



FEATURES

- * Compact size $\varnothing 14 \times 42\text{mm}$
- * Focussed spot size $< 100\mu\text{m}$
- * Variable focus
- * swiss quality, IP67
- * Polarity reversal protection
- * anodised alu-body

The IDT 1 series of laser diode modules is ideally suited to applications such as bore sighting, alignment, robot control, positioning and edge detection. They include precision optical and mechanical components enclosed in a black anodised aluminium body.

The IDT 1 series incorporates an adjustable lens which can be used to focus the beam to a very small spot size. Power is connected to the module using the positive (white) and negative (brown) cables. The Positive pin is also connected to the modules case.

Specifications:

Available Wavelengths	635, 650, 670, 780, 808, 830, 850 nm
Available Powers	1 - 100 mW
Beam Size at aperture	1 x 2.5mm
Divergence (collimated beam)	$< 1\text{mrad}$
Spot size (focussed beam)	$< 100\mu\text{m}$
Ray Stability	0.01 mrad / °C
Operating voltage	4 - 6VDC
Operating current	30 - 120mA (Depending on laser power)
Operating temp.	-10°C to +40 °C
Storage temp.	-40°C to +80°C
MTTF	$> 35'000$ hours

Options:

Standard Collimation on 20m	S
Variable Focus	V

Specify part numbers as follows: **IDT163505/S**

IDT 1 series, wavelength 635nm, output power $< 5\text{mW}$
Standard collimation

Accessories

Holders
Line and Cross Hair Generators
Power supplies

