

LARGE SELECTION LASER MARKER

FAYb LASER MARKER



LP-M/MA SERIES



LP-Z SERIES



LP-S/SW SERIES

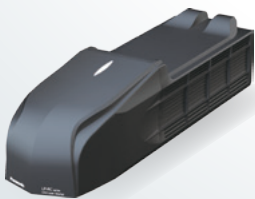


LP-RF SERIES



LP-V SERIES

CO₂ LASER MARKER



LP-RC SERIES



LP-400 SERIES

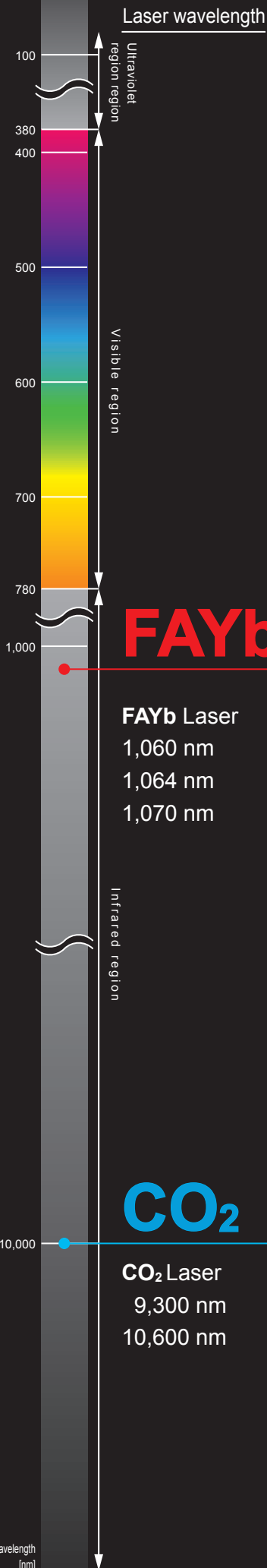


LP-GS SERIES



LP-300 SERIES

FAYb LASER MARKER



High-power Output and 3D-control Laser Marker

LP-M/MA SERIES



16w	40w	80w	IP64	3D
↖ ↗ ↙ ↘	↖ ↗ ↙ ↘	↖ ↗ ↙ ↘	SAFER	
120	220	330		

This high-end model features a head with an IP64 rating and is capable of 3D marking.
The laser interception mechanism and interlock are redundantly equipped.
This model realizes high productivity and safety.
*The LP-MA series is introduced to only limited countries.

3D-control FAYb Laser Marker

LP-Z SERIES



13w	25w		3D
↖ ↗ ↙ ↘	↖ ↗ ↙ ↘		
120	330		

This all-round laser marker features 3D marking capability and wide 300 x 300 mm (11.811 x 11.811 in) marking area.

High-power Output FAYb Laser Marker

LP-S/SW SERIES



17w	42w	IP67G	Removable
↖ ↗ ↙ ↘	↖ ↗ ↙ ↘		
90	160		

The head features an IP67G rating.
This model can be used for a marking operation under a harsh condition such as an environment containing oil mist.
The head is removable.

FAYb Laser Marker

LP-RF SERIES



17w	↖ ↗ ↙ ↘	IP64	Removable

Reliable hard design such as high noise resistance controller and IP64 rating head. Simple and easy operation.

High-definition Laser Marker

LP-V SERIES



12w	
↖ ↗ ↙ ↘	
90	160

This short pulse laser marker is suitable for high contrast marking on resin surfaces.

CO₂ LASER MARKER

High-performance Laser Marker

LP-400 SERIES



10w	20w	30w	9.3 μm
↖ ↗ ↙ ↘	↖ ↗ ↙ ↘	↖ ↗ ↙ ↘	
55	110	160	

Performance, functionality, quality, operability. The high-grade LP-400 CO₂ laser marker delivers, meeting needs ranging from marking to processing.

Compact CO₂ Laser Marker

LP-GS SERIES

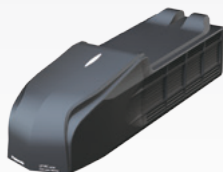


5w	Small
----	-------

Minimized head size contributes to floor space cost reduction.
Corresponding to the small size characters and 2D code.

High-speed Marking Type CO₂ Laser Marker

LP-RC SERIES



35w	↖ ↗ ↙ ↘	IP54

Shorter marking times with speeds 1.4 times faster than before.
Corresponding to the high-speed line.

