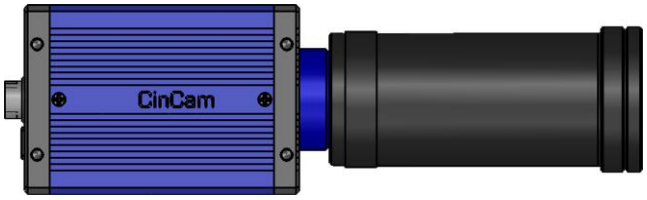
IR Module
- Technical Data -

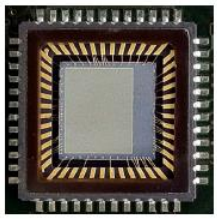
The C-Mount converter module is an add-on to a standard CinCam Beam Profiler and extends sensitivity into the near IR range. The cost-effective module is based on complex and non charge anti-stokes material with unique emission properties and converts 1495nm-1595nm photons to CCD / CMOS detectable wavelengths 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.



CINOGY Technologies GmbH
Gewerbepark Euzenberg 3 · 37115 Duderstadt · Germany
Phone +49 5527 9990189 · Fax +49 5527 9990897
e-mail info@cinogy.com · www.cinogy.com



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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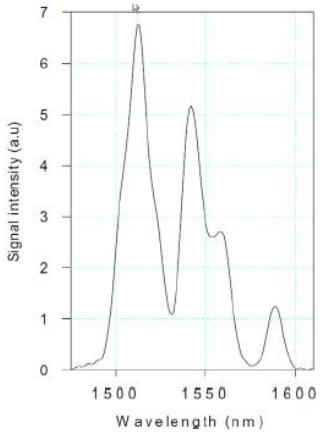

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Phone +49 5527 9990189 · Fax +49 5527 9990897
e-mail info@cinogy.com · www.cinogy.com