Visionary-T Measuring Help Guide
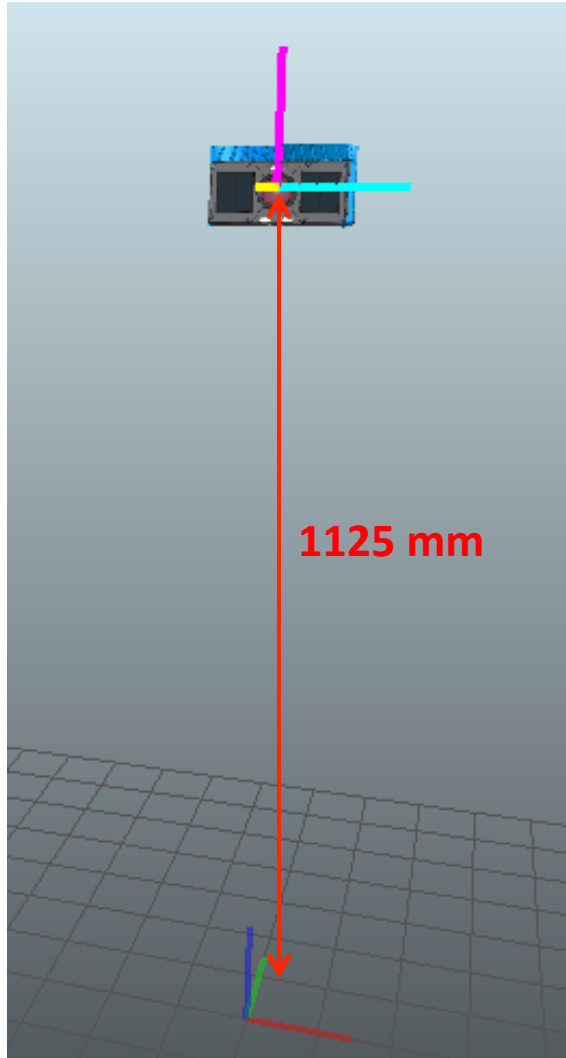
- Establish Height Reference

- Measuring Objects

- Determining Scanner Object Resolution
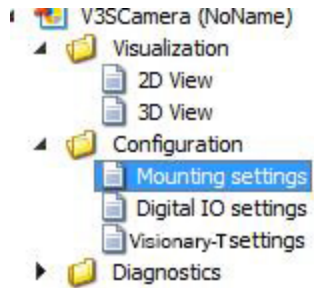
Visionary-T Measuring Help Guide.

1125 mm

Measure the height of the scanner from the center of the lens to the floor.

Establish Height Reference

Visionary-T Measuring Help Guide.

