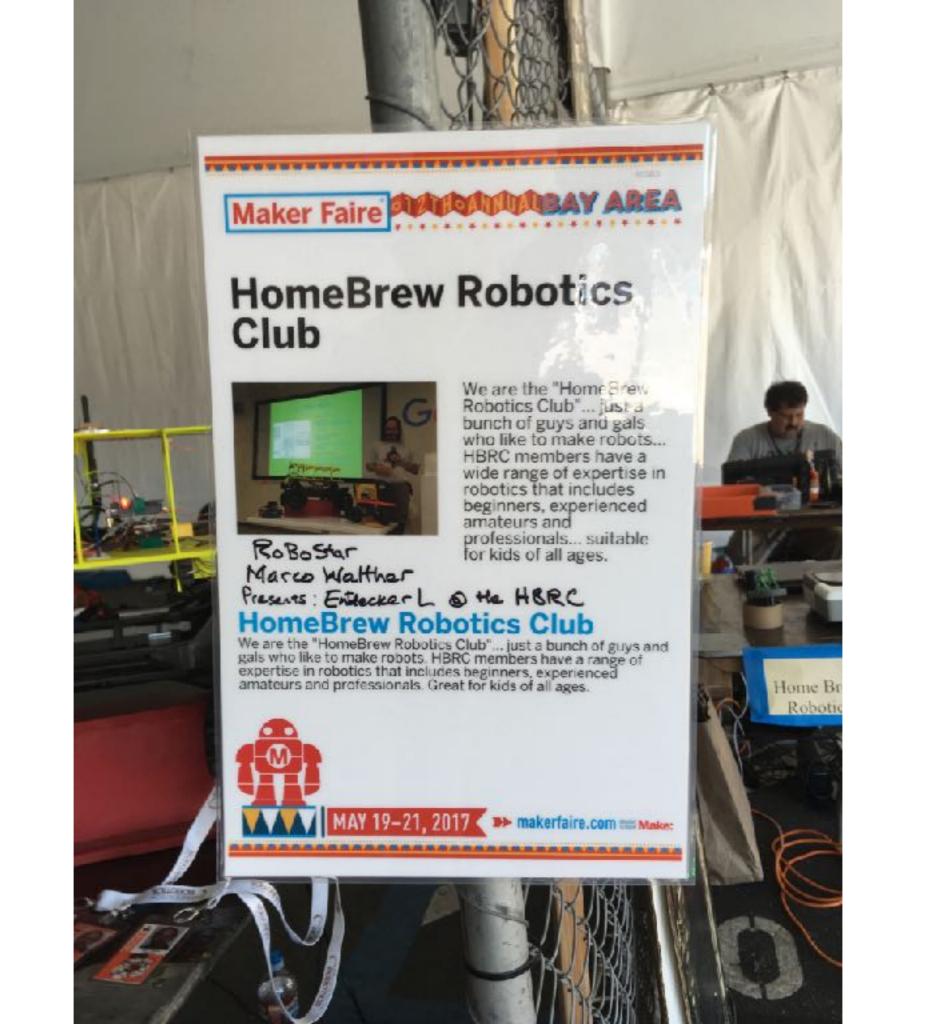


Intel Euclid



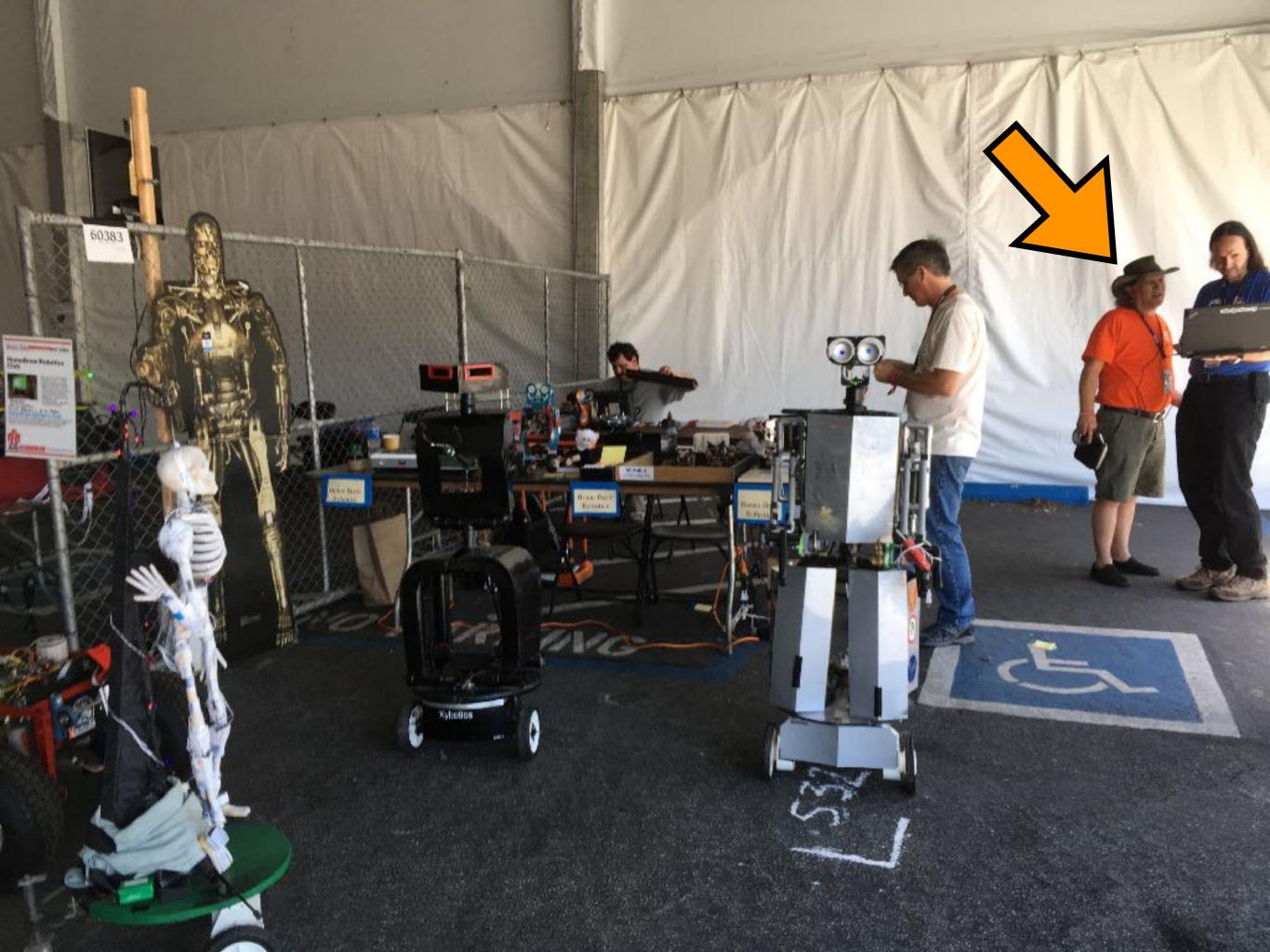






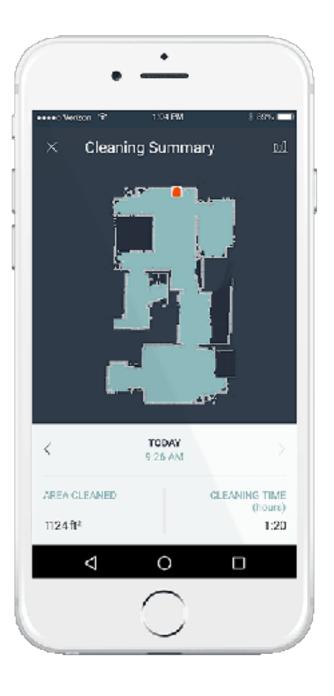






COLO robotics®

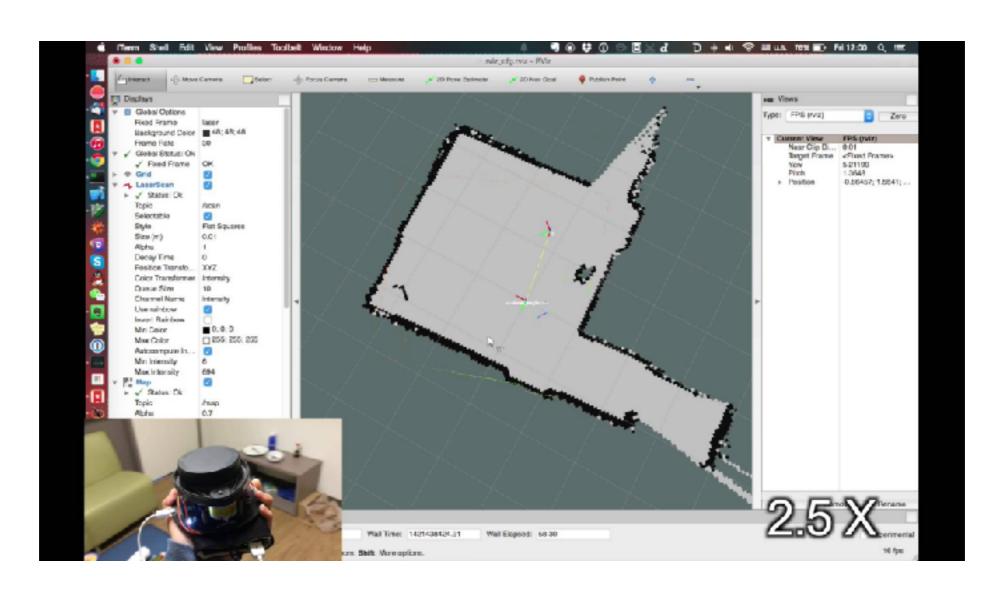


