Data sheet

Spot diameter	Near(250mm): ≈ 1,140×1,175 ㎛ Reference(600mm): ≈ 860×830 ㎛ Far(1,000mm): ≈ 800×775 ㎛
Resolution	40 ㎛
Reference distance	600mm
Max. measurement range	250 ~ 1,000 mm
Linearity	± 0.25% of F.S. (250 ~ 600 mm) ± 0.5% of F.S. (600 ~ 1,000 mm)
Temperature Characteristics	0.08% of F.S./℃
Power supply	Using power from the amplifier unit.
Light source	Red semiconductor laser (wavelength: 660nm, IEC 60825-1:2014)
Light Source_Optical method	Diffuse reflection
Light Source_Laser class	Class 2 (IEC/EN), Class II (FDA (CDRH) CFR Part 1002)
Light Source_Output	≤ 1 mW
Laser Pulse duration	Max. 2ms
Operation indicator	Power indicator: red LED, Laser emission indicator: green LED, NEAR/FAR indicator: green LED
Insulation resistance	Over 20MΩ (at 500VDC megger)
Noise immunity	Square shaped noise by noise simulator (pulse width: 1㎲) ±500V
Dielectric strength	Between the charging part and the case: 1,000 VAC~ 50/60 Hz for 1 minute
Vibration	1.5 mm amplitude at frequency of 10 to 55Hz in each X, Y, Z direction for 2 hours
Shock	300m/s² (approx. 30G) in each X, Y, Z direction for 3 times
Environment_Ambient illumination	Max. Incandescent lamp 10,000 lx
Environment_Ambient temperature	-10 to 50℃, storage: -15 to 60℃
Environment_Ambient humidity	35 to 85 %RH, storage: 35 to 85 %RH (no freezing or condensation)
Protection structure	IP67 (IEC Standards, except connector of extension cable)
Material	Front case: AL, Rear case: PC, Cable: PVC, Sensing part: Glass
Amplifier unit compatibility	BD Series amplifier unit: 1
Weight	≈ 153 g (≈ 332 g)