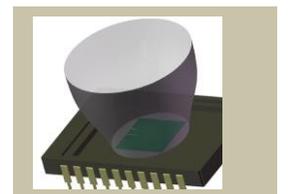
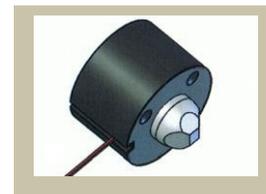
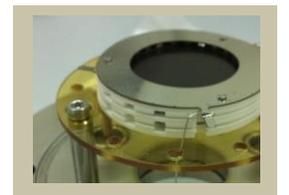




GIDS-GmbH
German Image Detector Systems

Electro-optic components and systems for particle imaging and electron microscopy



Business card

- Phosphor and scintillator screens
- Screen CF flange assembly
- MCPs
- MCP detectors
- MCP detector CF flange assembly
- MCP detector CF viewport assembly
- 18 mm image intensifier ICCD
- Fiber optic coupling



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Documentation request

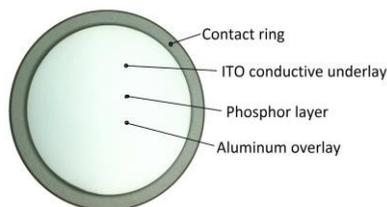
Please mail to info@gids-gmbh.com

- Phosphor and scintillator screens
 - Screen CF flange assembly
 - MCPs
 - MCP detectors
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 - MCP detector CF viewport assembly
 - 18 mm Image Intensifier ICCD
 - Fiber optic coupling
 - _____
- (Please specify in some words)
- Name: _____ First name: _____
Company: _____ Phone: _____
Street: _____ Fax: _____
Town: _____ Internet: _____
Postal code: _____ e-mail: _____
Country: _____

Phosphor and scintillator screens

Phosphor Type	color	peak [nm]	Decay to 10%	after glow	Efficiency relativ to P43
P43	green	545	1,5 ms	low	100%
P47	blue	400	120 ns	no	40%
P46F	green	520	50 ns	no	30%
XBF	blue	395	5ns	no	10%

We offer phosphor and scintillator screens which allow the two-dimensional, visual detection of electrons, protons, neutrons, heavy ions, x-rays and UV-radiation. The phosphor screens perfectly match with our MCPs with active diameter of 12, 18, 25, 40 and 75 mm and they also match with the MCPs from other MCP suppliers.



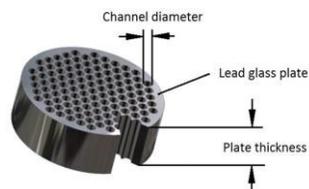
We offer additional functional coatings like ITO conductive underlay, metallized contact ring, reflection- and conductive aluminum overlay.

Screen CF flange assembly



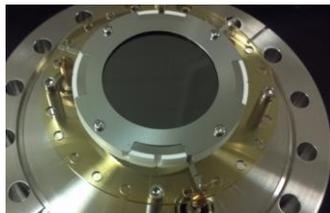
We offer the integration of screens on substrates like glass, quartz glass, fiber optic plate or taper in CF flanges for applications in electron microscopy. Together with the offered fiber optic coupling we adapt your selected camera.

MCPs and MCP detectors



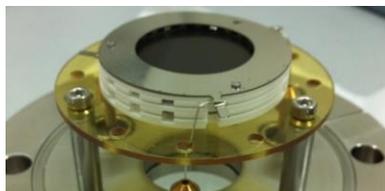
We offer MCPs for different applications in image and detection mode. The active diameter is 18, 25, 45 and 77 mm. Plates with aspect ratio of 40:1 and 60:1 are available. Single MCP's, double and triple MCP sets are available. CsI coating is possible on request.

MCP detector CF flange assembly



We offer open MCP detectors with metal anode for applications in counting mode. Due to the assembly in ultra-high-vacuum (UHV) CF-flange it is possible to integrate the system in any analytic instrument which is based on the CF standard.

MCP detector CF viewport assembly



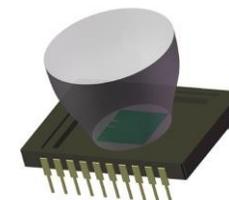
We offer open MCP detectors with phosphor or scintillator screen for applications in image mode. Due to the assembly in ultra-high-vacuum CF viewport it is possible to integrate the system in analytic instruments which are based on the CF standard.

18 mm image intensifier ICCD



We offer a special developed 18 mm 2nd generation image intensifier with integrated fiber optic taper output for the coupling with 1/2" CCD sensors like Sony ICX429ALL, ICX428ALL, ICX414AL, ICX415AL, ICX205AL or others. The size of the taper output for coupling is 6.6 mm x 4.8 mm. The fiber optic coupling allow a much better transfer efficiency of the photons to the sensor pixel than a normal lens system.

Fiber optic coupling



We offer the fiber optic coupling of FOPs (fiber optic plates), FOTs (fiber optic tapers) and FOWs (fiber optic windows) with supplied CCD, CMOS or other sensors. Fiber optic couplings are used in low light applications to couple the light from scintillator screens, image intensifiers or streak tubes direct to a CCD or CMOS sensor. The fiber optic coupling allows a much better transfer efficiency of the photons to the sensor pixel than a normal lens system. For example a 1:1 fiber optic plate instead of a f/1.2 lens reach a 10 times higher efficiency. The maximum reduction ratio of a fiber optic taper is 6:1 and the maximum available outer diameter of the large taper side is 165 mm.