

BARTEC SP9^{EX1} Smartphone Cam version

For Zone 0/1 and Div1 hazardous areas



The BARTEC SP9^{EX1} 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 SP9^{EX1} 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

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 SP9 ^{EX1} Smartphone 6 month for battery and accessories
Service contract	ALL-IN
Scope of delivery	– BARTEC SP9 ^{EX1} 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 SP9^{EX1} Smartphone/BARTEC SC9^{EX1} Smartscanner Accessories
Ensure safety in hazardous areas by using only original BARTEC accessories.

Ordering information

BARTEC SP9 ^{EX1} Smartphone Cam version	17-S19P-31110112
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