



EXTR

EXTR One|EXTR Two|EXTR 30

- 3D modeling expert
- 3D Scanner original equipment

Global LEADER

From Zhejiang University CAD Microsoft Asia Research

Formbuilder

Metrology-Grade precision & Low cumulative error

High precision as 0.01mm+0.02mm/m! Plus photogrametric precision as 0.01+0.015mm!

High data speed & Silksmooth scanning experience

2.1M points/sec & 30 laser lines

Stable Repeatability

Reliable Meassurement, consistent results even for mutiple scannings of the same item!

Neat For Complex Workpiece

Built for all scenarios, the more complex workpieces, the better performance of scanning.







Campatible to Many Support all mainstream reverse softwares CAD

Simple Processes Only four steps for the full-size scanning with produced drawings ready to use



Excellent quality inspectionDoubled quality and drawing efficiency,
Significantly reduce the production cost



Easy Operation
Crystally clear instruction of all cases. User-friendly operation interaface without effort to learn.

Application Scenarios



Automative



Transportation



Aerospace



Mechine



Manufacturing



Mold manufactring



Healthcare



Trainning and Research

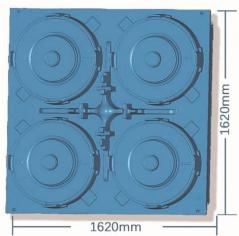


Antique Repair and Restoration



XR







Full scale quality inspection



Multiple DG&T qualit inspection capabilities



Mass quality nspection



Free setting of global and local tolerances



Automated quality inspection with robots

Excellent photogrammetric error control capability

High accuracy, high and stable repeatability

0.01mm±0.015mm/m

Greater cumulative error control

photogrammetry up to 0.01mm medium and large parts(max):0.02mm



deviation: 0.007mm



Overall-size QC Process

Step 1

Import data

STL data , CAD data and more compatible to manistream softwares and formats

Step 2

One-click Data alignment

Automatic alignment of CAD and STL data with one click. support automatic alignment of 321 ,RPS, etc

Step 3

Colorful overall-size quality inspection

The global tolerance and regional tolerance can be set as use.

Step 4

One-click output

Customized report formats and test content , support batch and automated quality inspection

Scaning to drawings ready to process

Step 1

Marie Carlos Carlos Carlos

Scan to get data

First scan the object to get high precision STL, after data alignment, optimization and smoothing, at the end, repair to obtain high precision mesh method



Step 2

Feature Extraction
Mesh based on curvature



Step 3

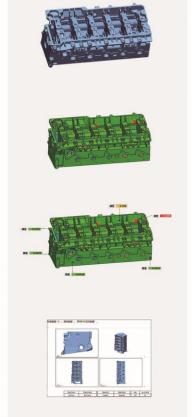
Reversed Capture of CAD surface

Get drafts and parameters from grids for reverse modelling



Generate 3D CAD drawings

Support UG(solidworks(Catia, high quality CAD data in STP,X_T and other formats for mainstream software such as Pro-E



Technical Specifications

Model	EXTR-one	EXTR-30	EXTR-22
Depth of field(DOF)	620mm		
Scan mode	High-speed scanning, large-area scanning, deep-hole scanning, fine scanning (optional)		High-speed scanning, wide-area scanning, deep-hole scanning,dark and bright mode
Light source	14 beam crossed laser lines +1 laser line beam	30 beam crossed laser lines +1 laser line beam	22 beam cross laser line +1 beam laser line
Laser class	Class2(Eye-safe)		
Scan speed	1650000m/sec	2100000m/sec	2020000m/sec
Highest resolution	0.03mm		0.025mm
Maximum scanning area	1440mm∗860mm		
Scanning method	Laser scanning(safety laser)		
Accuracy	0.01mm	0.01mm+-0.02mm/m	0.01mm
Volumertric accuracy	0.010mm+0.020mm/m 0.01mm+-0.15mm/m (with photogrammetry)		0.010mm+0.020mm/m
Connection standard	USB3.2		USB3.0
Operating temperature range	-10℃—40℃		
Stand-off distance	300 mm		
Output formats	.ply,.obj,.vtk,.stl,.off,.ma,.txt,.asc,.neu,.xyz,.scv,.pn,.pv,.pov and support customized format		



-Our customers -





BOSCH







Red Leaf























































