



Datasheet
Optical Tracking System CamBar B1α
Variant M



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|------------------------------|--|---|
| Measurement volume | Measurement distance between camera and measuring object | 400 mm to 1000 mm |
| | Measurement area at 400 mm distance | 200 mm x 225 mm (W x H) |
| | Measurement area at 1000 mm distance | 680 mm x 550 mm (W x H) |
| Accuracy | 3D Positioning accuracy of a marker field | 0,1 mm * |
| | Max length measurement error between two single points. | 0,8 mm |
| Measurement frequency | Resolution 1032x772 pixel | Up to 40 Hz |
| Dimensions | Dimension CamBar B1α (W/H/D) | 17 cm x 8 cm x 18 cm |
| | Weight CamBar B1α | 1,9 kg |
| | Cable length MiniSplitter/CamBar | 3 m ** |
| Target markers | Marker size | 5 mm *** |
| | Retro reflective markers | ✓ |
| | White, diffusely reflecting Markers | ✓ |
| | Spherical and flat round markers | ✓ **** |
| Transport / Storage | Temperature range | -10°C to +60°C |
| | Humidity | Up to 75% at 30°C, not condensing |
| | Max. acceleration during transport | 75 G for < 5 ms |
| | Air pressure | 70 – 106 kPa***** |
| Operation | Operating temperature | 10°C to 35°C |
| | Humidity | 25 to 70%, not condensing |
| | Air pressure | 70 – 106 kPa |
| | Operating mode | Continuous |
| Power supply | Voltage | 24 V DC (18 – 28 V DC) |
| | Power consumption | 16 W |
| Cleaning | Cleaning agent | Soap suds, some alcohol-based Disinfectants |
| Classification | Protection against electrocution. | Protection class I |
| | IP-Protection | IP40 |
| Lighting | Wavelength | 810 nm |
| Interface | Interface to computer unit | Gigabit Ethernet |

* Standard deviation of the position of the center of balance of a point field of four single points (depending on the reasonable geometrical structure of the point field). View angle on flat targets < 23°.
 ** additional lengths upon request
 *** The minimum diameter of the signalization is depending of the measuring distance. Other marker sizes on request.
 **** Spherical targets are possible in theory. However, the smallest available spherical targets are 5mm in diameter and therefore too big. We recommend flat markers.
 ***** At an altitude of sea level up to approximate 3000 meters.