# TECHNICAL SPECIFICATIONS
## EinScan Pro 2X V2

| Scan mode | Handheld HD Scan | Handheld Rapid Scan | Fixed Scan with Turntable (with Industrial Pack add-on) | Fixed Scan without Turntable (with Color Pack add-on) |
|---|---|---|---|---|
| Scan accuracy | up to 0.045 mm | up to 0.1 mm | 0.04mm (single-shot accuracy) | |
| Volumetric accuracy* | 0.3 mm/m (with markers) | | / | |
| Depth camera resolution | 1.3 MP | | 1.3 MP | |
| Point distance | 0.2 ~ 2 mm | | 0.16 mm | |
| Scan speed | 10 fps 3,000,000 points/s | 30 fps 1,500,000 points/s | Single Scan＜1s | |
| Scan range | 150 x 120 mm ~ 250 x 200 mm | | | |
| Depth of field | 300 ~ 500 mm | | | |
| Working distance | 400 mm | | | |
| Light source | LED | | | |
| Alignment modes | Marker Alignment, Texture Alignment, Feature Alignment, Hybrid Alignment | Marker Alignment, Texture Alignment, Feature Alignment, Hybrid Alignment | Turntable Coded Targets Alignment, Feature Alignment, Markers Alignment, Manual Alignment, Global Markers Alignment | Markers Alignment, Feature Alignment, Manual Alignment, Global Markers Alignment |
| Texture acquisition | Yes (with Color Pack add-on) | | | |
| Outdoor operation | Yes (avoid direct sunlight) | | | |
| Special scan object | For the transparent, highly reflective or some dark objects, please spray powder before scanning | | | |
| Included software | EXScan Pro | | | |
| Printable data output | Able to export watertight 3D model directly to 3D printing | | | |
| Output formats | OBJ; STL; ASC; PLY; P3; 3MF | | | |
| Weight | 1.13 KG (include the USB3.0 cable) | | | |
| Operating temperature range | 0 ~ 40°C | | | |
| Operating humidity range | 10 ~ 90% | | | |
| Connection | USB 3.0 | | | |
| Supported OS | Win7; Win8; Win10; (64bit) | | | |
| Recommended PC configuration | Graphics card: NVIDIA GTX/RTX series cards, higher or equal to GTX 1080；Video memory: ≥4G; Processor: i7-8700 or higher; Memory: ≥64G | | | |
| Required PC configuration | Graphics card: Equal or higher than NVIDIA Quadro card P1000 or NVIDIA GTX660; Processor: intel (R) Xeon E31230, intel (R) i5-3470, intel (R) i7-3770; Memory: ≥16G | | | |

[1]. Volumetric accuracy refers to the relationship between 3D data accuracy and object size; the accuracy is reduced by 0.3mm per 100cm. The conclusion is obtained by measuring the center of sphere under marker alignment.
[2]. Select this alignment when scanning objects with rich geometrical features on the surface.
[3]. Hybrid alignment means marker alignment and feature alignment can be switched automatically.
[4]. This alignment needs Color Pack assisting, and requires rich color texture information on the surface of the object.

SHINING 3D reserves the right to explain any alteration of the specifications and pictures. Please refer to einscan.com to find more information.

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