

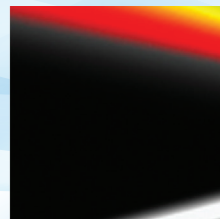


PMT-1527

185 nm to 680 nm Photon Counting or Analog PMT

ELEMENTAL ANALYSIS
FLUORESCENCE
GRATINGS & DEM SPECTROMETERS
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FORENSICS
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SPR IMAGING

A high sensitivity photomultiplier tube provides good spectral response in the UV to near infrared



If you need a high sensitivity single point detector to measure small signals in the UV-VIS spectral region, the PMT-1527 photomultiplier tube from HORIBA Scientific is an excellent choice. With high quantum efficiency and multiple options for ambient or cooled housings, responsivity extends from 185 nm to 680 nm. This is one of a number of single point detectors available from HORIBA Scientific. Contact us for further information.

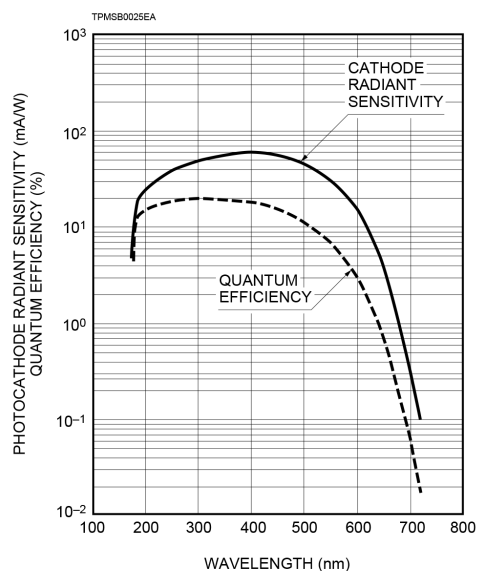
Used in conjunction with optically optimized housings, these PMTs integrate seamlessly with HORIBA's extensive selection of monochromators. In addition, the SpectrAcq2 acquisition module allows for software integration with LabSpec, SynerJY or LabVIEW. With all of the additional Optical Building Blocks available from HORIBA, a user can easily go from individual components to a complete spectroscopy solution.



Features and Benefits

- Wide spectral responsivity from 185 nm to 680 nm
- Ultra high sensitivity
- High quantum efficiency
- Compact ambient and TE detector housing options

Typical Spectral Response



Accessories

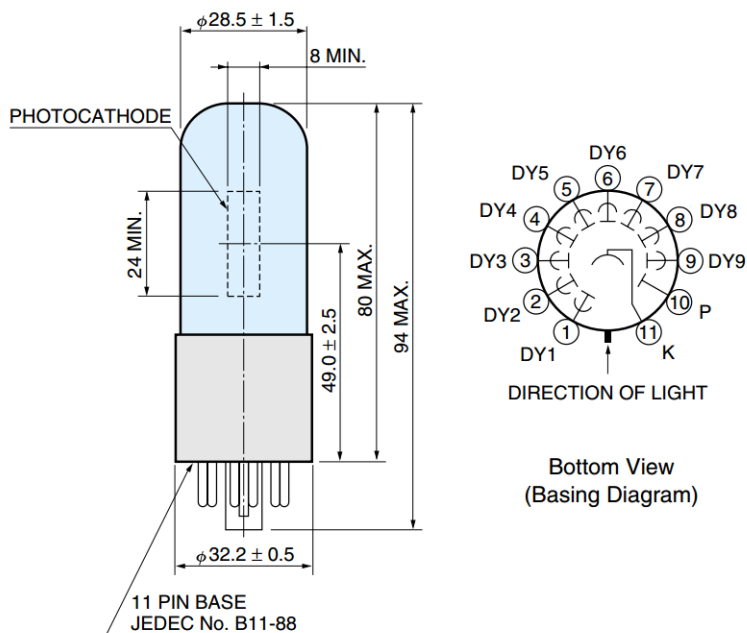
Various accessories are available for powering the detectors, optically coupling detectors to HORIBA monochromators, and data acquisition.

- Ambient housing, 1911F/G
- High voltage power supply, PMT-HVPS
- Ambient housing with integrated high voltage, DPM-HV/G
- Air-cooled TE housing, OB-3001
- Water-cooled TE housing, 1914F/G
- SpectrAcq2 photon counting module, SAQ2-302DPM

Specifications

Part number		PMT-1527
Spectral response		185 nm – 680 nm
Photocathode material		Multialkali
Window material		UV glass
Effective area of PMT		8 mm x 24 mm
Supply voltage		1250 V DC
Cathode sensitivity	QE at 260 nm	19% typical
	Luminous	60 $\mu\text{A}/\text{lm}$ typical
	Radiant at 400 nm	60 mA/W typical
Anode sensitivity	Luminous	400 A/lm typical
	Radiant at 400 nm	$4 \times 10^5 \text{ A}/\text{W}$ typical
Gain		6.7×10^5 typical
Anode dark current		0.1 nA

Mechanical Diagram



OPTICAL BUILDING BLOCKS



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