



# CoroCAM® 7HD

Professional Solar Blind Corona Camera

The CoroCAM® 7HD makes location of corona discharges fast and effective. Highly zoomed HD imagery allows for the visualisation of the finest details. Easy to use features brings powerful performance. Optimise the camera sensitivity using the adjustable Long Integration, Noise Reduction, UV Threshold Level and Non-Solar Blind Mode (when applicable). Optimise the UV blob display using the UV Blob False Color, Blob Transparency and the adjustable Background Priority. The adjustable viewfinder, LCD display and rotatable grip makes for optimal ergonomics and allows the operator to use the camera in all light conditions from multiple stances, minimising muscle fatigue.

A built-in flashlight and Motorised Non-Solar Blind module makes this the perfect choice for indoor inspections.

## NOTABLE FEATURES:

Adjustable and  
focusable viewfinder

One handed operation

GPS booster antenna  
port

Laserpointer

Integrated high  
power flashlight with  
adjustable bright-  
ness levels

Onboard micro-  
phone and speaker

Rotating LCD  
Display

Instruction sticker

Ventilated viewfinder

Easily replaceable  
Li-ion batteries

I/O connectors  
Ethernet, USB, HDMI,  
Micro SD Card

RS232/485



## ULTRAVIOLET CHANNEL

Typical Sensitivity:	SB (240 - 280 nm) $2.05 \times 10^{-18}$ Watt/cm <sup>2</sup> , IEC 60270:2000: 3pC @ 20m (Korea Electrotechnology Research Institute) & 1.8pC @ 10m (Innogy)   NEMA107-1987: 13.16dB $\mu$ V(RIV) @ 1MHZ @ 10m (Korea Electrotechnology Research Institute) NSB (240-300 nm) $\sim 1 \times 10^{-18}$ Watt/cm <sup>2</sup> , 0.8pC @ 10 m Tested & certified by Innogy SE-Eurotest Germany: IEC 60270:2000
Field of view:	8° Horizontal x 6° Vertical $\sim$ 10° Diagonal   Zoom Range (optical): 1x   Zoom Range (digital): 16° to 2°, in 4 steps
Focus type:	Linked to Visible with manual override
Focus Range:	<0.7m to Infinity
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:	6 pre-set colors, 100 user selectable hues
UV Integration:	Adjustable period, Summation or Noise Reduction

## VISIBLE CHANNEL

Resolution:	1920 x 1080 pixels
Sensitivity Day Mode:	0.1 lx (F1.6, 50 % IRE, ICR off)
Sensitivity Night Mode:	0.05 lx (F1.6, 50 % IRE, ICR on)
Exposure / Image Enhancements:	Auto or Manual
Focus Type:	Automatic with manual override
Focus Range:	<1.5m to Infinity
Useful Zoom Range (optical):	16° (0.5x) to 2° (2x)
Camera Module Zoom Range:	30x Optical zoom, 58.9° to 2,11°
Zoom type:	Stepped and Smooth
Zoom Range (digital):	4x, 6x, 8x, 12x
Maximum IFOV:	0,01917 mRAD / 52.1629

## IO & OS

OS Features:	Icon based menu system, 10x User Profile. Boot to inspection capable in 6s, to record capable in 60s. Image Sort Numbering. Video list and playback.
Input:	Keypad (right hand), Onboard & External Microphone
Output:	HDMI & Composite Video ; Onboard speaker
Bi-Directional:	Mini USB, RS-232 ; Optional Wi-Fi
Firmware:	Internal GPS, with external hotplug booster antenna LED Flashlight (Adjustable Brightness, 10-100% usable range)
Software Update:	Via files downloaded from website to Micro SD card

## MEDIA & DATA STORAGE

Storage Medium:	Micro SD card (32 GB supplied with camera)
Storage Format Video:	AVI, 720p (H.264 compression)
Storage Format Still:	JPG, AVI, UCF
Media Download:	Via Card Reader or USB

# SYSTEM SPECIFICATIONS:

CoroCAM 7HD Brochure Version: 2024 / 1  
Specifications subject to change without notice

## DISPLAY

Type:	5.7" LCD, 640 x 480 pixels, color, manual or auto brightness up to 450cd/m <sup>2</sup> , variable angle. Viewfinder, 800x600, Focusable, Adjustable Angle, Ventilated rubber eye piece.
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
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

Ergonomics:	Rotatable grip w/ one handed keypad
Weight:	2.2 Kg including battery
Dimensions:	275 mm L x 135 mm W x 190 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 condensating
Mounting Point	Standard 1/4" X20 thread tripod mount

## PROTECTION

Storage / Transport Case:	Pelican style plastic hard case
Environmental Protection:	IP55
Safety Standard:	CE, IEC61010-1
Warranty:	18 months

## ACCESSORIES

Carrying:	Neckstrap
	Camera Harness



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