UVIRCO TECHNOLOGIES

CoroCAM® 8

Combined LWIR and SB-UV camera

The **CoroCAM® 8** combines a FLIR® radiometric thermal camera with the CoroCAM®solar blind UV camera system, allowing simultaneous detection and location of corona discharges and hotspots, saving time and effort.

Co-location of electrical discharges and hot spots give the inspector more insight into the cause of a fault.

Advanced UVc image enhancement features are available to increase sensitivity (adjustable Long Integration & Non-Solar Blind Mode), reduce false signals (adjustable Noise Reduction & Threshold Level) and improve the visibility of the discharge indicating blob (adjustable Background Priority, Blob Transparency and Blob False Color).

PRODUCT HIGHLIGHTS:

Combined UVc/Visible & Thermal IR imaging | Radiometric LWIR | High sensitivity UV camera | Adjustable UV image optimization | Non-Solar Blind mode | Transparent UV overlay | High visible zoom | UCF recording | GPS booster antenna port | Onboard microphone and speaker | Adjustable Viewfinder | Rotating LCD display | Fast start up| User profiles | I/O connectors (Ethernet, HDMI, USB, RS232/485) | Remote Control | One handed operation | Short cut keys on left | Simple & powerful user interface | Optimal Ergonomic Design | 15 month warranty

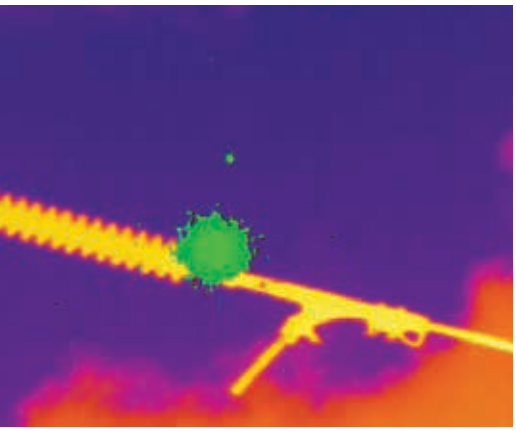
NOTABLE FEATURES:

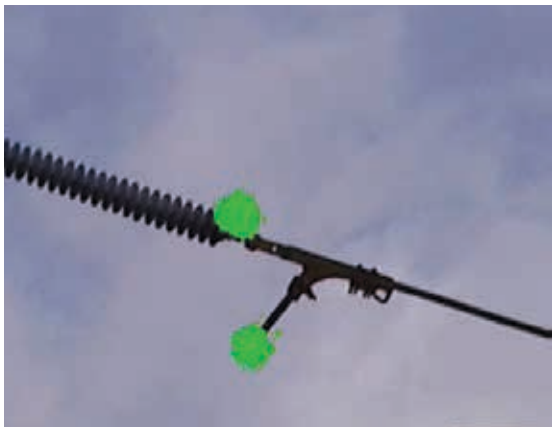
- High sensitivity solar blind UV detector.
- 9Hz (optional 25 Hz) FLIR Radiometric LWIR camera module.
- Syncronised Smooth or Stepped Zoom of all 3 camera channels. IR & UV channels are zoomed digitally, visible is zoomed optically to minimum FOV, then digitally enlarged.
- Manual or Auto focus for Visible channel, UV & LWIR channel has manual focus or can be synchronized with the Visible.
- Onboard still image, video and radiometric data recording.
- Video output to HDMI or composite in PAL or NTSC format.
- A 5.7" viewable area, robustly mounted, variable angle, bright colour LCD display with 640×480 pixels resolution.
- A fixed angle focusable viewfinder with 800×600 pixel resolution.
- Fast set up & boot up avoids the need for power saving modes.
- The On Screen Display (OSD) shows all the relevant information.
- Easy & comfortable operation of the camera via the Rotational handle (right hand only) with primary multi-function interface keys.
- Access specific functions with Quick keys on the left side of the camera.
- Manual or Auto Exposure of Visible and LWIR (Level) cameras, UV (Gain) is manually set.
- Integrated GPS with internal and complimentary external booster antenna.
- Meta data recording of camera settings and measurement plus environmental variables manually entered – distance, air temperature, air pressure, ambient humidity and wind speed.
- Resizable UV Intensity sampling box.
- Control over UV overlay colors (6 pre-sets & 100 user selectable hue levels), UV overlay translucency, UV threshold, Integration & Noise Reduction control.
- 14 IR color palettes with contrasting Isotherms.
- Auto or Manual IR Span.
- Integrated LED Flashlight & optional laser pointer.
- Camera software update via download to SD card.
- Output to HDMI or Composite video (PAL/NTSC), USB port for media download and Ethernet port for remote control.
- 15 Month warranty.
- Compatible with CoroBASE® 2.0 Analysis and Reporting software.

