perceptor m2

qboid
www.qboid.ai

Instant dimension and shape data capture

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

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 barcoding 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 immediately deploys dimension capture to any warehouse or operator location.

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

The M2 can run other Android applications, including integrating our dimensioning UI into your existing Web App or native Android applications, via our simple 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 cam app UX with intuitive real-time AR preview, reduces operator training and task cycle time

- Built in industrial 1D-2D barcode scan engine with aiming and illumination LED

- Integrate M2's dimensioning workflow with your native Android App or Web App, using our simple Android API

- Wi-Fi and HTTP(S) REST API upload results to WMS/ERP server via Wi-Fi. Or download CSV via USB-C port

3 EASY STEPS

1. SCAN BARCODE

BARCODE:
0 12345 67890 1

2. TOUCH TO DIM

DIM:
L10 W15 H3
SHP:
Irregular
BCD:
012345678901

3. UPLOAD RESULTS

DIM:
L10 W15 H3
SHP: Irregular

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- 1D - 2D Barcode Scan Engine
- Wi-Fi and Bluetooth
- RGB High Resolution 13MP Sensor
- Barcode Scan Button
- Power Button
- Volume
- IP65 rated case
- Speaker

- RGB-D (3D) sensor fusion module optimized for logistics use cases
- Active cooling maintains system calibration
- Barcode Scan Button 3D Dim Button
- Removable 5000mAh hot swap battery
- USB-C and Charging Dock Pins

KEY SPECIFICATIONS**

Cuboidal Accuracy	+/- 5mm
Irregular Accuracy	+/- 10mm
Size	6.9 x 1.4 x 3.6 inches
Weight	440 grams
Operating system	Android 10 AOSP
Processor	Qualcomm SDM660
3D Sensor 1	Structured Light 850nM
3D Sensor 2	Time of Flight 940nM
Barcode scan engine	Zebra SE4100 1D-2D Scanner
RAM	4GB
Flash Memory	64GB
Display	5.99" capacitive touchscreen
Touchscreen	7H Hardness – Finger/Glove Touch Support
Active cooling	15K RPM blower micro fan
External Connector	USB 3.0 Type C OTG Port
Speaker	103dB at 10cm
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
GPS	Available on future LTE models
IMU	Accelerometer /Gyro / Compass
Other features	Vibrator, Light sensor, HDMI
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

Real Time API Record Upload

UTC and Local Time stamp generated for each dim record	2020/01/01 10:05:19
Dim L x W x H result	132 X 131 X 134 mm
Barcode 1D/2D scan read	420950709400 109898642892 605572
Weight (via Bluetooth)	85g
Item shape analysis	CUBOIDAL, IRREGULAR
Property selections (Four customer programmable keys)	FRAG=L1 CASE=YES GLS=YES HZMT=NO
Optional Text Entry via Android keyboard or Additional Barcode Scan(s)	case level UPC barcode
Image Bundle (optional): - item with dimension box - original scene - item background removed	image imagecolor segmentation

Specifications are preliminary and may change

Contact QBOID at INFO@QBOID.AI

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