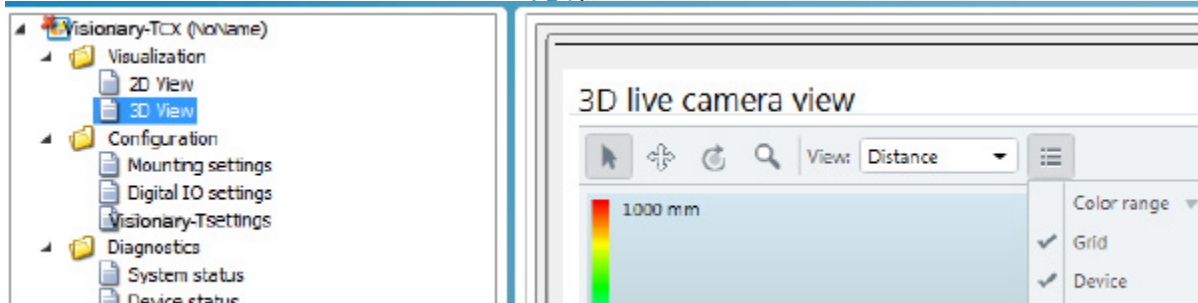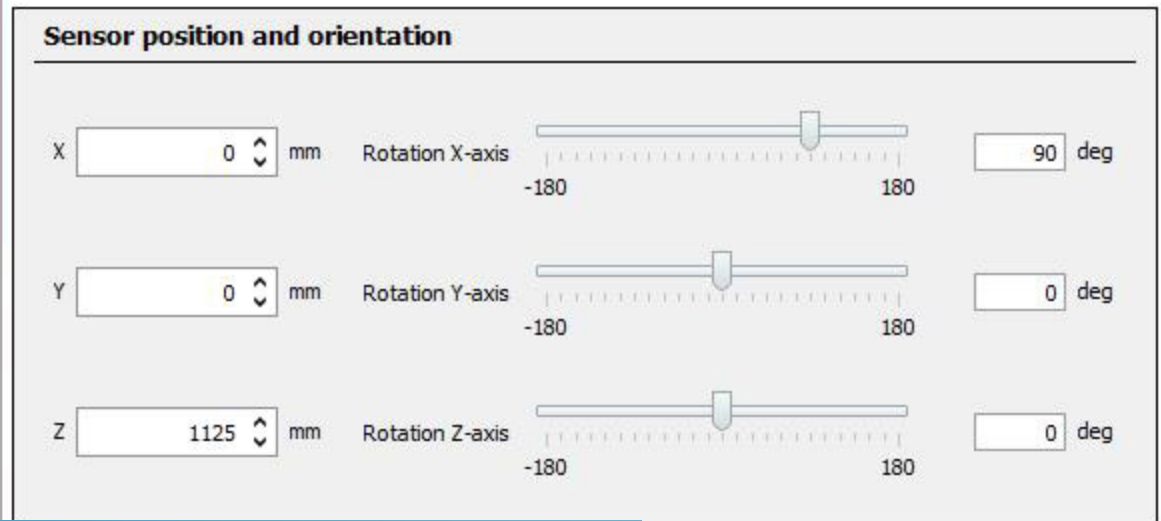Select "Mounting settings."

Positioning the grid to the floor.

Rotate the grid clockwise by 90 degrees.
Then place the floor 1125 mm away,
since the elevation of the scanner is 1125 mm.

V3SCamera (NoName)
- Visualization
  - 2D View
  - 3D View
- Configuration
  - **Mounting settings**
  - Digital IO settings
  - Visionary-T settings
- Diagnostics

Select "Grid" and "Device"
on 3D live camera view.

Sensor position and orientation

X	0	mm	Rotation X-axis	(-180 to 180)	90 deg
Y	0	mm	Rotation Y-axis	(-180 to 180)	0 deg
Z	1125	mm	Rotation Z-axis	(-180 to 180)	0 deg

Visionary-TCX (NoName)
- Visualization
  - 2D View
  - 3D View
- Configuration
  - Mounting settings
  - Digital IO settings
  - Visionary-T settings
- Diagnostics
  - System status
  - Device status

3D live camera view

View: Distance

1000 mm
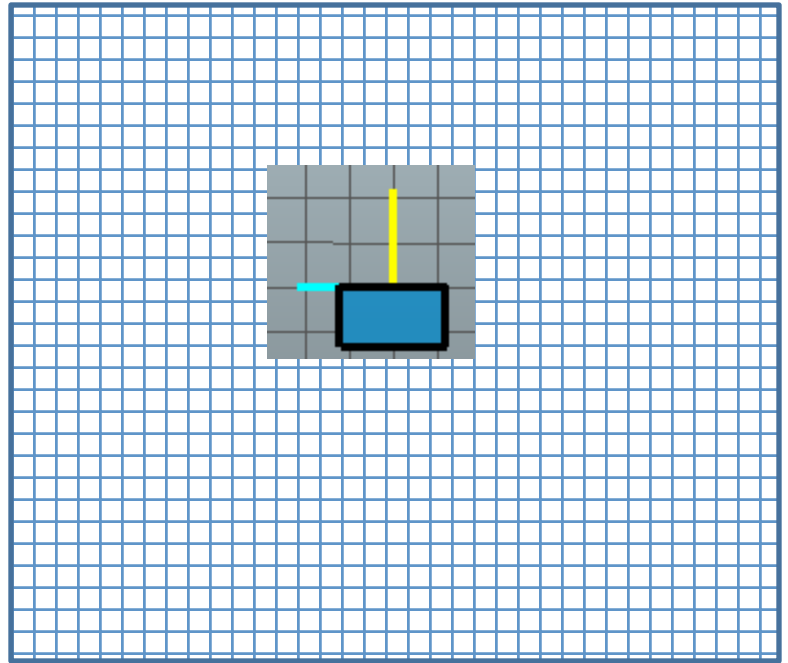
Color range
✔ Grid
✔ Device

Establish Height Reference   Visionary-T Measuring Help Guide.