Entry-Level Model CO₂ Laser Marker

LP-300 SERIES

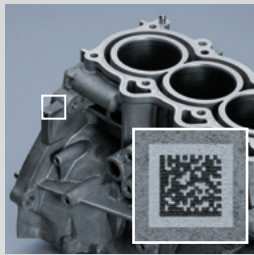


10w	↖ ↗ ↙ ↘

Entry-level model for laser marking
Cost-effective laser marker

Laser Marking Applications

FAYb Laser Marker



Engine block



Engine part



Cam shaft



Cast



Medical instruments



Battery housing



Laser diode



Bearing



Sensor



IC



Molded resin part



Molded resin part

CO₂ Laser Marker



PET bottle



Outer box(GS1datamatrix)



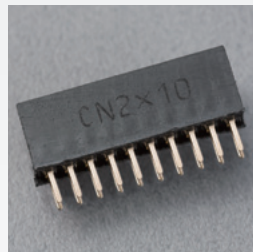
Coaster



Laser label (marking + half-cut)



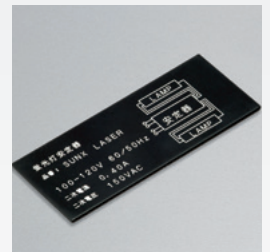
Ceramic capacitors



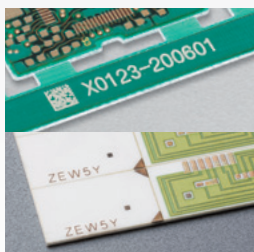
Connector



CD+DVD



Nameplate



Printed circuit boards



Silicone tubing



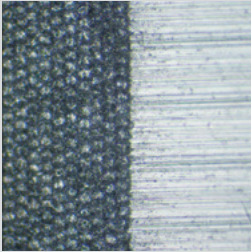
Retortable pouches



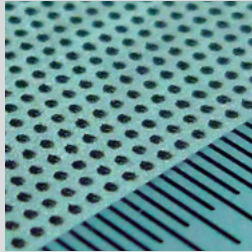
lens

Laser Processing Applications

FAYb Laser Marker



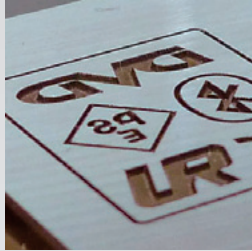
Processing of bearing surface



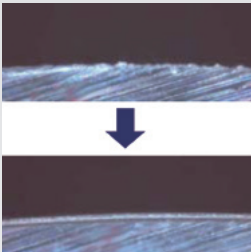
Depression processing on metal



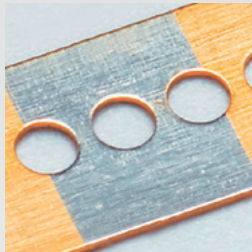
Removal of coating film from gasket



Engraving on die

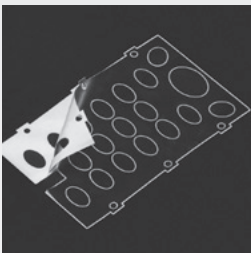


Deburring of metal parts



Removal of gold plating from electronic parts

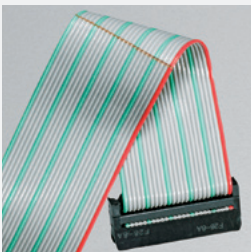
CO₂ Laser Marker



Film cutting



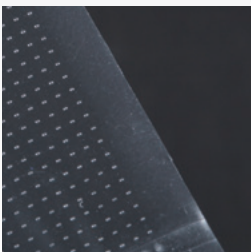
Resin gate cut



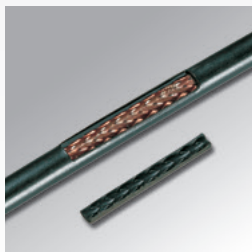
Removal of ribbon cable insulation



Rubber gaskets cutting

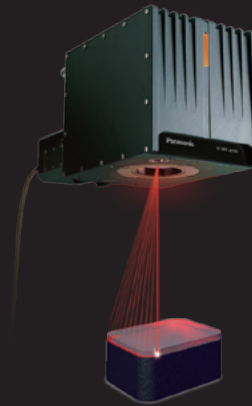


Film drilling



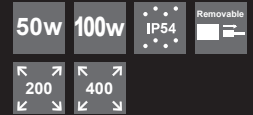
Insulation removal

Laser Plastic Welding



Galvano Scanning System
Scanning Laser Processing Machine

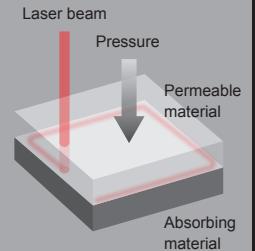
VL-W1 SERIES



* The VL-W1 series is introduced to only limited countries.

What is laser Welding?

Laser welding is a bonding method that uses a laser beam to generate heat between adherends. For laser welding, a transparent resin (permeable material) and light absorbing resin (absorbing material) must be combined. Generally, to achieve a secure bond, pressure between the materials is required when lasing.



