



INTEGRATING SPHERE ACCESSORIES

Port Plugs

A port plug mounts to the port of an integrating sphere via a mounting ring designed into the sphere. No additional mounting hardware is needed to attach a port plug to the sphere. A port plug is used to block off unused ports on the integrating sphere. Choose a port plug made of the same material as the interior coating of your sphere. Black-coated port plugs may be used for special applications where throughput needs to be maintained. Please consult our technical sales representative for information on using black port plugs.

HOW TO ORDER:

Correspond the "X" in our order number to the following sphere interiors:

O = Optowhite , Z = Zenith,

G= Zenith Gold, B = Black.

Example: a PP-025-O indicates a 0.25" Optowhite port plug.

PORT PLUGS		SIZE
ORDER NUMBER	PRODUCT NAME	(INCHES)
PP-025	Port Plug	0.25
PP-050	Port Plug	0.5
PP-100	Port Plug	1.00
PP-150	Port Plug	1.50
PP-200	Port Plug	2.00
PP-250	Port Plug	2.50

Port Reducers

Port reducers are used to decrease the clear aperture size of the port to a new value. Choose a port reducer made of the same material corresponding to the interior surface of your sphere. Port reducers mount to the mounting ring designed into the sphere port, no additional hardware is needed to attach the port reducer. The port reducer design also allows for "piggy-backing" of additional reducers or any of our fiber adapters.

HOW TO ORDER:

Correspond the X in our order number to the following sphere interiors: O = Optowhite, Z = Zenith,

ZG= Zenith Gold, B= Black* (one size available in black)

Example a R-100-050-O indicates an Optowhite reducer, size 1.00 to 0.5 inches.

PORT REDUCERS		SIZE
ORDER NUMBER	PRODUCT NAME	(INCHES)
R-050-025	Port Reducer	.50 to .25
R-100-050	Port Reducer	1.00 to 0.50
R-150-100	Port Reducer	1.50 to 1.00
R-150-050	Port Reducer	1.50 to 0.50
R-200-150	Port Reducer	2.00 to 1.50
R-200-100	Port Reducer	2.00 to 1.00
R-200-050	Port Reducer	2.00 to 0.50
R-050-025B*	Port Reducer, black	1.00 to 0.50

Fiber Adapters – SMA, FC/PC, ST, SC

Fiber adapters are used to mount a standard fiber optic onto a sphere port. SphereOptics fiber adapters are designed to easily mount to the mounting attachment designed into all our integrating sphere ports. Choose an adapter model that matches your sphere port size. Fiber adapters are available in Optowhite, Zenith Gold and Black.

HOW TO ORDER:

Correspond the X in our order number to the following material or coating:

O= Optowhite, G = Zenith Gold, B = Black

For example: a SMA-050-O indicates an Optowhite coated SMA fiber adapter for a.50 inch port.

FIBER ADAPTERS	TYPE/PRODUCT	SIZE
ORDER NUMBER	NAME	(INCHES)
SMA-025	SMA Adapter	0.25
SMA-050	SMA Adapter	0.50
SMA-100	SMA Adapter	1.00
FC-050	FC/PC Adapter	0.50
FC-100	FC/PCAdapter	1.00
ST-050	ST Adapter	0.50
ST-100	ST Adapter	1.00
SC-050	SC Adapter	0.50
SC-100	SC Adapter	1.00



INTEGRATING SPHERE ACCESSORIES

Detector Adapters

Spheres are often used with a detector to make absolute power measurement or relative radiometric measurements. Detector adapters allow users to mount standard detector types to a sphere port. The detector adapters easily mount to the mounting ring on our integrating sphere ports, no additional mounting attachments are required.

DETECTOR ADAPTERS ORDER NUMBER	PRODUCT NAME	TYPE	PORT SIZE (INCHES)
DA-TO5-050	Detector Adapter	TO5	0.50
DA-TO5-100	Detector Adapter	TO5	1.00
DA-TO5-150	Detector Adapter	TO5	1.50
DA-TO8-050	Detector Adapter	TO8	0.5
DA-TO8-100	Detector Adapter	TO8	1.00
DA-TO8-150	Detector Adapter	TO8	1.50
DA-TO46-050	Detector Adapter	TO46	0.50
DA-TO46-100	Detector Adapter	TO46	1.00

Light Traps

For applications where the user needs to absorb light coming from the port of a sphere, we offer a variety of light traps. These devices are commonly used in reflectance and transmittance measurements. The light traps are designed to easily attach to the mounting ring designed into all SphereOptics integrating sphere ports.

LIGHT TRAPS ORDER NUMBER	PRODUCT NAME	PORT SIZE (INCHES)
LT-050	Light Trap, 0.5	0.50
LT-100	Light Trap, 1.0	1.00
LT-150	Light Trap, 1.5	1.50

Sample Holders

Samples holders are used to hold flat, thin samples against a sphere port for reflectance and transmittance measurement. Sample holders are sized only for 1-inch diameter ports. Two incident geometries are available: 0° normal incidence or 8° near-normal incidence. Our sample holders are designed to allow users to mount a light trap behind the sample to prevent ambient contribution from reflectance measurements.

HOW TO ORDER:

Correspond the X in the order number with the interior coating of your sphere.

O= Optowhite, G= Zenith Gold.

SAMPLE HOLDER ORDER NUMBER	PRODUCT NAME	INCIDENCE ANGLE
SH-100-0	Sample Holder, 1.00	0°
SH-100-8	Sample Holder, 1.00	8°
S-100-C	Sample Holder, Center	Center Mount
S-CUV-SLD	10mm Cuvette Holder	

Filter/Target Holders

Filter/Target Holders are used to mount a filter in front of a detector or sphere port. Filter holders accommodate filter thicknesses, or a stack of filters up to 0.375 inches. A holding mechanism holds the filter firmly in place. The filter holders mount easily to the mounting ring designed into our integrating spheres.

FILTER HOLDER ORDER NUMBER	PRODUCT NAME	PORT SIZE (INCHES)
F-050	Filter/Target Holder	0.50
F-100	Filter/Target Holder	1.00
F-150	Filter/Target Holder	1.50
F-200	Filter/Target Holder	2.00
F-250	Filter/Target Holder	2.50

Variable Attenuators

Variable attenuators are designed to allow users to vary the intensity of light entering an integrating sphere. Our variable attenuators are designed to operate with our external light sources and easily attach to the sphere port mounting ring. The attenuators may be set to specific aperture steps to precise control the amount of light entering the sphere. Model # 5182 Automatic Variable Attenuator includes an aperture controller module.

VARIABLE ATTENUATOR ORDER NUMBER	PRODUCT NAME	TYPE
VA-M	Variable Attenuator	Manual
VA-MM	Variable Attenuator	Manual, Micrometer driven
VAC-1	Variable Attenuator & Controller	Automatic