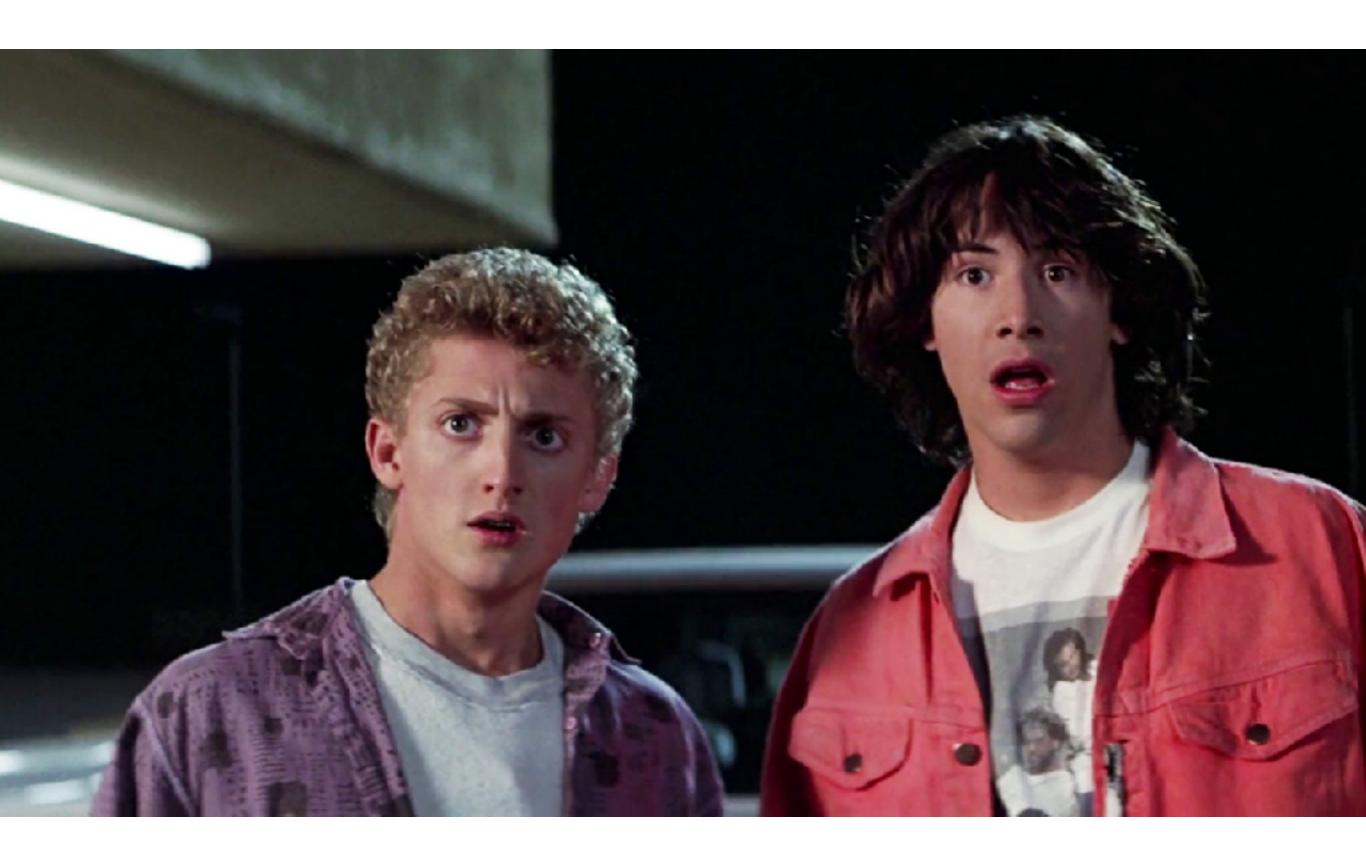




EROS+





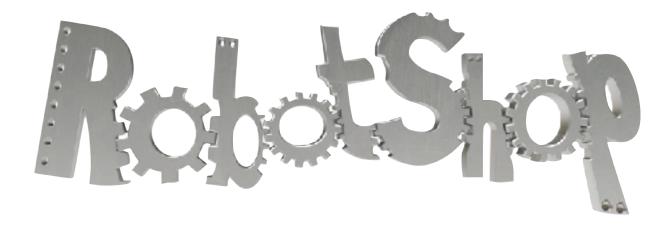


























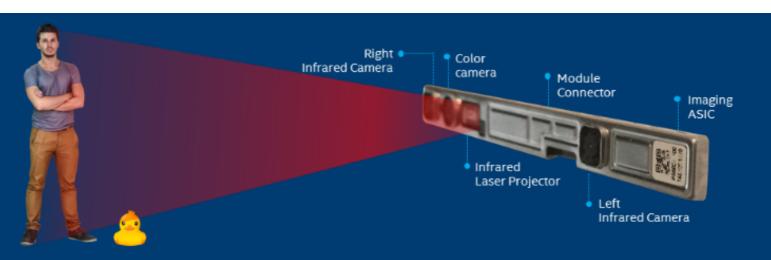




Intel® RealSense™ Technology