SYSTEM SPECIFICATIONS:

Brochure Version: 2019/01
Specifications subject to change without notice

SENSITIVITY (TYPICAL)	**Ultraviolet:** (Solar Blind Mode) 2.05x10^{-18} Watt/cm^2 | (Non Solar Blind mode) ~1x10^{-18} Watt/cm^2 | **Visible:** 0.4 lx (F1.35, 50 % IRE, ICR off), normal 0.01 lx (F1.35, 50 % IRE, ICR on) **Infrared (NEdT):** <50mK @ f/1.0
ZOOM	**Visible Camera:** Optical from 16° to 2° FOV +12x digital to 0.2°, UV overlay on all optical FOVs **UV Camera:** 1x optical (8° FOV), 8x digital **LWIR Camera:** 1x optical (10° FOV), 8x digital
FOCUS	**Focus:** Automatic or manual on visible channel, UV slaved to visible or independent manually | **Minimum Focus Distance:** UV 0.7m, VIS 0.7m
RESOLUTION	**Ultraviolet:** 640 x 480 pixels | **Visible:** 768 x 576 pixels | **Infrared:** 640 x 512 pixels **Maximum Visible Channel IFOV:** 0.0477mRAD | **Maximum Visible Channel IFOV:** 0.2835mRAD
IMAGE ENHANCEMENTS	**Ultraviolet:** Long Integration & Noise Reduction | **Visible:** Auto low light, manual exposure control
DISPLAY SPECIFICATIONS	**Viewfinder:** Focusable, Adjustable Angle, Ventilated rubber eye piece, 800 x 600 pixels LED | **LCD:** 5.7" Backlit LCD 450cd/cm^2, 640 x 480 pixels | **Channel Fusion:** Threshold Mask, Variable Transparency | **Fusion accuracy:** Better than 1 milliradian on all optical zoom levels | **UV Overlay Colors:** 6 predefined, 100 user selectable **UV Transparency:** 0 – 100% | **Background Priority:** 0 – 100%
INTERFACE	**Ergonomic Grip:** Multi-function buttons | **Menu:** Icon Based Menu System **Short Cut Buttons:** Activate specific functions | **Remote Control:** Via Ethernet
CAMERA I/O	**USB:** Auto connect USB 2.0 | **Ethernet:** Video streaming & remote control **Composite Video:** PAL & NTSC formats
IMAGE & DATA STORAGE	**Image Format:** Displayed channels saved as JPEG or AVI (H.264 compression) **UCF Radiometric file contains:** Displayed image, raw UV image and Meta-data **Meta-data contains:** Camera settings, GPS location, User entered environmental variables **Storage Media:** SD Card (up to 64GB)
FIRMWARE FEATURES	**Image Series Numbering:** Allows for grouping of images in CoroBASE® 2.0 **Gallery & Playback:** Review recorded media | **Field Upgradable:** Download latest firmware | **Quick Startup:** Power on to record capable in 60s
POWER	**Battery:** Sony Li-ion, Type L compatible | **Operating Time:** 3hrs maximum
PHYSICAL SPECIFICATIONS	**Weight:** 2.2 Kg | **Dimensions:** 275 mm L x 135 mm W x 190 mm H **Operating Temp:** -15 °C to 55 °C | **Storage Temp:** -20 °C to 60 °C
PROTECTION	**Storage / Transport Case:** Pelican style plastic hard case | **Camera Body:** Tested to IP 54 **Physical Protection:** Impact absorbing covers | **Safety Standard:** CE, IEC1010-1





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