

Description

The CO₂ - Camera ML7400 is a new beam profiling camera consisting of our high resolution camera ML3743 and a IR converter.

It is suitable for monitoring high-power CW and pulsed lasers in the spectral range 8 μm – 30 μm in industry, science, research and development.

This system can be used up to intensities of 1 kW/cm² without additional attenuation units.

Due to its highest resolution and its in comparable real-time capability the CO₂ - Camera ML7400 enables online adjustment of laser systems.

Evaluations in compliance to ISO is done with our beamlux II advanced software.

- **Online measurement of CW and pulsed CO₂ Lasers**
- **High resolution**
- **Single pulse detection**
- **Customized modifications on request**

Specifications:

Image Converter

Spectral range:	8 – 30 μm
Clear aperture:	21 mm ²
Sensor dynamic:	50 : 1
Sensor resolution:	100 μm
Intensity range:	20 W/cm ² – 1000 W/cm ^a
Damage threshold:	2000 W/cm ²
Input power (cw):	200 W / 250 W (60 s)
with additional attenuation	> 1000 W
Response time:	67 ms (50%)

Camera System

Pixel #	1392 x 1040
Measuring Rate:	13 fps
Interface:	Firewire
Mechanical dimensions:	267 x 125 x 71 mm ³
Weight:	1.7 kg
Electrical requirements:	230 V; 50 Hz; 300 W
Housing temperature:	max. 50°C



New

CO₂ - Camera