



PROFESSIONAL SOLAR BLIND CORONA CAMERA

The **CoroCAM 7®** is a professional grade solar blind, easy to operate UVc imaging system used to visualize & locate electrical discharges (corona and arcing) from HV hardware. The **CoroCAM 7®** features the same **CoroCAM®** solar blind UVc imaging system as used in the **CoroCAM 6d®**, but pairs it with a high performance visible camera and a viewfinder. The **CoroCAM 7®** is typically used to inspect HV infrastructure operating at 3.3 Kv and above for corona discharges and arcing.

Features:

- A high resolution focusable ventilated viewfinder (800 x 600 pixels) and a large, robust mounted, variable angle, colour LED backlit LCD display (640 x 480 pixels), both optimised for use in full daylight to make inspection comfortable
- A high sensitivity detector, which can detect UVc emissions down to $2.05 \times 10^{-18} \text{ W/cm}^2$, this allows for the detection of the smallest corona discharges
- UV count compensation for distance
- Motorised solar blind filter removal in Non Solar Blind Mode to increase sensitivity for use at night or indoors
- Users can select optimised presets for detection or location of discharges
- Corona signals above the threshold level are displayed in realtime
- A high zoom colour visible camera with a resolution of 768 x 576 pixels
- Synchronised UV & Visible Zoom from 1x system zoom (defined as $8^\circ \times 6^\circ / 10^\circ$ Diagonal) to 4x system zoom (optical for the Visible channel and digital for the UV channel)
- <1.5 m minimum focus distance - no accessory optics required
- Onboard still image and video recording in high quality formats
- Integrated GPS with internal and booster antenna
- Integrated high power flashlight
- Easily replaceable Li-ion batteries deliver up to 3 hours operating time
Additional batteries are readily available and lightweight
- Fast boot avoids the need for power saving modes
- User profile setup, save and restore
- Easy operation of the camera with one hand via a multifunction keypad, hot keys to specific functions
- Ethernet port for remote control
- The On-Screen Display (OSD) shows all the relevant information
- Camera software update via download to SD card
- A 18 month warranty, extendable to 36 months

Notable Features:

Viewfinder | LCD display | Fast boot | User profiles | High sensitivity UV camera | UV count compensation | NightView mode
Premium spec visible camera | High visible zoom | High resolution video recording | Translucent UV overlay | GPS booster antenna port
Onboard microphone and speaker | Ethernet port | 18 month warranty

ZOOM	Visible Camera Zoom: 28x optical, 12x digital UV Camera Zoom: 4x
FIELDS OF VIEW	@ 0.5x Zoom: 16° @ 1x Zoom: 8° @ 2x Zoom: 4° @ 4x Zoom: 2° UV Channel Zoom: Digital to match visible FOV FOV with UV Overlay: All Focus: Automatic or manual on visible channel, UV slaved to visible or independent manually Minimum Focus Distance: UV 0.7 m, VIS 1.5 m
SENSITIVITY (TYPICAL)	Ultraviolet: 2.05 ⁻¹⁸ x 10 Watt/cm ² 3 pC @ 20 m (~ 0.75 pC @ 10 m) (Korea Electrotechnology Research Institute IEC 60270:2000) 13.16 dBμV(RIV) @ 1 MHZ @ 10 m (Korea Electrotechnology Research Institute - NEMA107-1987) Visible: 0.4 lx (F1.35, 50 % IRE, ICR off), normal 0.01 lx (F1.35, 50 % IRE, ICR on), auto low light
RESOLUTION	Ultraviolet: 640 x 480 pixels Visible: 768 x 576 pixels
IMAGE ACQUISITION	Ultraviolet: Averaging & Integration Visible: Auto low light, manual back light compensation
DISPLAY SPECIFICATIONS	Viewfinder: Ventilated rubber eye cup, 800 x 600 pixels LED LCD: 5.7" Backlit LCD 450 cd/cm ² , 640 x 480 pixels Channel Fusion: Picture in Picture, Threshold Mask, Variable Translucency Fusion accuracy: Better than 1 milliradian UV Overlay Colors: 5 predefined, 255 user selectable UV Transparency: 0 - 100 %
INTERFACE	Ergonomic Grip: Multifunction buttons Menu: Icon Based Menu System Short Cut Buttons: Activate specific functions Remote Control: Via USB / Ethernet
CAMERA I/O	USB: Auto connect USB 2.0 Ethernet: Video streaming & remote control Composite Video: PAL & NTSC formats
IMAGE & DATA STORAGE	Output / Saved Image Options: As displayed, Simplified, No info overlay Video Format: AVI (H.264 compression) Image Format: JPEG Meta-Data Contents: Camera settings & measure variables, i.e. GPS location Storage Media: SD Card (up to 64 GB)
FIRMWARE FEATURES	Image Series Numbering: Allows for auto sorting of images at download to PC for reporting Gallery & Playback: Review recorded media Field Upgradable: Download latest firmware Quick Startup: Power on to record capable in 60 s
POWER	Battery: Sony Li-ion, Type L compatible Operating Time: 150 min operation typical Recharge time: 180 min
PHYSICAL SPECIFICATIONS	Weight: 2.2 Kg Dimensions: 220 mm L x 80 mm W x 160 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

STANDARD SYSTEM

- CoroCAM 7® DAYLIGHT UV IMAGER
- OPERATING MANUAL
- 2x Li-ION BATTERY, AC MAINS ADAPTER & DUAL CHARGER
- PROTECTIVE HARD CARRY CASE
- BASIC REPORTING SOFTWARE
- CABLE SET & HEADSET

OPTIONAL ACCESSORIES

- ACCESSORY PACK I - INSPECTION GUIDE, FEATURING THE EPRI FIELD GUIDE
- ACCESSORY PACK II - SAFETY VEST WITH POUCHES FOR SPARE BATTERIES

