IP Spherical Dome 4 MPx (2.8 mm, IR/WL)

ABUS
Security Tech Germany

COMPACT 4 MPX 24/7 SURVEILLANCE CAMERA

The IP spherical dome delivers the best surveillance images in 4 MPx resolution as a full colour day/night camera. The weatherproof IP67 housing is designed for outdoor use. External white-light LEDs provide clear images day and night. The camera can be accessed from the mobile app at any time.

Top surveillance in the dark

 The infrared LEDs enable detailed black/white night vision. AI-supported object detection can be used to switch to colour night vision when an event occurs. The Gecko series delivers clear colour images in total darkness thanks to full colour day/night technology - rich in detail for conclusive evidence. The slightest residual light is effectively amplified by the special lens and the extra light-sensitive image sensor. The white-light LEDs provide finely dosed extra light for the image sensor.

Best overview

The IP dome overlooks a horiz. viewing angle of 104° or 89° (variant A or B).

Autom. Object recognition

The security camera distinguishes relevant movements (people, vehicles) from disturbances (branches, light, etc.) - and thus minimises unnecessary motion alarms.

Recording and compatibility

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Easy installation

The camera is mounted on the ceiling or wall (wall bracket/Insta. box available). The free "ABUS IP Installer" software is available for integration into a network.

Notes: Without power supply unit, because power is supplied by PoE.

The effective LED range varies depending on the location.

Technologies

- 2-way audio security camera with integrated microphone, loudspeaker and flashing light for intercom to address people and perpetrators, as well as acoustic and visual alarms
- Integrated alarm input/output (I/O) for switching scenarios for effective alarm triggering or optimisation of operating procedures (e.g. sales room)
- 4 MPx resolution (2,688 x 1,520 @ 25 fps) for crisp surveillance images
- 2.8 mm fixed lens for a good overview (110° viewing angle)
- Detailed colour images in the dark thanks to full-colour day/night technology; effectively amplifies even minimal ambient light using a special lens and highly light-sensitive image sensor
- Illumination of the field of view with white light LEDs (up to 30 m range) for accurate colour images in total darkness (e.g. indoors); precisely metered illumination for the light-sensitive image sensor
- Integrated infrared LEDs for detailed black/white night vision and intelligent switching between IR and colour night vision (Gecko)
- Intelligent object recognition (human & vehicle): Video content analysis with fully automatic differentiation between people/vehicles and disturbances (branches, light, etc.)
- Object recognition: Video analysis with differentiation of people/vehicles and disruptive influences
- MicroSD card slot for internal data storage, encrypted for high data security (optional)

Technical data - IP Spherical Dome 4 MPx (2.8 mm, IR/WL)

Additional functions	White light range up to 30 m
Alarming	Flash, loudspeaker, e-mail, NAS, FTP, App Push
Aperture at minimum illumination (colour)	F1.0
Audio	Integrated: Microphone, Loudspeaker; Connectable: Microphone, Loudspeaker
Backlight compensation	WDR, BLC, HLC
Battery - GRS type	ML414H-IV01E
Camera type	Dome
Colour	white

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Compatible with	ABUS NVR/DVR, ABUS Link Station App, ABUS CMS
Compatible with ABUS Link Station	Yes
Compatible with Comfion	Yes
Compatible with Secoris	Yes
Compatible with Secvest	Yes
Compatible with wAppLoxx	Yes
Compatible with wAppLoxx Pro	Yes
Connections	1 x RJ45, 1 x DC, 1 x alarm input, 1 x alarm output, 1 x audio input, 1 x audio output (cable length 220 mm)
DC voltage supply	12 (+/-25 %) V
Day/night switching	ICR/colour/S/W, VCA-controlled between IR and white light
Design	Dome
Diameter	138 mm
Digital zoom	Yes
Dimensions	(LxWxH) 138x138x130 mm
Dynamic range (WDR)	120 dB
Electronic shutter	1/12 - 1/100000 s
Encryption	HTTPS, TLS 1.1/1.2/1.3
Focal length	2,8 mm
Frame rate	1/16, 1/8, 1/4, 1/2, 1, 2, 4, 6, 8, 10, 12, 15, 16, 18, 20, 22, 25 fps
Functions	Sabotage monitoring, region of interest
Gross weight	1,1 kg
Height	130 mm
Horizontal viewing angle	110 °
Housing material	Metal
ICR day/night function	Yes
IP protection class	67
IR LEDs	Yes
IR range (up to)	30 m
Image enhancement	WDR, BLC, HLC, 3D DNR, Vertical Display (not in Smart Event mode)
Image integration	No
Image sensor	1/1.8" Progressive Scan CMOS
LAN network access	RJ45 10M/100M self-adaptive
Language of instructions	DE, UK, FR, NL, DK, IT
Lens	Fixed
Loudspeaker	Yes
Max. humidity	95 %

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Max. operating temperature	60 °C
Max. resolution @ frame rate	2688 x 1520 @ 25 fps
Microphone	Yes
Min. operating temperature	-30 °C
Minimum illumination (IR)	0 lx
Minimum illumination (colour)	0,0005 lx
Motion detection	max. 4 zones (with object detection), max. 8 zones (without object detection)
Net weight	0,8 kg
Network camera protocols	IPv4/v6, HTTP, HTTPS, FTP, SMTP, UPnP, DNS, DynDNS, NTP, RTSP, TCP, UDP, DHCP, ABUS Server, P2P, QoS, 802.1X, IGMP, Bonjour, PPPoE, SNMP
Noise reduction	3D DNR
Number of IR LEDs	2
Number of streams	3
Number of users	32
ONVIF	Profile G, S, T
OSD language	DE, UK, FR, NL, DK, IT
Other functions	Object recognition person/vehicle
PSTI conformity given	Yes
PSTI conformity required	Yes
Pixels (effective)	2688(H) x 1520(V) pixel
PoE standard	IEEE 802.3af
Power consumption	600 mA
Private zones	4
Product security updates at least until	2026-09-01
Relay output	1
Resolution	4 MP
Resolution modes	Stream 1: 2688 x 1520 @ 25 fps, Stream 2: 640 x 480 @ 25 fps, Stream 3: 1920 x 1080 @ 10 fps (only with VCA off)
Storage medium	Optional microSD card (max. 512 GB)
Supported browsers	Google Chrome, MS Edge, Mozilla Firefox, IE11
Technology	IP
Vertical viewing angle	57 °
Video Content Analysis (VCA)	Human & vehicle object detection for tripwire detection, intrusion detection, area entry, area exit
Video compression	Stream 1: H.264, H.265, Dynamic GOP (+), Stream 2: H.264, H.265, MJPEG, Stream 3: H.264, H.265
Video network bandwidth	32 kBit/s - 8 MBit/s

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Video system	IP
White balance	AWB, manual
White-light LEDs	2
White-light range (up to)	30 m