



APPLIED RESOLUTION TECHNOLOGIES

Laser application technologies : Mining, Oil & Gas, Agriculture, Industrial

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SLX-515S :

FIRST DIRECT GREEN LASER DIODE, INTRINSICALLY SAFE, IECEx CERTIFIED LASER FOR ANY HAZARDOUS ENVIRONMENT USE.

FOR MANY YEARS YOU HAVE ASKED ABOUT THE POSSIBILITY OF GREEN RATHER THAN RED. 5X MORE VISIBLE, TWICE THE RANGE OF OTHER IS LASERS. SAFE. TOUGH. EFFICIENT.

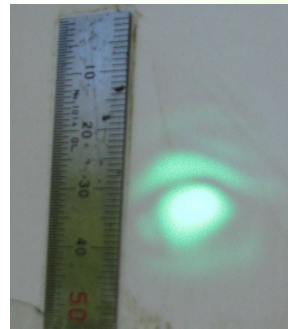


The SLX-515S utilizes the geometric body of the SLX series of lasers, for simple and effective alignment. Because it requires 5 x AA Cells due to the increase laser diode voltage to generate green laser, the fixed body extension caters for 3 extra AA cells above the red sister product.

The SLX-515S is a Class 2 alignment laser system used in hazardous environments such as underground mining or conveyor alignment applications. The laser is robust enough for the toughest environment. The SLX-515S is a sensor enabled green version of the SLX-635S which will work with laser sensing systems.

It's visible green beam is safe to use under all conditions, and the precision alignment of the laser beam axis to the body axis allows simple and precise alignment.

Intrinsically safe by design. Tough. Rugged. Efficient. Safe.



For many years we have been limited to either red Intrinsically Safe lasers, or some inefficient green laser systems that use complex and unstable technologies. With the release of direct green laser diodes, we are able to offer the very first Intrinsically Safe, Long Range laser product that provides a bright green beam that is visible in the air under low ambient light conditions or with dust. Safe for Mining, safe for construction. Internationally Certified to IECEx Standards. 5x more efficient than Diode Pumped Solid State (DPSS) green lasers.

CERTIFICATION

- IECEx SIM 13.0005 Ex ia I/IIB T1
- Certified to IEC 60079.11
- Supported by Quality Management to IEC 80079-34
- Supported by IECEx SIM S0003 Service Facility Certification
- The SLX-515S laser has a 5mm diameter exit beam, which enables up to 1mW laser power for Class 2 under IEC 60825-1. A 1mm diameter beam is available on request.
- Meets the Legislation for use in underground tunnelling and mining.

APPLICATIONS :

- Underground survey and alignment
- Tunnelling, boring
- Safe pointing, marking.
- Tunnel and excavation guidance
- Operating theatre patient alignment
- Coal Conveyor Alignment
- Mining and Industrial Automation

DISTRIBUTOR

Specifications :

- Visible laser 515nm (green) < 1mW in 4mm diameter, Class 2
- Working range < 150mm
- Certified to Standards :
IEC 60079-0
IEC 60079-11
AS/NZS IEC 60825.1
- 320mm long
- Beam aligned to laser body using proprietary means.
- 5 x AA-Cell batteries
- Electronically isolated diode laser component
- Micro laser control circuit with Auto Power Control.
- Reverse battery polarity protection and in-built fusing for intrinsic safety compliance
- Long battery life > 100 hrs
- Simple rotary on/off switch with nylon-tipped set screw lock.
- Protective laser window head.
- Certification information engraved into the laser body for permanent label.

Related :

- BLX-515S sensor-enabled laser
- SLX-515S sensor-enabled 1mW output Class 2 green laser
- SLX-635S sensor-enabled 1mW output red laser

AUTOMATION READY WITH MODULATION