CoroCAM 6D

ECONOMICAL DAYLIGHT CORONA IMAGING CAMERA

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- The CoroCAM 6D is a re-development of the CoroCAM Solar Blind UVc Imaging System with an emphasis on cost reduction through innovative design.

- Sensitivity and optical performance was retained by using t he same optical and sensor components as the successful CoroCAM 504, modernised elec tronics was added to reduce weight and size.

- The ip -up Colour LCD Display (640x480 pixel) is optimized for use in daylight and has a wide viewing angle.

- A keypad with large buttons for easy operation (even with gloved hands) is positioned on the upper surface.

- Image, Video and Audio recordings can be saved onboard on a SD Card & download via USB . High quality video can be streamed to an external recorder via composite output.

- The standard onboard batteries can easily be exchanged.

- All these features have been integrated into a lightweight, robust system for visualizing UVc discharges from Corona, Arcing and Sparking

Daylight UVc & Visible Channel Camera
Onboard Still Imaging and Video Recording
UV Photon Counting
Lightweight & Robust Design
Easy Operation & Data Download
Bright Colour VGA LCD Display
Low Noise Highly Sensitive Detector
Wide F ield Of View with 10x Optical Zoom
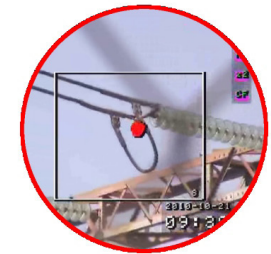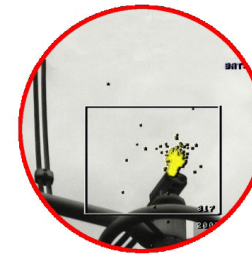
Applications:

- Transmission Line Inspection
- Substation Inspection
- Handheld Airborne Inspection
- Generator and Motor Winding
- Inspections

- Distribution Line Inspection
- HV Electrical Component Inspection
- by OEM Manufacturers
- High V oltage Panel Inspection

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SYSTEM SPECIFICA

Specifications subject to change without notice.

Combined Output

Optical SystemVideo Output	Composite
Format	PAL/NTSC Available
Optical Channels	Visible and Ultra Violet channels
	Separate or overlaid
Focus Type	Automatic , manual override
Focus Range	2m to Infinity
Window aperture	Ø= 62 mm

Ultraviolet Channel

Image type	Monochrome video
Sensitivity	$3x10^{-18}$ Watt/cm^2 Typical
Spectrum	UV 240 – 280 nm
Field of View	8° Horizontal x 6° V ertical
Zoom F actor	1x
Update Rate	50 Hz max
Focus type	Auto slaved to visible, manual

Visible Channel

Type	Colour Video, full function
Sensitivity @ F ull frame rate	0.25 Lux min
Field of View	Default synchronised with UV channel
Zoom F actor	10 x optical

Operator Interfaces

Application	Handheld or remote controlled
Display	5.7" VGA LCD with LED backlighting
	Update Rate: 25/30 fps
Status Indicator	LED's
Alarms	Audio, LED & Aux contacts
Control Inputs	Onboard multi pushbutton
	Remote control unit
	PC software controlled - option
Audio	Onboard microphone & speaker
	Headphone output
	Microphone input

Power System

Power Consumption	9 watt:
	Rechargeable Li-Ion
Battery Type	Sony Type L compatible
Battery Run Time	Typical 2 hrs min operation
Battery Location	Onboard, quickly replaceable
Charging	On camera / optional charger
External Supply	9-16V 12V A - Car or mains adapter
Mains Adaptor	110-240V AC 50-60 Hz / 12VDC 3A
Power Modes	Operate, power save, charge
Protection	Reverse polarity, over current, Under voltage

Data Storage

Storage Media	Removable SD Card
Image Format	JPEG compressed still image
Video Storage	MPEG compressed video
Audio	Audio label, wave file
Storage Capacity	1000+ images or >2 hr video per GB
	Via USB
File download	External via card reader

Communication Interfaces

USB	Image download from SD Card
RS485	Camera control via PC
Auxiliary	Remote control interface
	RS232 general port
	1 Alarm output - option
	1 Trigger input - option

Mechanical

Weight	1.7 kg including battery
Size	220mm L x 160mm W x 80mm H
Mounting Points	¼" Thread tripod mount

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Processing

Image Processing	Powerful onboard digital signal Processor for:
	Visible / UV image & data overlaying
	UV image enhancements
	UV image integration
	Image compression and storage
Date/Time	Real-time clock with battery backup
Temperature	Internal camera temperature
Location	GPS (Optional)
Audio Modes	Microphone input for audio notes
Power Saving	Real-time, integrate, standby , off
	User Configurable auto standby/off
User Settings / Configuration	Customised operating modes and control functions
	User definable titles, notes and file names for storage
	User configured alarm output - option
Software Upgrading	Via SD Card

Environmental

Operating Temp	-15°C to 55°C
Storage Temp	-25°C to 60°C
Humidity	Up to 90%, non condensating
IP rating	IP 54
Physical Protection	Impact absorbing covers
	Shock protection 25G
	Vibration 2,5G
	Protective carry bag
Safety standard	CE ,IEC1010-1

Standard System

- CoroCAM 6D DAYLIGHT UV IMAGER
- AC MAINS ADAPTOR
- 1 x Li-ION BATTERY
- PROTECTIVE CARRY CASE

- OPERATING MANUAL
- CABLE SET (VIDEO & POWER)
- REPORTING SOFTWARE

Optional Accessories

- REMO TE CONTROL SOFTWARE
- SD STORAGE CARD

- TWIN BATTERY CH ARGER

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