

	Name	MetroY Ultra
1	Scanning Type	Handheld and Desktop
2	Technology	Multi-line Laser Scan and Full-field Structured Light Scan
3	Scannable Object Size	Small to Medium
4	Single-frame Precision, up to*	0.01 mm
5	Single-frame Accuracy, up to*	0.015 mm
6	Volumetric Accuracy	0.015 mm + 0.04 mm × L (m), L is the length of the object.
7	Fused Point Distance, up to	0.05 mm
8	Working Distance	200 ~ 400 mm
9	Single Capture Area at Nearest Distance	152 × 138 mm at 200 mm
10	Single Capture Area at Furthest Distance	332 × 276 mm at 400 mm
11	Angular Field of View (H × V)	49 × 38°
12	Minimum Scan Volume	10 × 10 × 10 mm
13	Maximum Scan Volume	2 × 2 × 2 m
14	Scanning Speed, up to	Scanning Speed, up to: NVIDIA GPU: 90 fps CPU: 60 fps Point Return Rate: Multi-line Laser Scan: 3,000,000 Points/s Full-field Structured Light Scan: 7,000,000 Points/s
15	Depth Camera Resolution	No publicity
16	RGB Camera Resolution	2 Megapixels
17	Color Scanning	Only in Auto Turntable Mode and Laser Line Marker Mode
18	Tracking Methods	Marker, Global Marker, Feature
19	Outdoor Scanning*	Yes (Multi-line laser mode enables scanning in lighting environments of up to 100,000 lux)
20	3D Light Source*	34 Blue Cross Laser Lines 15 Blue Parallel Laser Lines 1 Blue Deep Hole Single Laser Line 62 Line Blue Full-field Structured Light
21	Fill Lights*	12 Blue LEDs
22	White Flash LEDs*	N/A
23	Position Sensors	N/A
24	CPU	4 core ARM, 2.0 GHz
25	Built in Chip Computing	Depth Computing
26	Internal Storage	N/A
27	Memory (RAM)	N/A
28	Touchscreen Display	N/A
29	Buttons	4
30	Minimum PC Requirements*	macOS CPU: M2 Pro RAM ≥ 16 GB Windows CPU: Intel i7 13th Gen or AMD Ryzen 7 5800 RAM ≥ 32GB GPU: NVIDIA GeForce RTX 3060 (8GB) Note: ① If you're unsure about the CPU configuration, please ensure that the CPU has cores≥8, threads≥16, and a base frequency ≥2.4GHz. ② Only in Laser Line Scanning modes, a dedicated graphics card is required for acceleration. AMD and MAC GPUs do not currently support acceleration.
31	Recommended PC Requirements*	macOS CPU: M4 Pro or better RAM ≥ 24GB Windows CPU: Intel i9 12th Gen or better RAM ≥ 64 GB GPU: NVIDIA RTX 4060 (8 GB) or better
32	Mobile Requirements	N/A
33	Compatible Operating Systems	Windows 10/11 (64-bit), macOS 11.0 or better

34	Native system	N/A
35	Output File Formats	PLY, OBJ, STL, ASC, 3MF, GLTF, FBX
36	Ready to Print 3D Models	✓
37	Wi-Fi	6
38	Bluetooth	N/A
39	Connector Type	USB Type-C to Type-C
40	Power Requirements	DC 12V, 3A
41	Battery	N/A
42	Scanner Weight	450 g
43	Dimensions (L × W × H)	211 × 94 × 47 mm
44	Special Object Scanning	Please use scanning spray when scanning transparent or specular surfaces in Laser Line modes.
45	User Recalibration	Yes
	Power Bank Capacity	5500 mAh (2.5 hours of battery life under average power consumption)
46	Supported Accessories	Marker Block Kit, Mobile Kit (4th Gen), Dual-axis Turntable, Ball Plate
47	Note	<p>1. Precision is how close repeated measurements of the same object at a single angle are to each other. Accuracy is how close a measured value at a single angle is to the actual (true) value. They were both acquired in a controlled lab environment. Actual results might vary, subject to the operation environment.</p> <p>2. Class 2M Laser Safety Tips: (1) The product uses a Class 2M laser projector. Avoid looking directly at it at close range! Please refer to the Class 2M laser standard document for details. (2) To avoid retina damage, don't look directly into the laser beam through optical instruments capable of magnifying it (e.g., telescopes, and camera lenses). (3) To prevent laser reflection, avoid placing reflective surfaces like mirrors or glass in the path of the laser beam.</p> <p>3. This product has flashing lights, which may not be suitable for people with photosensitive epilepsy. 4. If you're unsure about the CPU configuration, please ensure that the CPU has cores≥8, threads≥16, and a base frequency ≥2.4GHz.</p>