1080p 30x Zoom Explosion-Proof IP Camera

HEPB302W01A04/HEPB302W01A10

Designed for use in hazardous and challenging environments, Honeywell's new explosion-proof network camera features an ATEX/IECEx-certified 316L stainless steel housing that prevents sparks from escaping and igniting gases or dust in the surrounding air. The cameras provide extremely crisp video with up to 2 million effective pixels, 30x optical zoom, True Day/Night, and True WDR for continuous surveillance in both hazardous-area and safe-area applications.

Rugged Design
- Housing made of AISI 316L stainless steel
- Certified for use in Zones 1 and 2, IIC T5 Group (Gas), and Zones 21 and 22, IIIC T100°C Group (Dust)
- Certified temperature for hazardous area: -60°C to 65°C
- Equipped with preinstalled multipolar armoured cable (4 or 10 m)
- IP66/IP68 weatherproof rating (IP69 for metal housing)
- Built-in heater and wiper with optional ATEX-certified washer system

Superior Image Quality
- 1080p 50/60 fps image with 1/2.8" progressive CMOS
- Wide Dynamic Range, up to 120 dB, for glare-free images
- True Day/Night for vivid colour images by day and clear black-and-white images at night
- Excellent low-light performance with 3D noise reduction, saving storage and bandwidth

Flexible Surveillance Solution
- 4.5–135 mm motorized focus/zoom lens with 30x optical zoom to clearly view target area with desired depth
- H.265/H.264/MJPEG codec, triple stream support
- Support for unicast and multicast streaming
- Support for face detection, intrusion tracing
- Security features include signed certificates and data encryption

Easy to Install and Use
- 12/24 VDC, 24 VAC power input
- Wide range of mounting options
- Remote configuration, motorized zoom adjustments, and autofocus through web client

Market Opportunities
These cameras are ideally suited for oil and gas onshore, offshore, marine, and heavy industrial applications, as well as dusty environments such as those found in the paper and textile industry.
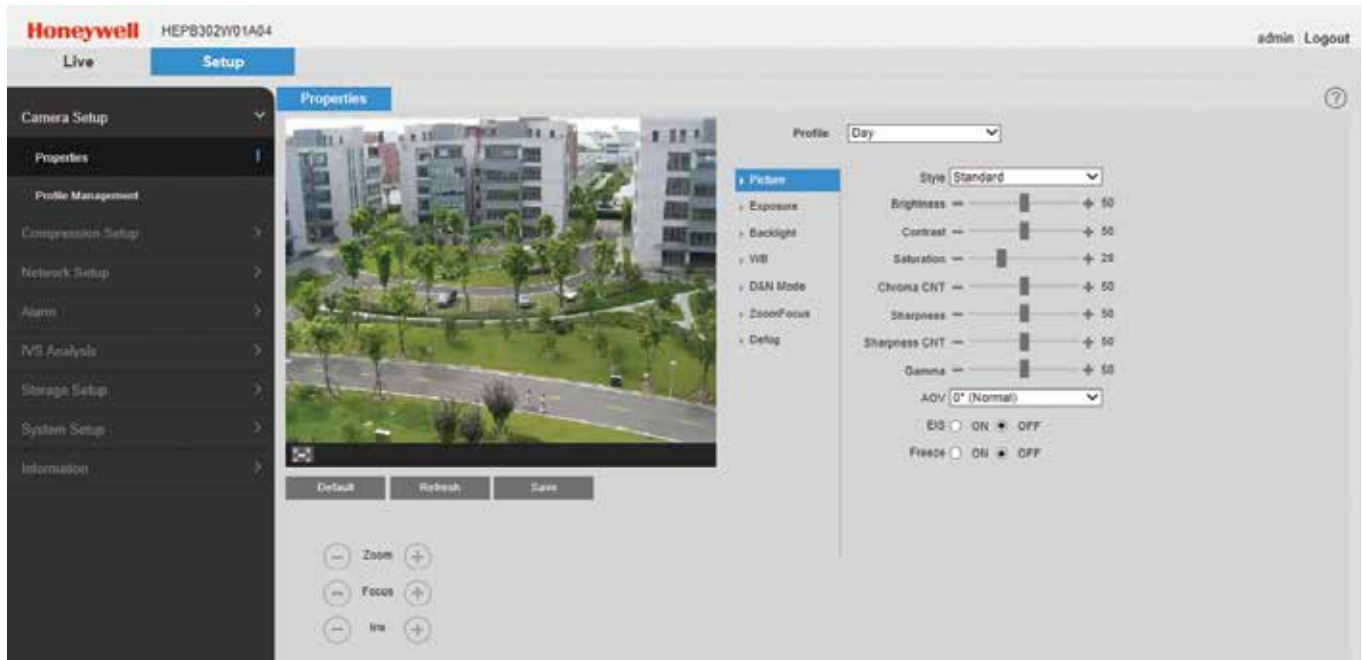
FEATURES AND BENEFITS

