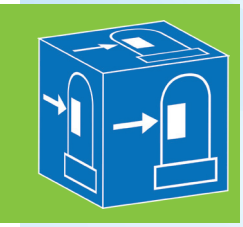
HORIBA Scientific

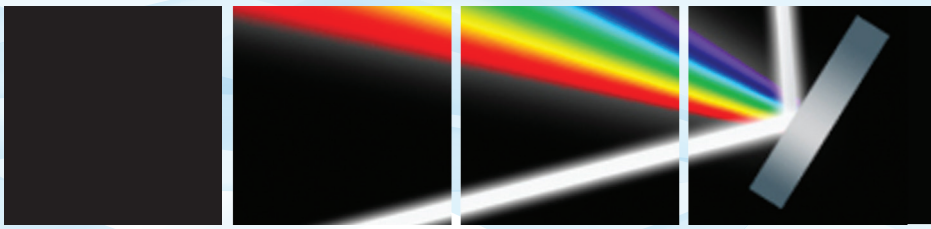


PMT-928/955

160 nm to 900 nm Photon Counting or Analog PMT

ELEMENTAL ANALYSIS
FLUORESCENCE
GRATINGS & OEM SPECTROMETERS
OPTICAL COMPONENTS
FORENSICS
PARTICLE CHARACTERIZATION
RAMAN
SPECTROSCOPIC ELLIPSOMETRY
SPR IMAGING

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



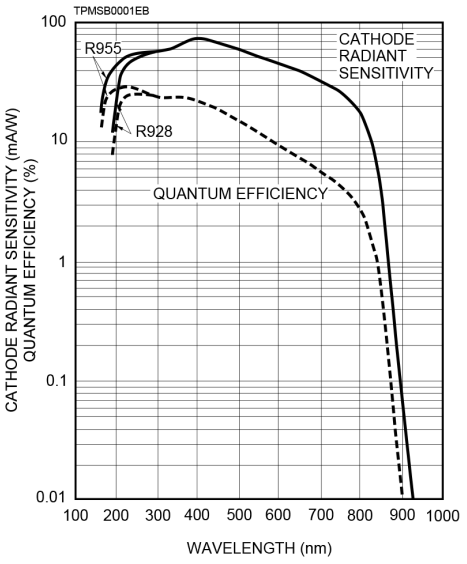
If you need a high sensitivity single point detector to measure small signals in the UV to NIR spectral region, the PMT-928 and PMT-955 photomultiplier tubes from HORIBA Scientific are excellent choices. With high quantum efficiency and multiple options for ambient or cooled housings, responsivity extends from 160 nm to 900 nm. The PMT-928 uses a UV glass envelope, while the PMT-955 uses a fused silica envelope for extended UV response. 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 160 nm to 900 nm
- Ultra high sensitivity
- High quantum efficiency
- Compact ambient and TE detector housing options

Typical Spectral Response



Accessories

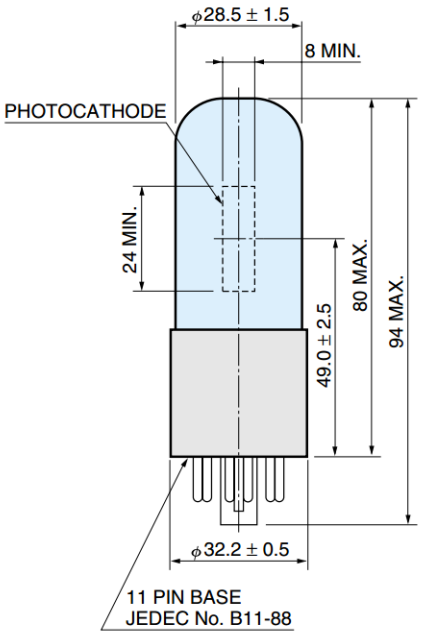
Various accessories are available for powering the detectors, optically coupling detectors to HORIBA monochromators, and data acquisition.

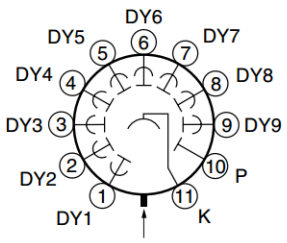
- Ambient housing, 1911F/G
- High voltage power supply, PMT-HVPS
- Ambient housing with integrated high voltage, DPM-HV/G
- Air-cooled TE housing, OB-3001
- Water-cooled TE housing, 1914F/G
- SpectrAcq2 photon counting module, SAQ2-302DPM

Specifications

Part number		PMT-928	PMT-955
Spectral response		185 nm – 900 nm	160 nm – 900 nm
Photocathode material		Multialkali	
Window material		UV glass	Fused silica
Effective area of PMT		8 mm x 24 mm	
Supply voltage		1250 V DC	
Cathode sensitivity	**QE at 260 nm**	25.4% typical	
	Luminous	250 µA/lm typical	
	Radiant at 400 nm	74 mA/W typical	
Anode sensitivity	**Luminous**	2500 A/lm typical	
	Radiant at 400 nm	7.4 x 10^5 A/W typical	
Gain		1 x 10^5 typical	
Anode dark current		3 nA	

Mechanical Diagram





Bottom View
(Basing Diagram)