



DayCor® SUPERB



Superb is a professional portable daytime corona and arcing detection device specially designed to enhance and streamline maintenance tasks. Superb is a bi-spectral Solar Blind UV-Visible imager, designed to detect faint UV emissions in full daylight with high signal to background ratio. Its ergonomic design and powerful optics enable convenient and efficient professional corona and arcing

detection. Superb is reinforced with Ofil's reporting and analyzing software that offers flexible customized professional reports.



- Corona detection highest sensitivity
- Rapid optical zoom of the visible channel
- Digital UV zoom
- Auto focus of the UV and Visible channels
- Background noise reduction

- Built-in video recording and storage
- Integral folding high resolution LCD
- UV events counter
- Reporting software - multilingual
- Optional multilingual display

SUPERB Outstanding UV Sensitivity

UV sensitivity of 3×10^{-18} watt/cm² enables detection and displaying of corona emission as weak as 1.5 pC at a distance of 8m, and capture moving targets without smearing the output image. Built-in UV events counter and display for estimation of the corona strength.

SUPERB Pinpoints Corona Location

Superb exclusive lenses enable pinpointing corona on distant objects. A set of optional interchangeable lenses supports detection of very close objects.

SUPERB Built-in Recording & Storing

Recording of high resolution video clips, MS standards MPEG format, stored on removable Compact-Flash card. NTSC/PAL compatible output. Text comments and GPS data can be added.

SUPERB Easy to Operate

Keyboard controls with immediate direct operation and on-screen indications of selected controls. Switching between controls is instantaneous and seamless.

SUPERB Reporting Software

Ofil's reporting database multilingual software for easy and straightforward sorting, analyzing, storing and automatic report generation capabilities.

SUPERB Rugged and Lightweight

Superb is designed for use in harsh environments and under various weather conditions. The low weight of Superb is evenly distributed, by a carrying vest, throughout the operator's body.

SUPERB Remarkable Ergonomics

Superb is unique in its ergonomic design that enables long continuous inspection eliminating hands and eyes strain and back aches. No need to grasp the camera to hold it.

SUPERB Single and Teamwork

The integral reflective high-brightness high resolutions 5" adjustable LCD screen is ideal for outdoor inspections and for team work. Fit for inspection under any light and weather condition. Ideal for working in hazardous places where operators need to be watchful.

Uv - Optical Properties

Minimum UV Sensitivity	3x10 ⁻¹⁸ watt/cm ²
Minimum Discharge Detection	1.5 pC @ 8 meters
Minimum RIV Detection	15dB μ V (RIV) @1MHz (test in accord with NEMA publ. 107-1987)
Field of View H x V	5° x 3.75°
Detector Life Span	No degradation
Focus	Full auto focus for UV and visible channels Simultaneous manual focus adjustment for both channels
Focus Distance	0.5m to infinity (with close up lenses, optional)
Digital UV/Combined Zoom	X2 and X4

Visible - Optical Properties

UV/Visible Overlay Accuracy	Better than 1 miliradian
Minimum Visible Light Sensitivity	1 Lux
Video Standard	Full PAL or NTSC standards
Rapid Visible Zoom	25 optical x 12 digital Max Visible zoom reached within 1 sec on button push Return to normal value within 1 sec on button release

Display

Type	Integral high resolution LCD, adjustable
Brightness	320 cd/m ² reflective, adjustable
Resolution	320 x 234 pixels B/W
Size	5"
Modes	Combined (UV & Visible), UV only, visible only
External Display	Composite PAL or NTSC via BNC jack

Controls & Operation

Method	Keyboard
Functions Activation	One touch button
Rapid Zoom	Continuous push button
System Status Indicator	LCD shows low battery

Environmental

Storage and Operation Temp	-20°C up to +55°C
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Internal Data Storage

Media	Removable compact flash card
Video Format	MS Windows standards MPEG
Storage Capacity	512MB
Image Format	Wide variety of image formats (JPEG, GIF, PNG, BMP etc.) via capture from the compact flash card

Physical Characteristics & Power Source

Weight	3.3 Kg 7.3 lb
Dimensions L x W x H	L23 x W18 x H15 cm 9.8" x 7.1" x 5.9"
Nominal Power Consumption	2V DC, 16 Watts
Power Source	Rechargeable NiMH battery for over 2.5 hours continuous operation Universal AC/12VDC Adapter