- 1/2.8" progressive scan imager
- 4.5–135 mm, F1.6–F1.4, 30x optical zoom lens
- True day/night (IR-cut filter)
- True WDR up to 120 dB

- Ultra low-light performance down to 0.0005 lux B/W
- Multiple, selectable compression formats (H.265/H.264 MJPEG)
- Triple stream support

- Up to 50/60 fps primary stream; up to 25/30 fps secondary stream
- Built-in analytics including face detection and intrusion tracing

- Global language support for Web GUI and online help
- 12/24 VDC, 24 VAC power input 24 VAC power input
- ONVIF Profile S
- IP66/IP68 weatherproof rating

- Built-in heater and wiper
- -60°C to 65°C temperature for hazardous area; -40°C cold start
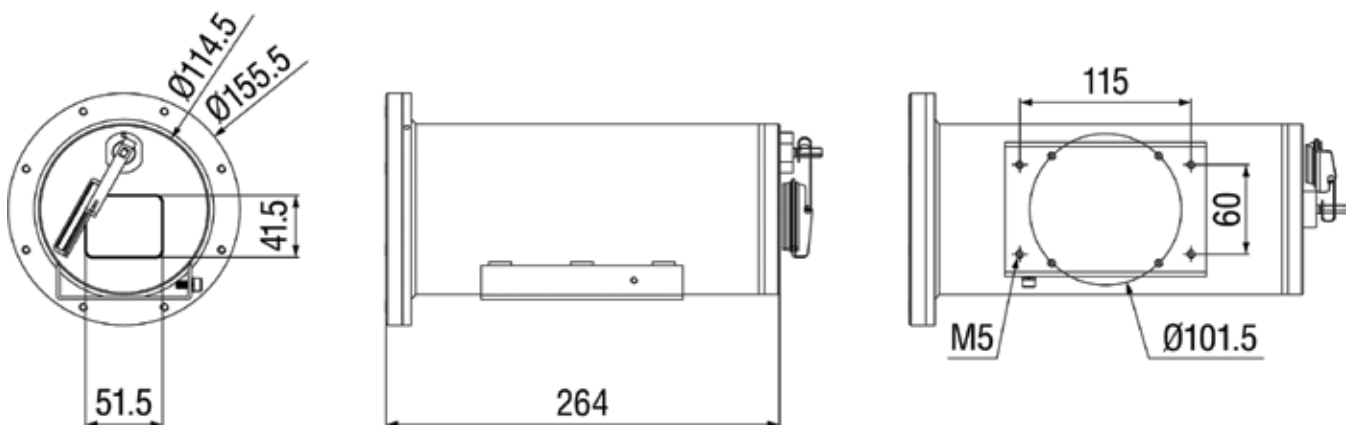- Built-in cybersecurity hardware chipset

Explosion-Proof IP Camera Features

Security Features

The camera can be configured to automatically detect and respond to events such as motion in the scene and/or camera tampering. Automated responses include sending a notification through email, FTP, and/or HTTP, and sending a still image of the event through email and/or FTP. Setup can be done through a web client.

HEPB302W01A04/ HEPB302W01A10 Dimensions

Explosion-Proof IP Camera Specifications

CAMERA	
Image Sensor	1/2.8* Sony Progressive CMOS
Optical Zoom	30x
Digital Zoom	16x
Number of Pixels	1920 (H) × 1080 (V)
Shutter WDR	120 dB
S/N RATIO	55 dB or more (AGC off)
Minimum Illumination	0.005 lux (colour), 0.0005 lux (B/W) @ F1.6
Lens	4.5–135 mm, F1.6–F4.4
Angle of View	H: 62.35°–2.53° V: 37.87°–1.79°
Electronic Shutter Speed	1/1–1/30 000 s
Day/Night	Auto/Colour/BW
Backlight Compensation	BLC/HLC/WDR (120 dB)
White Balance	Auto/Indoor/Outdoor/ATW/Manual
Noise Reduction	3DNR
Electronic Image Stabilization	On/Off
Defog	On/Off
OPERATION	
Privacy Masks	24
Motion Detection	On/Off
Video Analytics	Intrusion trace*; face detection
Event	Intrusion; face detection; motion detect; video tamper; IP address conflict; illegal access
Event Notification	Record to FTP, relay output, email, snapshot
IP SPECIFICATIONS	
Video Compression	H.265/H.264/MJPEG
Video Streaming	Primary Stream: 1080p@ 50/60 fps; 1.3 MP/720p @ 25/30 fps Second Stream: 1080p/1.3 MP/ 720p @ 25/30 fps Third Stream: D1/CIF @ 25/30 fps
Video Resolution	Up to 1920 × 1080 pixels
Interface	RJ45, 10/100 Mbps Ethernet
Supported Protocols**	IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, SSL, ICMP, FTP, SMTP, DHCP, PPPoE, UPnP, IGMP, SNMP, Bonjour, DNS, DDNS, IEEE 802.1x, QoS, NTP, IP Filter, ONVIF, RS485, Pelco P, Pelco D
Security	Multiple user access levels with enhanced password policy, IP filtering, IEEE 802.1X, strong digest authentication for access permission, HTTPS, TLS1.2 only, high-strength encrypted algorithm AES-256, SSH/Telnet closed, FTP disabled to reduce surface being attacked, PCI-DSS compliant, built-in cybersecurity hardware chipset

