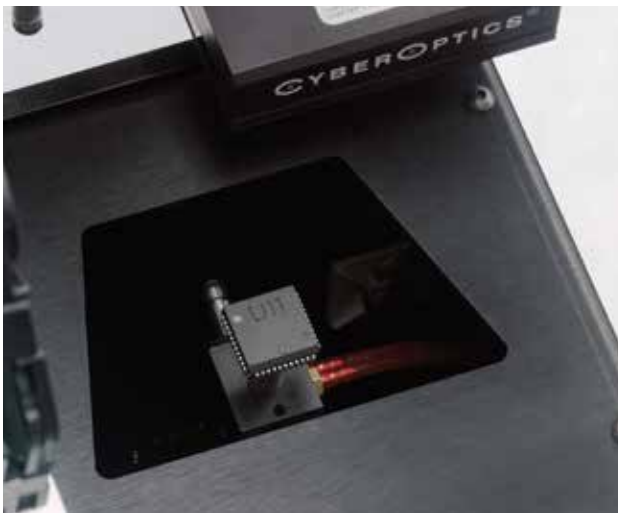


3000-Series Fiber Laser



Precise Marking Quality

As programmable component volume accelerates and quality processes demand traceability, the industry needs a laser marking solution that is easy to use and delivers quality results, every time. Shrinking package sizes and range of materials require a safe, reliable system that produces human and machine-readable marks. The 3000 Series Laser is an economical alternative to labeling systems that require costly supplies (labels and ink) and production pauses to replenish labels. Plus, laser marking is a permanent marking solution, ideal for lifetime traceability.



Fiber Laser Delivers Precise Marking Quality

- High-contrast marking of dynamic alphanumeric text and logos
- Font sizes as small as 0.3 mm, height and width
- Mark machine-readable QR codes and barcodes
- Combine Advanced Serialization and Cybersecurity for traceability and protection
- Lase plastic, metal and custom semiconductor materials
- Ablation of standard factory marks
- Superior 2-Stage Dust-Collection, compared to other laser systems
- Extensive “Library” of common Dynamic Text Specifiers for Date Codes, Lot Codes and Serial Numbers
- Dual nozzle laser shuttle for efficient operation and high throughput



Example Laser-marked device including alphanumeric, QR Code and Logo

Laser Interface in BPWin Software

The fiber laser marker can print up to three lines of 15 characters each on programmed devices and operates as an integrated part of the 3000-series automated system.

The Laser Presenter Settings property page contains all the laser marking information, including laser settings, text settings and erase/ablate settings. The Laser Presenter Settings property page can be accessed via the **Autohandler->Laser Presenter->Settings** menu option, right clicking on the laser presenter station in the APS view then selecting the **Settings** context menu option, or right clicking on the laser presenter media in the **Workflow Configuration** dialog then selecting the **Settings** context menu option.

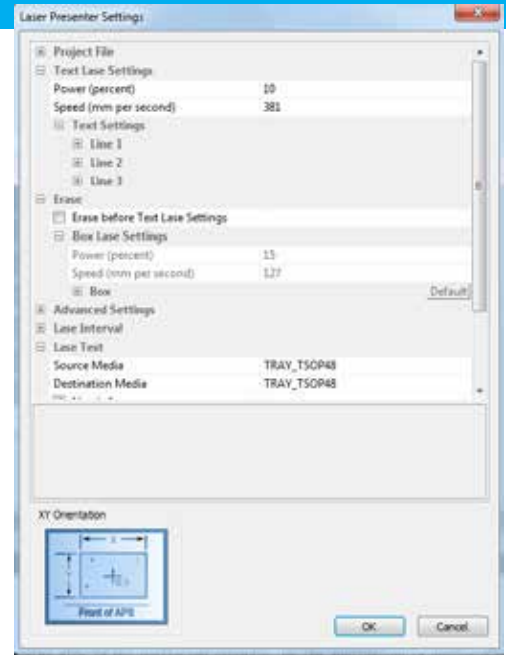
Text Laser Settings

- **Power** - Enter the percentage of full power of the laser. Generally, a value of 10 is used for plastic packages and 70 for ceramic packages.
- **Speed** - Enter a value to set the speed of the laser as it marks a device. Normally set at 4.
- **Text** - Enter the text. The laser can mark up to three lines of characters with a maximum of 15 characters per line. The three lines are completely independent of each other so you could have lines running at different angles with different sized characters. If applicable, click on the arrow button to add a date/time format specifier to the text line.

Project File

A Prolase project file (.LAZ file) can be used for laser marking devices. The user can first create or modify a Prolase project

using the Prolase software, save the project file, and then select the project file from BPWin's Laser Presenter Settings property page after which it will be used for laser marking. This allows for the easy use of all of Prolase's features in constructing laser marking templates consisting of graphics, text, or a combination of the two as well as make the positioning of the laser mark itself much easier and faster. Graphics can be created via Prolase's graphic tools or can be imported from a vector image file. Supported vector image types are the Enhanced metafile (.EMF), the HP graphics language plot file (.PLT), or the Windows metafile (.WMF). Raster images are not supported. You can convert a raster image to a vector image by using an image conversion software tool. Inkscape is a free third-party conversion software tool available for download. The Project File settings (i.e. Checkbox setting and project file path) will be saved to the autohandler workflow (*.ABP) file.



PRODUCT SPECIFICATIONS

Marking Laser:	Fiber, Class 4 Laser
Wavelength:	1064 nm
Output:	30 W
Pulse Duration:	200 ns
Software	BPWin with ProLase
Speed:	User defined; up to 7 m/s
Barcode:	Industry standard barcodes
2D Codes:	QR code, micro QR code, DataMatrix

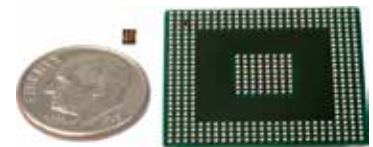
Graphic Image:	Vector formats (.EMF, .PLT, .WMF). bitmaps
Character Size:	(Height/width) 0.3 to 34 mm
Cooling Method:	Air cooling
Voltage/Power Consumption:	100 to 120 VAC/200 to 240 VAC ±10%, 50/60 Hz, 650 VA max
Ambient Temperature - Usage:	0°C to 40°C 32°F to 104°F
Ambient temperature - Storage:	10°C to 60°C 14°F to 140°F
Humidity:	30% to 85% (no condensation)



bpmmicro.com/device-programmers/automated-programmers/aps-peripherals/

Toll Free: 800-255-2102

Laser marking devices ranging from the smallest CSP to the largest QFP

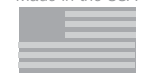


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