



DayCor®

# SUPERB

OD/XD models | In/outdoors | Video & Stills Camera | Performance

Superb-OD & Superb-XD are portable handheld daytime corona and arcing recording cameras. Superb models are robust solar blind bi-spectral 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.

- » Hi sensitivity to corona
- » Hi resolution TFT LCD
- » Recording & playback
- » Rapid optical zoom
- » Manual and auto focus
- » Supportive harness
- » Keyboard
- » Extended battery run time
- » Heavy Duty, Sturdy
- » Indoors and outdoors camera

## OUTSTANDING UV SENSITIVITY

Discover unexpected faults and pinpoint their location. Find out in real time existing corona, known as the source for corrosive processes in insulation, metal fittings, concrete etc., radio interferences, audio noise and ultraviolet radiation

## 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.

## 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.

## STURDY 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 transfective 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.

## 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].

# OD XD TECHNICAL SPECIFICATIONS

## UV - OPTICAL PROPERTIES

✓	✓	Minimum Discharge Detection	1pC @ 15 meters (RWE certified: IEC 60270:2000) Tested & certified
✓	✓	Minimum RIV Detection	3.6dBµV (RIV) @1MHz @10m (RWE Tested & certified: NEMA107-1987)
✓	✓	Minimum UV Sensitivity	1.5x10 <sup>-18</sup> watt/cm <sup>2</sup>
✓	✓	Detector Life Span	No degradation
✓	✓	Focus	Manual and full Auto-Focus for the UV and visible channels
✓	✓	Focus Range	3m   9ft - infinity (0.5m   1.6ft with close up lens)
✓	✓	UV Zoom	X2 and X4
✓	✓	Spectral Range	240-280nm
✓	✓	Field of View HxV	5° x 3.75°

## VISIBLE - OPTICAL PROPERTIES

✓	✓	UV/Visible Overlay Accuracy	Deviation <1 miliradian
✓	✓	Minimum Visible Light Sensitivity	0.1 Lux
✓	✓	Video Standard	NTSC
✓	✓	Rapid Visible Zoom	18 optical x 12 digital attained within 1 sec

## DISPLAY

✓	✓	Type	Adjustable, color (Transflective) Sunlight Readable LCD
450	800	Brightness	cd/m <sup>2</sup> reflective, adjustable
✓	✓	Resolution	640x480 pixels, color
5"	6.5"	Size	
✓	✓	Modes	Combine (UV & Visible), UV only, visible only
✓	✓	Video Output	NTSC via BNC jack

## CONTROLS & OPERATION

✓	✓	Method	Keyboard
✓	✓	Rapid Zoom	Continuous, max attained withing 1 second
✓	✓	Mounting Point	Standard 1/4" X20 thread tripod mount

## COMMUNICATION

✓	✓	Interface	RS232
---	---	-----------	-------

## MEDIA CAPTURE & STORAGE

✓	✓	Video Format (Internal)	AVI
✓	✓	Stills Format (Internal)	BMP
✓	✓	Audio	External microphone
✓	✓	Playback	Video and still pictures
✓	✓	Digital Storage	Memory 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   L9.1" x W7.1" x H5.9"
✓	✓	Dimensions L x W x H	L23 x W18 x H16.5 cm   L9.1" x W7.1" x H6.5"
✓	✓	Nominal Power Consumption	12V DC, 16 Watts
✓	✓	Power Source	Rechargeable battery for over 2.5 hours continuous operation. Universal AC/DC 12V Adapter

## ENVIRONMENTAL

✓	✓	Storage and Operation Temp	-20°C up to +55°C   -4°F up to +131°F
✓	✓	Encapsulation	IP54, Certified

## ACCESSORIES

✓	✓	Flight table; Remote control; CoronaWise - Corona Management SW; Close-up Lens; Wide Field-of-View Lens
---	---	---

Specifications are subject to changes without notice. Imagery used for illustration purposes only. Copyright 2019, Ofil Ltd. Ver. 19.0