IP SPECIFICATIONS (CON'T D)	
Maximum Users	20 users
Supported Languages (Web Client/Help)	English, Arabic, Czech, Dutch, French, German, Italian, Japanese, Korean, Polish, Portuguese, Russian, Simplified Chinese, Spanish, Turkish
Web Browsers	Internet Explorer (11.0+), Firefox, Chrome
Supported OS	Windows 7 32-bit/64-bit
Communication	ONVIF Profile S
ELECTRICAL	
Power Source	24 VAC, 2.2 A, 50/60 Hz 24 VDC, 2.2 A or 12 VDC, 3.5 A
Power Consumption	42 W max (with heater on)
MECHANICAL	
Dimensions	264 × 155.5 mm
Weight	HEPB302W01A04: 8.5 kg HEPB302W01A10: 12.0 kg
Connectors	Power Input: 3-pin Digital Input and GND: 2-pin for reset Alarm Output: 1 out RS485: Internal use only for wiper Network: RJ45, 10/100 Mbps Ethernet
Construction	AISI 316L stainless steel, thermally tempered glass
Armoured Cable	HEPB302W01A04: 4 m HEPB302W01A10: 10 m
Cable Glands	Cable gland with gasket, Ex d, 3/4" NPT
ENVIRONMENTAL	
ATEX	II 2 G Ex d IIC T5 Gb II 2 D Ex tb IIIC T100°C Db IP66/68, -60°C ≤ Ta ≤ +65°C
IECEx	Ex d IIC T5 Gb Ex tb IIIC T100°C Db IP66/68, -60°C ≤ Tamb ≤ +65°C
UL LISTED FOR CANADA	Ex db IIC T6...T5 Gb Ex tb IIIC T85°C...T100°C Db Class I Div 2 Group A, B, C&D T6...T5 Class II Div 2 Group E, F&G T85°C...T100°C
Operating Temp	-50°C to 65°C, cold start -40°C
Relative Humidity	10–95%, non-condensing
Ingress Protection	IP66/IP68 IP69 (metal housing only)
REGULATORY	
ATEX	EN 60079-0; EN 60079-1; EN 60079-31
IECEx	IEC 60079-0; IEC 60079-1; IEC 60079-31
Emissions	EN 55032; EN 61000-6-4
Immunity	EN 50130-4
Safety	EN60950-1; EN60950-22
RoHS	EN 50581

* IntrusionTrace from Xtralis. Additional license purchase required. For more information, visit https://xtralis.com/p.cfm?s=1001&p=785

** Some development may be required in specific user cases to support some of these protocols in the field as they mature over time.

Explosion-Proof IP Camera Ordering

System Integration
Open IP Integration
ONVIF support and open API software integration. Refer to www.onvif.org for the ONVIF specification and the Honeywell Open Technology Alliance website (http://www.security.honeywell.com/hota/) to learn more about our open and integrated solutions.

Device Integration	
MAXPRO® NVR Family	Entry to Enterprise Level Network Video Recorders (version 4.10 and greater)
MAXPRO® VMS Family	Entry to Enterprise Level Network Video VMS (version R410 and greater)
DVM	DVM R600.1 SP1
HUS	HUS 5.1

Accessories		
HEPWS		Washer system kit, 10 L, with ATEX–certified solenoid valve, delivery head up to 20 m, 24 VAC/VDC
HCPWM		AISI 316L stainless steel wall mount bracket with joint
HCPPMA		AISI 316L stainless steel pole mount adapter
HCPCMA		AISI 316L stainless steel corner mount adapter
HCPPRM		AISI 316L stainless steel parapet mount bracket
HCPPRMJ		AISI 316L stainless steel parapet mount joint

Device Integration	
HEPB302W01A04	Explosion-Proof IP Camera, 1/2.8" CMOS, 1080p, 30x, 4.5–135 mm MFZ, 12 VDC/24 VDC/24 VAC, H.265, with wiper and 4 m armoured cable, ATEX/IECEx
HEPB302W01A10	Explosion-Proof IP Camera, 1/2.8" CMOS, 1080p, 30x, 4.5–135 mm MFZ, 12 VDC/24 VDC/24 VAC, H.265, with wiper and 10 m armoured cable, ATEX/IECEx

NOTE: Honeywell reserves the right, without notification, to make changes in product design or specifications.

For more information

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