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Find the *Coherent C-VARM* at our website: ***Click HERE***



Laser Beam Diagnostic Accessories

Attenuation Optics for Cameras

BCUBE, UV-BCUBE, VARM, C-VARM, UV C-VARM and all other Coherent cameras have female C-Mount threading, making them easy to connect with the male C-Mount connection flange provided with each attenuator. Also, all attenuators have 1/4-20 tapped holes for independent post or plate mounting.

The C-Mount flanges (threaded rings) also have a female RMS microscope thread. This allows a microscope objective to be coupled to the attenuators and extension barrels in order to create a flexible close-up imaging system for analysis of small/focused beams, fiber optics, laser diodes or LEDs.

The wavefront distortion through a number of optical filters can be calculated by taking the square root of the sum of the squares of the wavefront distortion of the individual components. In general, a camera cannot sense less than ~λ/4 total distortion in the beam, so if a series of filters is used, they must be made to very exacting laser-grade specifications. Attenuating optics from Coherent are manufactured to better than a λ/10 surface specification, so at least six optics in series can be used. Calculate the Low-Distortion Face Plate (LDFP) and each BCUBE as one optic, and the VARM or C-VARM as three optics each.

Attenuator Selection

Attenuation is selected on the basis of power density in W/cm2 or energy density in J/cm^2. The attenuation from the camera's Low-Distortion Face Plate (LDFP) will allow an average power density of up to 1.2 mW/cm^2. There are then only two more steps to attenuation selection:

1) Choose either the VARM or the C-VARM for up to 1W/cm2.
2) In addition or alternatively, use a BCUBE beamsplitter module to pick off between 2% and 10% of the beam (depending on polarization and wavelength).

Specifications	**VARM**	**C-VARM**	**UV C-VARM**	**BCUBE**	**UV-BCUBE**	**BARREL-SET** (Barrels, 3 C-Mount Flanges)
Wavelength						
Min. (nm)	380	380	190	380	190	–
Max. (nm)	2200	2200	1100	2200	2200	–
Attenuation						
From	4x10^5:1	10^7:1	10^5:1	50:1	50:1	–
To	1:1	3000:1	300:1	10:1	10:1	–
Aperture (mm)	19	15	15	19	19	–
Max. Power Density (W/cm^2)	1*	1*	1*	2.0x10^9	2.0x10^9	–
Max. Energy Density (J/cm^2)	0.1*	0.1*	0.008	50	50	–
Beam Offset (mm)	–	–	–	4.0	4.0	–
Part Number	33-3328-000	33-3336-000**	33-6859-000**	1098403**	1098466	1098426

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