INTRINSICALLY SAFE
WEARABLE FOR EX-RATED ENVIRONMENTS.

Designed for safe operation in Ex-certified environments, the Onsight Cube-Ex is an intrinsically safe ATEX Zone 1/21 industrial wearable. Perform hands-free collaboration and enhance self-guided inspections with HD video and thermal imaging.

The multi-purpose design of the Cube-Ex allows for hands-free, handheld, and monopod use to capture visuals in hard to reach places. The magnetic auto-latch mount provides an easy and secure way to attach the Cube-Ex to a hardhat.

With dual cameras inside, users can switch between optical, thermal, and fusion camera modes. The laser aiming pointer and built-in light ring provide additional guidance and the ability to illuminate poorly lit environments.

The integrated thermal imaging camera provides infrastructure health analysis and trending information while the optical camera provides HD video and images. Fusion mode overlays the optical and thermal imaging cameras for higher definition.
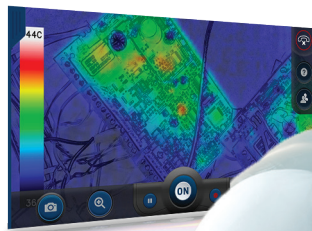
Choose to capture and store visuals directly on the Cube-Ex, or simply pair with an Onsight Connect enabled mobile device to control the Cube-Ex remotely.

View live visuals from the Cube-Ex on your paired device and remotely control the Cube-Ex, adjusting zoom and lighting, taking pictures or creating recordings.

The Cube-Ex supports the full Onsight platform to extend the value of this content. With Onsight Workspace enabled, you can securely upload and access pictures, recordings and data. With Onsight Connect Enterprise, you can bring in remote experts for live collaboration.

DUAL CAMERAS
HD optics and thermal imaging for complete asset analysis.

MULTI-USE DESIGN
Mount to a helmet for hands-free, attach a monopod, or use handheld for hard to reach areas.

CAPTURE CONTENT
Record video and store pictures on the Cube or using an Onsight Cube enabled device.

ILLUMINATION
Illuminate low lit areas with powerful built-in light ring and guide users with the laser aiming pointer.

EX-CERTIFIED
EX Certified design for safe operation in Zone 1 environments.

MULTI-USE **CAMERA.**

HARDHAT
Mount to a hard hat for hands-free use.

HANDHELD
Hold the device for up-close inspections.

MONOPOD
Attach to monopod for hard-to-reach areas.

DESIGNED WITH
SAFETY IN MIND

For safe operation in potentially hazardous locations, the Cube-Ex has Zone 1 and Class 1, Div 1 EX certifications. The Cube-Ex is built for non-destructive inspections and with integrated safety features. The body of the Cube-Ex includes a dual attachment mounting system. This mounting system securely attaches to hardhats with an over-the-helmet attachment and lanyard clip for dual connection. While using handheld, the wrist lanyard protects from accidental drop protection.

ONSIGHT CUBE-EX
TECHNICAL SPECIFICATIONS

PHYSICAL
- Flexible wearable design for hardhat and climbing helmet accessories
- Magnetic auto-latch system for easy mount and dismount
- Handheld option with safety lanyard
- 1/4-20 UNC thread tripod for stationary mount

OPTICAL PERFORMANCE
- 13MP camera
- 3x digital zoom
- 10cm to infinity focus range
- Automatic focus and white balance
- Integrated LED illumination
- Class 1 Laser aiming pointer

THERMAL IMAGING CAMERA
- Longwave infrared, 8-14µm
- <50mK thermal sensitivity
- Auto Flat Field Correction (FFC)
- Typical Measurement Accuracy*:
  Greater of +/- 5 C or 5% where scene temperature = -10°C to +120°C Range
  Greater of +/- 10 C or 10% where scene temperature = +120°C to +450°C Range

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 1080P resolution
- Frame rates up to 30fps

COMMUNICATIONS
- Configure and remotely control the Cube using Onsight Connect in Capture mode or with a Connect Enterprise license on an iOS 11, Android 5.0 (Lollipop) or higher mobile device.
- For live remote expert assistance, a Connect Enterprise license is required.
- Integrated IEEE 802.11 a/b/g/n
- Dual Band WiFi (2.4GHz and 5GHz)
- Bluetooth 4.1 (LE) for pairing to host device
- Haptic feedback
- Direct Wifi connection to the host phone

ACCESSORY KIT
- Hardhat Mount
- Climbing Helmet
- Monopod

MEDIA CAPTURE & STORAGE
- 48GB onboard storage
- USB cable for file transfer
- Date and time stamping of all media
- Cube media tagged with location data from host device if enabled

SECURITY
- WLAN network authentication: WPA, WPA2, WPA-PSK, WPA2-PSK, open
- WLAN Data Encryption: AES, WEP, TKIP, or Disabled
- 802.1x Authentication: PEAP
- AES-256 Media Encryption for file storage

RUGGED DESIGN
- 6 foot drop to concrete at 20°C
- 75 mm wide x 64 mm high x 50 mm deep
- IP64 enclosure rating
- MIL-STD-810G (or 202G) Salt atmosphere
- ANSI/ASAE EP455 exposure rating

HAZARDOUS ENVIRONMENT
- Zone 1 and Zone 21
- Class I Div 1, Class II Div 1 and Class III, Div 1, Groups A-G
- Temperature Rating T4, Ta = -20 to +55°C
- ATEX, IECEx, NEC, CEC and InMetro approved

EMC
- Industry Canada ICES-003 Class B
- FCC, CFR47, Part 15, Subpart B–Class B
- EN 55032 Class B
- ETSI EN 301 489
- IEC 61000-3-2
- IEC 61000-3-3

RF EXPOSURE (SAR)
- IEEE C95.1
- Industry Canada RSS-102
- FCC OET Bulletin 65 (supplement C)
- EN 50566

RADIO COMPLIANCE
- Industry Canada RSS-210
- FCC Part 15, Sub-part C, Sub-part E
- ETSI EN 301 893
- ETSI EN 300 328

SAFETY
- Canada - CSA-C22.2 62368-1
- USA - UL 62368-1
- EU - EN 62368-1

OPERATING AMBIENT TEMPERATURE
- Optical camera: -20°C to +55°C
- Thermal Imaging: -10°C to +55°C

STORAGE TEMPERATURE
- -30°C to +60°C
- Storage greater than 3 months maximum +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 mA·h Li-Ion battery
- 5VDC, 1.8A AC Adapter
- Charging from any standard USB port
- Magnetic charging connector
- Up to over 4 hours of runtime, depending on media and illumination settings

*   Depends on usage and environmental conditions