

Onsight 2000Ex

Mobile Collaboration Device

The Onsight 2000Ex is a mobile collaboration device certified for use in potentially hazardous locations such as oil and gas or chemical processing that require a hazardous location approval. Using the Onsight 2000Ex, field operators can share, consult, and resolve issues in real time with other professionals. Powered by the Onsight Mobile device software, the Onsight 2000Ex provides a total mobile collaboration solution for these challenging environments.

Features

- Hand-held wireless mobility
- Real time, high quality video stream for immediate collaboration
- 2-way audio through VOIP with both speakerphone and headset modes
- Ability to make video / audio calls to SIP enabled video conferencing endpoints
- Outstanding optical performance featuring 10x zoom and 1 cm (1/2 inch) macro
- Advanced security, encryption and authentication features
- Recording capability, still image capture, on-screen drawing
- Integrated 802.11 b/g wireless networking
- High resolution viewfinder with touch screen support
- Image sharing mode for low bandwidth network connections
- Bidirectional image and video file sharing between the field and expert
- An intuitive touch screen user interface for easy operation in the field
- Class I, Division 2 and Zone 2 Approved
- Operating temperature: -10°C +40°C
- IP64 Enclosure rating
- Chemical resistant exterior and able to withstand 4 foot drop



A Complete Mobile Collaboration System

This mobile device is part of Librestream's patented Onsight mobile collaboration system. Together with Onsight Expert, the companion desktop application, the Onsight mobile devices can immediately connect internal experts, who may be thousands of miles away, to situations needing their experience and instruction. With the power of Onsight, your experts are leveraged and can collaborate with field workers to resolve issues, fix problems or monitor situations regardless of where they are located.



Technical Specifications

General

- Microsoft Windows CE 5.0
- Rechargeable 2400 mAh Li-Ion battery
- SD/SDHC memory card for storage
- 1/4-20 UNC thread for tripod mounting

Optical Performance

- CCD image sensor
- 10x optical zoom, f=4.2mm (wide) to 42 mm (tele), F1.8 to F2.9
- 10mm minimum working distance (wide end)
- 1000 mm minimum working distance (wide end)
- Manual and automatic focus
- Manual and automatic white balance
- Integrated illumination

Optional Expansion Module

- Audio-in
- S-video in/out
- RJ45 10/100 Mbps ethernet
- USB

Audio

- VoIP: G.711, GSM 6.10
- Subject Audio: G.711, GSM 6.10
- Omni directional microphone
- Microphone/line-in input for capture of subject audio synchronized with video
- Speakerphone with acoustic echo cancellation
- Headset support

Video Standard

- MPEG-4 simple profile @ L3 or H263
- Up to D1 (720 x 480) at 30 fps

Display

- 3.7 VGA 640 x 480 display
- Integrated touch screen

Communications

- SIP call control
- Integrated IEEE 802.11 b/g
- RJ-45 10/100 Mbps ethernet

Security

- User ID and password control
- WLAN network authentication: WPA, WPA2, WPA-PSK, WPA2-PSK, open
- WLAN Data Encryption: AES, WEP, TKIP, or Disabled
- 802.1x Authentication: EAP-TLS, PEAP
- Media Encryption: AES-128

EMC

- Canada – ICES-003 Class B
- USA – FCC, CFR47, Part 15, SubpartB – Class B
- EN55011 Class B
- IEC61000-6-2
- EN301 489-1
- IEC61000-6-2

RF Exposure (SAR)

- IEEE C95.1
- Industry Canada RSS-102
- FCC OET Bulletin 65 (supplement C)
- EN 50360

Radio Compliance

- Industry Canada standard RSS-210
- FCC Part 15, Sub-part C, Sec. 15.247
- ETSI EN 300 328

Safety

- Canada - CSA C22.2 60950-1
- USA - UL 60950-1
- EU - IEC 60950-1

Dimension and Weight

- Weight (incl. battery) – 1040 grams (2.3 lbs)
- Size – 187 mm (7.36”) wide x 127 mm (4.09”) high x 108 (4.25”) mm deep

Temperature

- Storage – minimum -20°C maximum 60°C
- Operating – minimum -10°C maximum 40°C

Humidity (non-condensing)

- Short term storage (up to 3 months) minimum 5% Maximum 85%
- Operating minimum 5% maximum 95%

Altitude

- Storage (12°C) minimum 0 ft, maximum 15,000 ft
- Operating (27°C) minimum 0 ft, maximum 8,000 ft

Drop

- 4 feet to steel or concrete at 20°C

Enclosure Class

- IP64

Chemical Resistance

- Resistant to engine oil, gasoline, diesel fuel, & water/glycol mix

Explosion Protection Ratings

- USA/Canada: Class I, Division 2, Groups A, B, C, D
- USA: Class I, Zone 2 AEx nA IIC
- Canada: Class I, Zone 2 Ex nL IIC
- EU: ATEX Directive 94/9/EC II 3G Ex nL IIC
- International: IECEx Ex nL IIC Gc
- Temperature rating T5, Ta = -10°C to +40°C

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