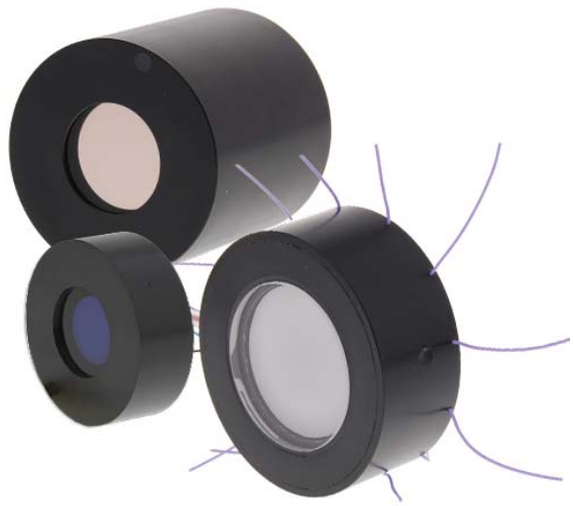
PHOTONIS
Scientific Detectors

Custom **Detection Options**



Custom Image Intensifiers

Photonis' continual innovation in low light intensified detection allows you to custom-design the image intensifier you need.

From exclusive Hi-QE photocathodes, to a wide range of camera solutions, Photonis provides the widest range of custom options in the market. Whether you need a specific wavelength, coating, phospor screen, gating or power supply, Photonis has the capability and experience to manufacture single tubes or complete production quantities.

Wide Range of Custom Options

Photonis can customize nearly every component of Image Intensifiers to be sure you get the exact detector to meet your requirement. Our engineering staff will be happy to assist you in selecting the best combination to achieve your detection needs.

Coating
None
NESA
MgF2

Input Window
Quartz
Glass
Fiber Optic
MgF2

Photocathode
Solar Blind
S20 (UV)
S20
Broadband
Hot S20
S25
Hi-QE UV
Hi-QE Blue
Hi-QE Green
Hi-QE Red

Active ø (mm)
16
18
40

MCP **L:D**
None
Single 50:1
Double 2x50:1
Double+ 50:1 + 90:1

Gating Sublayer
None
Slow
Fast
Ultra

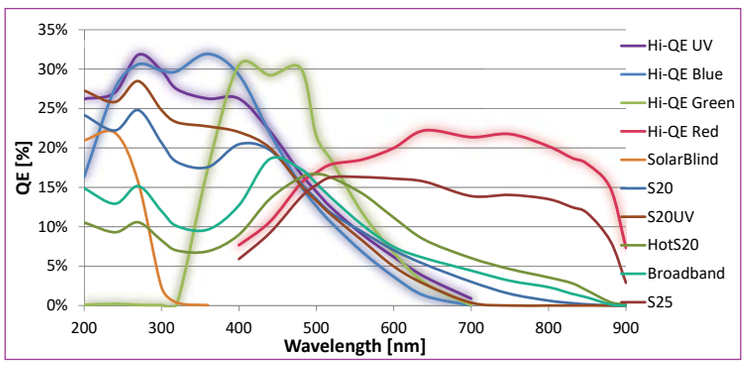
Phosphor
P22
P24
P43
P46
P47

Output Window
Straight fiber optics
Twisted fiber optics
Glass

Power Supply
Standard fixed gain
Extended Gain Control (EGAC)
Autogating
Autogating EGAC + ext sync
EGAC with gate unit

Photocathodes

The spectral sensitivity characteristic is the curve showing how cathode radiant sensitivity varies with wavelength. The spectral response is determined at the longer wavelength (photo emission threshold) by the photocathode type and thickness and at the shorter wavelengths by the input window transmission.



Available Options

- Coupling coatings such as NESA/ITO conductive coating for CCD coupling
- No MCP (Proximity Focused Diode as a booster tube or wavelength shifter)
- ICCD and ICMOS (straight or tapered, fiber optic bonded Intensified CCD/CMOS)
- Nocturn Low Light CMOS Camera
- Electronic shutter, gating in combination with gating units
- Power Supply for Autogating (Day/Night)
- Cricket Lens Coupled Interface

MCPs, Phosphor and Gating

MCPs can be supplied with a wide range of gating options and different phosphor screens. When choosing a phosphor, the decay time is the main determination.

P22 slow decay 10ms
P43 slow decay 1ms
P24 medium decay 100µs
P46 fast decay 1µs
P47 fast decay 0.3µs

S25 photocathode + P22 phosphor	Gain Values
0 MPC (Proximity Focused Diodes)	30-100
1 MCP	3,000-15,000
2 MCP	200,000-500,000
2 MCP (2 MCP, one with increased thickness)	>1,000,000

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