

Desktop 3D Scanner

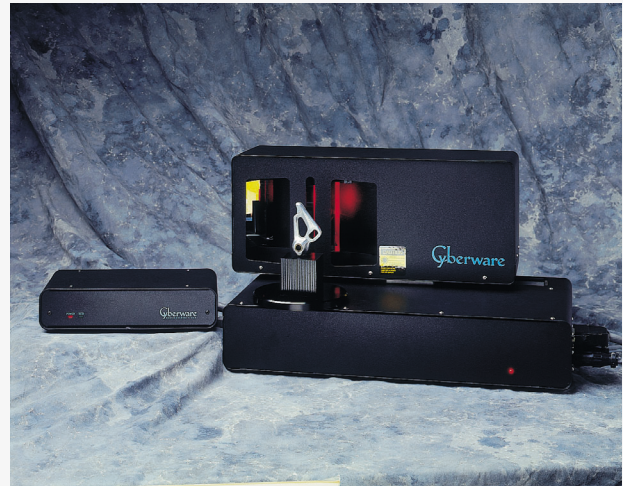
This compact, low-cost, high-resolution scanner fits easily on a desktop and makes rapid 3D scanning available for the most demanding research, medical, artistic or engineering projects.

Among the most versatile 3D scanners ever developed, Cyberware's Desktop (Model 15) scanner allows you to capture the shape of an endless variety of objects - all with a small system that fits easily on a desktop. The Model 15 is highly integrated to provide all the 3D scanning resources you need in one low-cost package.

The Desktop 3D scanner features a complete 3D scanning package - scanning unit, motion subsystem, and software - in an integrated format. With the addition of a graphics workstation, the system includes everything you need to make fast, high-quality scans.

In a few seconds, this scanner captures highly detailed 3D models that you can analyze, modify, and physically reproduce using automated milling machines or rapid-prototyping systems. The Desktop Model 15 scanner is ideal for supporting tasks such as; product design, CAD/CAM, research, animation and special effects for film, medical applications and reverse engineering.

Like Cyberware's other 3D scanners, the Desktop scanner uses laser video technology to capture an object's shape in about 17 seconds, without touching the object. The resultant 3D model is displayed instantly on a graphics workstation. The motion subsystem built into the scanner furnishes both cylindrical and linear scanning. The motion platform can rotate the object in



Ideal for scanning sculpted characters and other objects for computer animation, product prototypes, and for research applications.

front of the scanning unit, and the scanning unit can scan in a linear path across an object on the platform. These scanning patterns allow you to scan virtually any type of object up to 250mm × 150mm × 75mm (10" × 6" × 3") in size. In some cases larger objects can be scanned in parts and assembled using the CyDir software.

No other 3D scanning technology delivers the high speed and resolution offered by Cyberware products such as the Model 15, and never before has Cyberware packaged this advanced technology in such a compact, low-cost format. The Cyberware Model 15 makes rapid 3D scanning available for your most demanding research, medical, artistic, or engineering projects.

Scanner Specifications

MODEL 15 SCANHEAD

FIELD OF VIEW

X or Theta 250mm (9.84") or 360°
b (at minimum Z) 150mm (5.91")
Y (at maximum Z) ... 170mm (6.7")
Z 75mm (2.95")

SAMPLING PITCH

X or Theta Depends upon motion platform speed; 30 samples per second in X; typically 300µm - 1.0mm (0.012" - 0.040")
Y 300µm (0.012")
Z Depends upon surface quality; average of 50-200µm (0.002-0.008")

SAMPLING SPEED

14,580 points per second, digitized to X, Y, and Z components.

MODEL 15 MOTION SYSTEM

MOTION RANGE

X 0-250mm (0"-9.84") Servo-driven
Y 0
Z 0
Cylindrical (Theta) 0° -360° Servo-driven

POWER REQUIREMENTS

Input Voltage Selectable 100V, 120V, 220V, 240V, 47-63Hz

Power, Maximum 110W

SIZE

Width 73.8cm (29.5")
Height 27.5cm (11")
Depth 45cm (18")
Weight 13.6Kg (30 lbs)

GENERAL

Interface USB
Light Plane Vertical
Environment Normal office or lab conditions

OUTPUT FORMATS

File Format	Converter
Echo	CyScan / CySurf
CyScan	CyScan
PLY	CyScan / CySurf
3D Studio	ply23ds
OBJ	ply2obj
STL	ply2stl
ASCII	ply2asc
DXF	ply2dx
DXF (3D FACES)	ply2dx -f
IGES 106 124	ply2iges
VRML	ply2wrl
IGES 128 NURBS	CySurf
Inventor	ply2iv

Additional file format support is available. Contact Cyberware with your specific requirements.

The Cyberware data format is in the public domain, so it is easy to create your own special-purpose translation routines.

The DESKTOP 3D SCANNER BUNDLE includes:

The high-resolution Desktop 3D scan head, Model 15 motion platform, USB interface, power supply, cabling, online user guides and software. Software includes node-locked CyDir, Decimate, and scanning software, as well as file format translators. This bundle also includes in-factory training, a one-year return-to-factory warranty, technical support and software updates.



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