



Dr. Gröbel
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we apply photonics.

Fluorescence camera FD-03



Fig. 1: Fluorescence camera FD-03

The Fluorescence camera FD-03 is a robust, sensitive device for the detection of luminescent substances. An integrated UV light source with projection optics excites the luminescence (fluorescence or phosphorescence) of the sample. The detection system measures the luminescence in the visible spectral range. The influence of room light on the measuring result is minimized by a modulation technique. The device detects in distances up to 1 meter in dependence on the requirements for the detection limit.

Measuring data are shown on a 3½-digit digital display. A LED with adjustable switching threshold indicates detection of luminescence. The measuring signal is externally available as a current signal.

Applications

- Process control
- Leak detection with fluorescent markers
- Coating control
- Detection of impurities
- Trace detection

Technical Data

| | |
|--------------------|---------------------------------------|
| Measuring time: | 1.4 s |
| Resolution: | 0.05% of scale |
| λ excitation: | 365 nm |
| λ measurement: | visible light (other λ on request) |
| Signal current: | 4 to 20 mA |
| Dimensions: | 237(+40) x 280 x 78 mm |
| Weight: | 6.9 kg |
| Power supply: | 24 VDC |
| Power consumption: | 12 W |
| Operation temp.: | 10 to 30 °C |
| Storage temp.: | -10 to 40 °C |
| Humidity: | < 80% Non-condensing |

Part number

Fluorescence camera FD-03

800530

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