

CoroCAM 504

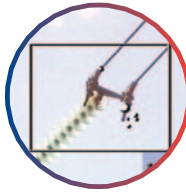
The Ultimate Daylight UV Corona Detection Tool

The CoroCAM 504 is a development of the very successful CoroCAM IV+ and daylight system with many improvements and additional features. These include on-board data storage and background UV noise reduction. It features the same solar blind optical system but is housed in a modern sleek compact and very light weight body. The ergonomic design ensures that the control buttons fall nicely to the users' hand in the palm-strap.

Features of CoroCAM 504

- Can operate in daylight or at night (with artificial light).
- Solar blind for full daylight operation.
- Lightweight.
- Very portable.
- High quality colour viewfinder display.
- On-board data storage by flash card.
- Multiple high resolution video outputs.
- Integration mode to increase sensitivity and reduce noise.
- Menu selectable image processing to enhance corona display.
- All menu driven functions easily selectable by single thumb operated joy stick.
- Photon event counting and display.
- UV image overlay on visible channel.
- Manual or auto focus of both channels.
- Multiple zoom on both channels.
- GPS option.
- Ambient temperature measurement.
- Interfacing to different display and recording peripherals.
- Software upgrade via flashcard (when available).





Technical Specifications

Optical System

Combined Output

Video output format:

NTSC (CC504N) PAL (CC504P)

Optical channels:

Visible and UV channels overlaid

Focus type:

Automatic/manual focus

Focus range:

2 m to infinity

Horizontal resolution:

460 TV Lines

Window aperture:

Ø=67 mm

Ultraviolet Channel

Image type:

Monochrome video CCIR

Spectrum:

UV 240 to 280 nm

Field of view:

8° Horizontal 6° Vertical

Update rate:

50 Hz maximum

Focus type:

Auto slaved to visible, manual

Visible Channel

Type:

Colour video, full function

Minimum sensitivity:

3 Lux minimum

Field of view:

Default synchronised with UV channel

Zoom factor:

25 x optical, 12 x digital

Operator Interfaces

Application:

Handheld, single hand operation or fully remote controlled

Viewfinder:

SVGA colour micro display

Alarms:

Audio, LED & Aux contacts

Control inputs:

Multi pushbutton, single hand control via on-screen multiple menus

Audio:

Headphone output, microphone input

Power System

Power consumption:

17 watt: 7.2 V, 2.5 A (battery)

Battery type:

7.2 V, 30 Wh rechargeable Li-Ion

Battery run time:

Typical 90 minutes operation

Battery location:

On board, quick replaceable

External supply:

9-16 V 17 VA from car or mains adaptor

Mains adaptor:

110 -240 VAC 50-60 Hz/12 VDC 3 A

Protection:

Reverse polarity, over current over temperature, under voltage

Data Storage

Storage media:

Removable compact flash card

Image format:

JPEG compressed still image

Data format:

Database file, all displayed fields

Audio:

Audio label, wave file

Storage capacity:

512 images per 16 M memory

File download:

External card reader or via USB

Video storage:

External via RCA & S-video output

Mechanical

Weight:

2.3 kg including battery, excluding accessories

Size:

Length: 302 mm Height: 165 mm Width: 125 mm

Mounting points:

M 4 hard point – bottom, ¼" tripod bottom

Environmental

Operating temperature:

-15 °C to 50 °C

Storage temperature:

-25 °C to 60 °C

Humidity:

Up to 90%, non condensating

IP Rating:

IP55

Specification subject to change without notice.

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