

FLIR IP™

N446ZC302

2.4MP 30X PTZ CNV Camera



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2.4MP 30× PTZ CNV IP Camera

The FLIR 1080p HD 30× PTZ Color Night Vision™ IP Camera delivers best-in-class nighttime imaging and stays in color longer in low light conditions. The powerful 30× optical zoom coupled with DIS [Digital Image Stabilization] enables clear identification of objects at extended distances.

PTZ PERFORMANCE

Maintains image clarity in challenging conditions and at a great distance.

- 2.4MP, 1/1.9" CMOS Sensor and 30x optical zoom
- DIS compensates for challenging installation conditions, such as vibration or high winds, to provide sharper images.
- Pan: 0° ~ 360° endless/ Tilt: -20° ~ 90°, 180° Autoflip, Pan: 200°/sec / Tilt: 120°/sec

COLOR NIGHT VISION™ [CNV]

Exceptional low light performance providing clarity and improved object identification with Color Night Vision™

- CNV in low light and up to 650ft / 198m IR night vision for total visibility around the clock
- Color viewing in low light down to 0.01 Lux; B/W viewing in darkness down to 0.001 Lux
- Ultra WDR (up to 120dB) for improved detail in challenging lighting conditions



BUILT TO PERFORM

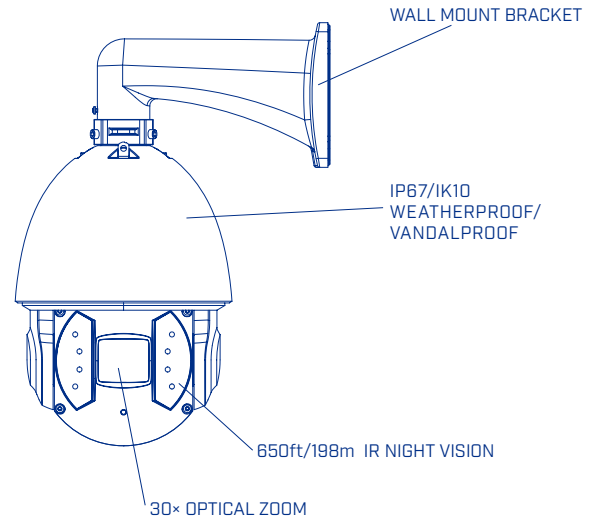
Robust for installation in any outdoor conditions

- IP67 weatherproof & IK10 vandalproof rated housing
- ArcticPro technology for harsh climates (minimum operating temperature -40°F / -40°C)
- High PoE power option

