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Z+F Laser Scanner: Starting your Scan

This workflow will show you how to start a scan using the Z+F Laser Scanner. Hint: You can click on any image to see a larger version.

POSITIONING AND POWERING UP THE SCANNER

1. Position the scanner in the center of the target field

Ensure that the angle of incidence of the laser on the target is larger than 45 degrees

Recommended distance between the Z+F scanner and targets

RESOLUTION	RECOMMENDED DISTANCE WITH AN ANGLE OF 90 deg.
Middle	1 m to 15 m
High	1 m to 20 m
Super High	1 m to 25 m
Ultra High	1 m to 30 m

With smaller a smaller angle of incidence the target distance is reduced

Power the scanner on by pressing the power button for 0.3 seconds

The power-up process takes approx. 20 seconds in which time it will rotate while the mirror spins

MENUS AND CONTROLS

Menus and Controls

System Menu shown in the display. Main menu order:

· Info

- · Status
- · Tilt Sensor
- · Scanning
- · Data Management

Control buttons:



SCAN MENU SYMBOLS

Scan Menu Symbols

The top line indicates the menu currently in use



See User Manual for full descriptions of all menus

Check the Tilt Sensor Menu

If the inclination in f the Y-direction is greater than or less than 2 degrees, an arrow will appear and the inclination should be corrected

THE SCANNING MENU

In the Scanning Menu

RESOLUTION:

Select the preferred resolution level (Middle or High is usually preferred)

Super High, High and Middle resolutions have a low noise option that reduces noise by the factor of 1.4, but scanning time is doubled

VERTICAL SCAN RANGE:

You can select predefined vertical scan ranges using the + / – buttons or further refine each predefined range by pressing the solution and increasing or decreasing the values by 5 deg. with the + / – buttons. Predefined ranges include:

- · V 0-360
- · V 25-160 and 200-335
- · V25-180
- · V 180-260
- · V 45-135

HORIZONTAL SCAN RANGE:

The horizontal scan range can be set in increments of 5 deg. for both the start and end position using the + / – buttons and pressing the start and end position using the + / – buttons and

Alternatively the scanner start position can be manually set by rotating the scanner to any position greater than 0.0. Press the start position to confirm the position. Set the horizontal range end position next in the same manner

START THE SCAN

Start the Scan



Press the **set** button to start the scanning process. The process can also be stopped using this button and all data collected prior to interruption will be stored.



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