### Pick-it M-HD Camera Field of view

To be visible for Pick-it, all parts or items of interest must be inside the **field of view** (FOV) of the 3D camera.

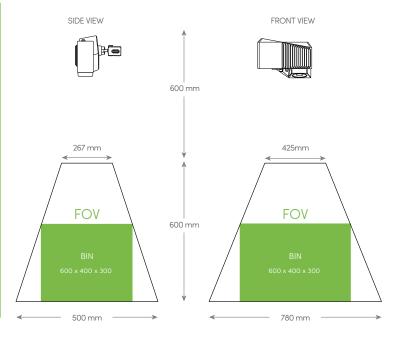
The **region of interest** (ROI) can be seen as a 'bounding box' that fits within the FOV of the 3D camer a. This box defines where the actual application takes place. You can define this ROI in the Pick-it software.

The possible dimensions of the ROI depend of the distance between the 3D camera and your ROI.

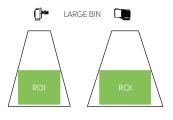
Bringing your application closer to the camera will improve image quality and shrink the potential ROI volume.

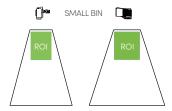
Bringing your application further from the camera will lower image quality and enlarge the potential ROI volume. FIELD OF VIEW (FOV)
DIMENSIONS

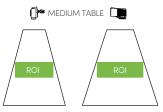
Field of view (FOV)



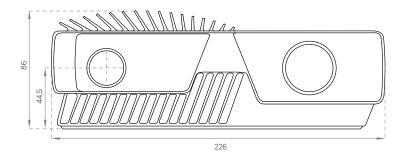


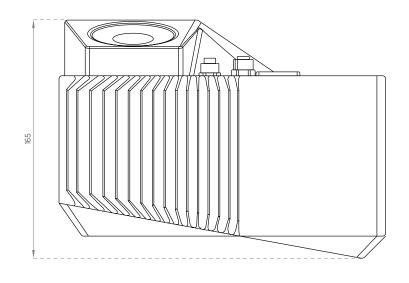


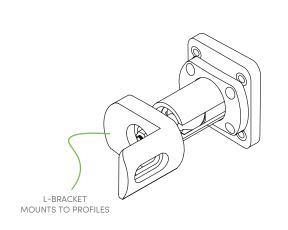


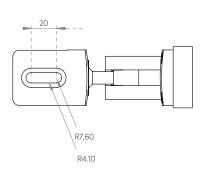


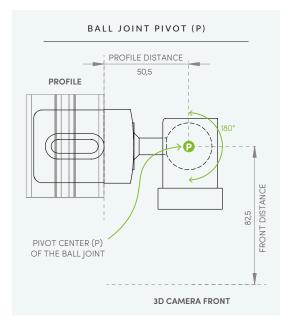
## Pick-it Camera Dimensions











All dimensions in mm

### Pick-it Facts







### CAMERA TECHNICAL SPECIFICATIONS

3D measurement method	Structured light
Image processing speed	≥ 10 Hz (100ms snapshots)
3D Camera accuracy	0.1mm
3D Camera repeatability	< 1mm
3D camera weight	2 kg
3D camera connection to PC	M12-8 (USB) - USB3
PC connection to robot	TCP/IP over Ethernet
Power supply	M12-5 24VDC
Temperature	10°C to 40°C
IP rating	IP65
Vibrations	5G Sinus, 25G Shock
Conforms to	CE, CB, EN6950, FCC class A

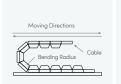
### CAMERA CABLE TECHNICAL SPECIFICATIONS

### 5m

### 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**

### Power consumption

- While turned off: 25W
- Booting: 115W
- Idle: 70W
- Heavy processing: 160W

### **Technical specifications**

- Processor: 6 cores (12 threads) at 3.7 Ghz
- 19 inch server: rack compatible (2U)
- Temperature: -20°C to 70°C
- Vibrations: Operating, 5 Grms, 5-500 Hz, 3 axes
- IP rating: IP54
- Power supply: 9-32V DC 160W
- Humidity: ~95% @ 40°C (noncondensing)

WORKS WITH YOUR ROBOT

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UNIVERSAL ROBOTS

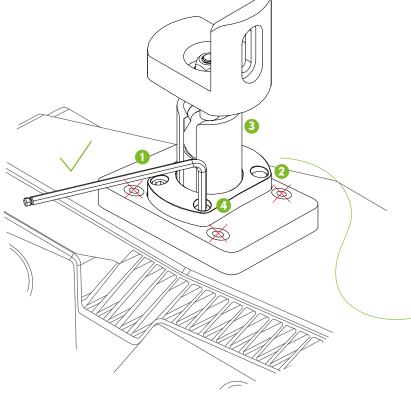




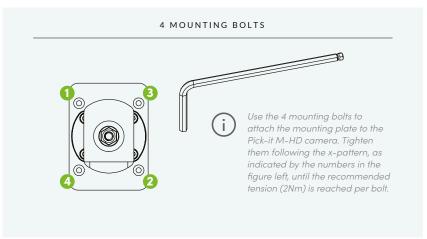


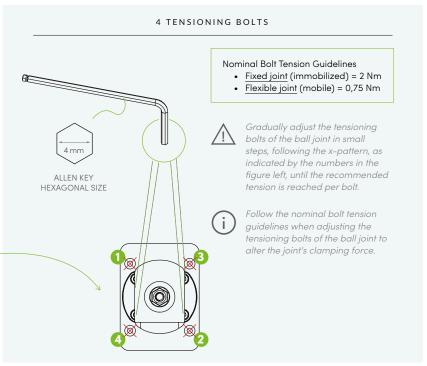
support.pickit3d.com

## Ball Joint Tension



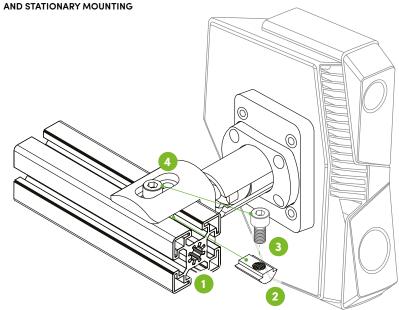
Adjust the <u>4 tensioning bolts</u> as indicated at the right to alter the ball joint tightness and obtain a fixed joint or a flexible joint depending your application and needs.



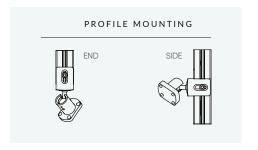


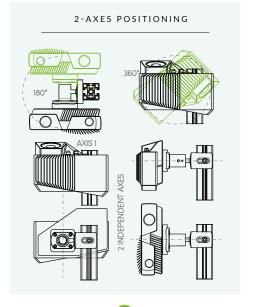
# Stationary Mounting

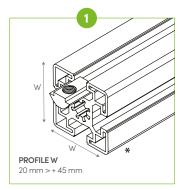
SOFTWARE SUPPORTS ON-ROBOT MOUNTING

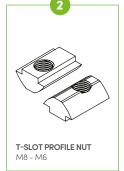




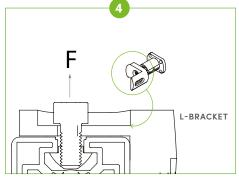












Profile type shown above is for illustrative purposes only. A wide range of profile types is supported by the L-bracket. Contact us for further info.