🔵 Z Axis

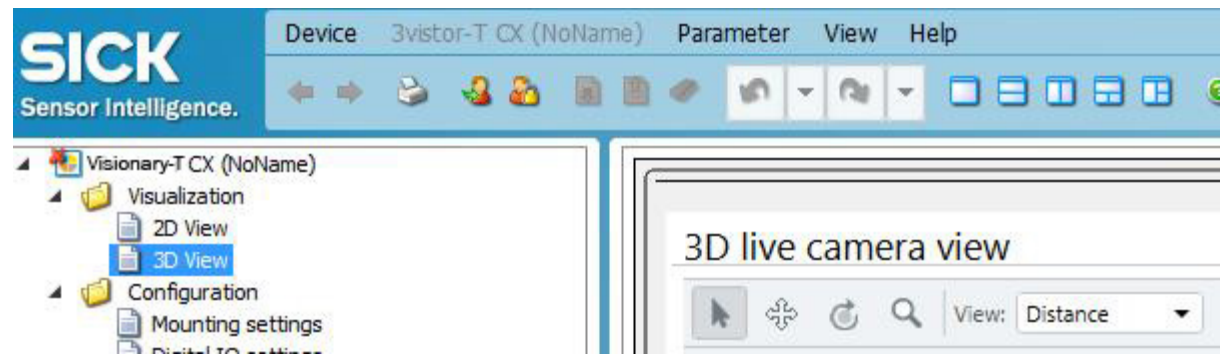Grid coordinate positions

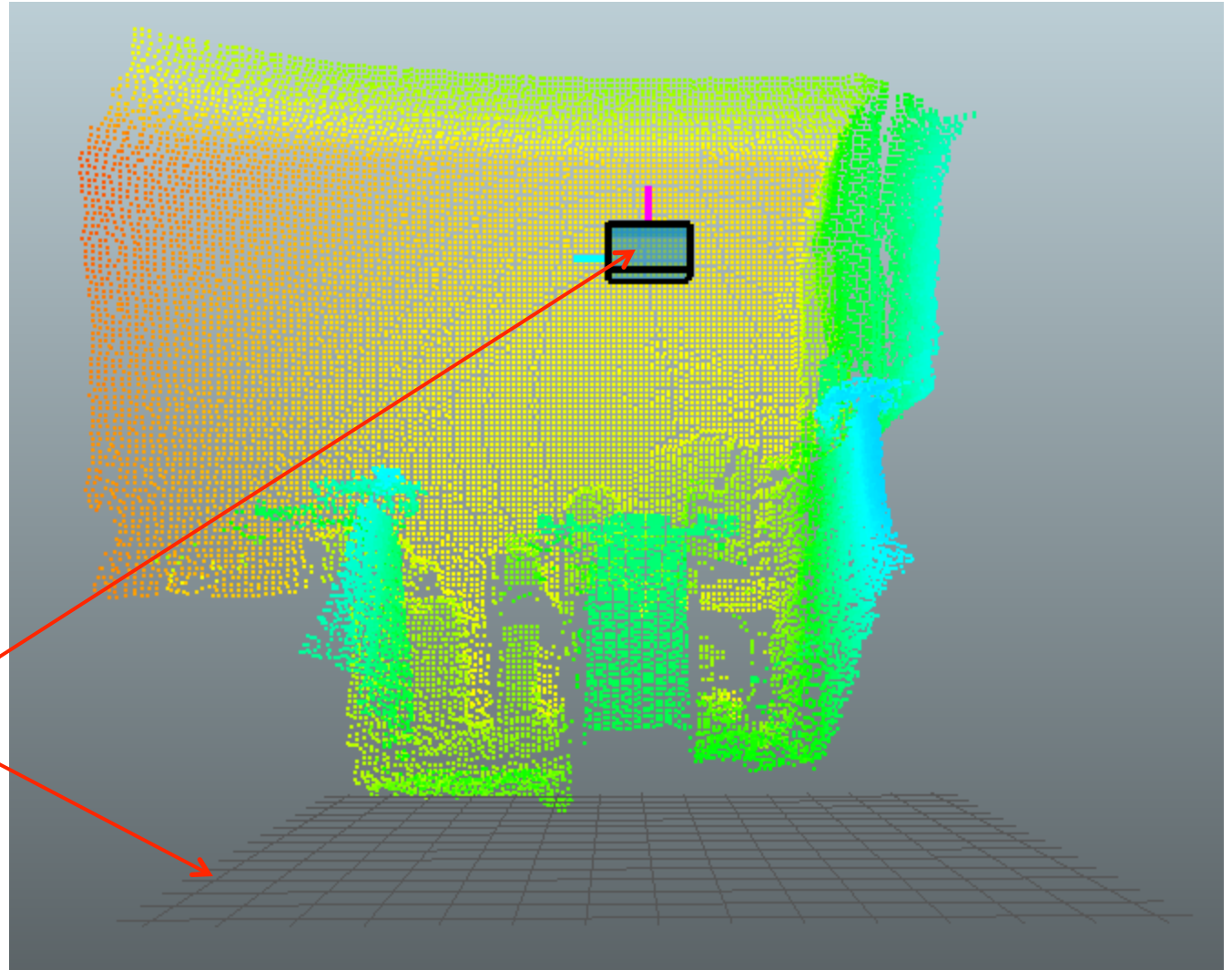