Orbit ✕® Explosion-proof Wi-Fi Camera

Power/standby
Light/laser
Recording/snapshot/call

Battery indicator
Wi-Fi indicator
3.5 mm audio jack
USB 2.0

Camera
Status LED
Two LED lights
Integrated laser pointer
Microphone
Status LED
Microphone

Dual Band Wi-Fi	High end imaging	Sync to USB	Cloud managed	Rugged/waterproof	Zone 1

FULL HD VIDEO CONFERENCING

The Orbit X is nothing short of a technological innovation statement by BARTEC PIXAVI. The compact and rugged camera can record and transfer 1080p videos and 8 megapixel stationary images by Wi-Fi. Images and videos recorded locally can similarly be transferred to any computer via USB. Orbit X has an internal memory of 32 GB, offering space for thousands of photos and several hours of HD videos.

Since the camera is running Android, there are many customization options available. As standard, we are bundling the SIPIDO app that allows you to do full HD video conferencing wirelessly. The Wi-Fi camera can stream video to any SIP or H.323 video conferencing system. The Orbit X is configureable from the cloud using Collaboration X Mobile Device Management System.

INTEGRATED LED & LASER

The Orbit X is equipped with two powerful video light LEDs for dark scene illumination. It is designed for use in confined, dark and hard to reach areas. The LED light will not trigger any optical alarms. The integrated laser pointer allows for easy collaboration when in a real time communication session and can be used for pointing and explanation. The light and laser can be toggled on/off with the touch of a button.

CONNECTIVITY AND MANAGEMENT

The Orbit X can be managed remotely using the Collaboration X Device Management System. It can also be paired wirelessly with any Android device and can connect to PC and control via USB display function, install apps and configure Android settings. The Orbit X configurator app, which makes configuration simple and intuitive whilst offering further functions, is available at Google Play.

THREE MODES OF OPERATION

The Orbit X explosion-proof Wi-Fi camera is very versatile and can be used for a wide range of inspection, maintenance, documentation, communication and collaboration tasks. The three modes are:

1. Standalone camera or camcorder with local recording
2. Smartphone pairing via Wi-Fi using Orbit X configurator app
3. Network camera and video conferencing managed from the cloud

BUTTONS AND INDICATION

BARTEC PIXAVI has worked hard to make this camera as easy to use as possible. Each function has a dedicated button: light/laser, recording/snapshot and on/off. It comes with a simple quick guide and is very easy to set up for the first time. You can use the Impact X intrinsically safe smartphone or a regular Android smartphone to pair the Orbit X with a network the first time.

HEADSETS

The headset connection allows for the camera to be used as a complete wireless video headset with a direct audio output that works with any headset. The Orbit X also has built in Bluetooth for wireless headsets.

UNIVERSAL MOUNTS

The Orbit X can be used in a wide range of applications. BARTEC PIXAVI has therefore made a set of customized mounts that allows to use the camera wherever you want. The Orbit X is shipped with helmet and wall mounts.

« Orbit X is the toughest camera for hazardous areas you have ever seen. And the smartest. »

APPLICATIONS	FEATURES	BENEFITS	SPECIFICATIONS
Remote diagnostics	HD video streaming	Make better decisions	Internal 32 GB memory
Tele buddy mode	High end imaging	Increase flexibility	IECEx and ATEX
Inspection and maintenance	Light and flexible	Decrease travel expenses	Rugged, IP 68
Surveillance	Powerful LED	Improve work routines	Dual Band Wi-Fi

The Orbit X is the toughest, smartest and smallest IECEx and ATEX Zone 1 explosion-proof camera. It has its own operating system, an HD image sensor, two LED lights and a laser point in an ultra-compact design.

This enables the user to capture images and videos as well as conduct live video conferencing and CCTV type video streaming sessions wirelessly in any hazardous area.

Certifications

Explosion protection

Marking ATEX	⟨Ex⟩ II 2G Ex ib op is IIC T4 Gb
Certification	Sira 13ATEX5134X
Marking IECEx	Ex ib op is IIC T4 Gb
Certification	SIR 13.0047X
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	4 Joule shock/2 meter drop
Wireless	CE and FCC compliant
HS Code	8525.80.0035
Country of Origin	«Made in Norway»

Video and imaging

Video resolution	Full HD video (1080p, 30 fps)
Image resolution	8 megapixel still images
Buttons	Power/standby, light/laser and recording/snapshot/call
Codecs	H.264/AVC
Storage	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

Physics

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 anodized scratch free surface
Mounting	Helmet, wall mount included
Connectors	Covered USB and audio jack (non ATEX version available with micro HDMI)

Power

Battery	1000 mAh
Standby	200 hours
Video streaming	Up to 1 hour
Video recording	Up to 1.5 hours

Applications

HD Video collaboration	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 5.1.1 Lollypop
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

Microphones	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 with Orbit X Configurator app

Networking

Video conferencing	SIP, H.323
Streaming	ISMA, RTSP, HTML5, WebRTC, Onvif
Firewall	Firewall traversal technology
STUN	STUN server support
QoS	Diffserv, IP presedence (QoS)

Scope of delivery

Helmet mount	
Wall mount	
Charger	USB charger included, EU/US/UK and AU version specified on order
User manual	Quick guide and online manuals
Warranty	1 year