

VH161-K2 SERIES

HD 2MP IR IP BOX CAMERA

Infinova[®]



FEATURES

- With a built-in 20X HD camera module
- 1/2.8" progressive scanning CMOS sensor
- IR-Cut Removable (ICR) filter for auto D/N switching
- Extra-low light sensitivity: 0.0005lux
- Efficient IR LEDs, with a wavelength of 850nm, delivering a long and stable service period with reasonable price
- Night illumination distance up to 100m
- Smart IR is provided to adjust the IR LEDs outputting power automatically as per the lighting conditions on-site
- Support WDR functions, with a dynamic range up to 120dB
- H.265/H.264/M-JPEG coding format and three-stream
- Smart H.265/Smart H.264 encoding is enabled to utilize the bandwidth effectively
- HD network video signal output: 1920x1080 @ 30fps Bi-directional audio, G.711a/G.711u/AAC
- Multiple smart analysis functions such as General functions: Defocus detection, color cast detection, high brightness detection, low brightness detection, anomaly detection, fighting detection and motion detection, Behaviour Analysis: Cross-wire detection, region intrusion detection, loitering detection, motion detection, target stop-moving detection, Density detection and crowd detection, Counting Application: counting for heads/pedestrians/faces/vehicles, queue length detection and dwelling detection
- Bi-directional audio, with G.711-A/G.711-U/ G.726/AAC optional
- 2 alarms input and 1 alarm output
- Support up to 8 definable ROI areas
- OSD text color optional
- Real-time access and parameter configuration via Web Server for multiply users is enabled
- ONVIF Profile S/ G/ T compatible
- IP66 environmental rating and fog can be removed effectively with the inbuilt air circulation system
- Provide Network Remote Updating

DESCRIPTION

Infinova VH161-K2 Series HD IR Box Camera, based on AI deep learning algorithms, which is an advanced product ever launched in the surveillance market.

The camera outputs a HD network signal up to 1920x1080 @30fps. With H.256/H.264/M-JPEG coding and three code streams, it has a sterling quality on image definition and color restoration, able to acquire more accurate details, providing precise intelligent analysis. Besides, IR LEDs are inbuilt with a wavelength of 850nm and night illumination distance up to 100m. The camera is also applied with Smart IR technology; thus, the power of IR LEDs can be auto adjusted as per the lighting conditions on site and presenting an ideal night operation performance.

It is suitable for prisons, buildings, banks, airports, stations, factories, enterprises, metro, intelligent traffic, highway and other surveillance sites needing HD imaging.

TECHNICAL SPECIFICATIONS

Lens (Visible)		Image	
Image Sensor	1/2.8" progressive scan CMOS	Shutter	Auto/Manual (1/1s~1/32000s)
Optical Zoom	20X	WDR	Up to 120dB
Digital Zoom	12X	Exposure	Auto/Manual
Focal Length	f=5.5~110mm	Sensitivity	Color mode: 0.005Lux (F1.6, AGC ON) B/W mode: 0.0005Lux (F1.6, AGC ON); 0lux (IR ON)
Iris	F1.5~F3.8	White Balance	Auto/Manual/Outdoor
Focus	ABF – Available	Video Adjustment	Brightness, contrast, saturation, hue and sharpness adjustable
FOV(H/V/D)	H: 66.42° (w) ~ 1.83° (T)	Noise Reduction	3D
Lens Mount	C/CS	S/N Ratio	≥62dB
Lens (Thermal)		Defog	Available
Imager Type	-	EIS	Available
Lens Type	-	Mirror	Horizontal/Vertical
Spectral Band	-	Corridor Mode	Available
Pixel Size	-	Day/Night Switching	ICR
NETD	-	AGC	Auto/Manual
Focal Length	-	BLC	Available
FOV	-	HLC	Available
Video		Privacy Mask	Up to 16 definable zones
Camera Resolution (Visible Lens)	2MP	ROI	Up to 8 definable zones
Camera Resolution (Thermal Lens)	-	OSD	Supported
Max. Coding Capacity (Visible Lens)	Major stream: H.264/H.265-30fps@1920x1080 Minor stream: H.264/H.265-30fps@1280x720 Third stream: MJPEG -30fps@1920x1080	Pan/Tilt Functions	
Max. Coding Capacity (Thermal Lens)	-	Preset	-
Data Rate	VBR/CBR- Major stream: H.264- 256Kbps~10240Kbps; H.265- 256Kbps~2048Kbps	Pattern	-
Video Compression	H.265/H.264/M-JPEG	Autopan	-
Multi-Streaming	Three-stream independent output	Normal Tour	-
Video Rotation	Video can be rotated by 90°, 180°	Home Return	-
Audio		Timing Tour	-
Audio Compression	G.711-A/G.711-U/G.726/AAC	Autoscan	-
Sample Rate	8KHz for G.711-A, G.711-U and G.726 16KHz, 32KHz, 44KHz, and 48KHz for AAC	Area Zoom	-
Audio Interface	One inputting, liner lever, resistance: 1kΩ One outputting, liner lever, resistance: 600Ω	IR Illumination	
Two-way Audio	Available	Smart-IR	Available
Mic & Speaker	-	Wave Length	850nm
		Night Vision Distance	100m
		Temperature Measurement	
		Screening	-
		Function	-
		Measurement	-
		Measurement	-
		Distance	-
		Measurement Range	-
		Accuracy	-

