








# Selecting an Optical Power and Energy Meter

Click **Optical Power Meters** to browse all of our standard models, or select a product series below to learn more about our products and capabilities. We also offer a complete line of **Calibrated Optical Detectors**. **Power Meter Kits** are a good choice if simple, occasional measurements are required. However, once you have a kit, it is easy to extend the capabilities by purchasing another detector or a meter Newport offers.

MODEL	Features and Benefits
Benchtop Meters	
	<p><a href="#">Optical Power and Energy Meters, High Performance, 1936-C/2936-C</a></p> <ul style="list-style-type: none"> <li>• The most advanced meter available in market</li> <li>• 11 fW and 7 uJ measurement resolution, frequency measurement</li> <li>• vivid 5.7" color screen with multiple graphical display options</li> <li>• Advanced statistics, user-friendly menu structure</li> </ul>
	<p><a href="#">Benchtop Optical Meter, 1928-C</a></p> <ul style="list-style-type: none"> <li>• Economical benchtop solution suitable for most optical power measurements.</li> <li>• 11 pW and 7 uJ measurement resolution.</li> <li>• Vivid 4" color screen with multiple graphical displays.</li> <li>• Advanced statistics, user-friendly menu structure.</li> </ul>
Portable Meters	
	<p><a href="#">Optical Power Meter, High-Performance Hand-Held, 1918-R</a></p> <ul style="list-style-type: none"> <li>• High-end Benchtop performance and features in this portable power meter</li> <li>• 11 pW and 7 uJ measurement capabilities</li> <li>• 4" color screen with the same advanced features available with the benchtop models</li> </ul>
	<p><a href="#">Portable Optical Power Meter, 842-PE</a></p> <ul style="list-style-type: none"> <li>• Next generation of 841-PE with an improved design and user interface</li> <li>• Good compromise between advanced 1918-R and economic 1916-C</li> <li>• 3.5" monochrome screen</li> </ul>
	<p><a href="#">Handheld Laser Power Meter, 1917-R</a></p> <ul style="list-style-type: none"> <li>• Economical solution for laser alignment with ultrafast simulated analog needle</li> <li>• Large 77 X 58 mm LCD display for easy reading</li> <li>• Three different needle display mode</li> <li>• Compatible with Newport 818, 918D, and 818P detectors</li> </ul>
Virtual Meters	
	<p><a href="#">Dual Channel Virtual Optical Power/Energy Meter, 842-E-USB</a></p> <ul style="list-style-type: none"> <li>• USB powered Dual Channel Virtual optical Power/Energy Meter</li> <li>• Fast 10 kHz per Channel data transfer rate allows shot to shot stability when used with 818E energy detectors</li> </ul>
	<p><a href="#">Virtual Optical Power Meter, 841-P-USB</a></p> <ul style="list-style-type: none"> <li>• Most economic virtual optical power meter</li> <li>• Compatible with photodiode detectors and 818P series thermopile detectors</li> <li>• Small form factor, ideal for manufacturing setup</li> </ul>

## Specificaiton

MODEL	1936-C 2936-C	1928-C	1918-R 1918-C	842-PE	1917-R	1916-R 1916-C	842-E-USB	841-P-USB
Instrument Type	Benchtop		Hand-held, Portable				Virtual (Computer Interface Only)	
Dual Channel	X						X	
Photodiode Detector	X	X	X	X	X	X		X
Thermal Detector Compatible	X	X	X	X	X	X	X	X
Pyro Detector	X	X	X	X			X	
Power Measurement Range	11fW-20kW	11pW-20kW	11pW-20kW	5pW-10kW	5pW-10kW	5pW-10kW	5pW-10kW	5pW-10kW
Energy Measurement Range	7μJ - 20kJ	7μJ - 20kJ	7μJ - 20kJ	7μJ - 20kJ	7μJ - 20kJ			
Analog Output	X	X	X	X (Converted from digitized values)				
Trigger Input								
Computer Interface	USB	USB	USB	USB,RS-232			USB	USB
Firmware field Upgradability	X	X	X					
CW, RMS, Pulsed Measurements	X	X	X	X	X	X	X	X
Frequency Measurement	X							
Advanced Functions: Math, Statistics, Filtering	Best	Best	Best	Good	Good			
Advanced Fuctions: Charting, Plotting, Bar Graph	Best	Best	Best		Good			
Internal Data Storage	250,000pts	250,000pts	250,000pts	50,000pts				
Full Color TFT LCD Display	X(5.7")	X(4")	X(4")					
Battery Operation Mode			X	X	X	X		

Note : X indicates that the feature is available. -R power meters are RoHS compliant