

# FARO® Focus<sup>M</sup> 70 Laser Scanner

Short-range professional grade laser scanner

# FARO®



#### SHORT RANGE SCANNING - UP TO 70M

The Focus<sup>M</sup> 70 can record data up to 70 meters making it ideal for short-range measurements and small area job applications.



#### COMPACT AND PORTABLE

The Focus<sup>M</sup> 70 has the size of only 23.0 x 18.3 x 10.3cm and a weight of just 4.2kg. The device is provided with a waterproof transportation and ergonomic carrying case for true portability.



#### HDR PHOTO OVERLAY

The HDR camera provides a natural color overlay to scan data that was captured within extreme dark and bright environments to provide high quality imagery.



#### BEST VALUE FOR MONEY

The Focus<sup>M</sup> 70 provides customers with an affordable alternative for a professional grade scanning solution.



#### IP RATING - CLASS 54

With the sealed design, the Focus<sup>M</sup> 70 is certified with the industry standard Ingress Protection (IP) Rating and classified in class 54 against environmental influences.



#### TEMPERATURE

With an extended temperature range the Focus<sup>M</sup> 70 can be used in extreme climates.

## LASER SCANNER FOR SHORT-RANGE APPLICATIONS

The FARO Focus<sup>M</sup> 70 Laser Scanner is a powerful high-speed 3D laser scanner specialized for short-range and small area applications.

The ultra-portable device enables fast, straight-forward and accurate measurements of indoor crime scenes, small-scale facades, complex structures, production and supply facilities and manageable accident scenes. Combining the highest-precision scanning technology with authentic mobility and ease-of-use, the new device offers reliability, flexibility, and real-time views of recorded data. The 3D scan data can easily be imported into all commonly used software solutions for architecture and construction, forensics and accident reconstruction or industrial manufacturing.

The FARO Focus<sup>M</sup> 70 Laser Scanner is equipped with recognizable features from FARO's most popular, compact lightweight and intuitive laser scanning product line.

## BENEFITS

- ▶ Work with familiar high-class FARO quality
- ▶ Improved productivity by driving projects simultaneously with same investment in comparison to a FARO mid-range scanner
- ▶ Conveniently manage and/or register scan data in various software packages
- ▶ Best price/performance ratio for short-range construction and public safety forensics applications
- ▶ Easily navigate the scanner controls using the large and luminous touch-screen

## PERFORMANCE SPECIFICATIONS

### Ranging unit

Reflectivity	90% (white)	10% (dark-gray)	2% (black)
Range <sup>1</sup>	0.6-70m	0.6-70m	0.6-50m

Measurement speed (pts/sec): 122,000 / 244,000 / 488,000

Ranging error<sup>2</sup>: ±3mm

### Color unit

Resolution: Up to 165 megapixel color  
 High Dynamic Range (HDR): Exposure Bracketing 2x, 3x, 5x  
 Parallax: Minimized due to co-axial design

### Deflection unit

Field of view (vertical<sup>3</sup>/horizontal): 300° / 360°  
 Step size (vertical/horizontal): 0.009° (40,960 3D-Pixel on 360°) / 0.009° (40,960 3D-Pixel on 360°)  
 Max. vertical scan speed: 97Hz

### Laser (optical transmitter)

Laser class: Laser class 1  
 Wavelength: 1550nm  
 Beam divergence: 0.3mrad (1/e)  
 Beam diameter at exit: 2.12mm (1/e)

### Data handling and control

Data storage: SD, SDHC<sup>TM</sup>, SDXC<sup>TM</sup>; 32GB card  
 Scanner control: Via touchscreen display and WLAN connection. Access by mobile devices with HTML5

### Interface Connection

WLAN: 802.11n (150Mbit/s), as Access Point or client in existing networks

### Integrated Sensors

Dual axis compensator: Performs a leveling of each scan with an accuracy of 19 arcsec valid within ±2°  
 Height sensor: The height relative to a fixed point can be detected and added to a scan via an electronic barometer.  
 Compass<sup>4</sup>: The electric compass provides each scan with orientation.  
 GNSS: Integrated GPS & GLONASS



<sup>1</sup> For a Lambertian scatterer. <sup>2</sup> Ranging error is defined as a systematic measurement error at around 10m and 25m. <sup>3</sup> 2x150°, homogenous point spacing is not guaranteed. <sup>4</sup> Ferromagnetic objects can disturb the earth magnetic field and lead to inaccurate measurements. <sup>5</sup> Low temperature operation: scanner has to be powered on while internal temperature is at or above 15°C, high temperature operation: additional accessory required, further information on request | Subject to change without prior notice.

## GENERAL

Power supply voltage: 19V (external supply)  
 14.4V (internal battery)  
 Power consumption: 15W idle, 25W scanning,  
 80W charging  
 Battery service life: 4.5 hours  
 Operating temperature: 5° - 40°C  
 Extended operating temperature<sup>5</sup>: -20° - 55°C  
 Storage temperature: -10° - 60°C  
 Ingress Protection: IP54  
 Humidity: Non-condensing

Weight incl. battery: 4.2kg  
 Size: 230 x 183 x 103mm  
 Maintenance / calibration: Annual



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