CRESCENT ENGINEERING

3DSYSTEMS

Sense™

Take your world from physical to digital with 3D Scanning

Sense 3D scanner
Capture your world in 3D

Sense is the only 3D scanner to deliver precise instant physical photography in full-color, so everyone can capture his or her scanable moments. Sense has a flexible scan size and can capture everything from a picture, perfect cake to a full-body selfie, processing data in seconds for an instantly 3D printable file. An intuitive interface makes it easy to scan and edit 3D printable files of objects large and small, while integration with Cubify and the Cube® 3D printer provides a complete path from physical to digital and back again.

COMPETITIVE ADVANTAGE

Most Capable, Highest Performance

Quality tracking and automatic object recognition to make capturing more detail and extracting precise targets from the busiest of backgrounds easier than ever.

Only full-color consumer 3D scanner optimized for 3D printing, meaning all scans are capture in full color and guaranteed 3D printable either on a PJP home 3D printer like Cube and CubePro or for Cloud Printing on 3D Systems Cubify ecosystem.

Largest scan range in its class with capability to scan as small as 6 inches cubed up to 10 feet cubed, at the affordable price of $399.

Platform Integration: Updated and Expanded

Key product in the consumer digital thread enabling easy capture and creation of 3D content for 3D printing with no design skills necessary.

Ideal tool for K-12 and University education classrooms and labs.

Sense software is now available in 12 standard languages, including French, Spanish and Simplified Chinese.

FEATURE	FUNCTION	BENEFIT
Versatile scan range in full-color	Allows users to be able to scan and capture objects both big and small from 6 in^3 to 10 ft^3	Some scanners are better at capturing small objects and some scanners are better at capturing big objects. This scanner can do it all, in full-color.
Optimized tracking and auto object recognition	Makes scanning faster and easier than ever.	Automatic object recognition makes scanning easier in crowded or busy areas much easier. With optimized tracking capabilities, the Sense almost never loses tracking and, if it is lost, it's much easier to regain it.
Software editing features	Quickly and easily edit your scans using the Sense software.	Make basic edits to the scan, including adjusting brightness and contrast, cropping, and solidifying.
Fully integrated and optimized for 3D printing	Scan, edit, print. Edit in more depth with Cubify Sculpt and go from digital to physical in minutes with the Cube 3D printer.	Sense generates water-tight models for 3D printing in STL, PLY and OBJ formats. Sculpt allows users to mash their scans to create functional pieces, validated for 3D printing. Users can upload scans to their Cubify Shelf and print directly to their Cube or get it CloudPrinted in Colorstone, Ceramix, and other materials.

TECHNICAL SPECIFICATIONS

SUPPORTED OS:
Windows 7® and up
Mac OS X 10.8 and up
SCAN VOLUME:
Min: 0.2m x 0.2m x 0.2m
Max: 3m x 3m x 3m

DIMENSIONS:
12.9(w) x 17.8(h) x 3.3(d) cm
OPERATING RANGE:
0.35m - 3m
FIELD OF VIEW:
H: 45° - V: 57.5° D: 69°

SPATIAL X/Y RESOLUTION @ 0.5m: 0.9mm
DEPTH RESOLUTION @ 0.5m: 1mm

Key features:

- **Scan small, scan large, scan it all** Sense 3D scanner scans small and large objects, people and scenes. The Sense 3D scanner has the most diverse scan range in its class with auto-optimized settings for small and large objects like a book or a motorcycle, heads to full bodies and scenes as large as 10 feet tall and wide.
- **Mash-up your world** Merge your scans in Cubify Sculpt™, the ultimate consumer software for editing STLs, mash-ups and organic modeling. Full integration between the Sense 3D scanner and Cubify Sculpt gives you the creative freedom to import your scans and combine them with other favorite designs.
- **Zero in on what matters** Automatic object recognition extracts precise targets from the busiest of backgrounds, scanning only the object you want.
- **Edit confidently** Sense 3D scanner software is intuitive, fast, accurate and easy to use. Scans process in seconds and can be cropped, enhanced and solidified for printable in just minutes. No design experience is necessary.
- **For your life on the go** Hand-held mobility gives you the freedom to scan spontaneously, everywhere you go.
- **Physical to digital and back** again Sense 3D scanner is fully integrated with Cubify.com and your Cube 3D printer. Scans can be uploaded directly for cloud printing with a variety of materials on Cubify.com, or sent directly to your 3D printer.

Scanner properties:

Dimensions	Operating Range	Color Image Size
17.8cm x 12.9cm x 3.3cm	Min 0.35m	240(w) x 320(h) px
Field of view	Max 3m	Warranty
H: 45° - V: 57.5° - D: 69°	Spatial x/y resolution @	1 year
Operating temp	0.5m 0.9mm	Scan Volume
10-40°C	Data interface USB 2.0 /	Min: 0.2 x0.2 x0.2m
Max power consumption	USB 3.0	Max: 3 x 3 x 3m
2.25 watts	Depth resolution @	Depth Image Size
	0.5m: 1mm	240(w) x 320(h) px

System Requirements:

PC	MAC
Intel® Core i5™ or equivalent processor	Intel® Core i5™ or equivalent processor
RAM: 2 GB minimum	RAM: 4 GB minimum
1280 x 1024 minimum screen resolution	Mac OS X 10.8 or later 64-bit O/S
4 GB available hard disk space	