Smart 3D Sensor - 3D Bin Picking : Cirrus 3D | Visio Nerf

Cirrus 3D: The 3D Smart Sensor

3D Visio Nerf Sensor

With the new VISIO NERF **3D sensor,** integration into your industrial process is simplified. **cirrus3D** is specifically designed to integrate the core of your installation without specific development.
Used as a fixed or mobile component, with or without **eyesberg3D * image processing software** (patented technology), **cirrus3D**allows the implementation of applications with vision / robotics of incomparable efficiency and very high quality. Dedicated to industrial use, these sensors are not very sensitive to the environment, dust, dirt or the variations of brightness and this in order to guarantee an unmatched reliability and robustness of your installations (IP 65).

Assembly, measurement, identification, location of single or bulk parts (bin picking) are industrial applications for which the **cirrus3D** range will bring you an excellent return on investment

Elements made in visio nerf
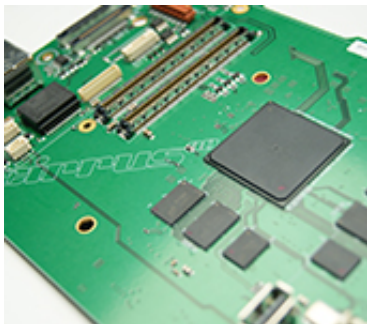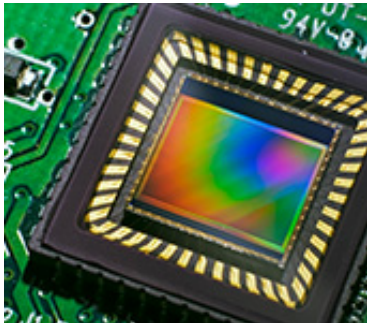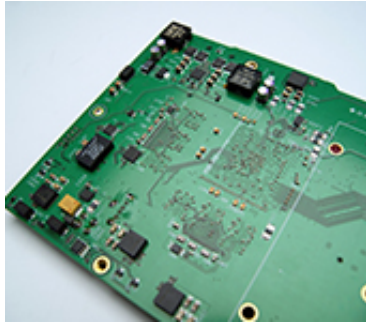
Cirrus 3D model	Vision Volume in mm (W x W x H)	Minimum working distance in mm	3D picture resolution in mm (Z	Cmos Sensor Resolution	Sensor dimensions in mm (W x W x H)	Sensor weight (Kg)
Cirrus 150	150 x 150 x 70	300	0,1	4 Mp	312 x 100 x 210	6
Cirrus 300	300 x 300 x 150	450	0,2	4 Mp	312 x 100 x 210	6
Cirrus 600	600 x 500 x 300	950	0,45	4 Mp	412 x 100 x 210	7
Cirrus 800	800 x 600 x 500	1250	0,9	4 Mp	412 x 100 x 210	7
Cirrus 1200	1200 x 1000 x 1000	1900	1,5	4 Mp	612 x 100 x 210	8
Cirrus 1600	1600 x 1200 x 1200	2500	1,8	4 Mp	812 x 100 x 210	10

Cirrus 3D in a few words

We offer a range of high-end scanners for industrial use.

Factory-calibrated and stand-alone "Plug & Work" products (integrated calculator).

High resolution images.

Ultra-fast scan: 0.2 seconds for 1 Million 3D points.

Comparison of a point cloud with a CAD file (optional)

3D vision system for robotic or non-robotic applications (bin picking, location, identification and measurement …)

Structured Light Scanning (Blue LED)

Water cooling system (optional).

Advantages

- Rapidly cost-effective
- High immunity to ambient light
- Limited safety problem (the laser is replaced by a proven LED technology)
- Simple implementation of the communication protocols
- Simple configuration of the entire eyesberg3D 3D vision application parameters (optional)
- Connectable, configurable and programmable via a WebServer or a direct screen / mouse interface.

Sensor Manager programming interface

A simple and intuitive programming interface for high quality point cloud.

High dynamic sensor to digitize work scenes with matt, glossy and multi-material parts

3D point cloud

Real part

Precision and quality of 3D points regardless of the height position of the parts in the work volume.

.

Real picture

.

3D point cloud

.

3D point cloud zoom

.