

MANTIS VISION F5 SHORT-RANGE 3D IMAGER

Handheld scanning mobility,
down to the last detail

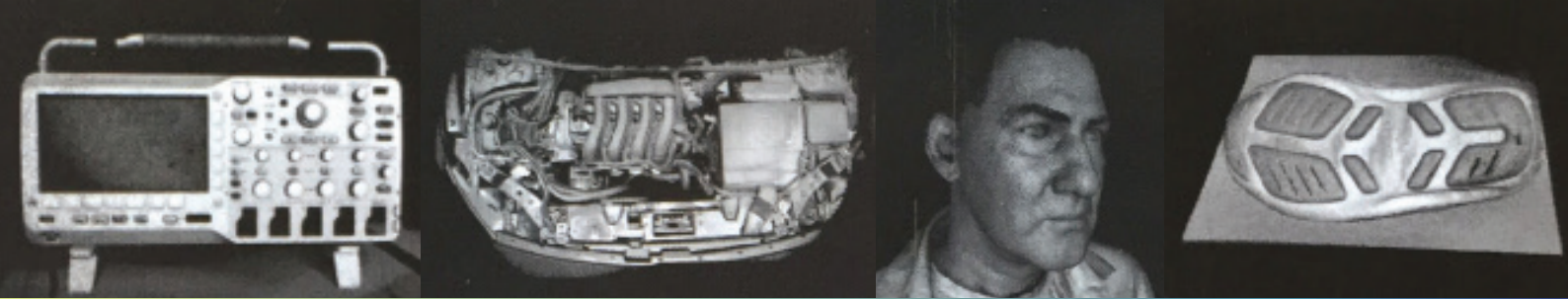
The F5 Short Range 3D imager

Brings together compact, ergonomic design with speed and ease-of-use to effortlessly capture small, intricately detailed objects, in the field and on the move.



MANTIS VISION
3D that works for you





Get Ready for your Close-up

Mantis Vision's F5-SR is the smallest, lightest handheld 3D imager in the market. Featuring the widest working range available for small object capture today, the F5-SR spares no detail, with a compact design that allows access to very small, cramped spaces and hard to reach objects. Whether you are digitizing the human form, capturing intricate manufacturing components, or documenting a cluttered, detailed crime scene out in the field, the F5-SR will expand your scanning range and capabilities, in the field and on the move.

On the Move Versatility

A truly mobile 3D scanning solution that offers proven results in any working environment or lighting conditions, the F5-SR can work alone or as a complimentary tool to Mantis Vision's Handheld series to complete the picture in large-scale, complex scenes or objects.

Effortless Accuracy

The F5-SR offers the fastest speed-of-scan in the industry: no need for positioning targets or scene preparation to obtain optimal results.

The F5 Short-Range Package Includes:

- F5-Short Range 3D Imager
- Post-Processing software
- Padded protected carrying case
- Calibration board
- Power supplies & USB cables

Software

Mantis Vision's user-friendly, intuitive 3D production software accompanies the F5-SR imager and includes:

- 3D live feedback
- Fully automatic process
- Automatic global alignment
- Composition tool
- Measurement Tools
- Triangulation and surfacing

About OR3D

OR3D is a Mantis Vision hardware partner, providing CAD, reverse engineering and inspection services through the range of Mantis Vision products. As the UK's main partner to Mantis Vision, we supply and provide training for PocketScan 3D, F5B - Short Range, F5B - Long Range and F6.



+44 (0) 1691 777 774

www.or3d.co.uk

info@or3d.co.uk

@OR3D.co.uk

@OR3D

OR3D

Chirk Head Office
Bristol Office

OR3D, 2 The Sawmill, Brynkinalt Business Centre, Chirk, Wrexham, LL14 5NS, UK
OR3D, Future Space, UWE North Gate, Filton Road, Bristol, BS34 8RB, UK

The F5 Series - The only handheld 3D imagers designed for field use

- A lightweight standalone solution that fits in the palm of your hand, for maximum field mobility
- Widest working range available for small object capture today
- Exceptional results anywhere: outdoors, indoors, complete sunlight or total darkness
- Field ready: rugged, covert, silent, and safe
- Easy to use - a short training session is all that is needed to successfully operate the imager

Technical Specifications

Hardware Specification

3D resolution	up to 0.25mm
3D point accuracy	up to 0.1mm
XY point density	1.6mm in a single frame at 0.5mm unlimited in stitch mode
Continuous acquisition time	2 hours
Eye safety	class 1M laser (no protection required)
Ambient lighting	from complete darkness to daylight. Low sensitivity to environment lightning conditions
Depth of field	0.3 - 0.8m/11.8-31.5"
Linear field of view	HxW 344x340mm, closest range
Linear field of view	HxW 770x920mm, furthest range
Angular field of view	HxW 38 x 44°
Video frame rate	10fps
Exposure time	Up to 0.003s (3ms)
Data acquisition speed	900,000 points/s
Dimensions, HxDxW	16 x 46 x 167mm/4.6 x 1.8 x 6.6"
Imager Weight	0.5 kg
Power consumption	Internal 12V battery operated, 60W
Interface	USB2.0
Working temperature	-10 to 50°C/14 to 122°F

Software Specification

Multi-core processing	Yes
Output formats	PLY, PTS, STL, ASCII, XYZ, E57
Supported OS	Windows 8 x64 bit (and up)