

SCAPE Pro and Ultra 3D Scanner

QUICK GUIDE

V 1.0.0



Pro C-M



Pro C-L



Pro C-XL



Ultra-L



Ultra-XL

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1 Introduction

The SCAPE Pro Scanners is a series of three models of industrial high-resolution scanners to be mounted in stationary positions¹. The high-resolution point cloud is generated with a SONY RGB CMOS, high-performance edge computing module.

The scanners are optimized to perform fast scanning and processing for generating the point cloud. Time from starting a scan until a point cloud is available on the PC can be down to 0.7 seconds.

2 Box Content

- SCAPE Pro C-M/L/XL Industrial 3D Scanner
- Power Supply (100-240 VAC/50-60 Hz, 1.3 A, Output: 24VDC, 90 W) incl. 1.8 m cable to wall outlet and 20 m between power supply and scanner
- Ethernet cable RJ45/M12 X-coded 20 m (between PC and scanner)

2.1 Other documentation resources

For technical details and performance of the scanner please refer to the two documents:

- OP18-12,13,14 - Hardware Specification - SCAPE Pro Industrial 3D Scanners.pdf
- SCAPE 3D Industrial Scanners.pdf

3 Prerequisites

Minimum PC requirements

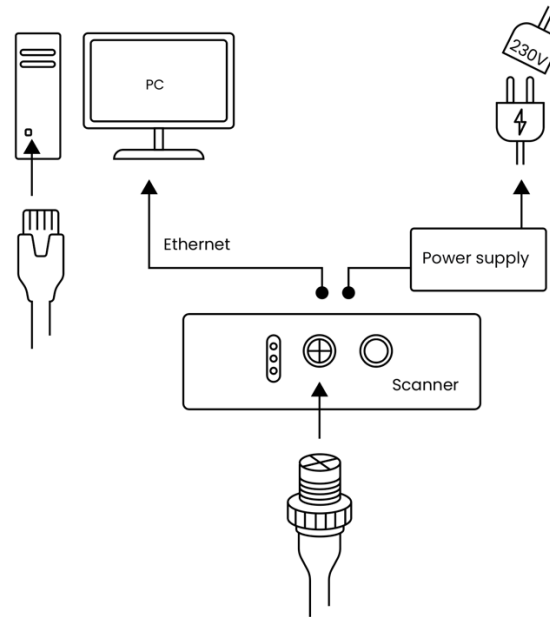
- OS: Windows 10/11 - 64bit, Ubuntu16.04/18.04/20.04 - 64bit
- CPU: Intel i5 8th generation or Ryzen 3
- RAM: 4G
- GPU: Any supporting 1920 * 1080 resolution
- Hard disk: 128G
- Network card: 1 Gigabit

Options:

- For optimal 3D visualization a discrete GPU supporting 1920*1080 is recommended but is in most cases not necessary.

4 Installation

¹ They can also be mounted on a linear guide or similar, but it is not recommended to mount them on a robot. For that purpose, please use the SCAPE Mini Scanners.



When connected, please check the LED indicators according to this:

LED Status	Red	Green	Yellow
On	Power available through ethernet cable (PoE)	Connecting	Continuously on, it indicates a short circuit in the network cable
Off	No power available through ethernet cable	Connected, normal operation	No communication
Flashing	-	-	Signal is normal, and communication is ongoing

4.1 Software

After connecting the scanner, please follow the instructions for installing the SCAPE 3D Scanner Viewer in the document "SCAPE 3D Scanner Viewer - User Guide.pdf".

5 Safety

⚠ WARNING

The equipment must be installed by professional personnel. Follow the operation regulations to avoid injury and safety problems.

- Do not attempt to open or repair the device; incorrect operation can cause permanent damage to the device.
- After the device is installed, do not move or disassemble the parts.
- Read the documentation carefully before testing or operating.
- The device installation bracket should avoid violent vibration.
- Use professional tools to maintain and clean lenses, cameras, etc., so as not to damage the lenses or glass.
- Looking directly at the light emitted by the device may cause eye damage.

6 Maintenance

The SCAPE 3D Scanners are generally low maintenance.

To preserve their performance and quality of the scans, please check and maintain their outer optical parts regularly. In cases where the scanner is used in an environment with lots of dust, especially when the dust contains sharp or hard particles that could potentially damage the glass, clean the glasses with specialized cleaning solution for optical components.

7 Troubleshooting

1. No connection to the scanner from the SCAPE 3D Scanner Viewer software:
 - Please check the LED indicators on the scanner – see table above.

For support, please write to:

support@scapetechnologies.com

Our support team will respond within one business day.