qboid perceptor m2

AWM

Instant dimension and shape data capture

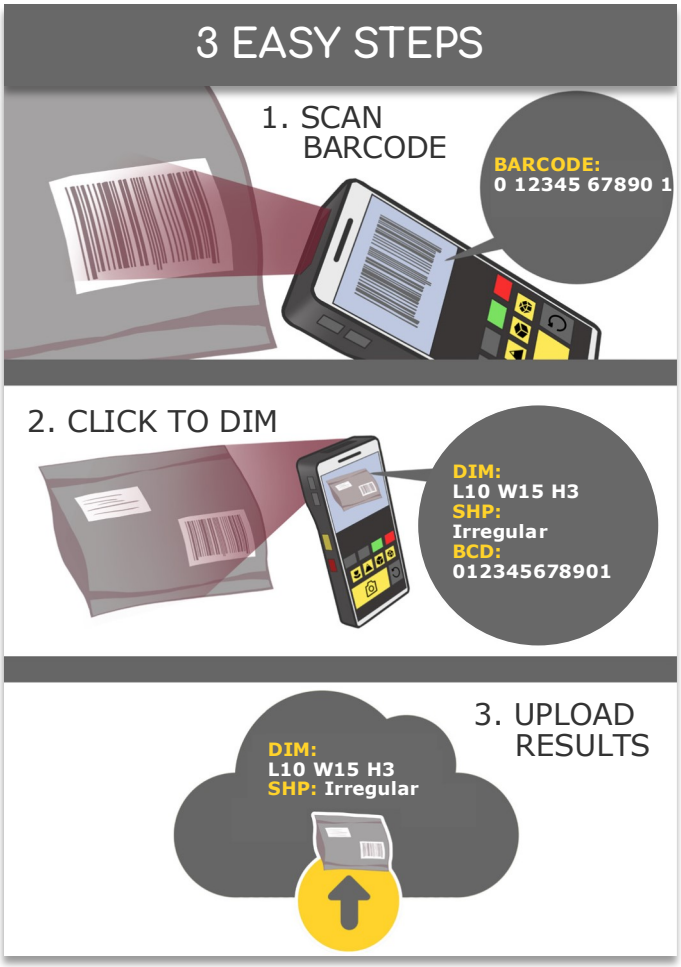
The need for accurate dimensional and shape data is critical for efficient storage, packing and shipping operations in the eCommerce supply chain, 3PL, and warehousing sectors.

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 scanning engine, novel computer vision software instantly determines an item's LxWxH cube dimensions and shape (cuboidal or irregular), all in a lightweight handheld form factor that deploys dimension capture easily to any warehouse location.

The operator is guided by an intuitive and responsive touchscreen user experience, providing real-time feedback. The user experience is simple: similar to taking smartphone pictures. The M2 can also be unlocked to run other enterprise Android applications.

PERCEPTOR M2 Features

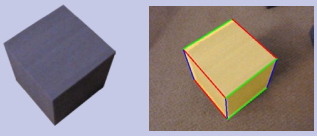
- First mobile Android logistics computer to combine powerful 3D vision sensors and real-time computer vision dimensioning data capture
- Dimension and Shape in 0.1 seconds
- Familiar smartphone UX with real-time AR preview, reduces operator cognitive load and cycle time
- Built in industrial 1D-2D barcode module with aiming and illumination LED
- Digital shape analysis provides insight to downstream storage or packing processes (item is cuboid or irregular)
- WiFi and REST API instantly upload results to networked WMS or database server. Or download results via USB-C



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, RoHS, FCC Part 15B: 2AYQM-M2W01

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 scan read	420950709400 109898642892 605572
Weight (via Bluetooth)	85g
Item shape analysis	CUBOIDAL, IRREGULAR
Property selections (4 programmable keys)	for example: FRAG=L1 CASE=YES GLS=YES HZMT=NO
Optional Text Entry via Android keyboard or Barcode scan	for example: case level UPC barcode
Image Pair: - item with bounding box - item with background removed	

***Specifications are preliminary and may change*