DUMA OPTRONICS LTD.
Innovative optronics Instrumentation

DRAWINGS

VIDEO

The application program is compatible with Windows 7/8/10 OS (32 & 64 bit). For custom integration, an ActiveX package software is offered as standard.

Overview

µBeam High Power: The Analyzer for Microscopic beams

The µBeam HP is a beam diagnostics measurement system for real-time measurement and display of small CW or pulsed lasers in the sub-micron range, fiber optic and laser diode beam profiles. Main features include: measure beam of less than 0.5µm (FWHM), handles CW or pulses, having a long working distance, using a high resolution CCD response range, optical zooming for fast beam finding.

In today's technology, more and more industrial high power lasers are designed to have a microscopic range of a few microns. Measuring these laser beams at the focal point where it matters the most is a daunting task, where the density level exceeds 10 megawatts per mm². The new µBeam HP comes with an air-cooled beam sampler. This enables measurement of minute beams with 1 nm resolution.

Specifications

Parameters	Value
Camera Type	CCD 1/4" format, with 470,000 pixels
Spectral Range	350 - 1310 nm
Magnification	Infinite conjugate objectives: x50, x20, x5 user selectable.
Beam Size & Power level	0.5 µm - 1 mm. Beam < 5 µm: up to 100 Watts. Beam > 5 µm: gradually up to 1.5 kWatts
Beam finding feature	For fast beam finding the system is equipped with a zooming lens for observing large areas
Attenuation	Built in ND filters & High Power air-cooled Beam Sampler
Configuration	Tube type zooming microscope equipped with M6 mounting thread adaptor
Dimensions	265.3 mm (L) x 83 mm diameter
Weight	2.7 Kg
Maximum frame rate	25 Hz (CW lasers)
PC interface	USB2.0 interface, windows XP/7 (32 & 64 bit)

Inquiry Form