Top to floor grid peering top - down view
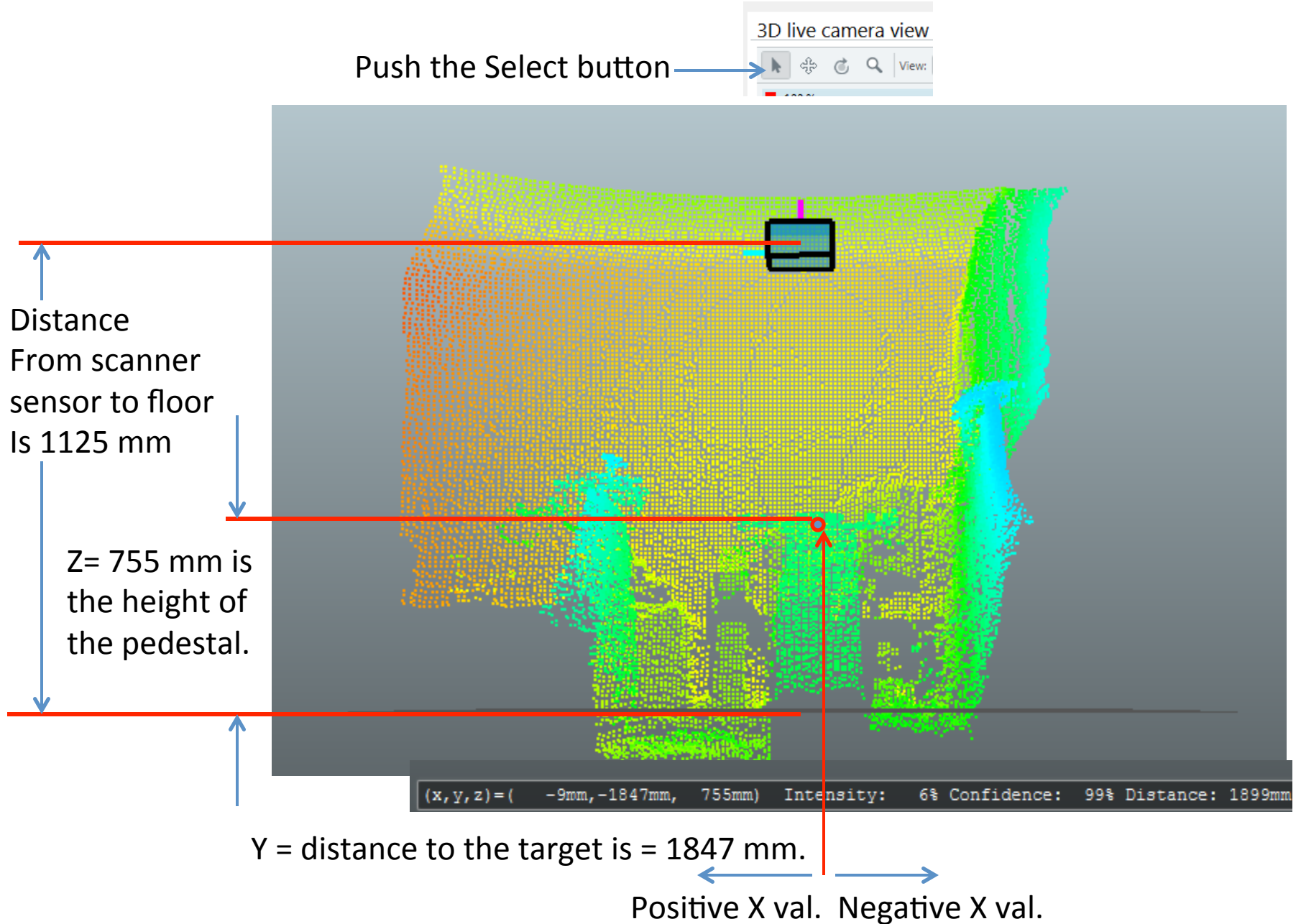
Y Axis

