

50W YAG Laser Marker



ML-7064A
50W is the top-level power in the industry!

50W, the top-level power in the industry, enables various kinds of processing at high speed!

Deep engraving, black marking, white marking, trimming, ablation, cutting, and scribing can be performed.

Features

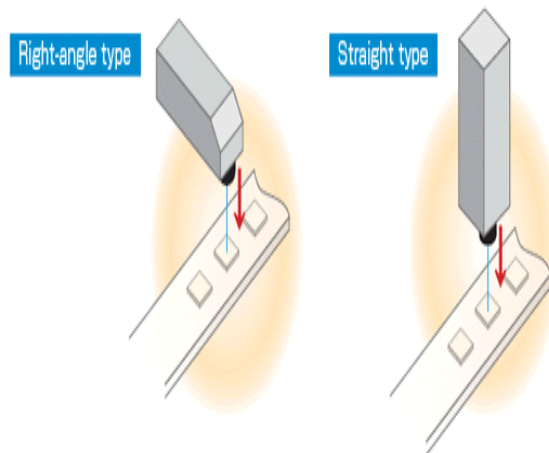
- Continuous guide light emission.
 - Two oscillators to chose from.
-

Continuous guide light emission



Two oscillators to chose from

Right-angle type and straight type.



- Low power consumption. No cooling water necessary.
- Maintenance free. (No lamp replacing)
- Network connectable. CAD operation is possible.

- f lens list

fθ lens	F75	F100	F150	F160	F254	F270	F420
Scanning method	Galvanometer scanner						
Marking area (mm)	Φ39	Φ80	Φ120	□100	□150	Φ216	□294
Working distance (mm)	93	110	170	175	299	313	494
Position resolution (μm) *1	1	2	2	2	3	4	6
Marking speed (mm/s) *2	0.01 to 5,000	0.01 to 7,000	0.01 to 10,000	0.01 to 11,000	0.01 to 17,000	0.01 to 18,000	0.01 to 28,000

*1: Computed value. Not the actual position accuracy.

*2: Computed value. Confirm the appropriate speed for marking during actual marking operations.

▪ Specifications

Model	ML-7111A
Laser type	YVO ₄ Laser
Oscillation wavelength	1,064nm
Oscillation mode	Shingle mode $M^2 < 1.5$
Maximum output	10W (CW mode)
Oscillation type	Q Switch pulse oscillation and continuous-wave oscillation
Pulse frequency	0.1k to 199.9kHz
Guide beam	Red LD laser, Oscillation wavelength 660 nm, Class 3R
External communication terminals	USB1.1 (full speed), RS-232C (Optional), and compact flash card
Cable length bet. Head and control unit	3m, 5m, 8m, 10m (Purchase choice)
Cooling method	Fully air cooled
Power supply	Single-phase: 100-240 V AC -10%/+6%, Auto switching: 50/60 Hz
Power consumption	550W or less
Marking software (PC) *1	LMDraw6 (Windows 7 Professional 32/64 bit Japanese/English version(SP1), or Windows 8.1 32/64 bit Japanese/English version)
Font	TrueType font, DIN30640, JIS Z 8905, JIS Z 8904, JIS Z 8903, OCR-A, OCR-B, Round hand
Marking characters	Alphabet, Number, Katakana, Hiragana, Chinese character (JIS Z 8903), Symbol
Supported file formats	DXF (AutoCAD LT 2004), BMP, JPEG, GIF, TIFF
Code types *2	Code39, Code128, ITF, Data matrix, QR code, Micro QR code
Ambient temperature	5 to 35 °C (non-condensing and non-freezing)
Ambient humidity	40 to 80% RH (non-condensing and non-freezing)
Mass	<Control Unit>: approx. 24kg <Head Unit>: approx. 13kg <Operating Unit (Not included)> 2.8kg

*1 Windows is a registered trademark and a product of Microsoft, Inc.

