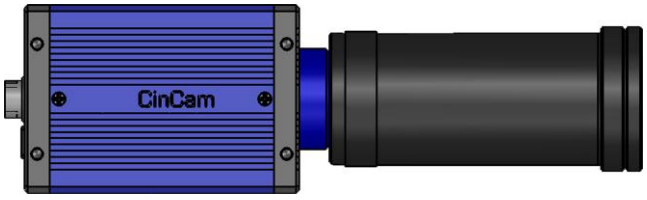
IR Module
- Technical Data -

The C-Mount converter module is an add-on to a standard CinCam Beam Profiler and extends sensitivity into the near IR range. The cost effective module is based on complex and non charge anti-stokes material with unique emission properties and converts 1495nm-1595nm photons to CCD / CMOS detectable wavelengths without fading or image lag. A lens transfers the converted image to the attached CinCam Beam Profiler.

	MO-IR-01
Sensitivity:	1470nm-1605nm
Active area:	22mm x 16.5mm (demagnification x0.29)
Material:	Phosphor (anti-stokes)
Decay time:	<1ms
Emission spectrum:	950nm-1075nm
Resolution:	40lp/mm at sensor focal plane
Linearity:	Non-linear (corrected by software)
Dynamic range:	42dB (CinCam CCD-1201) / 43dB (CinCam CMOS-1201) / 44dB (CinCam CMOS-1202)
Max input intensity:	1W/cm^2
Beam diameter accuracy:	5%-10%
Camera mount:	C-Mount
Dimensions (O.D. x L):	46mm x 97mm

Design and specification of the described product(s) are subject to change without notice.



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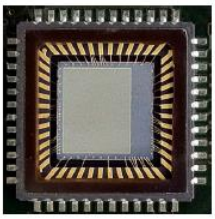

IR Sensor Coating
- Technical Data -

The complex and non charge anti-stokes phosphor is also suitable as direct sensor coating. The coating can be used with CinCam CCD/CMOS models. This solution finds application as sensitive detector for beam profiling or alignment of telecom lasers. The real time nature confers significant and cost effective benefits over other IR imaging techniques.

Phosphor type:	1470nm-1605nm (Anti stokes - rare earth dopant)
Particle size range:	5µm - 9µm
Absorption characteristics:	3 band - 0.8µm, 1.0µm, 1.55µm
Decay to 10%:	<1ms
Sensitivity:	1470nm - 1605nm
Peak sensitivity:	1510 / 1540 (multi peak response)
Emission spectrum:	950nm - 1075nm
Afterglow:	Low
Linearity:	Non-linear (corrected by software)
Dynamic range:	42dB (CinCam CCD-1201) / 43dB (CinCam CMOS-1201) / 44dB (CinCam CMOS-1202)
Damage threshold:	100 mW/cm²
Beam diameter accuracy:	5% - 10%
Robustness:	moderate

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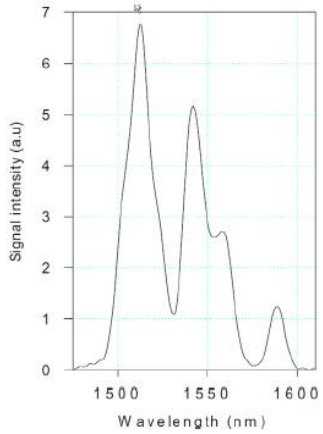

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