

Artec

Easily create an automatic 3D scanning solution tailored to your business needs with **Artec L2**



Artec has developed a fast, full-color and high-resolution 3D scanner for industrial use that can be smoothly integrated into your business. A wide field of view and high data acquisition speed make it applicable in a wide variety of areas, including quality control, orthopedics and the automotive industry, to name a few. Its slick design allows it to be fixed to various types of surfaces and robotic platforms to automate the scanning process and thus eliminate topological errors. Together with Artec SDK, Artec L2 makes an ideal automatic scanning solution.

Wide linear field of view

Artec L2 has the widest linear field of view among Artec scanners, which enables you to scan larger objects and areas.

Short scanning time

Capturing large areas reduces the number of frames needed to make a scan to the minimum, which speeds up the scanning process.

High 3D resolution

The resolution of 1.5 mm allows you to capture even large objects in very fine detail.

Great accuracy of scans

With a 3D point accuracy of up to 0.25 mm Artec L2 precisely renders the geometry of the scanned object.

High texture resolution

Due to the texture resolution of 2.8 mp Artec L2 produces great quality texture in brilliant color.

Safe for people scanning

Emits visible light only and is absolutely safe for scanning people.

Ethernet interface

Artec L2 ethernet interface allows you to place the unit at a distance of up to 100 m from the computer.

Versatility of use

The scanner's design allows you to adapt it to specific application purposes, including bundling several units together. Artec, for instance, uses four of these scanners fixed to a rotating rig in its full-body scanner, Shapify Booth, which takes just 12 seconds to scan a person.

Hardware Requirements & Scanner Dimensions

Minimum computer requirements

Windows 7 or Windows 8
x64
Processor I5 or I7 recommended, 8Gb RAM,
NVIDIA GeForce 400 series

Calibration

no special equipment required

Dimensions, H×D×W

400×149×83 mm

Weight

2.7 kg

Power consumption

12V, 30W

Interface

2 Ethernet cables

Technical Specifications

Ability to capture texture

Yes

Colors

24 bpp

Angular field of view, H×W

43°×33°

3D resolution

up to 1.5 mm

Light source

flash bulb (no laser)

Video frame rate

up to 15 fps

3D point accuracy

up to 0.25 mm

Working distance

0.8—1.6 m

Exposure time

0.0002 s

3D accuracy over distance

up to 0.03 % over 100 cm

Linear field of view, H×W @ closest range

634×476 mm

Data acquisition speed

up to 4 000 000 points/s

Texture resolution

2.8 mp

Linear field of view, H×W @ furthest range

1268×952 mm

Multi-core processing

Yes

Output

Output formats

OBJ, PLY, WRL, STL, AOP, ASCII, PTX, E57,
XYZRGB

Output format for measurements

CSV, DXF, XML

Processing capacity

40 000 000 triangles
1GB RAM