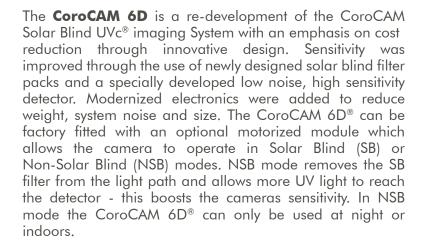


# CoroCAM<sup>®</sup> 6D

**Economical Daylight Corona Imaging Camera** 





#### **NOTABLE FEATURES:**

Fast set up & boot up | High resolution video recording | Translucent UV overlay | GPS booster antenna port | Onboard microphone and speaker

#### **FEATURES:**

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- A high sensitivity detector, which can detect UVC emissions down to 2.05x10<sup>-18</sup>W/cm<sup>2</sup>, this allows for the detection of the smallest corona discharges
- UV Gain, threshold or integration can be set to optimize the resulting image
- Factory fitted optional Motorized Solar blind filter position module can remove the solar blind filter from the light path to enhance sensitivity
- Corona signals above the threshold level are displayed in realtime
- The UV count sampling box has 3 sizes
- The UV count is adjusted to compensate for camera settings
- A high sensitivity colour video camera with a resolution of 768 x 576 pixels which can operate at light levels down to 0.0004 lux, rendering it capable of seeing corona streamers under near dark conditions
- Syncronised UV & Visible Zoom from 1x system zoom (defined as 8x°6° / 10° Diagonal) to 2x system zoom (optical for the Visible Channel and digital for the UV channel)
- Automatic or Manual visible camera focus control. UV camera focus can be set manually or slaved to the visible camera focus position
- <0.7m minimum focus distance no accessory optics required

- The visible image can be enhanced for backlight compensation or set to low light mode
- A large, robust mounted, variable angle, colour LED backlit LCD display with 640x480 pixels resolution optimised for use in full daylight makes for easy inspection. Screen brightness can be manually or automatically set
- The On Screen Display (OSD) shows all the relevant information
- UV is overlaid onto the visible in one of 4 preset or 100 user selected colors
- The UV overlay translucency can be adjusted to show the discharge source
- Integrated GPS with internal and booster antenna
- Onboard still image and video recording in high quality formats
- Easily replaceable lightweight Li-ion batteries, available from most camera stores, deliver up to 3 hours operating time
- Fast set up & boot up avoids the need for power saving modes
  Fast contraction of the same suith and have bardwire as
- Easy operation of the camera with one hand via a multifunction keypad, with hot keys to specific function
- Camera software update via download to SD card
- A 18 month warranty, extendable to 36 months

## SYSTEM SPECIFICATIONS:

ULTRAVIOLET CHANNEL	<b>Image type:</b> Monochrome video   <b>Detector Life Span:</b> No degradation   <b>Sensitivity:</b> 2.05x10 <sup>-</sup> 18 Watt/cm Typical (SB Mode), ~ 1 x 10 <sup>-</sup> 18 Watt/cm2 (NSB Mode)   <b>pC:</b> 3 pC@ 20 m (~ 0.75 pC @ 10 m) (Korea Electrotechnology Research Institute - IEC 60270:2000)   <b>RIV:</b> 13.16 dBμV (RIV) @ 1 MHZ @ 10m (Korea Electrotechnology Research Institute - NEMA107 - 1987)   <b>Spectrum:</b> UV 240 – 280 nm   <b>Field of View:</b> 8° Horizontal x 6° Vertical ~ 10° Diagonal = 1x system zoom   <b>Zoom Range (optical):</b> 1x System Zoom (SZ)   <b>Zoom Range (digital):</b> 16° (0.5 x SZ) to 4° (2 x SZ), in 2 steps   <b>Focus type:</b> Slaved to Visible with manual override
CORONA MEASURE	Method: Intensity based count, Calibrated in factory to standard
VISIBLE CHANNEL	<b>Image Type:</b> Colour video, 768 x 576 pixels   <b>Sensitivity (typical Max)(Lux):</b> 0.0004 (F 1.8, 50 IRE) @ 4 fps & ICR on   <b>Sensitivity (typical Max)(Lux):</b> 0.25 (F 1.8, 50 IRE) @ 60 fps.   <b>Exposure:</b> Auto or Manual Backlight compensation   <b>Field of View:</b> Synchronised with UV channel   <b>Focus Type:</b> Automatic with manual override   <b>Focus Range:</b> <0.7 m to Infinity   <b>Zoom Range (optical):</b> 16° (0.5 x SZ) to 4° (2 x SZ)   <b>Zoom Range (digital):</b> 4x, 6x, 8x, 12x from SZ
CHANNEL MIXING	UV / Visible Overlay Accuracy:<1 milirad   UV Transparency: 0-100%   UV False Color Selection: 4 presets with 255 user selectable hues
DATA DISPLAY	<b>Display:</b> 5.7" VGA LCD with LED backlighting, adjustable display angle, Update Rate: 50 HZ, progressive   <b>Display Brightness:</b> 450 cd/m2   <b>On Screen Display:</b> UV on Visible /Visible only / UV only; UV count; Camera Settings; Gain (0 - 100%), Threshold; Focus (UV & Visible); Date/Time; Corona Overlay Colour; Integration/Averaging; Icon Based Menu System
CONTROL INTERFACES	<b>Control Inputs:</b> Keypad   <b>Status Indicator:</b> On/Off button LED   <b>Audio:</b> Onboard microphone & speaker   <b>GPS:</b> Integrated with booster antenna
DATA I/O	Video Output: PAL or NTSC, user selectable   Output Screen: User Interface or Report View
DATA STORAGE	<b>Storage Media:</b> Removable SD Card (4 GB supplied with camera)   <b>Media Download:</b> Via Card Reader or USB   <b>Image Format:</b> JPEG   <b>Video Format:</b> AVI (H.264 compression)   <b>Storage Capacity:</b> 1000+ images or >1 hr video/GB   <b>Software Update:</b> Via files downloaded from website to SD card
POWER SYSTEM	Power Consumption: 9 watt   Battery Type: Rechargeable Li-Ion, Sony Type L compatible   Battery Run Time: Typical 2.5 hrs   Battery Location: Onboard, quickly replaceable   Charging: On camera / optional charger   External Supply: 9-16V 12VA - Car or mains adapter   Mains Adaptor: 110-240 V ac 50 - 60 Hz / 12 V dc 3A   Protection: Reverse polarity, over current, Under voltage
PHYSICAL DIMENSIONS	<b>Weight:</b> 1.9 kg including battery   <b>Size:</b> 220 mm L x 160 mm W x 80 mm H   <b>Window</b> aperture: $\emptyset = 62$ mm   <b>Mounting Points:</b> $\frac{1}{4}$ " Thread tripod mount
ENVIRONMENTAL	<b>Operating Temp:</b> -15 °C to 55 °C   <b>Storage Temp:</b> -25 °C to 60 °C (without battery)   <b>Humidity:</b> Up to 90 %, non condensating
PROTECTION	Storage / Transport Case: Pelican style plastic hard case   Camera Body: Tested to IP 54 Physical Protection: Impact absorbing covers   Safety Standard: CE,IEC1010-1
	Link to website for more information







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