal camera & pan/tilt positioner
- 2) Cable Mating Connector (not shown)
- 3) Software & Documentation CD
 - a) User Manual
 - b) Test & Configuration Software



System installation dimensions



Typical system design



System drawings

