

Cambrian vision system datasheet

Data

<u>Precision values* +/-</u> <u>Standard camera module</u> <u>Custom camera module</u>

Prediction time < 200ms

Working distance 100 mm to 800mm (standard camera module), custom camera modules can

have higher working distances

Minimum size of parts 1mm * 1mm * 1mm

Part coverage standard cameras From 5mm * 5mm * 5mm to 200mm * 200mm * 200mm

For larger parts, we supply a different camera module.

3D technology Al/Neural network. No Structured light needed.

Parts coverage Wide range of parts incl. Black, Shiny and Transparent parts, including some

cable configurations.

Hardware

Cameras IDS UI-5880CP-C-HQ Rev.2 Image resolution 3088 x 2076, 6,41 Mpix

Frame rate 17.0 fps
Pixel size 2.40 µm

Optical area 7.410 mm x 4.980 mm Exposure time (minimum - 0.032 ms - 999 ms

maximum)
Computer unit

Operating system Linux Ubuntu 18.04

Network switch

Netgear 8 port GS308P

Cables

Ethernet CAT7 Flat cables

Power Supply

Cameras Power over Ethernet (PoE) IEEE

802.3af or 12 V - 24 V

^{*}These are standard values, can be improved with a custom camera module. Values are given for estimate only and cannot be guaranteed as they depend on the use case.



Power consumption 1.8 W - 2.9 W (per Camera)

Computer AC Adapter O/P: DC 19.5V/330W

Sizes/Dimension

Dimension camera 29.0 mm x 29.0 mm x 29.0 mm

Camera module dimension 100mm x 81mm x 32mm

Weight of the module 220g

Material AL

IP Class IP 30 (IP65/67 version can be

provided on request)

Screws M3 (provided with the package)

Computing module dimensions 283 x 268 x 139 mm

Computing module weight 4.2 kg

Environmental Data

Temperature range operation 0 °C to 55° C, passive cooling

Temperature range storage $-20 \,^{\circ}\text{C}$ to $60 \,^{\circ}\text{C}$ Humidity (relative, non-condensing) $20 \,^{\circ}\text{K}$ to $80 \,^{\circ}\text{M}$

^{*}These are standard values, can be improved with a custom camera module. Values are given for estimate only and cannot be guaranteed as they depend on the use case.