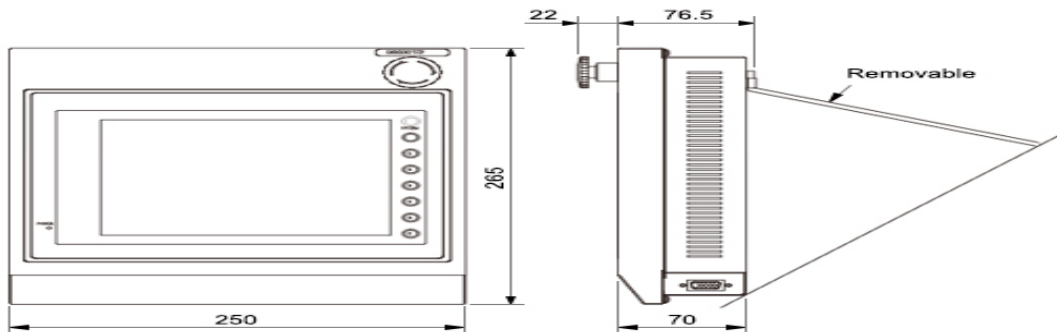
*2 Data Matrix is a registered trademark and a product of International Data Matrix, Inc. QR code is a registered trademark and a product of Denso Wave Co., Ltd.

* Specifications are subject to change without notice.

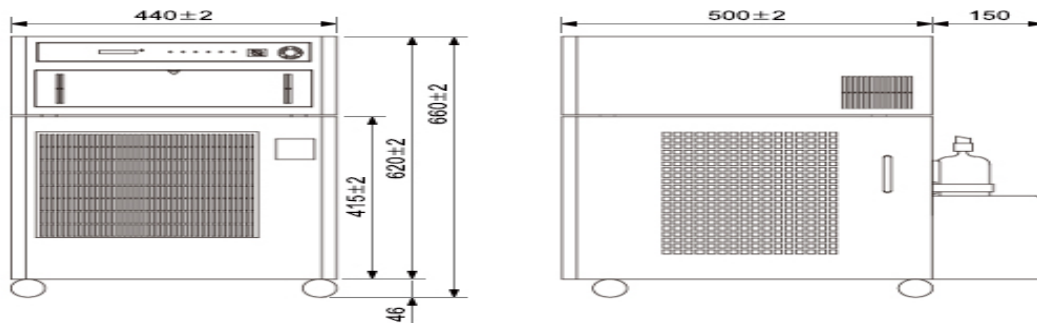
EXTERNAL VIEW

- Dimensions in mm

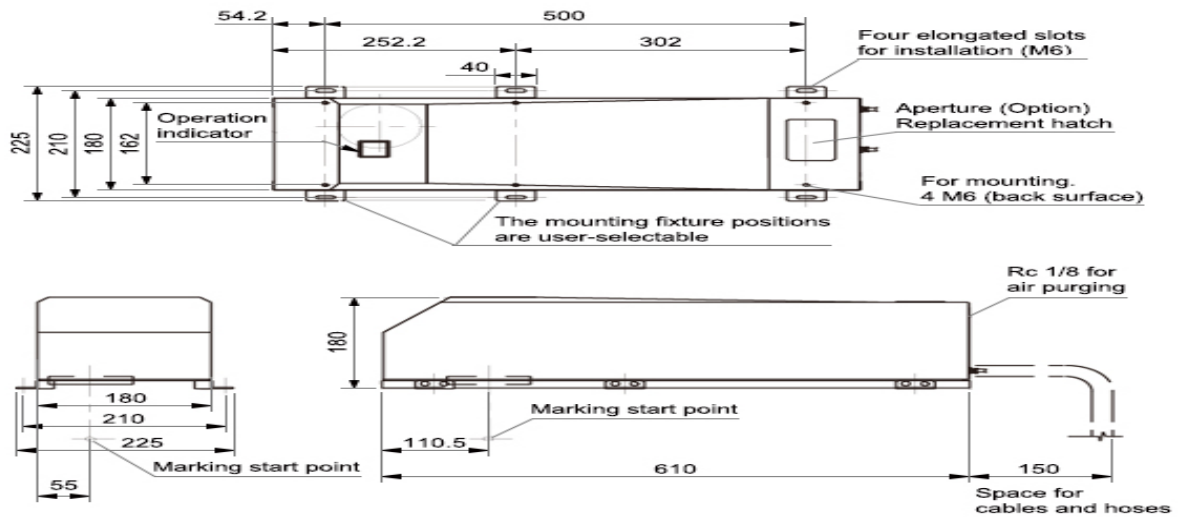
■ ML-7064A
Operation unit (option) <Mass: 2.8kg>



Control and Chiller Units <Mass: 72kg>



■ ML-7064A
Oscillator <Mass: 26kg>
Right-Angled Head Type



SAMPLE



Bit map marking



Deep engraving on a stainless steel rod