CoroCAM® 6HD
High Performance Daylight Corona Imaging Camera

The HD sensor allows the CoroCAM® 6HD to record vivid details - this means the user can see the smallest features of the fault location - making maintenance priority assessment more reliable. This economical system is trusted worldwide to deliver performance.

Syncronized optical visible zoom & digitally enlarged UV overlay

www.uvirco.com
**FEATURES & PERFORMANCE:**

- Adjustable Angle Sun shield
- One handed operation
- GPS booster antenna port
- Adjustable Angle LCD display
- Onboard microphone and speaker
- Quick Guide Sticker
- Easily replaceable Li-ion batteries
- Behind flap: Power input, AV Out, Mic In, RS232 I/O
- Optional Wi-Fi or Bluetooth module inside
- Behind flap: Mini HDMI, Micro SD Card slot, USB Port

- A high sensitivity detector, which can detect UVc emissions down to $2.05 \times 10^{-18}$ W/cm², this allows for the detection of the smallest corona discharges.
- UV Gain, threshold or integration can be set to optimize the resulting image.
- Factory fitted optional Motorized Solar Blind (SB) filter position module can remove the solar blind filter from the light path to enhance sensitivity - Non Solar Blind (NSB) Module. Corona signals above the threshold level are displayed in real time.
- The UV count is adjusted to compensate for camera settings.
- High sensitivity color video camera with a resolution of 1920 x 1080 pixels which can operate at light levels down to 0.03 Lux @ F1.6 at Full Frame rate; rendering it capable for conducting inspections at night.
- Synchronized UV & Visible Zoom from 1x (defined as 8° x 6° / 10° Diagonal) up to 4x system zoom (optical/ digital for the Visible Channel and digital for the UV channel). A maximum of 12x digital zoom is available for the visible channel.
- Automatic or Manual visible camera focus control from <0.7m to infinity. UV camera focus can be set manually or slaved to the visible camera focus position.
- The visible image can be enhanced for back-light compensation to set to low light mode.
- UV is overlaid onto the visible in one of the 4 preset or 100 user selected colors.
- The UV overlay translucency can be adjusted to show the discharge source.
- On-board still image and video recording in high quality formats.
- Fast set up & boot up avoids the need for power saving modes.
- 18 Month warranty, extendable to 36 months.
The CoroCAM 6HD (installed in a suitable gimbal) can be lofted by a number of enterprise grade UAV’s. The mini-HDMI or composite video output can be down-linked to a base station display, while the RS232 port can accept remote control signals from a base station via a RS23 transmitter.

Recordings can be made on the camera while being remote controlled. This makes the CoroCAM 6HD ideal for inspectors who want to transition into the use of UAV’s.

CoroCAM 6HD lofted by Aerialtronics Altura Zenith ATX8
ULTRAVIOLET CHANNEL

Typical Sensitivity: SB (240 - 280 nm) 2.05x10^-18 Watt/cm², 3pC @ 20m (Korea Electrotechnology Research Institute | IEC 60270:2000) | 13.16dBuV(RIV) @ 1MHZ @ 10m (Korea Electrotechnology Research Institute – NEMA107-1987) ; Optional NSB (240-300 nm) ~ 1 x 10^-18 Watt/cm², 0.8pC @ 15 m Tested & certified by Innogy SE-Eurotest Germany: IEC 60270:2000

Field of view: 8° Horizontal x 6° Vertical ~ 10° Diagonal | Zoom Range (optical): 1x | Zoom Range (digital): 8° to 4°, in 3 steps

Focus type: Linked to Visible with manual override

Detector Life Span: No degradation

Corona Measure Method: Intensity based count, Calibrated for irradiance value of selected area

Threshold Mask: Useful range 20-100%

UV Transparency: 0-100%

UV False Color Selection: 4 presets with 100 user selectable hues

UV Integration: Adjustable period, Summation or Noise Reduction

MEDIA & DATA STORAGE

Storage Medium: Micro SD card (32 GB supplied with camera)

Storage Capacity: 1000+ images or >1 hr video/GB

Storage Format Video: AVI, 720p (H.264 compression)

Storage Format Still: JPG

Media Download: Via Card Reader or USB

DISPLAY

Type: 5.7” LCD, 640 x 480 pixels, color, manual or auto brightness up to 450cd/m², variable angle

Display Modes: UV+Vis, VIS only, UV only, UV Priority

UV Overlay Accuracy: <1 milirad deviation

On Screen Display: Gain, zoom, count, active functions

POWER

Battery: Sony Li-ion, Type L compatible

Battery Location: Internal, quickly replaceable

Power Consumption: 9 Watt

Operating Time: 3hrs maximum, 2.5hrs typical

Continuous Operation: No overheating

Charging: In camera or in external charger

External Power Supply: 9-16V 12VA - Car or mains adapter | Mains Adaptor: 110-240 V ac 50 - 60 Hz / 12 V dc 3A | Protection: Reverse polarity, over current, under voltage

PHYSICAL SPECIFICATION

Weight: 1.9 kg including battery

Dimensions: 220 mm L x 160 mm W x 80 mm H

Window aperture: Ø = 62 mm

Operating Temp: -15 °C to 55 °C

Storage Temp: -20 °C to 60 °C

Humidity: Up to 90 %, non condensing

Mounting Point: Standard 1/4” X20 thread tripod mount

PROTECTION

Storage / Transport Case: Pelican style plastic hard case

Environmental Protection: IP54

Safety Standard: CE, IEC1010-1

Warranty: 18 months

ACCESSORIES

Reporting Software: CoroBASE®

Carrying: Neckstrap

Camera Harness

TO VIEW SPECIFICATIONS ONLINE, VISIT: www.uvirco.com