Select "Distance" for 3D live camera view.

X Axis

Grid
Placed on floor
relative to
the scanner
centerline.

Measuring Objects   Visionary-T Measuring Help Guide.

3D live camera view

Push the Select button

Distance
From scanner
sensor to floor
Is 1125 mm

Z= 755 mm is
the height of
the pedestal.

(x,y,z)=(-9mm,-1847mm,   755mm) Intensity: 6% Confidence: 99% Distance: 1899mm

Y = distance to the target is = 1847 mm.

Positive X val. Negative X val.
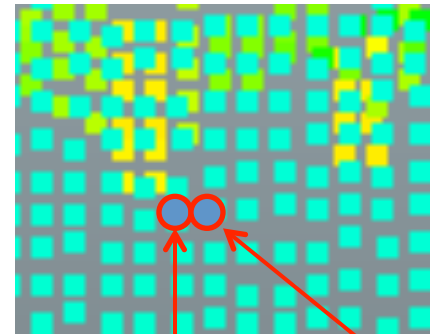
Determining Scanner Object Resolution   Visionary-T Measuring Help Guide.

Scanner center is object center, in this example.
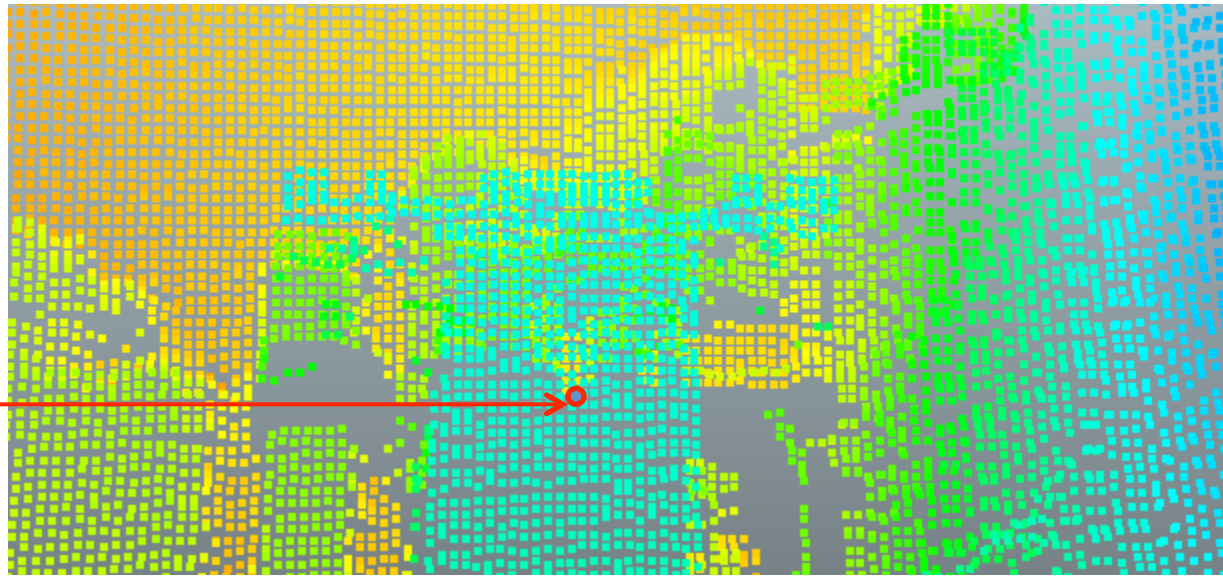
Positive X val. Negative X val.