Sixth Sense®

Specifications

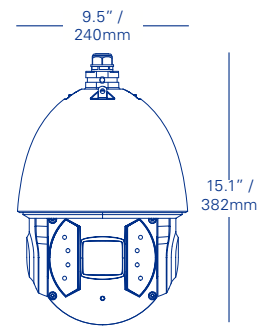
Camera		N446ZC302
Imaging Device	2.4MP 1/1.9" CMOS Sensor	
Effective Pixels	1920 (H) x 1080 (V)	
Image Type	CMOS	
Image Readout	Progressive Scan	
Day / Night	Auto (ICR) / Color / B/W	
Mechanical IR Cut Filter	Yes	
Min. Illumination	0.01Lux Color (@F1.5) 0.001 Lux B/W (@F1.5)	
S/N Ratio	≥56dB (AGC OFF)	
Field of View (H)	61.2° ~ 2.1°	
IR Illumination	650ft/198m / 850nm	
IR On / Off Control	Yes	
Video Output	RJ45 / BNC (2nd video output)	
Electronic Shutter Range	1/1~1/30,000s	
Optical		
Lens Type	Zoom Block	
Iris Type	DC Auto Iris w/Hall-effect	
Iris Control Type	Auto / Manual	
Focal Length	180 ~ 6mm	
Aperture	F1.5 ~ F4.3	
Optical Zoom	30x	
Focus	Auto / Manual	
Pan/Tilt		
Pan / Tilt Range	Pan: 0° ~ 360° endless/ Tilt: -20° ~ 90°	
Auto Flip	Yes, 180°	
Continuous Rotation	Yes	
Manual Speed (Maximum)	Pan: 200°/sec / Tilt: 120°/sec	
Preset Speed (Maximum)	Pan: 240°/sec / Tilt: 200°/sec	
Presets	300	
Patterns	5	
Tours	8	
Other PTZ Functions	Auto Scan, Auto Pan	
Camera OSD	Yes	
Supported Protocols	FLIR 1/3 / Pelco D/P (auto recognition)	
Video		
Video Compression	H.264 / MJPEG	
Video Streams	H.264 / MJPEG Triple Stream	
Resolution Selection (Mainstream)	1080P(1920x1080) / 720P(1280x720)	
Aspect Ratio	16:9	
Frame rates (Maximum)	1080P/ D1 (1 ~ 25/30fps), 720P(1~50/60fps)	
Bit Rate Control	CBR / VBR	
Bit Rate Selection (Mainstream)	H.264: 1,280K ~ 8,192Kbps MJPEG: 3,584K ~ 24,576Kbps	
Quality Setting Range (default)	1-6 (6)	
Region of Interest (selectable areas)	Yes (4)	
Wide Dynamic Range	True WDR	
Dynamic Range	Up to 120dB	
Backlight Compensation	BLC/HLC	
White Balance	Auto/ATW/Indoor/Outdoor/Manual	
Gain Control	Auto / Manual	
Noise Reduction	3D-DNR + 2D-DNR	
Smart IR	Yes	
Image Stabilization	Yes, DIS	
Digital Zoom	Up to 16x	
Tamper Detection	Yes	
Adaptive Lens Correction (ALC)	No	
Video Mirroring/Rotation	Horizontal Mirror	
Video Overlay	Time / Date / Camera / Zoom / Position / Custom	
Window Blanking (Privacy)	Up to 24 Areas	
Menu Languages	English	
Network		
Protocols	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour	
ONVIF Conformance	ONVIF Profile S / G	
RTSP Video	Standard RFC2326, Support QuickTime/VLC Player. User Security Authentication (Enabled/Disabled)	
Users	20 Users	



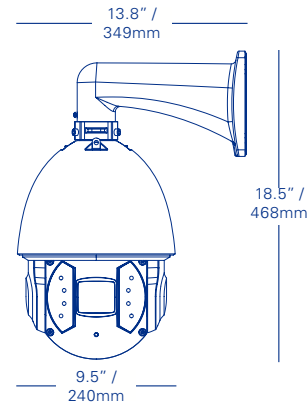
Specifications

Network	
Protocols	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1x
ONVIF Conformance	Profile S/G
RTSP Video	Standard RFC2326, Support QuickTime/VLC
Users	20 Users
Mechanical	
Material	Aluminum Alloy
Product Dimensions – Camera Only (Dia x H)	9.45" x 15.1" 240 x 382mm
Product Weight (excluding wall mount)	13.3lbs / 6.0kg
Product Weight (including wall mount)	15.1lbs / 6.9kg
Electrical	
Network Port	RJ45 10/100 Base-T
Analog Video Out (service only)	Yes, BNC Type
Power Input	24V AC ± 25%
Power over Ethernet Type	High PoE (60W Max.)
Power Consumption (maximum)	24W (IR OFF) / 38W (IR ON)
Current Consumption (maximum)	1.0A (IR OFF) / 1.6A (IR ON)
Additional Features	
Edge Storage	Yes, adjustable
Defog	No
Built-in Heater	Yes, 1 Input / 1 Output
Audio I/O	G.711a / G.711u
Audio Encoding	7 Inputs / 2 Outputs
Alarm I/O	Yes, adjustable
RS485	Yes
Environmental	
Storage Temperature	-22° ~ 140°F / -30° ~ 60°C
Storage Humidity	< 90% RH
Operating Temperature	-40° ~ 158°F / -40° ~ 70°C
Operating Humidity	< 90% RH
Cold Start Temperature	-31°F / -35°C
Ingress Protection	IP67 Rated
Vandal Resistance	IK10 Rated
Certifications	
Certifications	FCC, CE

Dimensions (Camera only)



Dimensions (Camera with bracket)



Available Accessories:

N446ZC302
High PoE Midspan ACC60WPMS1

For latest accessory / mount compatibility visit
<http://flir.com/security/cameramounts>

Ordering Information

N446ZC302: 8-41430-01823-0

Package Dimensions (WxDxH)/Weight

12.3 x 12.3 x 20.1" / 313 x 313 x 511mm
22.5lbs / 10.3kg

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