COROCAM 7HD

Corona effect cameras

30x zoom and top solar-blind sensitivity for the professional inspector

COROCAM 7HD

Professional solar-blind corona camera

amperis

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Product description

Detection of a corona discharge at high zoom

Focusable viewfinder and rotating one-handed grip

Certified top solar-blind sensitivity

The ultraviolet channel reaches a typical sensitivity of 2.05×10^{-18} W/cm^2, certified to IEC 60270:2000 at 1.0 pC at 15 m. An optional Non-Solar-Blind (NSB) mode keeps that same detection level for indoor or night-time work.

30x optical zoom

The visible channel reaches 30x optical zoom (58.9° to 2.11°), extendable through 4x, 6x, 8x or 12x digital zoom, with a maximum angular resolution of 0.01917 mrad that resolves the finest detail on the installation at long range.

Ergonomics for a full working day

The rotating grip, focusable and adjustable viewfinder, and flip-up LCD display let the operator hold the unit in different stances without muscle fatigue, in any lighting condition.

Ready to work without direct sunlight

The built-in LED flashlight, with adjustable brightness, and the motorised Non-Solar-Blind (NSB) module allow indoor or night-time inspections without losing detection sensitivity.

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Applications and functions

Applications

- Precision inspection of high- and extra-high-voltage lines and substations.
- Locating corona discharges at long range thanks to the 30x zoom.
- Indoor or night-time inspection with the Non-Solar-Blind (NSB) mode.
- Detailed diagnostics for professional inspectors who need maximum resolution.

Ultraviolet channel

The detection threshold, adjustable from 20 to 100%, and the integration time — by period, summation or noise reduction — optimise the image for the installation. The discharge is shown in 6 preset colour combinations or 100 user-selectable hues, with background priority and 0-100% transparency control.

Visible channel and location

The 1920×1080-pixel sensor offers 0.1 lux in day mode and 0.05 lux in night mode, with automatic or manual focus from 1.5 m to infinity. Internal GPS with an external booster antenna geolocates every inspection and combines with the unit's Ethernet, USB and HDMI connectivity.

Recording and sound

The unit records JPG stills and AVI 720p video to a microSD card, with a built-in microphone and speaker for adding voice notes during the inspection.

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Software and post-processing

On-board recording

Images and videos, together with the camera settings for each shot, are automatically saved to the 32 GB microSD card supplied with the unit, in JPG, AVI 720p and UCF format.

Download and post-processing

Material is downloaded via card reader or USB for review and filing. The manufacturer does not specify a dedicated analysis software package for this model beyond on-unit playback and file organisation.

Field use

The icon-based menu and 10 user profiles speed up switching between inspection conditions, with boot-up to inspection mode in 6 seconds and to recording mode in 60 seconds.

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COROCAM 7HD — MEASUREMENT DATA

UV sensitivity (solar-blind)	2.05×10^{-18} W/cm² · 1.0 pC at 15 m (IEC 60270:2000)
UV sensitivity (optional NSB)	$\approx1\times10^{-18}$ W/cm² · 1.0 pC at 15 m (IEC 60270:2000)
UV field of view	8° × 6° (~10° diagonal); optical 1×, digital in 4 steps up to 2°
Visible channel	1920×1080 px; 0.1/0.05 lux day/night; 30x optical zoom, up to 12x digital
Focus	Visible automatic or manual from 1.5 m to infinity; UV linked to visible
Display and viewfinder	5.7" LCD, 640×480 px; 800×600 px focusable viewfinder, adjustable angle
GPS and connectivity	Internal GPS with external booster antenna; Ethernet, HDMI, USB, RS-232
Recording	JPG, AVI 720p and UCF on 32 GB microSD; built-in microphone and speaker
Protection and weight	IP55; 2.2 kg with battery; 275 × 135 × 190 mm
Power and warranty	Li-ion, up to 3 h; 18-month warranty

Specifications subject to change without notice.

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