



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).

NOTABLE FEATURES:

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

FEATURES:

- A high sensitivity solar blind UV detector
- A 9Hz (or optional 25Hz) Radiometric IR camera module
- Synchronised 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 Autofocus for the Visible channel, UV and IR channels has manual focus or can be synchronized with the Visible channel
- 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
- A 15 Month warranty
- Compatible with CoroBASE 2.0 Analysis and Reporting software

SYSTEM SPECIFICATIONS:

Brochure Version: 0.5
Specifications subject to change without notice

SENSITIVITY (TYPICAL)	Ultraviolet: (Solar Blind Mode) 2.05×10^{-18} Watt/cm ² (Non Solar Blind mode) $\sim 1 \times 10^{-18}$ Watt/cm ² 3pC @ 20m (~ 0.75 pC @ 10m) (KERI – IEC 60270:2000) 13.16dB μ V(RIV) @ 1MHZ @ 10m (KERI – NEMA107-1987) 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 (14° 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
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

Link to website for more information
www.uvirco.com



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