



**WHITEBOX**  
Surveillance **your** way



## WB-B646 4 MP IR Varifocal Bullet Network Camera



### Key Features

- 1/3" Progressive Scan CMOS
- 2688 × 1520 @30 fps
- 2.8 to 12 mm motorized varifocal lens
- H.265+, H.265, H.264+, H.264
- Focusing on human and vehicle targets classification based on deep learning
- Clear imaging against strong backlight due to 120 dB true WDR technology
- Powered by Darkfighter
- IR range: up to 60 m
- BLC/3D DNR/ROI/HLC
- IP66, IK10
- Built-in microSD/SDHC/SDXC card slot, up to 128 GB
- Motorized varifocal lens for easy installation and monitoring

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## Specifications

Camera	
Image Sensor	1/3" Progressive Scan CMOS
Min. Illumination	Color: 0.003 Lux @ (F1.4, AGC ON)
Shutter Speed	1/3 s to 1/100,000 s
Slow Shutter	Yes
Day & Night	ICR Cut
Digital Noise Reduction	3D DNR
WDR	120dB
Power-off Memory	Yes
Lens	
Focal Length & FOV	2.8 to 12 mm, horizontal FOV 108° to 30°, vertical FOV 56° to 17°, diagonal FOV 131° to 35°
Lens Type	Motorized
Aperture	F1.4
Iris Type	Fixed
Lens Mount	Ø14
DORI	
DORI	2.8 to 12 mm (W): D: 64.0 m, O: 25.4 m, R: 12.8 m, I: 6.4 m 2.8 to 12 mm (T): D: 190 m, O: 75.4 m, R: 38.0 m, I: 19.0 m
IR	
IR Range	Up to 60 m
Wavelength	850nm
Smart Supplement Light	Yes
Supplement Light Type	IR
Video	
Max. Resolution	2688 × 1520
Main Stream	50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)
Sub-Stream	50 Hz: 25 fps (640 × 480, 640 × 360) 60 Hz: 30 fps (640 × 480, 640 × 360)
Third Stream	50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) 60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) *Third stream is supported under certain settings.
Video Compression	Main Stream: H.265/H.264/H.265+/H.264+ Sub-Stream: H.265/H.264/MJPEG Third Stream: H.265/H.264 *Third stream is supported under certain settings.
Video Bit Rate	32 Kbps to 16 Mbps
H.264 Type	Baseline Profile/Main Profile/High Profile
H.265 Type	Main Profile
H.264+	Main Stream supports
H.265+	Main Stream supports
Bit Rate Control	CBR/VBR

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## Specifications

<b>Scalable Video Coding (SVC)</b>	H.265 and H.264 support
<b>Region of Interest (ROI)</b>	1 fixed region for main stream and sub-stream
<b>Audio</b>	
<b>Environment Noise Filtering</b>	Yes
<b>Audio Sampling Rate</b>	8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz
<b>Audio Compression</b>	G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/MP3/AAC
<b>Audio Bit Rate</b>	64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC)
<b>Network</b>	
<b>Simultaneous Live View</b>	Up to 6 channels
<b>API</b>	Open Network Video Interface (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK
<b>Protocols</b>	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SNMP, ARP
<b>User/Host</b>	Up to 32 users. 3 user levels: administrator, operator and user
<b>Security</b>	Password protection, complicated password, HTTPS encryption, IP address filter, Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2, WSSE and digest authentication for Open Network Video Interface
<b>Network Storage</b>	MicroSD/SDHC/SDXC card (256 GB) local storage, and NAS (NFS, SMB/CIFS), auto network replenishment (ANR), Together with high-end Hikvision memory card, memory card encryption and health detection are supported
<b>Client</b>	iVMS-4200, Hik-Connect, Hik-Central
<b>Web Browser</b>	Plug-in required live view: IE 10+, Plug-in free live view: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+
<b>Image</b>	
<b>SNR</b>	≥ 52 dB
<b>Day/Night Switch</b>	Day, Night, Auto, Schedule
<b>Image Enhancement</b>	BLC, HLC, 3D DNR
<b>Image Parameters Switch</b>	Yes
<b>Image Settings</b>	Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser
<b>Interface</b>	
<b>Alarm</b>	1 input, 1 output (max. 24 VDC/24 VAC, 1 A)
<b>Audio</b>	1 input (line in), 3.5 mm connector, max. input amplitude: 3.3 Vpp, input impedance: 4.7 KΩ, interface type: non-equilibrium; 1 output (line out), 3.5 mm connector, max. output amplitude: 3.3 Vpp, output impedance: 100 Ω, interface type: non-equilibrium
<b>On-Board Storage</b>	Built-in micro SD slot, up to 256 GB
<b>Hardware Reset</b>	Yes
<b>Ethernet Interface</b>	1 RJ45 10 M/100 M self-adaptive Ethernet port
<b>Event</b>	
<b>Basic Event</b>	Motion detection (human and vehicle targets classification), video tampering alarm, exception
<b>Smart Event</b>	Scene change detection

