



INSTANT DIMENSION AND SHAPE DATA CAPTURE

The need for accurate dimensional and shape data is critical for efficient storage, packing and shipping operations in eCommerce supply chain, 3PL, and shipping workflows.

The QBOID Perceptor M2 takes the Android logistics computer to a new level of functionality. Integrating multiple 3D and 2D image sensors with a 1D-2D barcode scan engine, novel computer vision software instantly determines an item's LxWxH cube dimensions and shape (cuboidal or irregular), all in a handheld form factor that conveniently and efficiently deploys dimension capture to any warehouse or operator location.

The operator is guided by an intuitive and responsive touchscreen UX, providing real-time detection, tracking and highlighting of the target item. The user experience is simple: similar to taking smartphone pictures.




The M2's Android 10 OS can run any other logistics Android application. Furthermore, developers can easily integrate the dimensioning UI into existing Web App or native Android applications, via the simple M2 API.

PERCEPTOR M2 Features

- First mobile Android logistics computer to combine powerful 3D vision sensors and real-time computer vision dimensioning and shape analysis
- Dimension cube results in 0.1 seconds
- Familiar smartphone app UX with intuitive real-time AR preview/assistance, reduces operator training and task cycle time
- Built in industrial 1D-2D barcode scan engine with LED aiming and illumination
- Integrate M2's dimensioning workflow with existing native Android App or Web App, using the QBOID simple M2 API
- Wi-Fi and HTTP(S) REST API upload results to 3rd party WMS/ERP server via Wi-Fi, or sync to the QBOID Cloud(beta)



perceptor m2

| KEY SPECIFICATIONS | | Real Time API Record Upload | | | | | | | | |
|---|---|--|---|--|---|------------|--------------|---|---|---|
| Cuboidal Accuracy | +/- 5mm | UTC and Local Time stamp generated for each dim record | 2020/01/01 10:05:19 | | | | | | | |
| Irregular Accuracy | +/- 10mm | | | | | | | | | |
| Size | 6.9 x 1.4 x 3.6 inches | | | | | | | | | |
| Weight | 440 grams | Dim L x W x H result | 132 X 131 X 134 mm | | | | | | | |
| Operating system | Android 10 AOSP | | | | | | | | | |
| Processor | Qualcomm SDM660 | | | | | | | | | |
| 3D Sensor 1 | Structured Light 850nM | Barcode 1D/2D scan read | 420950709400 109898642892 605572 | | | | | | | |
| 3D Sensor 2 | Time of Flight 940nM | | | | | | | | | |
| Barcode scan engine | Zebra SE4100 1D-2D Scanner | | | | | | | | | |
| RAM | 4GB | Weight (via Bluetooth) | 85g | | | | | | | |
| Flash Memory | 64GB | | | | | | | | | |
| Display | 5.99" capacitive touchscreen | | | | | | | | | |
| Touchscreen | 7H Hardness – Finger/Glove Touch Support | Item shape analysis | CUBOIDAL, IRREGULAR | | | | | | | |
| Active cooling | 15K RPM blower micro fan | | | | | | | | | |
| External Connector | USB 3.0 Type C OTG Port | | | | | | | | | |
| Speaker | 103dB at 10cm | Property selections (Four customer programmable keys) | FRAG=L1 CASE=YES GLS=YES HZMT=NO | | | | | | | |
| Battery | 5000 mAh (Certifications: UL/UN38.3/MSDS) | | | | | | | | | |
| Wireless | 802.11 a/b/g/n/ac/d/h/i/r/k/v/w 2.4GHz/5GHz, 2x2 MU-MIMO | | | | | | | | | |
| Bluetooth | 5.0 BLE, Class 2 | Optional Text Entry via Android keyboard or Additional Barcode Scan(s) | case level UPC barcode | | | | | | | |
| GPS | Available on future LTE models | | | | | | | | | |
| IMU | Accelerometer / Gyro / Compass | | | | | | | | | |
| Other features | Vibrator, Light sensor, HDMI | Image Bundle (optional): - item with dimension box - original scene - item background removed | <table><tr><td>image</td><td>imagecolor</td><td>segmentation</td></tr><tr><td></td><td></td><td></td></tr></table> | | image | imagecolor | segmentation |  |  |  |
| image | imagecolor | | | | segmentation | | | | | |
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| Operating Temp | +5° to 35°C | | | | | | | | | |
| IP Rating | IP65 | | | | | | | | | |
| Drop Rating | Semi-rugged: 1.0m drop to concrete | | | | | | | | | |
| ESD Rating | Contact: +/-8kV, Air +/-15kV | | | | | | | | | |
| Certifications | CE, WEEE, UN38.3, RoHS CA65, IC, FCC Part 15B, Bluetooth SIG | | | | | | | | | |



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