



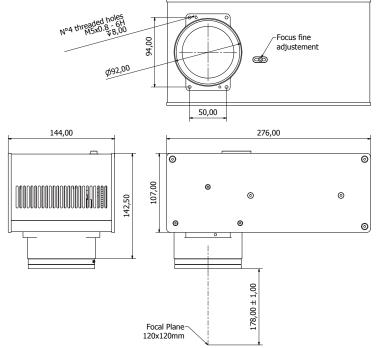
Advanced laser marking systems designed for integration



MP2/MP3 · DPSS MARKING LASER all in one A new tool for your imagination

SYSTEM HIGHLIGHTS

- High peak power
- Large marking area
- Long lasting diode lifetime
- Extremely compact design: 4.5 kg
- Maintenance free
- The best "entry level" solution on the market
- Low price, high performance, no consumable
- Laser marker easy to plug, no warm-up



BEAM SPECIFICATIONS

	MP2	MP3	
Output power	2 W	3 W	
Mode of operation	High frequency pulsed		
Typical pulse width	3 ns		
Repetion rate	30 kHz	45 kHz	
Operating voltage 24VDC	4,2 A	4,2 A	
Pulse energy	67 µJ	67 µJ	
Instantaneous power	22 kW	22 kW	
Beam quality	$M_2 < 2$	M2<5	
Main wavelength	1064 nm (Infrared)		
Aiming beam wavelength	640 nm (Red)		



OUR MISSION

Promote and provide laser solutions for data marking and industrial demanding applications by offering high value systems, products and services.

- DSP (Digital Signals Processing) card integrated
- USB and Ethernet connections available
- Extended variety of libreries & customized industrial software on demand

MARKING CAPABILITIES

	m	im	m	im	m	m
Nominal focal lenght	10	00	16	50	25	54
Objective diameter	M85	M39	M85	M39	M85	M39
Marking area	60x60	50x50	120x120	100x100	175x175	160x160

ENVIRONMENT SPECIFICATIONS

Working temperature	15–35 °C
Thermoelectric cooling system	Forced Air Loop / Integrated
Relative humidity	Max Rh 85% non Condensing

MATERIALS TO BE PROCESSED

- Plastics
- Anodized aluminium
- Stainless steel / Titanium
- Hard Metals for Tools (Widia / Cr Mo)
- · Gold and other precious materials
- Brass and copper

CLASS 4 Laser Product (EN 60825-1)







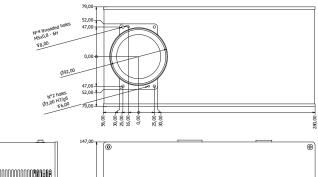
MP10 • DPSS MARKING LASER all in one A new tool for integration

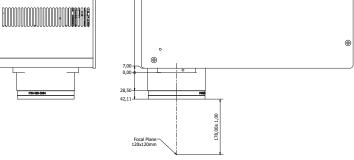
SYSTEM HIGHLIGHTS

- High power diode pumped YVO laser
- Adjustable repetition rate
- Two blocks, the laser head and the control box for flexible integration
- All on board, DSP digital signal processor, marking software
- USB and Ethernet connectivity
- Air cooled
- Long lasting laser diode lifetime based on single emitter diode technology
- Excellent dynamic response in grey tones for bit map files in ID plastic card



	MPIOS
Output power	8.6 W (@80kHz)
Mode of operation	Active Q-switched
Typical pulse width	12 ns (@20kHz)
Repetion rate	10 up to 100 kHz
Operating voltage 24VDC	8.5 A
Pulse energy	400 µJ (@10kHz)
Instantaneous power	40 kW (@10kHz)
Beam quality	M ₂ <2
Main wavelength	1064 nm (Infrared)
Aiming beam wavelength	635 nm (Red)





Dimensions are referred to F.L. 160 mm, objective diameter 85 mm. Other differents Focal Lenght objective are available upon request.

MARKING ACCESSORIES



GULLWING · BELLBOX · ROTATING DEVICE · EXHAUST/FILTER ·

- Protective housing, class 1 laser safety, suitable for the integration of all MP family lasers: from 2 up to 20 W
- Two standard sizes: Gullwing, the "entry level" and BelBox the "professional one"
- Complete choice of accessories to improve the productivity and make easier your laser operations
- Filter for exhaust marking fumes

by optical fiber

CODING

on the fly

SOLDERING



MP-DD-30/60 ·

- · Direct diode soldering solutions
- Single direct laser emitting diode
- · Compact dimension for an easy integration
- Fiber core from 100µm
- · 30W and 60W nominal CW output power
- · Available also 100W
- Several optics peripherals to match and make easier the process



MP-DOTS ·

- High speed dot marking laser "on the fly" (reaching up to 180 m/min)
- Cutting edge technology based on multihead single direct laser emitting diode
- Respect for the environment, no waste, no ink, no smoke and no consumable
- 400W max power
- Typical 100 micron spot diameter
- Typical 7x5 dots matrix character
- Multi rows possibilities



The Company

M-Pix is an Italian company that produce innovative solutions and products for industrial marking for the personalization of cards and passports in the ID sector, and for the marking of IVD Medical instruments.

M-Pix develops, designs and manufactures laser sources, thanks to the expertise and experience of a team of talented engineers.

We have extensive capability in laser application and integration thanks to many years of experience in the international laser market, working closely with first-class laser component suppliers and leading integration companies

M-Pix S.r.l.

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