

The **CoroCAM 7**'s easy to use, yet powerful, features makes detection and location of corona discharges effective and fast. Features are available to increase sensitivity (adjustable Long Integration & Non Solar Blind Mode*), reduce false signals (adjustable Noise Reduction & Threshold Level) and improve the visibility of the discharge indicating blob (adjustable Background Priority, Blob Transparency and Blob False Color).

The adjustable viewfinder, rotatable grip and LCD display makes for optimal ergonomics and allows the operator to use camera in all light conditions from multiple stances, minimizing muscle fatigue.

NOTABLE FEATURES:

High sensitivity UV camera | Adjustable UV image optimization | Non Solar Blind mode | Transparent UV overlay | Premium specification visible camera | High visible zoom | UCF recording | GPS booster antenna port | Onboard microphone and speaker | Adjustable Viewfinder | Rotating LCD display | Fast boot | User profiles | I/O connectors (Ethernet, USB, RS232/485) | Remote Control | One handed operation | Optimal Ergonomic Design | 18 month warranty

FEATURES:

- A high sensitivity detector, which can detect UVc emissions down to $2.05 \times 10^{-18} \text{W/cm}^2$, this allows for the detection of the smallest corona discharges
- Motorised solar blind filter removal in Non Solar Blind Mode to increase sensitivity for use at night or indoors
- Users can select optimised presets for detection or location of discharges
- Corona signals above the threshold level are displayed in real time
- A high zoom colour visible camera with a resolution of 768 x 576 pixels
- Synchronised UV & Visible Zoom from 1x system zoom (defined as $8^\circ \times 6^\circ$ / 10° Diagonal) to 4x system zoom (optical for the Visible channel and digital for the UV channel)
- Onboard still image and video recording in JPG and AVI formats
- UCF metadata file containing uncompressed displayed image and raw UV image, camera settings and preset value
- Integrated GPS with internal and booster antenna
- Integrated high power flashlight with adjustable brightness levels
- A high resolution angle adjustable, focusable ventilated viewfinder (800 x 600 pixels) and a large, robust mounted, variable angle, colour LED backlit LCD display (640 x 480 pixels), both optimised for use in full daylight to make inspection comfortable
- The On-Screen Display (OSD) shows all the relevant information
- Easily replaceable Li-ion batteries deliver up to 3 hours operating time Additional batteries are readily available and lightweight
- Fast boot avoids the need for power saving modes
- User profile setup, save and restore
- Easy operation of the camera with one hand via a multi-function keypad, shortcut keys to specific functions
- Ethernet port for remote control
- Camera software update via download to SD card
- A 18 month warranty, extendable to 36 months
- Compatible with **CoroBASE 2.0** Analysis and Reporting software

SYSTEM SPECIFICATIONS:

Brochure Version: 0.3
Specifications subject to change without notice

SENSITIVITY (TYPICAL)

Ultraviolet: 2.05 x 10-18Watt/cm² | 3pC @ 20m (~ 0.75pC @ 10m) (Korea Electrotechnology Research Institute | IEC 60270:2000) | 13.16dB μ V(RIV) @ 1MHZ @ 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)

ZOOM

Visible Camera Zoom: 28x optical, 12x digital | **UV Camera Zoom:** 4x

FIELDS OF VIEW

Optical Wide Zoom: 16° | **Optical Tele Zoom:** 2° | **UV Channel Zoom:** 8° Wide-End; 2° Tele-End FOV | **FOV with UV Overlay:** All Optical | Digital Enlargement / Zoom 12x from minimum optical FOV | **Focus:** Automatic or manual on visible channel, UV slaved to visible or independent manually | **Minimum Focus Distance:** UV 0.7m, VIS 0.7m

RESOLUTION

Ultraviolet: 640 x 480 pixels | **Visible:** 768 x 576 pixels |
Maximum Visible Channel IFOV: 0.0477mRAD

IMAGE ENHANCEMENTS

Ultraviolet: Long Integration & Noise Reduction | **Visible:** Auto low light, manual exposure control

DISPLAY SPECIFICATIONS

Viewfinder: Focusable, Adjustable Angle, Ventilated rubber eye piece, 800 x 600 pixels LED | **LCD:** 5.7" Backlit LCD 450cd/cm², 640 x 480 pixels | **Channel Fusion:** Threshold Mask, Variable Transparency | **Fusion accuracy:** Better than 1 milliradian on all optical zoom levels | **UV Overlay Colors:** 6 predefined, 100 user selectable
UV Transparency: 0 – 100% | **Background Priority:** 0 – 100%

INTERFACE

Ergonomic Grip: Multi-function buttons | **Menu:** Icon Based Menu System
Short Cut Buttons: Activate specific functions | **Remote Control:** Via Ethernet

CAMERA I/O

USB: Auto connect USB 2.0 | **Ethernet:** Video streaming & remote control
Composite Video: PAL & NTSC formats

IMAGE & DATA STORAGE

Image Format: Displayed channels saved as JPEG or AVI (H.264 compression)
UCF Radiometric file contains: Displayed image, raw UV image and Meta-data
Meta-data contains: Camera settings, GPS location, User entered environmental variables
Storage Media: SD Card (up to 64GB)

FIRMWARE FEATURES

Image Series Numbering: Allows for grouping of images in CoroBASE 2.0
Gallery & Playback: Review recorded media | **Field Upgradable:** Download latest firmware | **Quick Startup:** Power on to record capable in 60s

POWER

Battery: Sony Li-ion, Type L compatible | **Operating Time:** 3hrs maximum

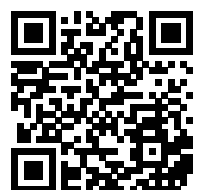
PHYSICAL SPECIFICATIONS

Weight: 2.2 Kg | **Dimensions:** 275 mm L x 135 mm W x 190 mm H
Operating Temp: -15 °C to 55 °C | **Storage Temp:** -20 °C to 60 °C

PROTECTION

Storage / Transport Case: Pelican style plastic hard case | **Camera Body:** Tested to IP 54
Physical Protection: Impact absorbing covers
Safety Standard: CE, IEC1010-1

Link to website for more information
www.uvirco.com



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