http://www.intel.com/realsense

ACTIVE IR STEREO VISION TECHNOLOGY



CAPTURE

Project invisible light pattern on low texture surfaces like plain walls

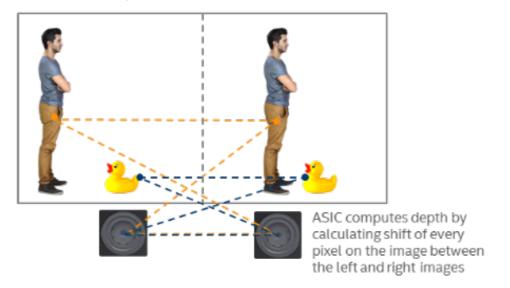




Each camera sees a slightly different viewpoint

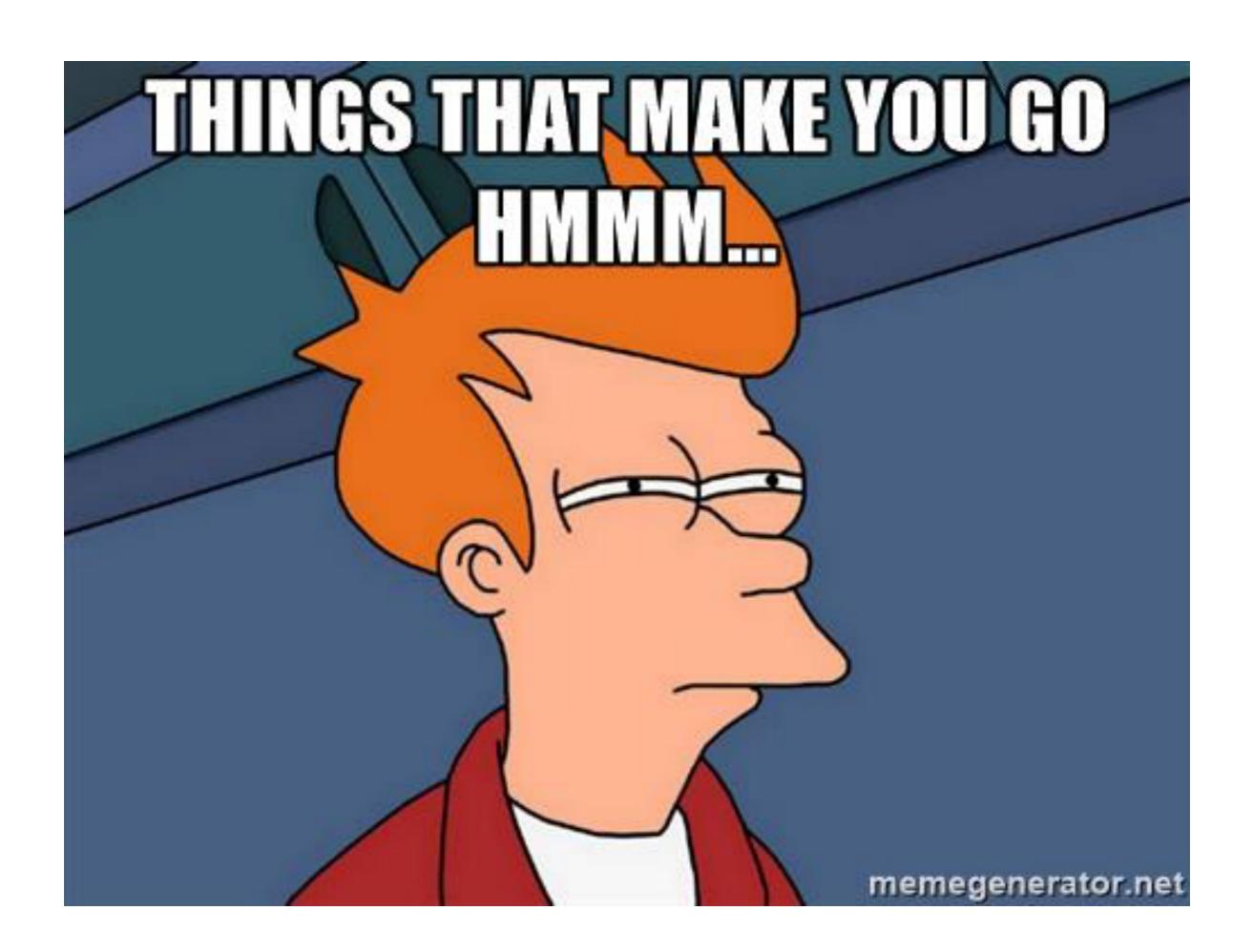
SEARCH

Closer objects shift more than further away objects









Available Today: Intel® RealSense™ Robotic Developer Kit







