

SPD MINI – NIGHT VISION & THERMAL

SPD1200D03

LASER CLASS

CLASS 1

IEC 60825-1

A compact 905 nm module reaching $\geq 1,200$ m building range from a $10.7 \times 16.8 \times 22$ mm body, with 2–15 Hz adaptive output over UART-TTL for weight-sensitive night-vision and thermal integration.

MAX RANGE	ACCURACY	WEIGHT	INTERFACE
0.2– $\geq 1,200$ m	± 0.3 m (≤ 100 m)	On request	UART, TTL 3.3 V

TECHNICAL SPECIFICATIONS

FULL SHEET

Laser wavelength	905 nm
Maximum range	$\geq 1,200$ m (70% refl. building target; visibility ≥ 6 km)
Minimum range	0.2 m (90% refl. whiteboard)
Ranging accuracy	± 0.3 m (≤ 100 m) · $\pm (0.4 + 0.006 \times D)$ m (> 100 m)
Measurement frequency	2–15 Hz adaptive
Interface	UART, TTL 3.3 V
Supply voltage	3.3–5 V
Dimensions	$10.7 \times 16.8 \times 22$ mm
Weight	On request
Laser safety class	On request
Operating temperature	On request
Protection rating	On request

SPD1200D03 — PDF-DERIVED MECHANICAL REFERENCE

SOURCE-DERIVED CUSTOMER REFERENCE — NOT FOR MANUFACTURING



SOURCE TABLE

nominal envelope

10.7 × 16.8 × 22 mm

16.87 mm LOCAL PDF SOURCE DRAWING

4 × M1.4, depth 3 mm

Center-of-mass callouts retained in the supplied PDF page 5

The supplied STEP has no usable solidface geometry. Do not derive a CAD datum, connector orientation, or unlabeled dimension from this reference.

APPLICATION FIT

- THERMAL IMAGING
- NIGHT VISION
- CIVIL UAVS

Standard 8-byte UART frame (0x55 0xAA header, function code, 4 data bytes, checksum); distance returned $\times 10$ for a one-decimal reading. Full integration manual ships with samples.