

UView Model 2322 BeamPro_{filer}™ Array Sensor for UV Wavelengths



Fountain pen not included; used only to show proportionate size of UView

- ◆ UV Beam Profiler
- ◆ Spatial Uniformity Monitor
- ◆ Pulsed or CW Sources
- ◆ Compact Sensor Package
- ◆ <157nm-390nm
- ◆ Built-in Adjustable Light Level

The UView Model 2322 is an integrated ultra-violet laser light monitor designed to measure pulsed or CW sources in the UV wavelength range from <157nm to 390nm. It is the first UV array sensor to have a guaranteed $\pm 3\%$ spatial uniformity with a resolution of $60\mu\text{m}$ including the sensor contributions. The entrance aperture is $18\text{mm} \times 22\text{mm}$. The UView also features a manual iris for light level/intensity adjustment. It is designed for use with the Photon inc. BeamPro_{filer} laser beam profiler system, and can be used with other RS170 compatible systems.

SPECIFICATIONS

OPTICAL

Entrance Aperture:	18 × 22mm; larger apertures optional
Resolution:	60μm; larger for larger apertures
Wavelength response:	<157-390nm
Converter Plate Spatial Uniformity	Better than 3%
System Spatial Uniformity:	±3%
Damage Fluence:	>100mJ/cm ² @ λ=248nm, 200Hz repetition rate
System Saturation Exposure:	~100μJ/cm ² @ λ= 337nm (IRIS FULLY OPEN)
Lens Magnification:	0.253
Manual Iris	

CCD ARRAY

Frame Rate	RS170 30Hz
Active Pixel Elements	768 (H) × 494 (V)
Pixel Spacing	8.4μm (H) × 9.8μm (V)
Array Dimensions	4.8mm (H) × 6.4mm (V)
Dynamic Range:	>150:1
Gamma	1

ELECTRICAL

Power:	12 VDC @ 500mA Switchcraft TA3F Connector Standard: 115 VAC Wall Mount Power Supply Optional: 230 VAC Wall Mount Power Supply w/ Specified Plugs
Video Output:	RS170 BNC Coaxial Connector
Signal Cable:	RG59 75Ω Coaxial Cable

MECHANICAL

Dimensions (cm):	19.1cm × 5.4cm × 4.9cm
Mounting:	3 orientations: Standard 1/4-20 thread; Optional M6 Adapter
Temperature Range:	-20 to 60° C (4 to 140° F), non-condensing

