

FLEXIBLE IMAGE GUIDE

DESCRIPTION

An optical fiber image guide transmits images from one polished surface to another through a flexible conduit to accommodate a restricted and inaccessible space.

This conduit consists of several glass optical fibers assembled in a coherent manner so that the individual position of each fiber is identical at each end of the bundle.

These image guides are popular for industrial endoscopy, imaging in hazardous environments, in the fields of research and defense.



FLEXIBLE IMAGE GUIDE FEATURES

There are three standard image guide formats: 4mm x 4mm – 5mm x 6,7mm – 8mm x 10mm.

Main features of these image guides are given in the following table.

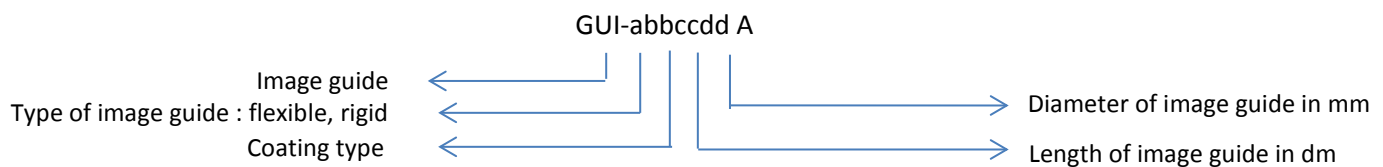
	Image guide format		
	4mm x 4mm	5mm x 6,7mm	8mm x 10mm
Outer diameter	12,7mm	32mm	32mm
Wavelength range	340nm – 1900nm	340nm – 1900nm	340nm – 1900nm
Numerical aperture	0,63	0,63	0,63
Bending radius	51mm	101mm	152mm
Operation temperature	Up to 93°C	Up to 121°C	Up to 121°C
Length	61, 91, 122, 183, 274, 381, 457 cm	61, 91, 122, 183, 274, 381, 457 cm	91, 122, 183, 274, 381, 457 cm
Resolution	16 000 points	33 500 points	80 000 points

For other non-standard image guide formats such as 2mm x 2mm, please consult us.

According to the requirements against chemical aggressions (oil, gasoline, water, grease, acid), this pipe is covered either by metallic braid or sheath stainless steel with a given polymer such as PVC, teflon, silicone.

Several objectives can be proposed according to the format of the image guide. C-mount adapter can be offered to connect to a market objective. Luxeri can also provide a eyepiece or relay lenses to connect to a camera on the market.

FLEXIBLE IMAGE GUIDE REFERENCE



Consult us :



Quartier des Delâches – 1 rue des Delâches – 91940 Gometz-le-Châtel

Tél. : 01 60 12 71 11 email : luxeri@luxeri.fr site : www.luxeri.fr