



# DayCor® SUPERB



**Superb** is a heavy-duty portable daytime corona and partial discharge detection camera. Being the most sensitive solar blind bi-spectral UV-Visible imager **Superb** detects UV emissions in full daylight with high signal to background ratio from far-off and nearby sources. **Superb** is an ideal predictive maintenance tool for overhead transmission lines and high voltages substations. **Superb** has a unique ergonomic design that supports extended inspection intervals. Reinforced with reporting and analyzing software **Superb** is a detecting, pinpointing and reporting system.

- 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 and stills recording and storage
- Integral folding high resolution color LCD
- UV events counter
- Reporting software - multilingual
- Optional multilingual display

### **SUPERB Outstanding UV Sensitivity**

UV sensitivity of  $3 \times 10^{-18}$  watt/cm<sup>2</sup> 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**

Equipped with exclusive lenses and powerful zooming capabilities Superb can pinpoint corona on far-away as well as on very close objects. These features and the outstanding sensitivity make Superb an ideal inspection camera for overhead transmission lines and high voltage substations.

### **SUPERB Built-in Recording & Storing**

Superb has built-in recording, playback and storing of high resolution video clips and still pictures with optional inserted text commentating and GPS data. Media is stored on a removable compact flash card. NTSC/PAL compatibility.

### **SUPERB Easy to Operate**

Control is via keyboard with direct access to functions and with on-screen indication of the selected functions. Straightforward intuitive operation.

### **SUPERB Reporting Software**

Ofil's reporting database provides for storing, sorting, analyzing, and report generating of the findings. Multilingual.

### **SUPERB Rugged and Lightweight**

Superb is a heavy-duty system fit for harsh environment and extreme weather conditions. The low weight of the camera is comfortably distributed on the shoulders.

### **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, color, adjustable 5" LCD is ideal for outdoor inspections and for team work. Essential for working in hazardous places where operators need to be watchful.

**DETECT → PINPOINT → REPORT**

## SUPERB

### Uv - Optical Properties

Minimum UV Sensitivity	3x10 <sup>-18</sup> watt/cm <sup>2</sup>
Minimum Discharge Detection	1.5 pC @ 8 meters
Minimum RIV Detection	15dB $\mu$ 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	0.1 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 color LCD, adjustable
Brightness	450 cd/m <sup>2</sup> reflective, adjustable
Resolution	640x480 pixels, color
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	ASF, WMV compatible
Video Format	AVI
Storage Capacity	Up to 2GB
Image Format	JPEG
Playback	Video and pictures

### 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	12V DC, 16 Watts
Power Source	Rechargeable NiMH battery for over 2.5 hours continuous operation Universal AC/12VDC Adapter



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