Superb is a portable handheld daytime corona and arcing video & stills camera. It is a robust solar blind bi-spectral UV-Visible imager with high sensitivity to surface partial discharges. Superb detects ultraviolet emission in full daylight with high signal to background ratio, from far-off and nearby sources. Superb is a most effective workhorse used as a non destructive testing (NDT) equipment to inspect and monitor high and medium voltage apparatus. The camera provides information about existing discharges and is used by utilities, heavy industry, mines, data centers, laboratories etc., that need to ensure corona free environment. Its unique ergonomic design supported by a dedicated carrying harness allows extended continuous inspection intervals.

OUTSTANDING UV SENSITIVITY
Superb can detect UV radiation of corona emission as weak as 1pC at a distance of 10m and 7.7dBμV (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].

BUILT-IN RECORDING & STORING
Superb has built-in recording, playback and storing of high resolution video clips with voice annotations, still pictures and optional GPS data. 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 grasp the camera to hold it.

SINGLE AND TEAMWORK
The reflective 5” adjustable bright color LCD is ideal for outdoor inspections and for sharing images with team members. The use of LCD is essential in hazardous locations.
### TECHNICAL SPECIFICATIONS

#### UV - OPTICAL PROPERTIES
- **Minimum Discharge Detection**: 1pC @ 10 meters (RWE certified: IEC 60270:2000)
- **Minimum RIV Detection**: 7.7dBμV (RIV) @1MHz (RWE certified: NEMA107-1987)
- **Minimum UV Sensitivity**: 2.2x10⁻¹⁸ watt/cm²
- **Field of View H x V**: 5º x 3.75º
- **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

#### VISIBLE - OPTICAL PROPERTIES
- **UV/Visible Overlay Accuracy Deviation**: <1 miliradian
- **Minimum Visible Light Sensitivity**: 0.1 Lux
- **Video Standard**: NTSC
- **Rapid Visible Zoom**: 25 optical x 12 digital attained within 1 sec

#### DISPLAY
- **Type**: Adjustable, color Transflective Sunlight Readable LCD
- **Brightness**: 450 cd/m² reflective, adjustable
- **Resolution**: 640x480 pixels, color
- **Size**: 5”
- **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” thread tripod mount

#### COMMUNICATION
- **Interface**: RS232, GPS

#### MEDIA CAPTURE & STORAGE
- **Video Format (Internal)**: AVI
- **Still 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”
- **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
- GPS; Flight table; Remote control; Corona Base - Database Reproting Software; Close-up Lens; Wide Field-of-View Lens