

# 3D TRACKING SOLUTIONS

## Robot Path Programming

**IR Sensors :** 20 PGM\*  
**Communication :** Wire-Less (RF)  
**Faces :** 8-Sides (Auto Select Banking)  
**Tip :** RobotWelding-Torch Connection & M5 Ruby Ball & Sharp Tip



PRECI 3D ROBOGUN

**Buttons :** 7 Ergonomic Buttons

**Software :** Mercator  
SKM DCAM

**Transport :** Specially Designed Protective Case

**Add-On Module :** RobotWelding-Torch

## Touch Probe

**IR Sensors :** 18 PGM  
**Communication :** Wire-Less (RF - Radio Frequency)  
**Faces :** 3-Sides (Auto Select Banking)  
**Tip :** M5 Ruby Ball & Sharp Tip  
**Buttons :** 2 Ergonomic Buttons (3 Max.)  
**Power :** Compact Mobile Charger  
**WorkingTime :** > 6hr @ Fully Charged Battery\*  
**Calibration :** Only Factory Calibration (User Calibration Correction)  
**Transport :** Specially Designed Protective Case  
**Add-On Module :** IR Fork (Infrarot Gabel)



PRECI 3D GUN

## FreeHand Laser Line Scanner

Resolution X-axis : 1280 points/profile

Linearity<sub>1</sub> (3Sigma) : +/- 0.16% FSO

Measurement Range: Start | End :

25mm Z : 54mm | 66mm, X : 23mm | 29mm

30mm Z : 70mm | 120mm, X : 42mm | 58mm

100mm Z : 190mm | 390mm, X : 83mm | 120mm

Laser Class : 1) 2M (Default) 2) 3R(Optional)

Light Source : Blue 405nm | Red 658nm

Blue Speed : Up To 200Hz

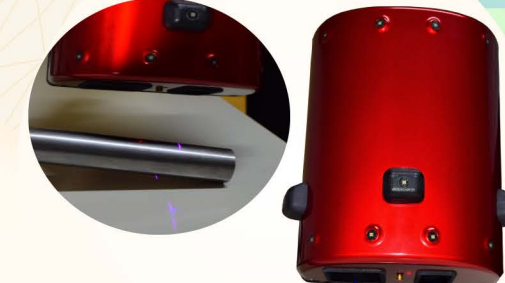
Aperture angle laser line : 20° | 25° | 25°

Surface : White to Black | Dull to Shiny Surface

Soft. Interface : Free-Hand MultiSoft | 3DReshaper\* | PolyWorks® | Geomagic

PC Interface : Ethernet (Scan Data) | RF (TRACKER)

Temperature Range : > 10°C to < 45°C



PRECI 3D SCAN

## PRECI 3D TRACK



## Optical 3D-Tracking System

**Speed :** Up to 1kHz  
**Dimension (mm) :** L 900<sub>mm</sub> x B 100<sub>mm</sub> x H 100<sub>mm</sub>  
**Measurement Volume :** 4m x 2.7m x 2.5m  
**Weight :** Ca. 8 kg  
**PC Interface :** USB 2.0 & USB 3.0  
**Calibrated Volume :** 1) 1.0M - 2.5M\* (Default) 2) 1.0M - 3.5M\* (Optional) 3) 2.2M - 4.7M\* (Optional)  
**Software Interface :** Free-Hand MultiSoft | Power Inspect\* | 3D-Reshaper\* | PolyWorks\* | Geomagic\* | Rhino | SolidWorks - RevWorks\* | Mercator | SKM DKAM | Eureka  
**Measurement Tool :** PRECI 3D GUN | 1D-2D-3D PRECI SCAN | Custom Tools  
**Measurement Begin-End :** From 1.0m to 5.0m  
**Number Of Ports :** 2 Wired (4 Max.) | 2 Wireless  
**Poly PRECI Trackers :** 0.Master - 1.Slave - 2.Slave - 3.Slave...n (For Complex & Big Sized Parts)  
**Working Temperature :** > 10°C to < 45°C  
**Transport :** Specially Designed Protective Case

## Glass Measurement

**Linearity (Displacement) :** 7.5µM (± 0.025 % FSO)  
**Linearity (Thickness) :** 7.5µM (± 0.025 % FSO)  
**Resolution :** 180nm  
**Start of Measurement Range :** 100mm  
**Measurement Range :** 30mm  
**Spot Diameter :** 50µm  
**Max Tilt\* :** ±9°  
**Speed :** Ca. 150Hz  
**Software Interface :** 3D Reshaper\* | Power Inspect\* | Geomagic\*  
**PC Interface :** Ethernet | USB  
**PRECI Trackers :** 0.Master - 1.Slave - 2.Slave - 3.Slave...n  
**WorkingTemperature\* :** > 5°C to < 70°C  
**Vibration :** 2g/ 10Hz...500Hz  
**Transport :** Protective Case



PRECI 3D CONFOCAL

## FLEXIBLE IR LEDs:

**IR Sensors :** Min. 1 - Max. 25  
**PRECI 3D FLEX :** 25 x 3.5mm Receptacle, 2-Buttons, Battery, Charge Plug, Status LED, Power Switch  
**Communication :** Wired (Length: up to 20m) / Wireless  
**Connection :** 2.5mm Standard Jack with 1.8 m Cable  
**Placement :** Magnet / double sided adhesive tape  
**Speed :** ~1.1 msec / Sensor



PRECI 3D FLEX

## Line Scanner on Robot

Resolution X-axis : 1280 points/profile  
 Linearity<sub>1</sub> (2Sigma) : +/- 0.10% FSO  
 Measurement Range: Start | End :  
 25mm Z : 54mm | 66mm, X : 23mm | 29mm  
 30mm Z : 70mm | 120mm, X : 42mm | 58mm  
 100mm Z : 190mm | 390mm, X : 83mm | 120mm  
 Laser Class : 1) 2M (Default) 2) 3R(Optional)  
 Light Source : Blue 405nm | Red 658nm  
 Speed : Up To 200Hz  
 Aperture angle laser line : 20° | 25° | 25°  
 Surface : White to Black, Dull to Shiny Surface  
 Soft. Interface : Free-Hand MultiSoft | 3DReshaper\* | Geomagic\* | PolyWorks\*  
 Auto Flange connection for Robot



PRECI 3D RLSCAN

## Dynamic Reference

**IR Sensors :** 4 IR Sensors\*  
**Communication :** Wired | Wire-Less (RF)  
**Faces :** Single Sides  
**Tip :** M5 Ruby Ball & Sharp Tip  
**Buttons :** 2 Ergonomic Buttons  
**Power :** Compact Mobile Charger  
**Mount :** 3 Screw | Magnet on back  
**Calibration :** (User Calibration Correction Module Available)\*  
**Weight :** < 0.2 Kg  
**Add-On :** Multiple PRECI 3D REF, PRECI 3D GUN, PRECI 3D ROBOGUN



PRECI 3D REF