

## Low Power Laser Head LH50



MA offers a small sized laser head with integrated, digital infrared pyrometer. The pyrometer is projected into the laser beam by a beam splitter. The pyrometer signal is digitalised inside the laser head with a resolution of 20 bits every 0.1ms. The digital data are sent to the LASCON controller by the data cable. This set up guarantees highest protection against emi and gives extreme dynamic to the pyrometer. The laser head is capable for laser power up to 50W. And we use metal armored glass fibers as fiber delivery system. The connection of the laser fiber to the laser head is supervised by an integrated interlock. As option a gas nozzle can be attached to the optics.

### Technical data:

Optical Power:	for fiber coupled lasers up to 50 W, other power on req.
Wavelength:	808nm - 980nm
Optics:	AR coated 1.0"-optis, focal length on customers request
Pyrometer:	150°C – 650°C , single colour pyrometer
Acquisition Time:	100µs
Signal Out:	digital for MA pc card PCI-1P
Software:	LASCON®, unique measurement and controller software
Usable fiber connector:	FSMA905
Fiber diameters:	typical 400µm-800µm
Num. Aperture:	0.22, others on request
Laser Spot:	with working distance 80mm approx. 2x fiber diameter
Dimension of laser head:	40 x 40 x 80 mm
Protection:	IP50
Weight:	0.25 kg
Optional:	Pilot laser, Laser Class 3R, Wavelength 635nm Power 0-5mW adjustable by the LASCON® Laser Controller.

