

SCAPE Mini Pro

QUICK GUIDE

V 1.0.25



Mini Pro C-700



Mini Pro C-1000



Mini Pro 700

Contents

- 1 Introduction 3
- 2 Box Content 3
 - 2.1 Other documentation resources 3
- 3 Prerequisites 3
- 4 Installation 4
 - 4.1 Software 4
- 5 Safety 5
 - 1. Do not attempt to open or repair the device; incorrect operation can cause permanent damage to the device. 5
 - 2. After the device is installed, do not move or disassemble the parts. 5
 - 3. Read the documentation carefully before testing or operating. 5
 - 4. The device installation bracket should avoid violent vibration. 5
 - 5. Use professional tools to maintain and clean lenses, cameras, etc., so as not to damage the lenses or glass. 5
 - 6. Looking directly at the light emitted by the device may cause eye damage. 5
- 6 Maintenance..... 5
- 7 Troubleshooting 5

1 Introduction

The SCAPE Mini Scanners is a series of three models of compact industrial high-resolution scanners. The high-resolution point cloud is generated with a SONY RGB CMOS, high-performance edge computing module.

The scanners are physically characterized by being compact, lightweight and rugged. The latter means they are built to be mounted on a robot arm.

The scanners are also 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 Industrial 3D Scanner (Mini Pro-700, Mini Pro C-700 or Mini Pro C-1000)
- Ethernet cable RJ45/M12 X-coded 5 m (between SCAPE Controller PC and scanner)
- Power supply injector for PoE
- This “3D Sensor Quick Guide – SCAPE Mini Pro 3D Scanner” document

2.1 Other documentation resources

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

- OP13-20,21,22 - Hardware Specification - SCAPE Mini 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:

- If the network card on the PC supports PoE (Power over Ethernet) then it is not necessary to use the supplied PoE injector.
- For optimal 3D visualization a discrete GPU supporting 1920*1080 is recommended but is in most cases not necessary.

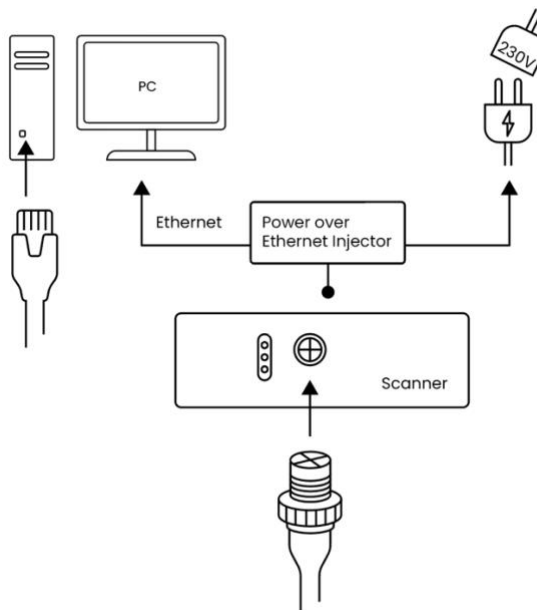
4 Installation

If your PC ethernet card supports PoE:

- 1) Connect the supplied ethernet cable directly from the PC to the scanner.

If your PC ethernet card does not have PoE:

- 1) Connect an ethernet cable between the PC and the supplied PoE Injector.
- 2) Insert power cable from injector to a wall outlet.
- 3) Connect the supplied ethernet cable between the PoE Injector and the scanner.



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.

1. Do not attempt to open or repair the device; incorrect operation can cause permanent damage to the device.
2. After the device is installed, do not move or disassemble the parts.
3. Read the documentation carefully before testing or operating.
4. The device installation bracket should avoid violent vibration.
5. Use professional tools to maintain and clean lenses, cameras, etc., so as not to damage the lenses or glass.
6. 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.