TECHNICAL SPECIFICATIONS

Smart Analytics	
Video Analytics	General Functions- Defocus detection, color cast detection, high brightness detection, low brightness detection, anomaly detection, fighting detection and motion detection Density Detection- Density detection and crowd detection Counting Application- Queue length detection, dwelling detection Behaviour Analysis- Cross-line detection, region intrusion detection, loitering detection, motion detection and target stop-moving detection
Storage	
Storage Slots	Support single card
Built-in Storage	up to 512GB
NAS Storage	-
Local PC Recording	Available
Alarm	
Alarm Ports	2 alarm inputs, 1 on-off output
Alarm Input	I/O input, motion detection, intelligent analysis, SD card removal, network disconnection, heartbeat loss
Alarm Association	I/O output, email, FTP uploading, audio, SD card recording, alarm info push
System Functions	
Operating System	Win 7 and higher versions
Browser	IE8 and higher versions
Access Protocol	ONVIF Profile S / G/ T, Infinova CGI
Multiple Access	Up to 5-ch simultaneous access
Web Server	Available
Remote Upgrade	Available
Password Protection	Available
RS485 Port	-
Analog Video Output	-
Maximum Number of Users	10
Wiper	-

Network	
Network Interface	1 RJ45 10M/ 100M self-adaptive Ethernet port
Network Protocols	IPv6, TCP, UDP, IGMP, DHCP, FTP, SNMP (V3), SMTP, NTP, RTP, RTSP, RTCP, HTTP, HTTPS, TSL, SSL, QoS, PPPoE, DNS, DDNS, ARP, ICMP, UPnP
IP Address Filtering	Available
Network Delay	<200ms
Environmental	
Anti-Static	Air discharge: 8KV, contact protection: 8KV
Surge Protection	Difference mode: ±2KV, common mode: ±4KV
Operating Temperature	-22°F ~ 140°F (-30°C ~ 60°C)
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Operating Humidity	≤ 95% RH
Environmental Rating	IP66
Impact Resistance	-
Mechanical	
Manual Speed	-
Preset Speed	-
Rotation Angle	-
Preset Accuracy	-
Electric Motor	-
Electrical	
Power Supply	24VDC /24VAC
Power Consumption	<30W
Physical	
Product Dimension (L×W×H) or (H x D)	440mm X 85mm X 120mm
Package Dimension (L x W x H)	482*225*170mm
Unit Weight	7.27 lbs. (3.3kg)
Shipping Weight	8.48 lbs. (3.85kg)
Certifications	
Product Certifications	CE, FCC, IP66, RoHS

ORDERING INFORMATION

VH161-K220-F1W	HD IR IP Integrated Box Camera, 2MP, 1/2.8"CMOS, 20X, Day/night, H.265/H.264/M-JPEG, IR illumination distance up to 100m, Outdoor, IP66, Bracket mounts, With audio alarm, 24VDC/24VAC
Accessories	
Housing Bracket	
V1573-A	Wall Mount, H/V adjustability for housing (V1405-11SHB-IR), 88.19 lbs. (40 kg) load, Cable Management
V1573-B	Cross-bar Mount, H/V adjustable for VS351 integrated camera and V1406-15S-L housing, 33.07 lbs. (15 kg) load
Power Supply	
N3922-24D-3	AC to DC Power Supply, Plug-In, 230VAC, Output 24VDC, 3A
N3921-24A-2	AC to AC Power Supply, Plug-In, 230VAC, Output 24VAC, 1A
N3922-30P-2	Smart POE Injector, 100VAC-240VAC input, 30W output

DIMENSIONS