INTEL® EUCLID™ DEVELOPER KIT

Featuring Intel® RealSense™ Technology

BLEEDING EDGE

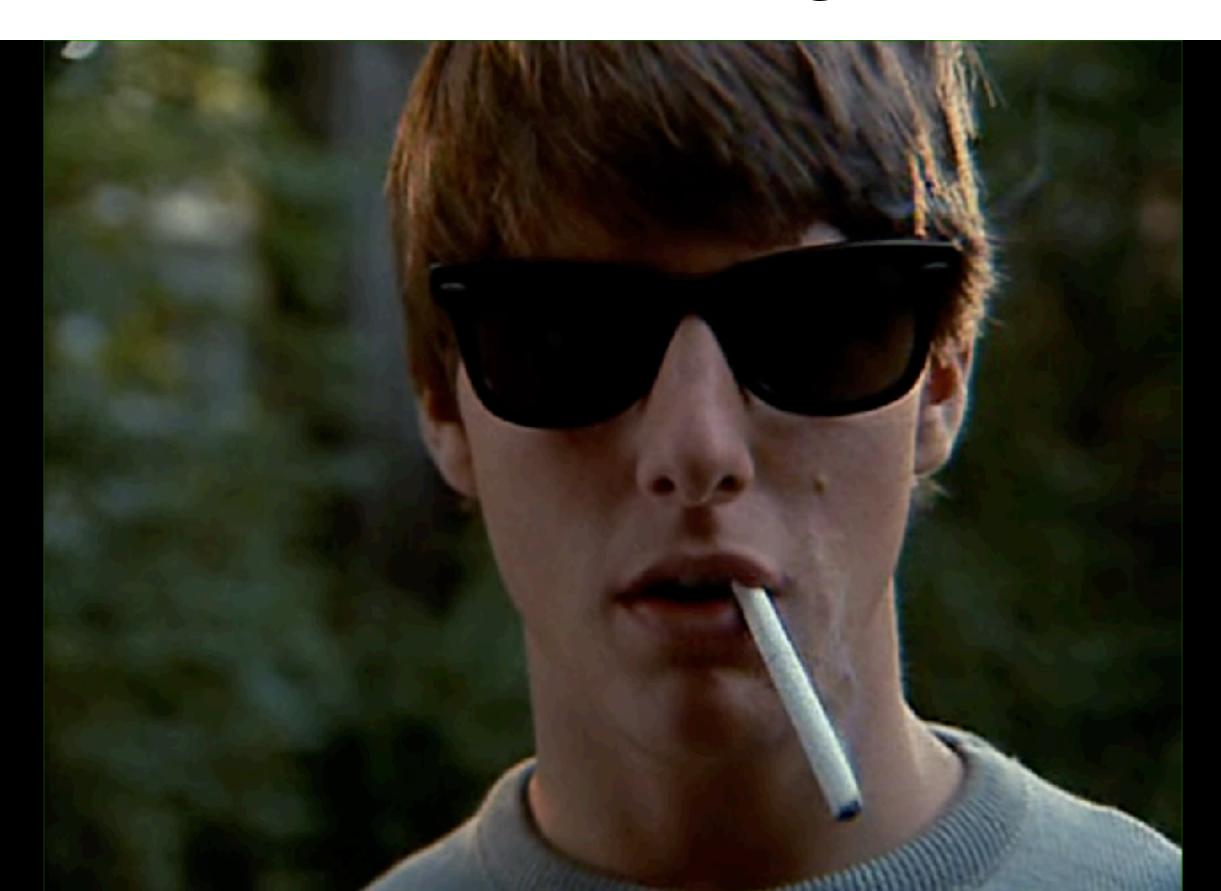
Technology that is not yet proven and may be unreliable, difficult to use, and challenging to learn. The user may end up figuratively bloodied. More extreme than "leading edge."

"Users of a bleeding edge technology have to be both adventurous and patient."

