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Find the *Newport / Oriel 77200* at our website: ***Click HERE***

Oriel Photomultiplier Tubes for Optical Power Meter



Photomultiplier Tubes in Side-on and End-on Housings

- High sensitivity UV detectors
- Easy to use
- End-on and Side-on models

Photomultiplier tubes (PMTs) offer a most cost effective, low light level measurement solution. Because the permutations are many, we don't offer complete PMT systems for the Oriel OPM™, but rather offer the components so you can “build” your own system. Here, we give you an overview of the PMT family, and offer guidance in choosing the components.

What Do I Need to Build a System?

To build a complete OPM PMT System, you need:

- End-on or Side-on PMT
- 70680 Side-on or 77265 End-on PMT Housing
- 70705 PMT Power Supply
- Oriel OPM (Optical Power Meter)

The Choices

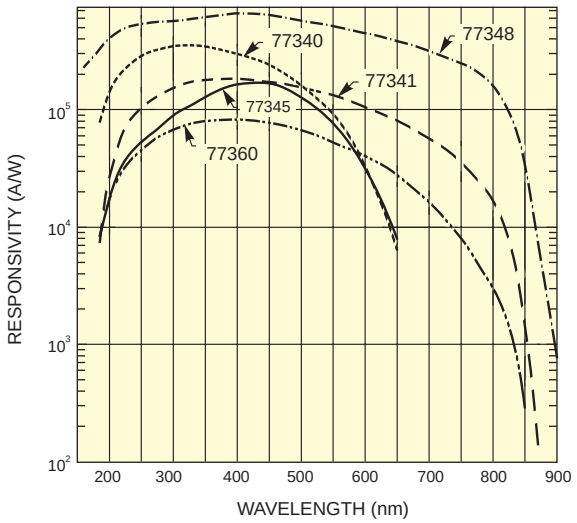
You need to answer two questions in order to choose the appropriate PMT components to build a system:

1. What wavelength range do you need?

   We have PMTs that are sensitive in the UV, as low as 160 nm, and in the NIR as high as 1100 nm (see the responsivity curves).

2. Do you want a side-on or end-on PMT?

   Side-on PMTs are more economical; the end-on systems have a larger photocathode area and have a more uniform responsivity.



Typical responsivity curves of photomultiplier tubes

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Ordering Information

Photomultiplier Tubes

Description	Model	Wavelength Range	Peak Wavelength	Cathode Responsivity*	Photocathode Size	NEP* (W $Hz^{-1/2}$)	Supply Voltage	Price
Side-on PMT	77340	185-650 nm	340 nm	48 mA/W	8 x 24 mm	1.4×10^{-16}	1000	
	77341	185-870 nm	330 nm	40 mA/W	8 x 24 mm	2.8×10^{-16}	1000	
	77343	400-1000 nm	730 nm	1.9 mA/W	8 x 24 mm	1.2×10^{-13}	1250	
	77348	160-900 nm	400 nm	68 mA/W	8 x 24 mm	1.2×10^{-16}	1000	
	77360	185-850 nm	420 nm	70 mA/W	8 x 16 mm	5.0×10^{-16}	1000	
End-on PMT	77345	185-650 nm	420 nm	85 mA/W	25 mm dia.	2.0×10^{-16}	1000	
	77346	185-850 nm	420 nm	64 mA/W	25 mm dia.	6.6×10^{-16}	1000	
	77361	400-1100 nm	800 nm	1.9 mA/W	25 mm dia.	4.2×10^{-13}	1250	

*Typical values at the supply voltage listed.

Accessories

Description	Model	Price
Side-on PMT Housing	70680	
End-on PMT Housing	77265	
PMT Power Supply	70705	

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