

New Product Release Photonics Instruments



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819C/D Series Integrating Sphere Detectors

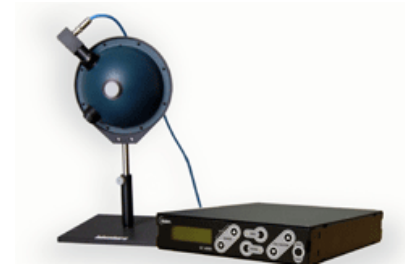
- Line extended to UV detectors
- 5.3" spheres are first to release, and coming soon are 2"
- Also coming soon are 5.3" and 2" Silicon sphere detector with power level up to 7 watts

- **Benefits**

- Accurate measurement with the smallest calibration uncertainty spec
- Now wavelengths extended down to 250 nm UV region
- Available for both diverging and collimated input beams



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	Newport	Thorlabs	Other Suppliers
UV	100 nW – 500 mW @ 400 nm	None	<ul style="list-style-type: none"> • Labsphere • Optronic Lab • Gigahertz
Si	100 nW - 7 W (new models coming soon) <±1.5% most wavelengths	1 uW – 5 W (2 models) ±3% (450 – 950 nm), ±5% rest of range	<ul style="list-style-type: none"> • Ophir • UDT/Gamma Scientific <p>-----</p>
IR	100 nm – 4.5 W (Multiple models) ±2% majority wavelengths	100 nW – 20 W (3 models) ±5%	<ul style="list-style-type: none"> • Newport offers broader range of standard sphere based detectors than competition
Features/ Specs	Better calibration uncertainty Extra port for spectral measurement Separate models for divergent or collimated beam	Fiber adapters included (but additional	<ul style="list-style-type: none"> • Newport offers better calibration uncertainty spec than competition

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- Vendor could no longer deliver the specified spec for 818-BB-50, subsequently replacing it with 818-BB-51(F)
- 818-BB-51F is a fiber coupled version
- Price remain identical as 818-BB-50(F)
- Spec comparison

Model	818-BB-50	818-BB-51
	818-BB-50F	818-BB-51F
Wavelength Range (nm)	830-2100	1475-2100
Material	Extended InGaAs	Extended InGaAs
Rise Time (ps)	<35	<50
Fall Time (ps)	<35	<50
Cut Off Frequency (GHz)	>10	>7
Active Diameter (μm)	40	55
Dark Current (nA)	<10 uA	<300 uA
NEP (pW/√Hz)	<2 pW/√Hz @ 2.0um	<13 pW/√Hz @ 2.0um
Output Connector	SMA	SMA

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ISO-05-800-BB Optical Isolator

- Vendor replaced both ISO-05-800-BB-G and ISO-05-800-BB-P models with the new model
- Design change



- Spec changes – there are minor spec changes. Check product web page

Model	ISO-05-800-BB	ISO-05-800-BB-P (Obsolete)	ISO-05-800-BB-G (Obsolete)
Polarization Direction of Input Beam	Horizontal Polarization	Horizontal Polarization	Horizontal Polarization
Clear Aperture (mm)	5	5	5
Center Wavelength (nm)	800	800	800
Spectral Range (nm)	720-950	720-950	720-950
Isolation (dB) @ 25°C	≥30	≥30	≥30
Operating Temperature (°C)	10-50		
Storage Temperature (°C)	10-60 °C		
Transmission (%) @ 25°C	≥90	≥88	≥92
Pulse Damage Threshold (MW/cm ²) For a 10 ns pulse	100	100	300
Polarizer Type	PBS Cube	PBS Cube	Glan Laser Calcite
Rotating Medium	Terbium Gallium Granet	Terbium Gallium Granet	Terbium Gallium Granet

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- Introduced in '[UV Curable Epoxy](#)' web page
- Line extended to offer more variety of UV curing adhesives
- Available in 6 gram syringe only
- No private labeling



Model	NOA-1375S	NOA-1625S	NOA-85S	NOA-86S
Recommended Use	Low viscosity adhesive with a refractive index of 1.375 for bonding glass or plastic.	Low viscosity adhesive with a refractive index of 1.625 for bonding glass.	Low refractive index, higher viscosity adhesive for bonding glass and plastic	Low viscosity adhesive that meets Bellcore specification of 85C/85RH for bonding glass.
Refractive Index, Cured	1.375	1.625	1.46	1.55
Glass Adhesion	Excellent	Excellent	Excellent	Excellent
Metal Adhesion	Good	Good	Good	Good
Plastic Adhesion	Fair	Fair	Good to Excellent	Good to Excellent
Viscosity (cps)	45 - 60	60 - 80	200	200 - 300
Operating Temperature (°C)	-15°C to 90	-15°C to 90	-15°C to 90	-125°C to 125 °C after aging
Manufacturer P/N	NOA 1375S	NOA 1625S	NOA 85S	NOA 86S
List price	\$39.90	\$22.90	\$22.90	\$22.90