

coroCAM7 Professional Solar Blind corona camera

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The coroCAM7 is a professional grade solar blind, easy to operate UV imaging system used to visualize and locate electrical discharges (corona and arcing) from HV hardware.

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The coroCAM7 features the same coroCAM solar blind UV imaging system as used in the coroCAM6D, but pairs it with a high performance visible camera and a viewfinder. The coroCAM7 is typically used to inspect HV infrastructure operating at 3.3Kv and above for corona discharges and arcing. It features a high resolution focusable ventilated viewfinder (800*600 pixels) and a large, robust mounted, variable angle, color LED backlit LCD display (640*480 pixels), both optimised for use in full daylight to make inspection comfortable. It also has a high sensitivity detector, which can detect UV emissions down to 2.05 x 10⁻¹⁸W/cm². This allows for the detection of the smallest corona discharges.

Features	
UV count compensation for distance	Integrated GPS with internal and booster antenna
Motorised solar blind filter removal in Non Solar Blind Mode to increase sensitivity for use at night or indoors	Integrated high power flashlight
Users can select optimised presets for detection or location of discharges	Easily replaceable Li-ion batteries deliver up to 3 hours operating time. Additional batteries are readily available and lightweight
Corona signals above the threshold level are displayed in realtime	Fast boot avoids the need for power saving modes
A high zoom colour visible camera with a resolution of 768 x 576 pixels	User profile setup, save and restore
Synchronised UV & Visible Zoom from 1x system zoom (defined as 8°x6° / 10° Diagonal) to 4x system zoom (optical for the Visible channel and digital for the UV channel)	Easy operation of the camera with one hand via a multifunction keypad, hot keys to specific functions
< 1.5 m minimum focus distance - no accessory optics required	Ethernet port for remote control
Onboard still image and video recording in high quality formats	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 month

Zoom	<ul style="list-style-type: none"> •Visible Camera Zoom: 28* optical, 12x digital •UV Camera Zoom: 4*
Fields of View	<ul style="list-style-type: none"> •@ 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 1.5m
Sensitivity (Typical)	<ul style="list-style-type: none"> •Ultraviolet: 2.05*-18 * 10 Watt/cm2// 3pC @ 20 m (0.75pC @ 10m)(Korea Electrotechnology Research Institute IEC 60270:2000) // 13.16 dBµV(RIV) @ 1 MHZ @ 10m (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	<ul style="list-style-type: none"> •Ultraviolet: 640*480 pixels •Visible: 768 * 576 pixels
Image Acquisition	<ul style="list-style-type: none"> •Ultraviolet: Averaging & Integration •Visible: Auto low light, manual back light compensatio
Display	<ul style="list-style-type: none"> •Viewfinder: Ventilated rubber eye cup, 800 * 600 pixels LED •LCD: 5.7" Backlit LCD 450 cd/cm2, 640*480 pixels
Specifications	<ul style="list-style-type: none"> •Channel Fusion: Picture in Picture, Threshold Mask, Variable Translucency •Fusion accuracy: Better tan 1 miliradian •UV Overlay Colors: 5 predefined, 255 user selectable •UV Transparency: 0-100%

Interface	Ergonomic Grip: Multifunction
Camera I/O	<ul style="list-style-type: none"> •USB: Auto connect USB 2.0 •Ethernet: Video streaming & remote control Composite video: PAL & NTSC formats
Image and Data Storage	<ul style="list-style-type: none"> •Output/ Saved Image option: As displayed, Simplified, No Info overlay •Video format: AVI (H.264. compression) •Image Format: JPEG •Meta-Data Contains: Camera settings & measure variables, i.e. GPS Location •Storage Media: SD Card (up to 64GB)
Firmware features	<ul style="list-style-type: none"> •Image series numbering: Allows for auto sorting of images at download to PC for reporting •Gallery & Payback: Review recorded media •Field Upgradable: Download latest firmware •Quick Startup: Powe on to record capable in 60 s
Power	<ul style="list-style-type: none"> •Battery: Sony Li-Ion, type L compatible •Operating time: 150 min operation typical •Recharge time: 180 min
Physical Specifications	<ul style="list-style-type: none"> •Weight: 2.2 kg •Dimensions: 220mm L * 80 mm W * 160 mm H •Operating temp: -15 °C to 55 °C •Storage temp: -20 °C. to 60 °C.
Protection	<ul style="list-style-type: none"> •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	Optional Accessories
CoroCAM7 Daylight UV Imager	Accessory pack I- Inspection guide, featuring the EPRI field guide
Operating Manual	Accessories pack-II Safety vest with pouches for spare batteries
2x Li-Ion battery, AC mains adapter & dual charger	
Protective hard carry case	
Basic reporting software	
Cable set & headset	

