



Gigahertz-Optik

Measurement *of* Light

Measurement *with* Light

1



Photometry & Colorimetry

- Illuminance / Luminance
- Luminous Flux / Luminous Intensity
- Luminous Color

2



Polychromatic Radiometry

- UV - VIS - NIR Power
- Phototherapy / Radiation Protection
- Photodynamic Therapy
- Plant Physiology

3



Monochromatic Radiometry

- Laser Power / Fiber Power
- Telecommunication

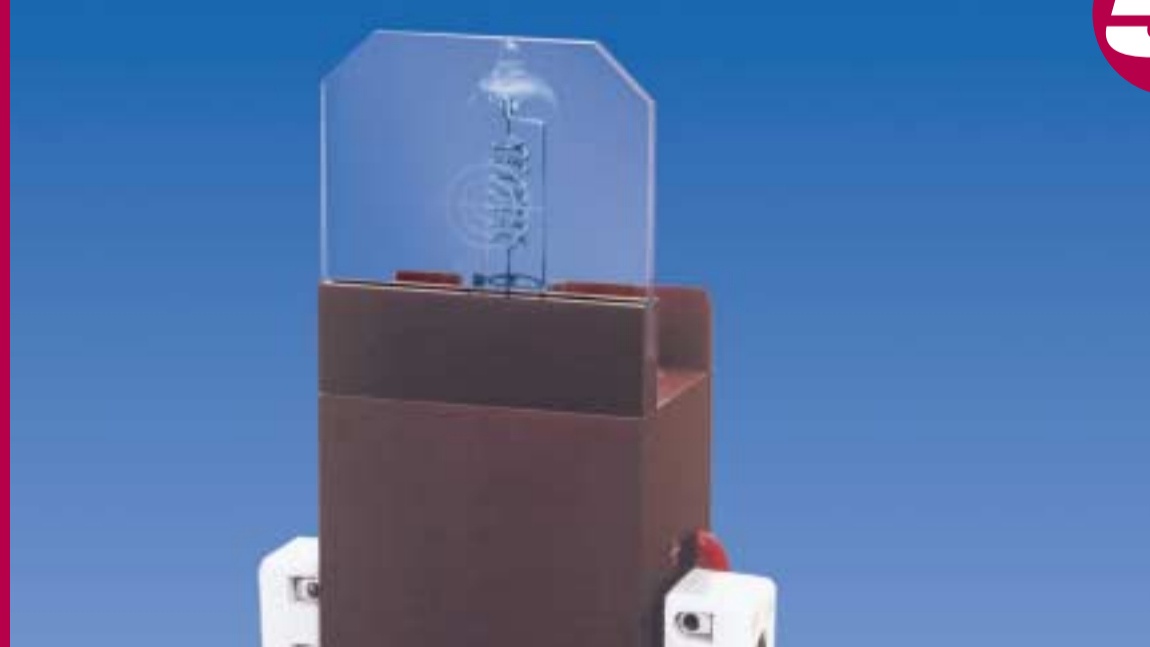
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Process Control

- UV Curing / UV Processing
- UV Air and Water Disinfection
- Nondestructive Testing
- Photostability
- Light Reflectance / Light Transmittance

5



Calibration Service and Standards

- Sources and Detectors
- Reflectance and Transmittance
- Uniform Light Sources

6



Components

- Integrating Spheres
- Diffuse Reflecting Material
- Diffuse Reflecting Components
- Optometers and Detectors

Gigahertz-Optik from A to Z

A	Air & Water Disinfection (UV-C) Amplifiers
B	ANSI Lumen Rating Bilirubin Phototherapy (W/cm ²)
C	Blue Irradiance (mW/cm ²) Calibration Service Calibration Standards (sources/detectors) CIE Erythema (Eff W/cm ²) Color Chromaticity Coordinates (x,y & u,v) Color Temperature (K)
D	Colorimeters (x,y, color temperature) Data Loggers (pulse form analysis) Dosimeters
E	Diffuse Reflectors Erythema (Eff W/cm ² , J/cm ²)
F	Elliptical Diffuse Reflectors Fiber Power Measurement
G	Flash Meter (pulse & average energy)
H	Germicidal Irradiance
I	High Speed Color Measurement Global Solar Radiometer Illuminance (lx, fc) Integrating Spheres (standard/custom design) Irradiance (W/cm ² , J/cm ²) Irradiance UV-A, UV-B, UV-C
L	Irradiance Eprom Erasure Laser Classification EN 60 825 Laser Diode Power (W, J, dBm) Laser Power (W, J, dBm) Laser Power Noise Laser Pulse Shape LED Measurement Lightmeters (lx, cd/m ² , fc) Liquid Penetrant Testing (PT) Luminance (cd/m ²) Luminance Standard Luminous Energy (lm-sec) Luminous Exposure (lm-sec) Luminous Flux (lm) Luminous Intensity (cd) Luxmeters (lx)
M	Modular Detectors Monochromatic Radiation (250 to 1800 nm) Multi-Channel Optometers
N	Multimeters Narrowband UV-B311 Near Infrared Irradiance
O	Nondestructive Testing (NDT) OPDI.MA
P	Optical Power Meters (dBm, dB, W) Optometers Photosynthetically Active Radiation (PAR) Peak Hold Measurement Photobiology (W/cm ² , J/cm ²) Photodynamic Therapy Photometers Photometry Photopic Detectors Photoresist (W/cm ² , J/cm ²) Photostability (lx & W/m ²) Phototherapy (W/cm ² , J/cm ²) Plant Physiology (PAR) Polychromatic Radiation
R	Process Control Radiance (W/cm ² /sr) Radiant Energy (J/cm ² /sr) Radiant Exposure (Ws/cm ² /sr) Radiant Intensity (W/sr) Radiant Power (W, J) Radiometers Red Irradiance (W/cm ² , J/cm ²) Reflectance Standard Retinal Thermal Hazard (W/cm ² /sr)
S	Scotopic Detectors Side-View Light Guide Detectors Solar Blind Detectors Spectral Radiance Standard Spot Curing Meters
T	Spot Luminance Meters (cd/m ²) Telecommunication Testing (dBm, W) Transient Recorder Optometer Transmittance
U	Tristimulus Detectors (Luminous Color) UV-A, UV-B, UV-C (W/cm ² , J/cm ²) UV Curing (W/cm ² , J/cm ²) UV Disinfection (W/cm ² , J/cm ²) UV Hazard (Eff W/cm ² , Eff J/cm ²) UV Processing (W/cm ² , J/cm ²)
V	UV Processing (W/cm ² , J/cm ²)
W	Visible Irradiance (W/cm ² , J/cm ²) Waterproof Detectors