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BluGlass launches six laser products at Photonics West

Highlights

- BluGlass has launched a suite of laser products at leading industry conference, SPIE Photonics West
- Customers can now purchase BluGlass' lasers in the following specifications:
 - 405nm, 420nm, and 450nm wavelengths in both single-mode and multi-mode devices
- Further wavelengths and products in the development pipeline

Global semiconductor developer BluGlass Limited (**ASX: BLG**) has launched its first suite of gallium nitride (GaN) laser products for customer purchase at leading industry conference, SPIE Photonics West, in San Francisco, USA.

BluGlass' lasers are available across 405nm, 420nm, and 450nm wavelengths in both single-mode and multi-mode devices. Customers can inspect performance data and purchase these products in a range of form factors including TO Cans of different sizes and Chip-on-Submounts.

BluGlass' suite of available products have passed entry-level commercial specifications following significant product development, optimisation, and performance and reliability testing.

The following products are now available for customer purchase:

- Violet 405nm multi-mode 1W laser
- Violet 405nm single-mode 250mW laser
- Violet 420nm multi-mode 1W laser
- Violet 420nm single-mode 250mW laser
- Blue 450nm multi-mode 1W laser
- Blue 450nm single-mode 100mW laser

The Company has received interest from customers wanting to deploy BluGlass lasers in their product development programs, which span a multitude of applications including; 3D printing, quantum sensing and computing, material sensing, and flow cytometry.

Commenting on the product launches, BluGlass President Jim Haden said, "We are delighted to launch our first suite of products at Photonics West. The release of these laser diodes reflects the significant performance and reliability improvements we have made over the past year. The market is telling us there is a growing need for a dedicated GaN laser supplier who can provide greater manufacturing agility and form factor flexibility, to enable manufacturers to expand their product offerings and market applications. We have several potential customers interested in our portfolio, and this significant milestone paves the way for first orders and commercial revenues.

"Our product offering will continue to grow and improve - with expanded wavelengths, higher-power, and novel laser architectures also progressing through the supply chain. We expect the execution of our ongoing vertical integration plans to further improve quality and accelerate development timelines for future products and enable us to scale manufacturing capacity to meet demand.

“The visible laser market is a high-value and high-margin semiconductor segment that is growing rapidly, with ubiquitous use in everything from consumer electronics, advanced manufacturing to medical diagnostics, quantum computing, and defense applications. Within the broader market, GaN lasers offer inherent advantages over traditional infrared laser diodes, including higher energy absorption in key industrial metals, tighter beam focus, and improved efficiency. These competitive advantages are driving significant interest from global customers.”

BluGlass GaN Laser Diode Product Suite

		Available for Purchase	In Development			Next Generation
Violet	405nm	MM – 1W	MM – 3W			SM – 500mW
		SM – 250mW	SM – 300mW-400mW			
	420nm	MM – 1W	MM – 3W			SM – 500mW
		SM – 250mW	SM – 300mW-400mW			
Blue	450nm	MM – 1W	MM – 1.6W	MM – 2.2W	MM – 3.5W	MM – 5W
		SM – 100mW	SM – 250mW			
	470nm		MM – 2W			MM – 1.5-2W
			SM – 100-250mW			
Green	488nm					
			SM – 100-200mW			
	525nm		MM – 0.5-2W			
			SM – 80-100mW			
			MM: Multi Mode			SM: Single Mode

MM: Multi Mode SM: Single Mode

In addition to the launched products, laser diode designs in other wavelengths and specifications are progressing through BluGlass’ supply chain, including RPCVD-enhanced products.

This announcement has been approved for release by the BluGlass Board.

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About BluGlass

BluGlass Limited (ASX:BLG) is a leading supplier of GaN laser diode products to the global photonics industry, focused on the industrial, defence, bio-medical, and scientific markets.

Listed on the ASX, BluGlass is one of just a handful of end-to-end GaN laser manufacturers globally. Its operations in Sydney, Nashua and Silicon Valley offer cutting-edge laser diode development and manufacturing, from small-batch custom lasers to medium and high-volume off-the-shelf products.

Its proprietary low temperature, low hydrogen, remote plasma chemical vapour deposition (RPCVD) manufacturing technology and novel device architectures are internationally recognised, and provide the potential to create brighter, better performing lasers to power the devices of tomorrow.

BluGlass’ technical innovations are protected by 93 internationally granted patents and 17 trademarks in key semiconductor manufacturing jurisdictions.