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## Specifications

Deep Learning Function	
Face Capture	Yes
Perimeter Protection	Line crossing detection, intrusion detection, region entrance detection, region exiting detection
General	
Storage Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)
Startup and Operating Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)
Power Supply	12 VDC ± 25%, reverse polarity protection
Power Consumption and Current	DC: 12 V, 1.08 A, max. 13 W PoE: (802.3at, 42.5 V to 57 V), 0.36 A to 0.27 A, max. 15 W
Power Interface	Two-core terminal plug
Camera Material	ADC12
Camera Dimension	Ø144.1 × 345.7 mm (5.7" × 13.6")
Package Dimension	385 × 190 × 180 mm (15.2" × 7.5" × 7.1")
Camera Weight	Approx. 1445 g (3.2 lb.)
With Package Weight	Approx. 2571 g (5.7 lb.)
Linkage Method	Upload to NAS/memory card/FTP, notify surveillance center, trigger record, trigger capture, send email, audible warning
Web Client Language	33 languages English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian
General Function	Anti-flicker, heartbeat, mirror, privacy masks, flash log, password reset via email, pixel counter
Software Reset	Yes
Approval	
EMC	FCC (47 CFR Part 15, Subpart B); CE-EMC (EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014); RCM (AS/NZS CISPR 32: 2015); KC (KN 32: 2015, KN 35: 2015)
Safety	UL (UL 60950-1); , CB (IEC 60950-1: 2005 + Am 1: 2009 + Am 2: 2013); CE-LVD (EN 60950-1: 2005 + Am 1: 2009 + Am 2: 2013); , LOA (IEC/EN 60950-1)
Environment	CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)
Protection	IP66 (IEC 60529-2013), IK10 (IEC 62262:2002)

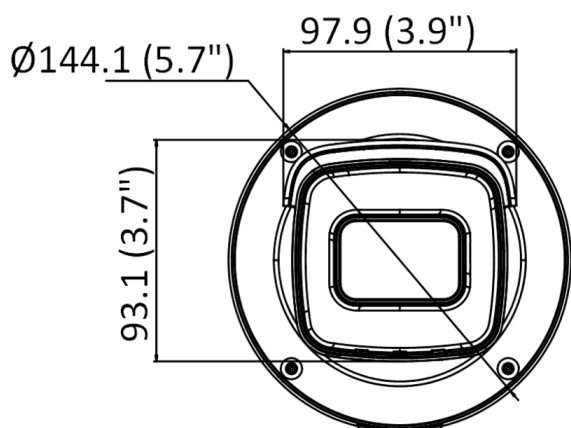
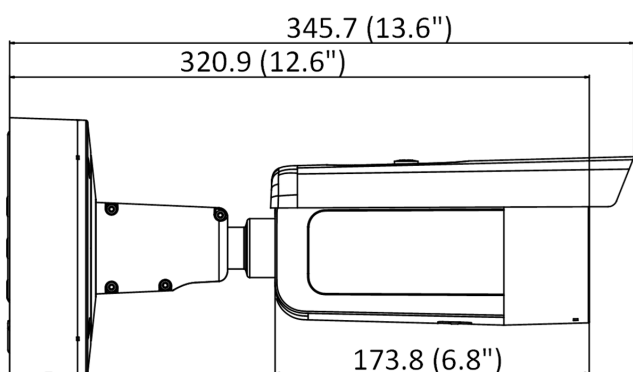
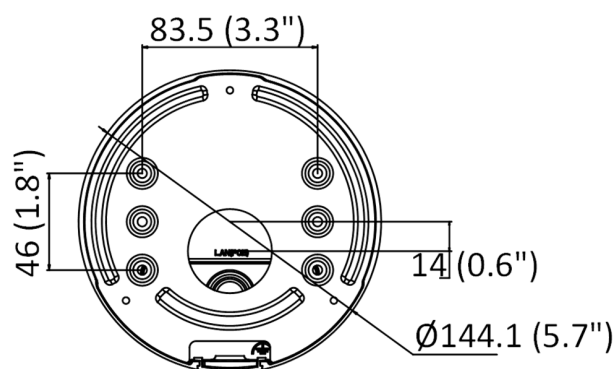
**Available Model:**  
 WB-B646



## Specifications

### Dimension

Unit: mm



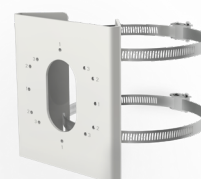
### Accessories



WBA-1475-SUS  
Vertical Pole Mount



WBA-1476-SUS  
Corner Mount



WBA-1275-S-SUS  
Vertical Pole Mount