

Tested at































Implemented by



























Start exploring the capabilities of 3D vision

Focus on innovation,

rather than reinventing the wheel with this out of the box vision component.



3D perception



motion control



trajectory generation



grasp planning

The Pickit R&D kit contains

- The Pickit M 3D camera
- An extensive ROS interface for advanced functionalities and component interfacing
- A non-industrial downsized processor perfect fit for research
- Our main powerful software algorithms:
 - √ Pickit Teach for classic bin picking applications
 - Pickit Flex and Pattern for any pick and place tasks
- Optional: Integration with all major robot brands

"With Pickit, I could focus on my research on trajectory generation without having to spend time on the 3D perception side, which was not the subject of my research."



You can find all information and tutorials on our products at our online knowledge base: https://docs.pickit3d.com/

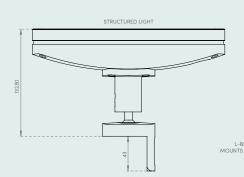
Now you can implement 3D vision at the price of 2D vision. Get a quote at sales@pickit3d.com

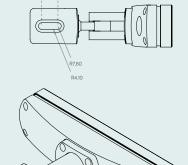
TEST AND LEARN FAST

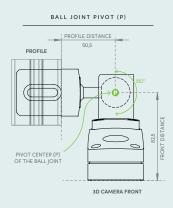
With our easy to use software and camera you can **test many setups** in **no-time.**

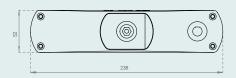
Pickit M

facts

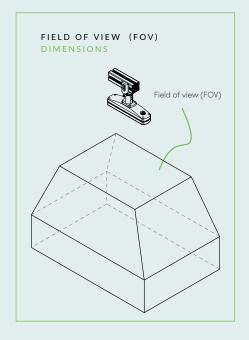


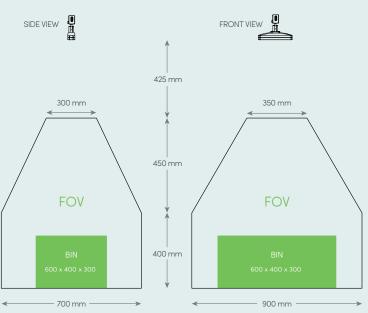






Minimum object size: 50 x 50 x 10 mm









CAMERA TECHNICAL SPECIFICATIONS

3D measurement method	Structured light
Image processing speed	30 fps
3D Camera accuracy	< 3mm
3D Camera repeatability	< 1mm
3D camera weight	1030 g
3D camera connection to PC	M12 (USB) - USB3
PC connection to robot	TCP/IP over Ethernet
Power supply	USB3 5VDC
Temperature	5°C to 40°C
Humidity	~95% @ 40°C (non-condensing)
IP rating	IP55
Vibrations	Operating, 2 Grms, 5-500 Hz, 3 axes
Conforms to	CE, FCC



WORKS WITH ROS





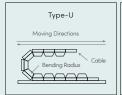
CAMERA CABLE TECHNICAL SPECIFICATIONS

10m

Industrial M12 camera connector

High-Flex / Continuous-Flex

- Type-U (R= 67,5mm 5.000.000 times)
- Type-S (R= 60mm 1.000.000 times)
- 90° Tick-Tock bending (R= 60mm 1.000.000 times)







PROCESSOR

Technical specifications

- Processor: 4 cores (8 threads) at 2.7 Ghz (up to 4.5 Ghz)
- Form factor: HTPC (117 x 51 x 112 mm)
- 19 inch server: rack compatible (1U)
- Temperature: Non-Operating -40°C to +60°C, operating (board) 0°C to 50°C, operating (system) 0°C to 35°C
- Vibrations:
 - 5~Hz to $20~Hz: 0.001g^2/Hz$ sloping up to $20Hz@0.01g^2/Hz$
 - 20 Hz to 500Hz: 0.01 g^2/Hz (flat) Input acceleration 2.2 g RMS
- Power supply: 12-19VDC 65W
- Humidity:The operating and non-operating environment must avoid condensing humidity, see this article for more information
- Weight: 1.3 kg

OPTIONAL: USE PICKIT WITH THE ROBOT OF YOUR CHOICE



