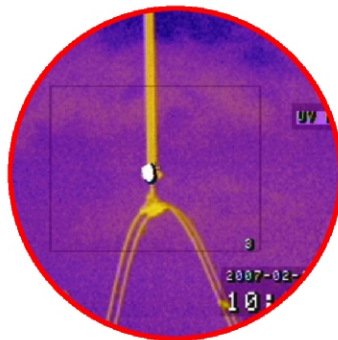


## MultiCAM

Daylight UVc, IR and Visible Channel Camera  
 Onboard Still Imaging Recording Onto CF™ Card  
 UV Photon Countings  
 Sleek Ergonomic Design  
 Easy Setup and Operation  
 High Quality Colour Viewfinder Display  
 Low Noise Highly Sensitive Detector  
 Wide Field Of View with 25x Optical Zoom



- The MultiCAM can operate in both day or nighttime.
- It is an excellent diagnostic tool which enables the user to locate and identify corona discharge and infrared hot spot activity on electrical equipment.
- The UVc, Thermal and Visible channels can be shown individually or overlaid onto each other.
- The Visible, Thermal & UVc channels can be variably zoomed up to 2x with minor parallax error and Automatic or Manual focus.
- A simple user interface allows for easy access to the menu system.
- User selectable settings for image processing and corona enhancement.
- Onboard image processing allows for increased sensitivity and noise reduction without lowered frame rates associated with long exposure photography.
- High quality video can be streamed to an external recorder via composite or S-Video output.
- GPS, Laser Pointers and External Remote Control can be added.
- Camera software can be upgraded via Compact Flash™ card.
- External recording peripherals can be interfaced via industry standard outputs.



### Applications:

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>• Transmission Line Inspection</li> <li>• Substation Inspection</li> <li>• Handheld Airborne Inspection</li> <li>• Generator and Motor Winding Inspections</li> </ul> | <ul style="list-style-type: none"> <li>• Distribution Line Inspection</li> <li>• HV Electrical Component Inspection by OEM Manufacturers</li> <li>• High Voltage Panel Inspection</li> </ul> |
|--|--|

## SYSTEM SPECIFICATIONS

Specifications subject to change without notice.

### Combined Output

|                  |       |   |
|------------------|-------|---|
| Optical System   | Video | Composite   |
| Output Format    |       | PAL/NTSC Available  |
| Optical Channels |       | Visible, Ultra Violet and LWIR - Shown separate or overlaid |
| Focus Type       |       | Automatic, manual override                                  |
| Focus Range      |       | 2m to Infinity  |
| Window aperture  |       | Ø = 52 mm   |

### Ultraviolet Channel

|               |                                |
|---------------|--------------------------------|
| Image type    | Monochrome video               |
| Spectrum      | UV 240 – 280 nm                |
| Field of View | 8° Horizontal x 6° Vertical    |
| Zoom Factor   | 0.5x, 1x, 2x                   |
| Update Rate   | 50 Hz max                      |
| Focus type    | Auto slaved to visible, manual |

### Thermal Channel

|                   |                             |
|-------------------|-----------------------------|
| Spectrum          | LWIR: 8 to 12µm, NETD 50 mK |
| Temperature Range | 0°C to 160°C                |
| Resolution        | 320 (H) x 240 (V) pixels    |
| Zoom              | 20 Steps up to 11x          |

### Visible Channel

|                     |                                      |
|---------------------|--------------------------------------|
| Type                | Colour Video, full function          |
| Sensitivity @ 60fps | 3 Lux min                            |
| Field of View       | Default synchronised with UV channel |
| Zoom Factor         | 25 x optical max                     |

### Operator Interfaces

|                  |  |
|------------------|--|
| Application      | Handheld or remote controlled  |
| Display          | SVGA colour micro display viewfinder   |
| Status Indicator | LED's  |
| Alarms           | Audio, LED & Aux contacts  |
| Control Inputs   | Onboard multi pushbutton<br>Remote control unit<br>PC software controlled - option |

### Audio

|                  |  |
|------------------|--|
| Headphone output |  |
| Microphone input |  |

### Power System

|                   |   |
|-------------------|---|
| Power Consumption | 17 Watt                                       |
| Battery Type      | Rechargeable Li-Ion<br>Sony Type L compatible |
| Battery Run Time  | Typical 1.5 hrs min operation                 |
| Battery Location  | Onboard, quickly replaceable                  |
| Charging          | On camera / optional charger                  |
| Mains Adaptor     | 110-240VAC 50-60 Hz                           |
| Power Modes       | Operate, charge                               |
| Protection        | Reverse polarity, over current, Under voltage |

### Data Storage

|                  |                                     |
|------------------|-------------------------------------|
| Storage Media    | Removable Compact Flash™ Card       |
| Image Format     | JPEG compressed still image         |
| Video Storage    | On External Recorder                |
| Audio            | Audio label, wave file              |
| Storage Capacity | 1000+ images per GB                 |
| File download    | Via USB<br>External via card reader |

### Comms Interfaces

|           |   |
|-----------|---|
| USB       | Image download from CF™ Card  |
| RS485     | Camera control via PC   |
| Auxiliary | Remote control interface<br>1 Alarm output - optional<br>1 Trigger input - optional<br>RS232 general port |

### Processing

|                               |  |
|-------------------------------|--|
| Image Processing              | Powerful onboard digital signal Processor for:<br>Visible / UV image & data overlaying<br>UV image enhancements<br>UV image integration<br>Image compression and storage |
| Date/Time                     | Real-time clock with battery backup  |
| Temperature                   | Internal camera temperature  |
| Location                      | GPS (optional)   |
| Audio Modes                   | Microphone input for audio notes<br>Real-time, integrate, standby, off   |
| Power Saving                  | User Configurable auto standby/off   |
| User Settings / Configuration | Customised operating modes and control functions<br>User defined titles, notes and file names for storage<br>User configured alarm output - option                       |
| Software Upgrading            | Via Compact Flash™ Card  |

### Mechanical

|                 |   |
|-----------------|---|
| Weight          | 2.6 kg including battery, excl. accessories |
| Size            | 275mm L x 165mm W x 150mm H                 |
| Mounting Points | M4 hard point, 1/4" Thread tripod mount     |

### Environmental

|                |                             |
|----------------|-----------------------------|
| Operating Temp | -15°C to 50°C               |
| Storage Temp   | -25°C to 60°C               |
| Humidity       | Up to 90%, non condensating |

### Standard System

- MultiCAM DAYLIGHT UV & THERMAL IMAGER
- AC MAINS ADAPTOR
- 2 x Li-ION BATTERY
- PROTECTIVE CARRY CASE
- REMOTE CONTROL
- EXTERNAL VIDEO RECORDERS
- CF™ Storage CARD
- OPERATING MANUAL
- CABLE SET (Video and Power)
- MultiSOFT™ SOFTWARE
- GPS & LASER POINTER

### Optional Accessories