BARTEC SP9EX1 Smartphone Cam version

For Zone 0/1 and Div1 hazardous areas



The BARTEC SP9EX1 Smartphone Cam version is the world's most compact camera for Zone 0/1 and Div1. Designed for hazardous environments, it combines advanced safety features with high performance. It offers a broad range of accessories, runs on Android™ 15, and provides comprehensive lifecycle support.

The BARTEC SP9EX1 Smartphone Cam version is tailored for professionals working in hazardous environments, ensuring reliable data management. This device is ideal for field workers, engineers, and safety inspectors who need a secure and durable device in challenging conditions. Its capability to record 4K video and capture high-quality still images in low light allows users to document their work effectively and accurately, even in demanding situations.

- Android™ 15 with Google Mobile Services
- 6.1" AMOLED
- 48 MP Back Camera
- 8 MP Front Camera
- Faster, future-ready wireless connections with WiFi 6

BARTEC

Explosion protection

Marking ATEX	II 1G Ex ia IIC T4 Ga II 2D Ex ia IIIC T135°C Db IP64
Certification	UL 24 ATEX 3153X
Marking IECEx	Ex ia IIC T4 Ga Ex ia IIIC T135°C Db IP64
Certification	IECEx UL 24.0004X
Marking NEC/CEC 500/505	Class I, Div 1, Groups A, B, C and D; Class II, Div 1, Groups E, F and G; Class III, T4 Zone 0, AEx ia IIC T4 Ga Zone 21, AEx ia IIIC T135°C Db Ex ia IIC T4 Ga Ex ia IIIC T135°C Db
Certification	E226123

Other approvals and certificates, see www.bartec.com

User environment

Operating temperature	-20 °C to +55 °C (-4 °F to +131 °F)
Charging temperature	0 °C to +45 °C (32 °F to +113 °F)
Storage temperature (without battery)	-30 °C to +60 °C (-22 °F to +140 °F)
Protection class (IEC 60529)	IP68
Drop specification	tested according to MIL-STD-810H

Technical data

Processor	Qualcomm® QCM6490 Octa Core 2.7 GHz
Memory (RAM)	8 GB
Mass storage	128 GB
Operating system	Android™ 15 Upgradeable to Android™ 16. Further upgrades are subject to Qualcomm's confirmation.
Size (L x W x H)	168.7 mm x 83.4 mm x 17.9 mm (6.6 inch x 3.3 inch x 0.7 inch)
Weight (with battery)	350 g (0.77 lb)
Display	6.1" AMOLED
Resolution	1080 x 2340 Pixel
Front glass	Gorilla® Glass Victus® (generation 8)
Touch function	Capactive Touch
Usability	Stylus, bare or gloved fingertip input
Battery	Lithium-ion battery 3.68 V/4300 mAh (15.8 Wh); Must only be changed and charged outside hazardous areas.
Notifications	Audible tone: multi-color LEDs; vibration
Voice & Audio	Two microphones; Vibrate alert; Speaker; Bluetooth wireless headset support, High quality speakerphone
Buttons	1x on/off button 2x programmable function button (for PTT, Emergency call or other functions) 1x volume buttons (+/-)
External I/O	Charging pins USB-C Port

Technical data

Sensors	Accelerometer/Gyroscope Magnetometer/Compass Pressure/Barometer Proximity Ambient light
NFC	Read/write NFC tags (e.g. ISO 14443 Type A), contactless payments and card emulation
Rear Camera	– 48 MP with Auto Focus – Zoom: Digital 8x – Field of View (FOV): 82.5° ±3° (Diagonal); 70.1° (Horizontal); 55.5° (Vertical) – Effective Focal Length: 4.7 mm – F-number (Aperture): f/1.79 ±5% – Distortion: < 1.5% – Nearest Focus Distance: 7.5 cm – Still Image Capture : 8000×6000 (48MP); 4000×3000 (12MP, Quad Bayer) – Video Capture: 3840×2160 @30fps (4K); 1920×1080 @120fps (Slow-Mo / Hi-Speed) – Barcode scanning supported (third-party software required)
Front Camera	– 8 MP with Fixed Focus – Zoom: Digital 8x – Field of View (FOV): 76.9° (Diagonal); 64.9° (Horizontal); 50.1° (Vertical) – Effective Focal Length: 2.83 mm – F-number (Aperture): f/2 – Distortion: < 2% – Still Image Capture: 3264×2448 (8MP) – Video Capture: 1920×1080 @30fps; 1280×720 @60fps (Slow-Mo / Hi-Speed)
WLAN-WiFi	– Wi-Fi 6 IEEE 802.11a/b/g/n/ac/ax – 2x2 MU-MIMO – Dual band Simultaneous Up to 3.6 GBps data rate & 160 MHz bw.
GNSS	GPS, A-GPS, Glonass, Galileo and BeiDou
Bluetooth	Bluetooth® 5.2 including Low Energy long range and multiple broadcasts
Warranty	2 years for BARTEC SP9EX1 Smartphone 6 month for battery and accessories
Service contract	ALL-IN
Scope of delivery	– BARTEC SP9EX1 Smartphone – Battery – Battery tool – USB-C cable – Quick Start Guide
Also required	(not included in the delivery) – USB-C Charger (e.g. Wall Charger Type G7-S0Z0-0014/0015/0016/0017)

Accessories

See datasheet:
BARTEC SP9EX1 Smartphone/BARTEC SC9EX1 Smartscanner Accessories
Ensure safety in hazardous areas by using only original BARTEC accessories.

Ordering information

BARTEC SP9EX1 Smartphone Cam version	17-S19P-31110112

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