



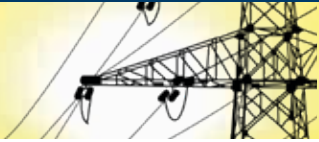
# Advanced Test Equipment Corp.

www.atecorp.com 800-404-ATEC (2832)



## 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

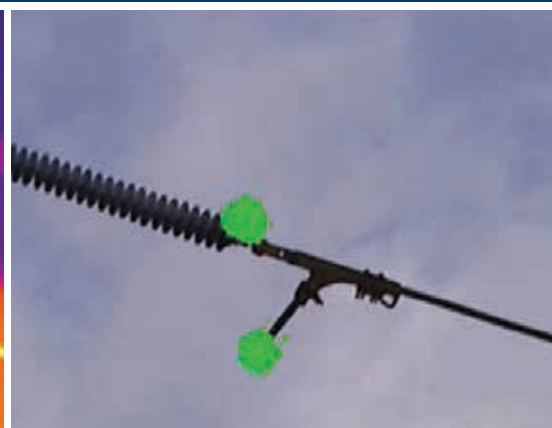
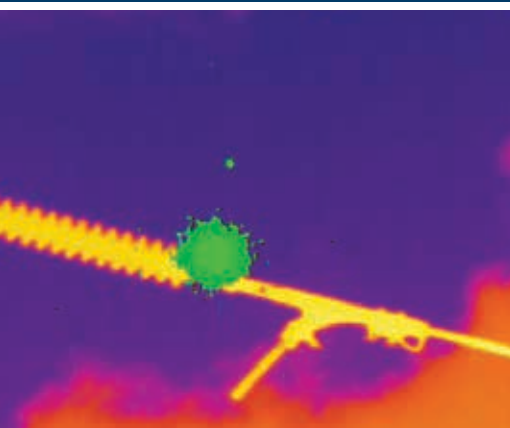
### NOTABLE FEATURES:

- High sensitivity solar blind UV detector.
- 9Hz (optional 25 Hz) FLIR Radiometric LWIR camera module.
- 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 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

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



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