Data Sheet CUBE 800

ATEX	⟨Ex⟩ II 2G Ex ib op is IIC T4 Gb IP64	
	⟨Ex⟩ II 2D Ex ib op is IIIC T135°C Db IP64	
IECEx	Ex ib op is IIC T4 Gb IP64	
	Ex ib op is IIIC T135°C Db IP64	
CSA	*Pending!*	

Technical Data

Optical performance	■ 13 MP camera (3 x digital zoom) ■ 10 cm to infinity focus range ■ Automatic focus and white balance ■ Integrated LED illumination ■ Class 1 laser aiming pointer

Thermal imaging camera	■ Longwave infrared, 8 ... 14 μm
	■ < 50 mK thermal sensitivity
	■ Auto flat field correction (FFC)
	■ Typical measurement accuracy:*
	  Greater of +/- 5 °C or 5% where scene temperature = -10 °C ... +120 °C
	  Greater of +/- 10 °C or 10% where scene temperature = +120 °C ... +450 °C

Audio	■ Built-in omni-directional microphone for ambient sound ■ Built-in speaker for CUBE status alerts
Video standard	■ H.264 / AVC ■ HD capture and stream up to 1080 pixel resolution ■ Frame rates up to 30fps
Communication	■ Configuration and live collaboration using Onsight Connect software iOS 11, AndroidTM 5.0 (Lollipop) or higher ■ Integrated IEEE 802.11 a/b/g/n ■ Dual-band WiFi (2.4 GHz and 5 GHz) ■ Bluetooth® 4.1 (LE) for pairing to host device ■ Direct Wifi connection to the host phone
Media capture and storage	■ 48 GB onboard storage ■ USB cable for file transfer
Security	■ WLAN network authentication: WPA, WPA2, WPA-PSK, WPA2-PSK, open ■ WLAN data encryption: AES, WEP, TKIP, or disabled ■ 802.1 x authentication: PEAP ■ AES-256 media encryption for file storage
Rugged features	■ 6-foot drop to concrete at 20 °C ■ 75 mm (W) x 64 mm (H) x 50 mm (D) ■ IP64
Operating ambient temperature	■ Optical camera: -20 °C ... +55 °C ■ Thermal imaging: -10 °C ... +55 °C
Storage temperature	■ -30 °C ... +60 °C (greater than 3 months max. +45°C)
Humidity (non-condensing)	■ Short-term storage (up to 3 months) minimum 5 %, maximum 85 % ■ Operating minimum 5 %, maximum 95 % RH
Altitude	■ Storage (12 °C) minimum 0 ft, maximum 15,000 ft ■ Operating (27 °C) minimum 0 ft, maximum 10,000 ft
Power	■ Rechargeable 2200 mAh Li-Ion battery ■ 5 V DC, 1.8 A AC adapter ■ Charging from any standard USB port ■ Magnetic charging connector ■ Up to 4 hours of runtime, depending on media and illumination settings

*Depends on usage and environmental condition.

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