



Orbit X is the toughest, most intelligent and smallest explosion-protected camera. It has an HD image sensor, two LED lamps and a laser pointer. This means in potentially explosive atmospheres it is also possible to take photos and record videos, hold live wireless video conferences and use video streaming for monitoring. Using 1080p Wi-Fi, the camera with its compact and robust design can record, stream and display videos and 8 megapixel stills. Images and videos recorded in the field can then be transmitted via USB to any computer. Orbit X offers the option of remote management using the Collaboration X Device Management System. The camera can be connected by Wi-Fi to any Android device. The SIPIDO app is also included by way of standard, permitting video conferencing by Wi-Fi in full HD.

Explosion protection

Marking ATEX	II 2G Ex ib op is IIC T4 Gb
Certification	Sira 14ATEX2287X
Marking IECEx	Ex ib op is IIC T4 Gb
Certification	SIR 14.0105X
Marking CSA	Class I, Ex ib op is IIC T4 Gb Class I, AEx ib op is IIC T4 Gb
Certification	CSA file: 70009910
Other approvals and certificates, see www.bartec.de	

Technical data

Protection class	IP 68 water proof
Shock resistance	Shock-resistant to 4 Joules/ Drop-resistant to 2 metres
Wireless	CE and FCC compliant
Temperature range	
Operating temperature	-20 °C to +45 °C
Storage temperature	-40 °C to +60 °C
Video and imaging	
Video resolution	Full HD video (1080p, 30 fps (frames per second))
Image resolution	8 megapixel stills
Buttons	Power/standby, light/laser and video/photo/call
Codecs	H.264/AVC
Memory	16 to 32 GB of internal video and image storage
Image sensor	1/3 inch high-end CMOS sensor (8 Mpix)
Light modes	Powerful video LED light

Dimensions and weight	
Length	117.5 mm
Diameter	27 mm
Weight	105 g
Storage temperature	-40 °C to +60 °C
Operating temperature	-20 °C to +45 °C
Camera glass	Gorilla Glass impact-proof
Material	Aluminium
Surface	Hard anodised scratch-resistant surface
Mounting	Fixtures for attaching to helmet and for wall mounting included with delivery
Connectors	Covered USB and audio jack (non ATEX version available with micro HDMI)
Power supply	
Battery	1000 mAh
Standby	200 hours
Video streaming	Up to 1 hour
Video recording	Up to 1.5 hours
Applications	
HD Video conference	SIPIDO app
Management solution	Collaboration X
Third party apps	Google Play
Web Media Gallery	View images and video in browser
Core features	
Operating system	Android 7.1.2 Nougat
CPU	Dual core 1.2 GHz
Video codec	1080p, 30 fps video
Wireless	
Bluetooth	Bluetooth
Wi-Fi	802.11 a/b/g/n (2.4 + 5 G)
Audio	
Microphone	2 digital (speech + surroundings), active noise cancelling
Audio communication	Full duplex
Audio codecs	CD quality AAC LC/LD
Bluetooth	Bluetooth audio headset support
Headset	3.5 mm audio jack



Pairing	
Wireless pairing	Connect to Android smartphone using Orbit X
Network functions	
Video conferencing	SIP, H.323
Streaming	ISMA, RTSP, HTML5, WebRTC, Onvif
Firewall	Firewall traversal technology
STUN	STUN server support
QoS	Diffserv, IP precedence (QoS)
Scope of delivery	
Helmet mount	
Wall mount	
USB charger	Specify EU/US/UK and AU version when ordering
User manual	Quick guide and online manuals
Warranty	1 year

Ordering information

Orbit X for Europe	17-K123-10121110000
Orbit X for US	17-K123-101211120000
Orbit X for Australia	17-K123-101211130000
Orbit X for UK	17-K123-101211140000

Technical data subject to change without notice.