Plastic Welding Applications



Safety light curtain: Case and front panel



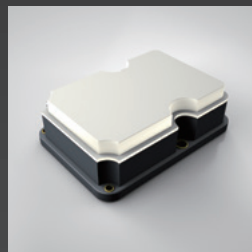
Sensor: Case and Window for communication signals



Automotive sensor: Welding case



Microfluidic device: Welding flow path



ECU: Welding cover



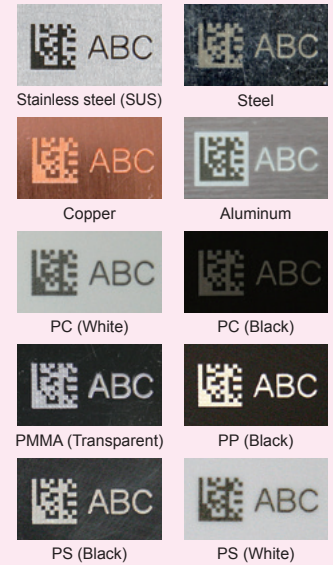
Display: Welding water proof panel

Material compatibility chart

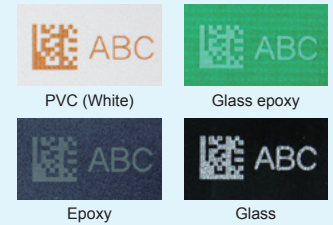
●=Good ○=Usable △=Incompatible ×=Non-usable

Material		FAYb laser marker		CO ₂ laser marker	
		LP-M series LP-S series LP-RF series	LP-Z series LP-V series	LP-RC series LP-400 series	LP-GS series LP-300 series
Metal	Iron	●	●	×	×
	Carbon steel	●	●	×	×
	Alloy steel	●	●	×	×
	Copper, brass	●	●	×	×
	Aluminum alloys	●	●	×	×
	Magnesium alloys	●	●	×	×
	Titanium alloys	●	●	×	×
	Nickel alloys	●	●	×	×
	Gold, silver	○	○	×	×
Resin	ABS (Acrylonitrile butadiene styrene)	●	●	●	●
	EP (Epoxy)	●	●	●	●
	PA (Polyamide / nylon)	●	●	○	○
	PBT (Polybutylene terephthalate)	●	●	○	○
	PC (Polycarbonate)	●	●	○	○
	PE (Polyethylene)	○	○	○	○
	PET (Polyethylene terephthalate)	○	○	●	●
	PF (Phenol)	●	●	●	●
	PMMA (Acrylic)	●	●	○	○
	POM (Polyacetal)	●	●	○	○
	PP (Polypropylene)	●	●	○	○
	PS (Polystyrene)	●	●	○	○
	PU (Polyurethane)	●	●	○	○
	PVC (Polyvinyl chloride)	○	○	●	●
	UF (Urea)	●	●	●	●
Others	Silicone resin	○	○	○	○
	Ceramics	○	○	○	○
	Wood	△	△	●	●
	Paper	△	△	●	●
	Glass	×	×	●	●
	Rubber	●	●	●	●

FAYb laser marker



CO₂ laser marker



* The above shows typical judgment results. Judgment results may differ when used on customers' workpieces.

* We can check marking results using actual workpieces provided by your company. For details, please contact our sales office nearest you.

Laser marker installation process flow



Precautions for Proper Use

Laser safety

- This product is classified as a Class 4 Laser Product in IEC/JIS/FDA regulations 21 CFR 1040.10 and 1040.11. Never look at or touch the direct laser beam and its reflection.
- Handle the product according to the instruction given on the warning labels. (Warning labels are not shown in the product photographs in this catalog.)
- The laser used by this product generates infrared light that is invisible to the human eye. Use particular caution when the laser is operating.

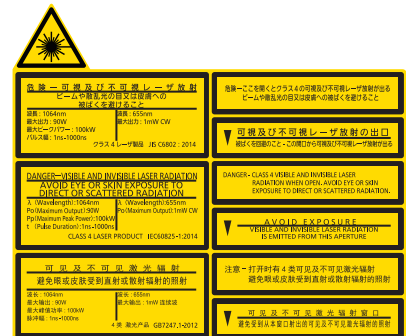
Maintenance

- **Air filter:** Regularly clean the air filter attached to the Laser Marker to maintain cooling effects.
- **Laser pointer emission port:** Dust or chips adhering to the laser pointer emission port may affect the printing quality or seriously damage the laser marker. Clean the laser pointer emission port regularly.

Recommended use of a dust collector

- Depending on the object being marked, harmful gasses or smoke that have a detrimental effect on the human body or the laser marker may be generating during marking. If your application falls under this description, use a dust collector.

*For more information, contact your sales representative.



Disclaimer

The applications described in the catalog are all intended for examples only. The purchase of our products described in the catalog shall not be regarded as granting of a license to use our products in the described applications. We do NOT warrant that we have obtained some intellectual properties, such as patent rights, with respect to such applications, or that the described applications may not infringe any intellectual property rights, such as patent rights, of a third party.

Please contact

Panasonic Corporation

Industrial Device Business Division

■ 1006, Oaza Kadoma, Kadoma-shi, Osaka 571-8506, Japan
industrial.panasonic.com/ac/e/

Panasonic®

©Panasonic Corporation 2019

Specifications are subject to change without notice.