

STREAK CAMERA INPUT OPTICS

IOS-20/ IOS-51

For SC-20 and SC-51 Systems



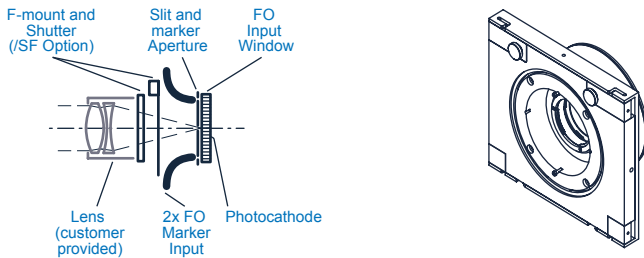
- Fixed slit width 50 μm - 500 μm
- Variable slit width and lense coupling (Optional)
- Magnification 1:1
- Optical fiber marker inputs
- Shutter and F-mount (optional)

Input Optics IOS-20 / IOS-51

Optronis

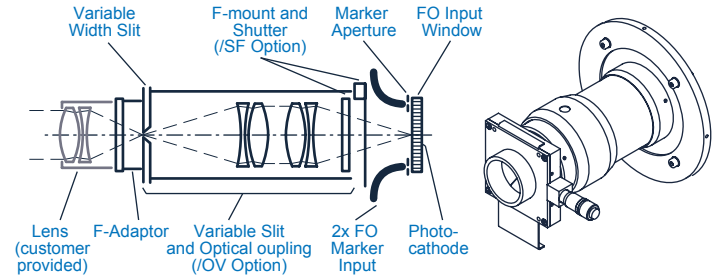
Make time visible

The IOS-20 and IOS-51 are input optics for OPTOSCOPE SC-20 and SC-51 streak camera systems. In its standard version the optics is completed by a slit (IOFS/Mxx) directly in contact with the fiber optic (FO) input window of the streak camera. Two fiber optics marker inputs provide an easy way to obtain reference timing pulses. Spectral system response is not affected by the IOS-20 / IOS-51. The flip-mechanics allows fast removal of the optics and exchange of the slit.



/OV OPTION

The /OV option adds a lense coupled slit with adjustable width. The image of the slit is coupled 1:1 onto the streak camera input. No fixed slit IOFS/Mxx is needed. This option can be used for the IOS-20/IOS-51 as well as IOFS-20/IOFS-51. It can be customer mount and provides separate X, Y adjustment for precise alignment of the slit image on the photocathode.



SPECIFICATIONS

Principle	Flexible mount with X, Y adjustment	Slit length (spatial)	0 - 30 mm
Fibre Optics (FO marker)	50 µm core, multimode	Slit width (temporal)	25 µm - 4 mm (micrometer adjustm.)
FO marker input	SMA 905 (2x)	Spectral range	350 nm - 950 nm
		Aperture	F/2
		Magnification	1:1

SLIT IOFS/Mxx

The slit has a slit aperture with fixed length and fixed width as well as two marker apertures. Installation on the IOS-20 or IOS-51 is easy and fast.

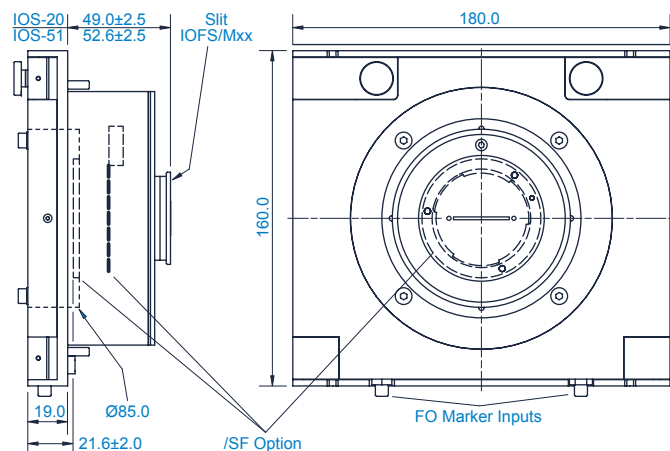


Slit length (spatial)	25 mm or 30 mm
Slit width (temporal)	50, 75, 100, 150, 200, 300 or 500 µm
Marker aperture	Ø 0.8mm

/SF OPTION

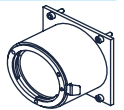
The IOS-20 / IOS-51 can be completed by an electro-mechanical shutter and F-Adaptor. The F-mount can be used to mount an object lens (Nikon) to focus the object image onto the slit. The electro-mechanical shutter has 40 mm aperture. This option has to be factory mounted.

TECHNICAL DRAWING IOS-20 / IOS-51

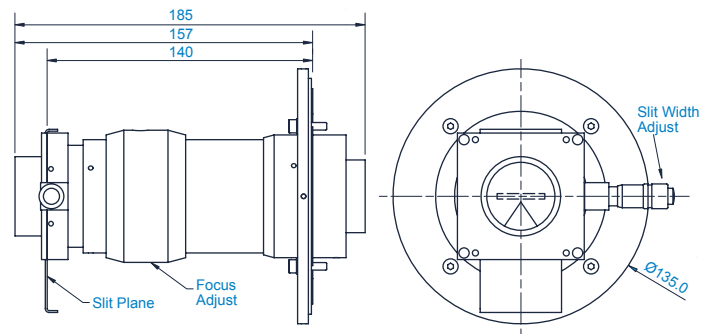


F-ADAPTOR

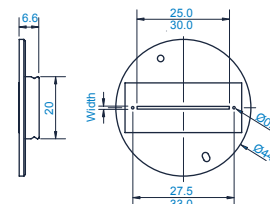
Adaptor for /OV option to mount a Nikon type object lens in front of the slit.



TECHNICAL DRAWING /OV



TECHNICAL DRAWING IOFS/Mxx



CONTACT INFORMATION

Optronis GmbH
Ludwigstraße 2
77694 Kehl
Germany

Phone: +49 7851 91 26 - 0
Fax: +49 7851 91 26 - 10
info@optronis.com
www.optronis.com

The information given herein is believed to be reliable, however Optronis makes no warranties as to its accuracy or completeness. Data sheet is subject to modifications at any time. 1/2017