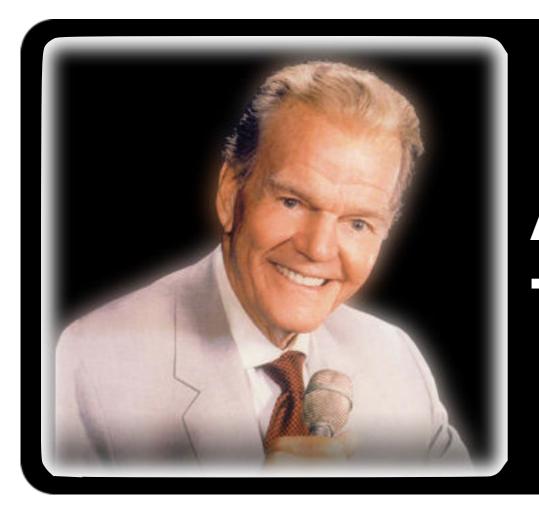




"Sometimes you just gotta say..."







And now,
The rest of the story...

Embedded PC

Intel Atom x7-Z8700
Quad Core CPU
Burst Speed 2.4GHz
Intel Gen8 LP GPU

4GB DDR3 RAM

WiFi 802.11 a/b/g/n

Bluetooth 4.0

Feature	Specification
SOC	Intel® Atom™ x7-Z8700
	Quad Core CPU
	Burst Speed 2.4GHz
	Intel Gen8 LP GPU
Memory	Single Channel, x64, LPDDR3-1600, 4GB
PMIC	Intel Whiskey Cove
WLAN	802.11 a/b/g/n, 1x1 DB
Bluetooth	BT4.0

But Wait... THERE

GPS

32GB eMMC Flash Micro SD Card Reader

3D Camera RGB Camera Fisheye Camera

Speaker
Dual Microphones

Feature	Specification
SOC	Intel® Atom™ x7-Z8700
	Quad Core CPU
	Burst Speed 2.4GHz
	Intel Gen8 LP GPU
Memory	Single Channel, x64, LPDDR3-1600, 4GB
PMIC	Intel Whiskey Cove
WLAN	802.11 a/b/g/n, 1x1 DB
Bluetooth	BT4.0
GPS	Independent GPS
Storage	eMMC MLC 5.0 32GB
	BIOS 8MB Micro SD card reader Up to 128GB
Imaging	Intel RealSense 3D camera
	Intel RealSense Motion camera
Audio	Audio Codec - Low power, dual I2S interface
	Speaker - X1,MONO mode,1W D-MIC - X3, two always on



Accelerometers

Gyros

Compass

Ambient Light & Proximity

Barometer, Altimeter

Temperature, Humidity

Feature	Specification
SOC	Intel® Atom™ x7-Z8700
	Quad Core CPU
	Burst Speed 2.4GHz
	Intel Gen8 LP GPU
Memory	Single Channel, x64, LPDDR3-1600, 4GB
PMIC	Intel Whiskey Cove
WLAN	802.11 a/b/g/n, 1x1 DB
Bluetooth	BT4.0
GPS	Independent GPS
Storage	eMMC MLC 5.0 32GB
	BIOS 8MB Micro SD card reader Up to 128GB
Imaging	Intel RealSense 3D camera
	Intel RealSense Motion camera
Audio	Audio Codec - Low power, dual I2S interface
	Speaker - X1,MONO mode,1W
Sensor	D-MIC - X3, two always on Sensor Hub ISH
	Accelerometer
	Digital Compass Gyro
	Ambient Light Sensor & Proximity
	Environmental sensors Barometer/Altimeter/Humidity/Temperature
	sensing Thermal sensor NTC thermistor x4
	Thermal sensor NTC thermistor x4

AS SEEN ON But Wait...



