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## PORTABLE CORONA CAMERAS



Superb-OD & Superb-XD are portable handheld daytime corona and arcing recording cameras. Superb models are robust solar blind bispectral UV-Visible imagers with high sensitivity to surface partial discharges that differ in their display unit. Either model detects ultraviolet emission in full daylight with high signal to background ratio, from far-off and nearby sources, and is considered as the most effective workhorse. Superb cameras are used for nondestructive testing (NDT), inspecting & monitoring high and medium voltage apparatuses. The imagery provided about existing discharges is used by utilities, heavy industry, mines, data centers, laboratories etc., that need to ensure corona free environment. Ergonomically designed to facilitate extended continuous inspection intervals.

- >> Highest corona detectivity
- >> Rapid optical zoom of the visible channel
- >> Digital UV zoom
- >> Auto focus of the UV and Visible channels
- >> Background noise reduction

- >> Built-in video, stills and audio recording
- >> Integral folding high resolution color LCD 5" | 6.5"
- >> UV events counter
- >> Supporting comfortable harness
- >> Optional multilingual display

#### **OUTSTANDING UV SENSITIVITY**

Superb can detect UV radiation of corona emission as weak as 1pC at a distance of 10m and 7.7dB $\mu$ V (RIV) @ 1MHz, and display both the signals and their emitting sources overlapped accurately with indications of the corona strength.

#### **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 & distribution lines and substations.

## **EASY TO OPERATE**

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

## **DAYCOR® TECHNOLOGY INSIDE**

Based on Ofil's DayCor® technology Superb is a bi-spectral solar blind UV-Visible camera allowing operation in full daylight [Registered Patent EP1112459B1].

PANSIDE

#### **BUILT-IN RECORDING & STORING**

Superb has built-in recording, playback and storing of high resolution video clips with voice annotations & still pictures. Media is stored on a removable compact flash card. NTSC/PAL compatibility.

### **RUGGED AND LIGHTWEIGHT**

Superb is a heavy-duty workhorse system fit for harsh environment and extreme weather conditions. An anatomically form-fitted harness distributes the camera's weight and allows extended inspection intervals.

#### **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 grip the camera to hold it.

#### SINGLE AND TEAMWORK

The transflective 5" (OD model) or 6.5" (XD model) adjustable bright color LCD are ideal for outdoor inspections and for sharing images with team members. The use of LCD is essential in hazardous locations.

# **TECHNICAL SPECIFICATIONS**

OD	XD	UV - OPTICAL PROPERTIES	
$\sqrt{}$	$\sqrt{}$	Minimum Discharge Detection	1pC @ 10 meters (RWE certified: IEC 60270:2000) Tested & certified
	$\sqrt{}$	Minimum RIV Detection	7.7dBµV (RIV) @1MHz @10m (RWE Tested & certified: NEMA107-1987
$\checkmark$	$\sqrt{}$	Minimum UV Sensitivity	1.5x10 <sup>-18</sup> watt/cm <sup>2</sup>
$\checkmark$	$\sqrt{}$	Detector Life Span	No degradation
/	$\sqrt{}$	Focus	Manual and full Auto-Focus for the UV and visible channels
	$\sqrt{}$	Focus Range	3m   9ft - infinity (0.5m   1.6ft with close up lens)
	$\sqrt{}$	UV Zoom	X2 and X4
√	$\sqrt{}$	Spectral Range	240-280nm
		VISIBLE - OPTICAL PROPERTIES	
<b>/</b>	$\sqrt{}$	UV/Visible Overlay Accuracy	Deviation <1 miliradian
<b>V</b>	$\sqrt{}$	Minimum Visible Light Sensitivity	0.1 Lux
<b>/</b>	$\sqrt{}$	Video Standard	NTSC
$\sqrt{}$	$\sqrt{}$	Rapid Visible Zoom	18 optical x 12 digital attained within 1 sec
		DISPLAY	
<b>V</b>	√	Туре	Adjustable, color (Transflective) Sunlight Readable LCD
150	800	Brightness	cd/m² reflective, adjustable
/	$\sqrt{}$	Resolution	640x480 pixels, color
5"	6.5"	Size	
/	$\sqrt{}$	Modes	Combine (UV & Visible), UV only, visible only
/	$\sqrt{}$	Video Output	NTSC via BNC jack
		CONTROLS & OPERATION	
<b>V</b>	√	Method	Keyboard
/	$\sqrt{}$	Rapid Zoom	Continuous, max attained withing 1 second
√	$\sqrt{}$	Mounting Point	Standard 1/4" X20 thread tripod mount
		COMMUNICATION	
√	√	Interface	RS232
		MEDIA CAPTURE & STORAGE	
/	√	Video Format (Internal)	AVI
/	$\sqrt{}$	Stills Format (Internal)	ВМР
/	$\sqrt{}$	Audio	External microphone
/	$\sqrt{}$	Playback	Video and still pictures
√	$\sqrt{}$	Digital Storage	Memory flash card
		PHYSICAL CHARACTERISTICS & POWER SOURCE	
/	<b>√</b>	Weight	3.3 Kg   7.3 lb
/		Dimensions L x W x H	L23 x W18 x H15 cm   L9.1" x W7.1" x H5.9"
	$\sqrt{}$	Dimensions L x W x H	L23 x W18 x H16.5 cm   L9.1" x W7.1" x H6.5"
/	$\sqrt{}$	Nominal Power Consumption	12V DC, 16 Watts
√	· √	Power Source	Rechargeable battery for over 2.5 hours continuous operation
	٧		Universal AC/DC 12V Adapter
1	.1	ENVIRONMENTAL Storage and Operation Town	200C up to 1550C   405 to 112105
,	√	Storage and Operation Temp	-20°C up to +55°C   -4°F up to +131°F
√	√	Encapsulation	IP54, Certified
		ACCESSORIES	
/	$\sqrt{}$	Flight table; Remote control; CoronaWise - C	Corona Management SW; Close-up Lens; Wide Field-of-View Lens