

NIMBLETRACK - CR

NimbleTrack-CR, an intelligent and wireless 3D scanning system, is especially designed for ultimate detail capture. With wireless freedom, lightweight and portable design, and high accuracy, this next-generation solution pushes the boundaries of 3D digitization.

Unmatched Detail Capture

NimbleTrack-CR is equipped with a state-of-the-art optical imaging system and intelligent algorithms for exceptional precision.

-Industrial Measurement: ISO 17025 certified | 0.025 mm accuracy for system | 0.020-mm accuracy for scanner-only mode.

-Art and Cultural Heritage: 0.010 mm max resolution | Class I laser safety for cultural heritage preservation mode | Non-contact and damage-free.

Wireless Measurement

The NimbleTrack-CR ensures continuous scanning without external power sources, offering greater flexibility and efficiency in the scanning process.

Lightweight and Portable Design

The 3D scanner is compact, measuring just 230 mm in diameter and weighing only 1.3 kg, and fits in a single case for easy transport and storage.



Flexible and All-in-One

- Multiple Scanning Modes: Supports ultra-fast scanning, hyper-fine scanning and deep hole scanning.
- Adapt to Different Environments: Handles various part sizes and types across indoor and outdoor settings.
- Multi-Material Compatibility: Scans textiles, ceramics, bronze, sheet metal, and more.

Excellent for Cultural Heritage Protection

Leveraging high-precision 3D scanning and intelligent texture mapping, it faithfully reproduces colors, textures, and geometry for stunning, lifelike detail.

Software-Powered Measurement

Smart Resolution | Color Indicators | Real-time Multi-Resolution

Technical Specifications

Type		NimbleTrack-CR
Scan mode	Ultra-fast scanning	17 blue laser crosses
	Hyperfine scanning	7 blue parallel laser lines
	Deep hole scanning	1 blue laser line
Accuracy for scanner-only mode ⁽¹⁾		Up to 0.020 mm
Accuracy for system ⁽²⁾		Up to 0.025 mm
Tracking distance per i-Tracker		3200 mm
Volumetric accuracy (Tracking distance 3.2 m)		0.064 mm
Volumetric accuracy (With MSCAN-L15 photogrammetry system.)		0.044 mm + 0.012 mm/m
Hole position accuracy		0.050 mm
Laser class		Class II (eye-safe)
Resolution up to		0.010 mm
Stand-off distance		250 mm
Depth of field		300 mm
Scanning area up to		150 mm × 190 mm
Scanning frame rate		120 fps
Measurement rate up to		4,900,000 measurements/s
Dimension of i-Scanner		238mm × 203mm × 230mm
Weight of i-Scanner		1.3 kg (Net weight)
		1.4 kg (Battery and wireless module included)
Dimension of i-Tracker		570mm × 87mm × 94mm
Weight of i-Tracker		2.2 kg (Net weight)
		2.6 kg (Battery and wireless module included)
Size of protection case		1000mm × 425mm × 280mm
Output format		.stl, .obj, .ply, .asc, .igs, .txt, .mk2, .umk and etc.
Operating temperature range		-10°C ~ 40°C
Operating humidity (Non-condensation)		10% ~ 90% RH
Wireless operating mode		i-Scanner, i-Tracker, i-Scanner + i-Tracker, i-Tracker + i-Probe, Wireless multi-tracker tacking, Edge Inspection
Wireless standard		Wi-Fi 6, 802.11a/b/g/n/ac
Interface mode		USB 3.0, Gigabit Ethernet
Patents		CN109000582B, CN211121096U, CN210567185U, CN111678459B, CN114001696B, CN114554025B, CN114205483B, CN113514008B, CN114627249B, CN112867136B, CN218103220U, CN218103238U, CN307756797S, CN113340234B, CN112964196B, CN115289974B, CN113188476B, CN218411072U, CN115325959B, CN218584004U, CN115661369B, CN218734448U, CN115493512B, CN110892393B, CN116136396B, CN113432561B, CN219834226U, CN219829788U, CN116244730B, CN116206069B, CN113766083B, CN222015590U, CN222027649U, CN308982243S, CN308982242S, CN222104664U, CN222279677U, CN222279678U, CN222321625U, CN222317979U, CN222317980U, CN222356423U, CN222353116U, CN222560923U, US10309770B2, US10309770B2, US11060853B2, KR102096806B1, EP3392831B1, US11493326B2

(1) ISO 17025 accredited: Based on VDI/VDE 2634 Part 3 standard and JJF 1951 specification, probing error (size) (PS) performance is evaluated.
(2) ISO 17025 accredited: Based on VDI/VDE 2634 Part 3 standard and JJF 1951 specification, sphere spacing error (SD) performance is evaluated.