

Sensors

1.1.3.6

Notes: (a) The BeamTrack features are supported by Centauri, StarBright, StarLife, Nova II and Vega meters, Juno, Juno+, Juno-RS and EA-1 interfaces and StarLab application. Position and Size measurements work only in Power mode (but not in single shot Energy mode).

Notes: (b) For powers up to 30W it is recommended to work with the fan off and then the noise level is ~3 times lower. It is also recommended to measure energy with the fan off.

Notes: (c) Position accuracy for the central 20mm of the aperture as limited by beam position resolution. Position can be tracked with ± 1 mm accuracy over central 32mm of the aperture. Accuracy is reduced by a factor of 3 at minimum power. Position measuring center corresponds to geometrical center within <1 mm. Position center can be software reset to geometric center or other desired position with Centauri, StarBright or StarLab.

Notes: (d) Assumes laser beam with Gaussian (TEM₀₀) distribution. For other modes, size measurement is relative.

Notes: (e) Accuracy spec will be maintained for beams from 6 to 35mm not deviating from center more than 15% of beam diameter.

Notes: (f) Calibrated for $\sim 0.8\mu\text{m}$, $1.064\mu\text{m}$ and $10.6\mu\text{m}$

Notes: (g) Water temperature range 18-30°C, Water temperature rate of change $<1^\circ\text{C}/\text{min}$. Pressure drop across sensor 0.03MPa.

Notes: (h) Position accuracy for the central 10 mm of the aperture as limited by beam position resolution. Position measuring center corresponds to geometrical center within <1 mm. Position center can be software reset to geometric center or other desired position with Centauri, StarBright or StarLab.

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