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Lambert Intensifier I4013

The Lambert Intensifier I4013, combined with a videocamera, forms a monochrome camera for low light levels that can be used in several applications such as:

- fluorescence microscopy
- astronomy (in combination with telescope)
- surveillance camera
- X-ray imaging

The constant gain over a wide range of light levels offers the possibility of intensity measurements.

Technical data

Magnification	: 0,29x
Intensification	: 100x
Resolution	: 95 lp/mm at output image plane
Input Voltage	: 12V
Lens-mount	: M42, adjustable
Camera-mount	: C-mount, adjustable

Typical photocathode spectral sensitivity

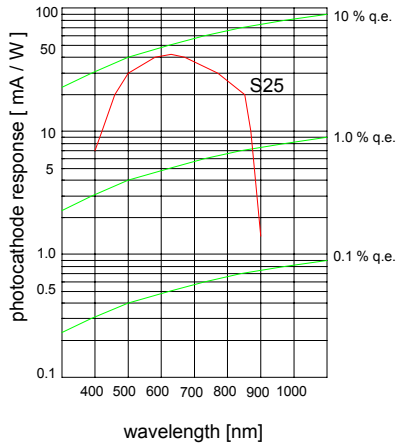


Image Intensifier Tube

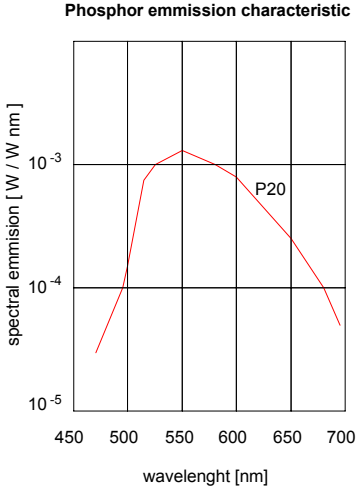
Type	: Generation 1
Input diameter	: 40 mm
Input window	: fiber optics
Photocathode	: S25
Cathode sensitivity	: 275 µA/lm
Gain	: 700 cd/m2.lx
Output diameter	: 13 mm
Resolution	: 95 lp/mm at output
Magnification	: 0,29x
Phosphor	: P20
Decay time	: ≈ 1 ms (to 10 %)

Relay optics

High quality optical system consisting of 14 elements.

Speed, f-number	: f/1.0
Magnification	:1.0x

Phosphor emmission characteristic



Field of view

The field of view is determined by the format of the image sensor.When using a camera with a 2/3" sensor, the f.o.v. becomes 34 mm diagonal.

Dimensions and weight

Length	: 185 mm
Diameter	: 90 mm
Weight	: 1150 g