# Fast High Power Measurement!



# Integrating Spheres



Highlights:

- · Highpowerhandling
- · Multipleports
- · Economical

### OurofferinDetail:

Artifex Engineering designs and manufactures a range of gold coated integrating spheres for high power applications. We use SMA fibre ports to allow accurate power measurement with our OPM series of optical power meters.

High power measurements are often performed using thermopile detectors. Thermopiles however, have the disadvantage of reacting very slowly - typical rise times leading to measurement periods of 1 second atbest. The combination of an integrating sphere and a photodiode based power meter opens the possibility of measuring high power fluctuations on a  $\mu$ s time scale.

These integrating spheres have exceptional power density handling capability. We offer air and water cooled designs depending on the average power to be measured.

#### Specifications

- SMA fibre ports
- Standard 2 port design (eg: power and spectrometer). Four ports on request.
- Power density: 5000W/cm<sup>2</sup>
- Power handling: 40W (65mm uncooled); 4000W (100mm water cooled)
- Wavelength range: 650nm 20µm

#### Your problem is our challenge - flexibilityis our standard:

We will gladly adapt, for example, the aperture or diameter to suit your application. Let us know your requirements



# The perfect match!



# **Integrating Spheres**



## Highlights:

- High efficiency
- Extreme positional independence
- Compatible with OPM150 system

### Our offer in Detail:

Artifex Engineering designs and manufactures a range of high quality polymer based integrating spheres for low average power applications in the visible and near infra-red. The larger spheres have standardized ports for modular configuration. The ports can be populated with either aphotodiode or a fibre receptacle. The smaller sized spheres come with an integrated photodiode and an SMA fibre port. These spheres are compatible with our OPM150 series of optical power meters. Just plugit in to your USB port and start measuring!

The polymer integrating spheres from Artifex Engineering are very efficient due to the high reflectivity of the quality material we use. These spheres are CNC machined from solidraw material - not justcoated. The resultisa stable instrument you can trust!

#### Options

- · Fibre ports: SMA and FC
- · Photodiodes: Si, Ge, InGaAs, VIS-enhanced InGaAs, IR-extended InGaAs
- · Sphere inner diameters: 10mm, 20mm, 50mm, 100mm

#### Specifications

- Wavelength range: 250-2500nm
- · Positional dependence: <1% (full aperture)
- Angular dependence: <2% ( $\pm 30^\circ$ )

### Your problem is our challenge - flexibility is our standard:

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