

# FIXTURLASER

*Express Alignment Through Real Innovation*



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## Fixturlaser NXA Pro

Technical Specifications

# Fixturlaser NXA Pro

## Display Unit Technical Specifications

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Part. No. I-0912

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Housing Material: Brushed Anodized Aluminum frame and high impact ABS plastic over molded with TPE rubber

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Operating Temp: -10 to 50°C ( 14 to 122°F)

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Battery Charging Temp, system off 0 to 50°C ( 32 to 122°F)

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Battery Charging Temp, system on 0 to 40°C ( 32 to 104°F)

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Storage Temp; -20 to 70°C ( -4 to 158°F)

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Long term storage temp: Room temp. 18 to 28°C (64 to 82°F)

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Relative humidity: 10 – 90%

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Weight: 1,2 kg (2,6 lbs) with battery

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Dimensions: 224mm x 158mm x 49mm (8,8 in x 6,2 in x 1,9 in)

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Environmental protection: IP65 (Dust tight and protected against water jets)

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Processor: 1GHz Dual core main processor with ultra-low power core for instant power management

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RAM memory: 256 Mb

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Flash storage memory: 8 Gb (>100 000 measurements)

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Display Colour Reality Display, TFT-LCD backlit, sunlight readable, with wide angle viewing technology

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Display size: 6,5" (165mm) diagonal (133 x 100 mm)

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Display resolution: Full VGA 640x480 pixels

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Colour depth 262 000 colours

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Interface: 6,5" High Impact Polyester laminated touch screen with enhanced transmission and reduced glare

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Gyroscope: 6-Axis MEMS Inertial Motion Sensor with drift compensation and automatic field calibration.

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Connectors: 1 USB 2.0 Master port (IP67) & 1 Power/Charger connector 10-14V DC (IP67)

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Wireless communication Class II Bluetooth transmitter with multi-drop capability

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Power supply High performance, High Temperature rechargeable Li-Ion battery or external power supply

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Operating time 10 hours continuous use (with 50% LCD backlight)

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Battery Charging time (system off, room temperature) 5 h

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Xpress Battery Charging time (system off, room temperature) 1 h charge – 5 hours operating time

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LED indicators Unit state and 2x5 battery state indicators with instant battery check

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# Fixturlaser NXA Pro

## Sensors (M3 and S3) Technical Specifications (pg 1 of 2)

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Part. No. M3 I-0913, S3 I-0914

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Housing Material: Brushed Anodized Aluminum frame and high impact ABS plastic over molded with TPE rubber

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Operating Temp: -10 to 50°C ( 14 to 122°F)

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Battery Charging Temp: 0 to 40°C ( 32 to 104°F)

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Storage Temp; -20 to 70°C ( -4 to 158°F)

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Long term storage temp: Room temp. 18 to 28°C (64 to 82°F)

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Relative humidity: 10 – 90%

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Weight: 192 g (6,8 oz) with battery

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Dimensions: 92mm x 77mm x 33mm (3,6 in x 3,0 in x 1,3 in)

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Environmental protection: IP65 (Dust tight and protected against water jets)

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Laser 650 nm class II diode laser

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Laser line fan angle 6°

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Laser line width (1/e<sup>2</sup>) 1.6 mm

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Laser line divergence (full angle) 0.25 mrad

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Laser power < 1 mW

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Measurement distance Up to 10m

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Detector: 2nd gen. scientific grade CCD

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Detector length: 30mm ( 1,2 in )

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Detector angular subtense: 30mrad/m (3mm/100mm per meter)

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Detector resolution: 1 µm

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Measurement accuracy: 0,2% ± 7 µm

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Signal processing: Digital signal processing with Sidespot rejection, edge detection, ambient light elimination and anti-vibration mode

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Ambient light protection: Optical filtering and digital ambient light signal elimination

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Inclinometer: Dual High Performance MEMS inclinometers

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Inclinometer resolution: 0,01°

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Inclinometer accuracy: ±0,2°

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Gyroscope: 6-Axis MEMS Inertial Motion Sensor with drift compensation and automatic field calibration

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Gyroscope accuracy ±1°

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# Fixturlaser NXA Pro

## Sensors (M3 and S3) Technical Specifications (pg 2 of 2)

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Wireless communication: Class II Bluetooth transmitter

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Communication range: 10 m (33 ft)

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Connectors: 1 USB Mini port (IP67)

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Charging: 5V, 0,5A

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Communication: with separate USB/RS 485 adapter cable

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Power supply: High performance Li Ion battery or external power.

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Operating time: 17 hours continuous use (measuring)

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Battery Charging time (system off, room temperature) 8 h

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LED indicators Unit state, laser transmission and 5 battery status indicators with instant battery check

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