To determine horizontal resolution at object center, place the cursor pointer at both pixel points. Horizontal resolution is 9 + 4 = 13 mm.
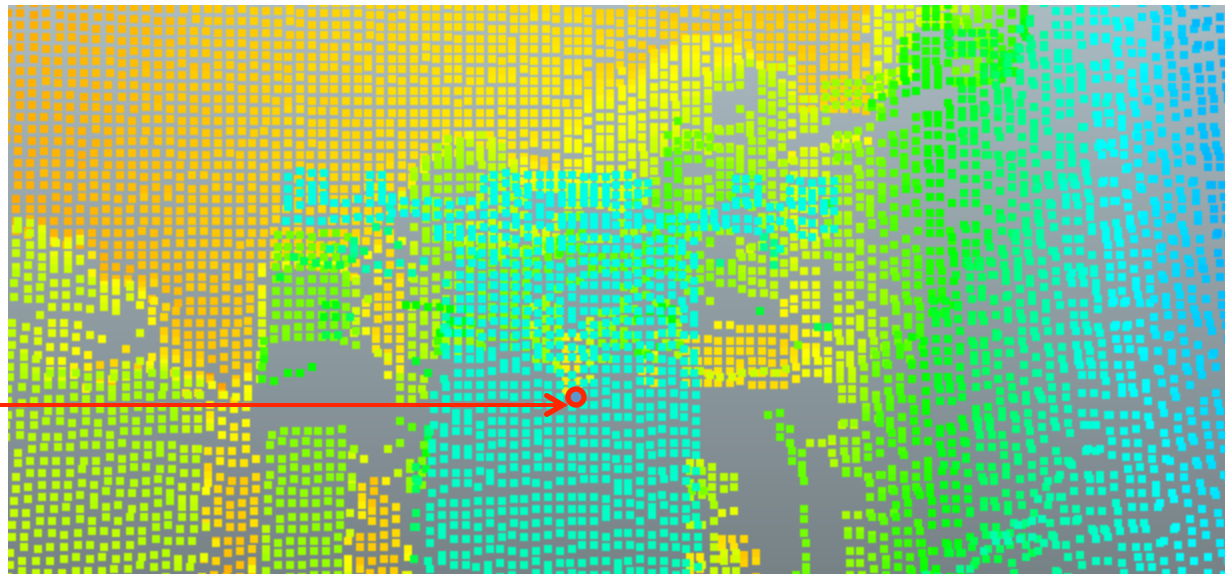
X = 4mm   (x,y,z)=(4mm,-1848mm,   579mm) Intensity: 3% Confidence: 97% Distance: 1942mm

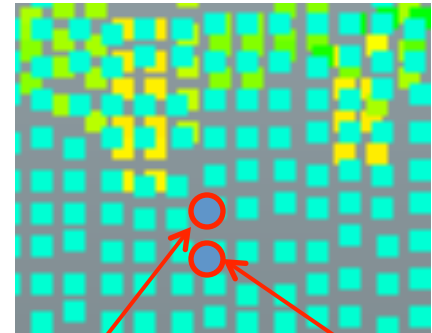X = -9 mm   (x,y,z)=(-9mm,-1855mm,   577mm) Intensity: 4% Confidence: 98% Distance: 1949mm

Scanner center is object center, in this example.

To determine vertical resolution at object center, place the cursor pointer at both pixel points. Vertical resolution is 582 - 561 = 21 mm.

The distance above floor is the Z val.

Z = 582mm `(x,y,z)=(   -9mm,-1841mm,   582mm)  Intensity:    4% Confidence:   98% Distance: 1934mm`

Z = 561 mm `(x,y,z)=(   -9mm,-1864mm,   561mm)  Intensity:    4% Confidence:   98% Distance: 1962mm`