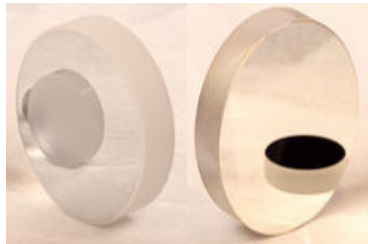


# Metal Coating Mirrors

(High Reflection, Protected)  
(Gold, Silver, Aluminum Coating)



PHOTONIK SPECTRUM WORLD

PHOTONIK's metal coating mirrors are cost effective for general-broadband high-reflection use and offered in a variety of sizes, which are most popular in R & D environment and instrument development areas. SiO or MgF<sub>2</sub> coating is used to protect the delicate metal coating making it suitable for laboratory and industrial use.



Call us for info  
Metal Coating Mirror Pack\*\*

\*\* Economical package with much lower price (20% lower than unit price)

## General Specifications:

**Substrate Material:**

Fused Silica, or upon request

**Surface Figure:**

$\lambda / 10$  typical at 633nm over clear aperture

**Surface Quality (after coated):**

40-20 scratch and dig laser quality (MIL SPECS 0-13830B)

**Chamfer:**

0.35mm at 45° typ.

**Substrate Dimension:**

Round  
Square  
Rectangular

**R05:** Ø0.5" x T6mm; **R10:** Ø1" x 6mm; **R20:** Ø2" x T12mm;

**S05:** 0.5"x0.5"x1mm; **S10:** 1"x1"x2mm; **S20:** 2"x2"x6mm;

**SA:** 15x7x2mm; **SB:** 25x15x3mm; **SC:** 30x20x3mm;

or upon request

± 0.10mm

**Dimension Tolerance:**

**Coating Technology:**

Electron/Ion beam multi-layer dielectric standard

**Metal Coating:**

**For General-Broadband High-Reflection Use**

**PAU:** Protected Gold Coating

**PAG:** Protected Silver Coating

**PAL:** Protected Aluminum Coating

**UVE:** UV Enhanced Coating

Protective SiO or MgF<sub>2</sub> Overcoat to Prevent Oxidation

**Protected Coating:**

> 90% of dimension, central area

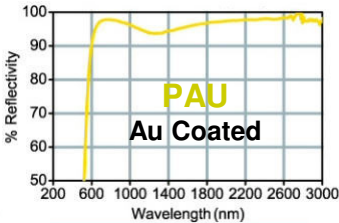
**Clear Aperture:**

**Damage Threshold:**

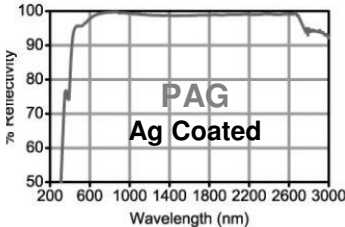
0.5 J/cm<sup>2</sup> (10 ns Pulse)

## Metal Coating Spectrum:

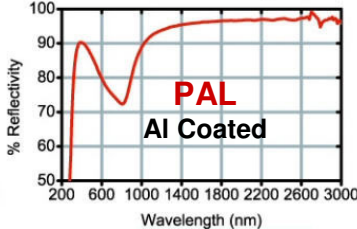
Protected Gold Coating Spectrum  
Ravg>98% from 650nm to 5um



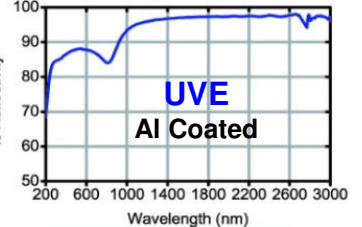
Protected Silver Coating Spectrum  
Ravg>96% from 400nm to 700nm  
Ravg>97.5% from 700nm to 2.0um



Protected Aluminum Coating Spectrum  
Ravg>90% from 400nm to 10um



UV Enhanced Coating Spectrum  
Ravg>86% from 250nm to 400nm  
Ravg>85% from 400nm to 700nm



Copper, Nickel, Platinum, Rhodium Coating also available!

## Ordering Information:

MCM — ① — ②

① — Metal Coating type (per given code): e.g. **PAU** for Protected Gold Coating; **PAG** for Protected Silver Coating ...

② — Dimension (per given code): e.g. **R05** = Ø0.5" x T6mm; **S10** = 1"x1"x2mm; **SC** = 30x20x3mm...

## Contact Information:

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