LEDs

Two Buttons

Fan

Micro USB 3.0

Standard USB 3.0

Micro HDMI

UART

Feature	Specification
SOC	Intel® Atom™ x7-Z8700
	Quad Core CPU
	Burst Speed 2.4GHz
	Intel Gen8 LP GPU
Memory	Single Channel, x64, LPDDR3-1600, 4GB
PMIC	Intel Whiskey Cove
WLAN	802.11 a/b/g/n, 1x1 DB
Bluetooth	BT4.0
GPS	Independent GPS
Storage	eMMC MLC 5.0 32GB BIOS 8MB
Imaging	Micro SD card reader Up to 128GB Intel RealSense 3D camera
Imaging	Intel RealSense Motion camera
Audio	Audio Codec - Low power, dual I2S interface Speaker - X1,MONO mode,1W D-MIC - X3, two always on
Sensor	Sensor Hub ISH
	Accelerometer
	Digital Compass Gyro
	Ambient Light Sensor & Proximity
	Environmental sensors Barometer/Altimeter/Humidity/Temperature
	sensing Thermal sensor NTC thermistor x4
LEDs	Power On LED x1, Green, Power on/off indicator
	Charging LED x1, Red, Lower power and charging indicator
Buttons	Power On/Off Soft Key x2
	55.7.7.Z
Fan	Fan x1
I/O	Micro USB3.0 x1
	Standard USB3.0 type A x1
	Micro HDMI - HDMI1.4b, 4K2K@30fps UART(Micro-USB2.0 CONN) x1
	ONICTORIO ODDELO CONNY) XI

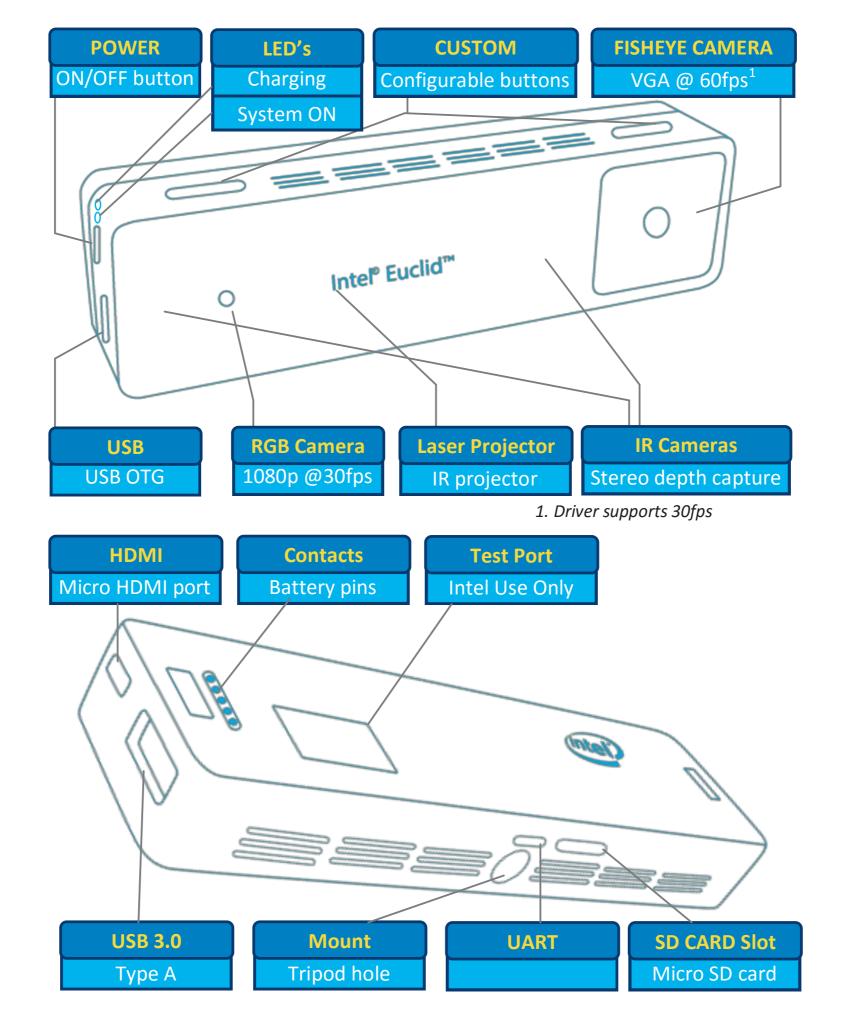


Battery Battery Charger I2C, SPI Linux with ROS

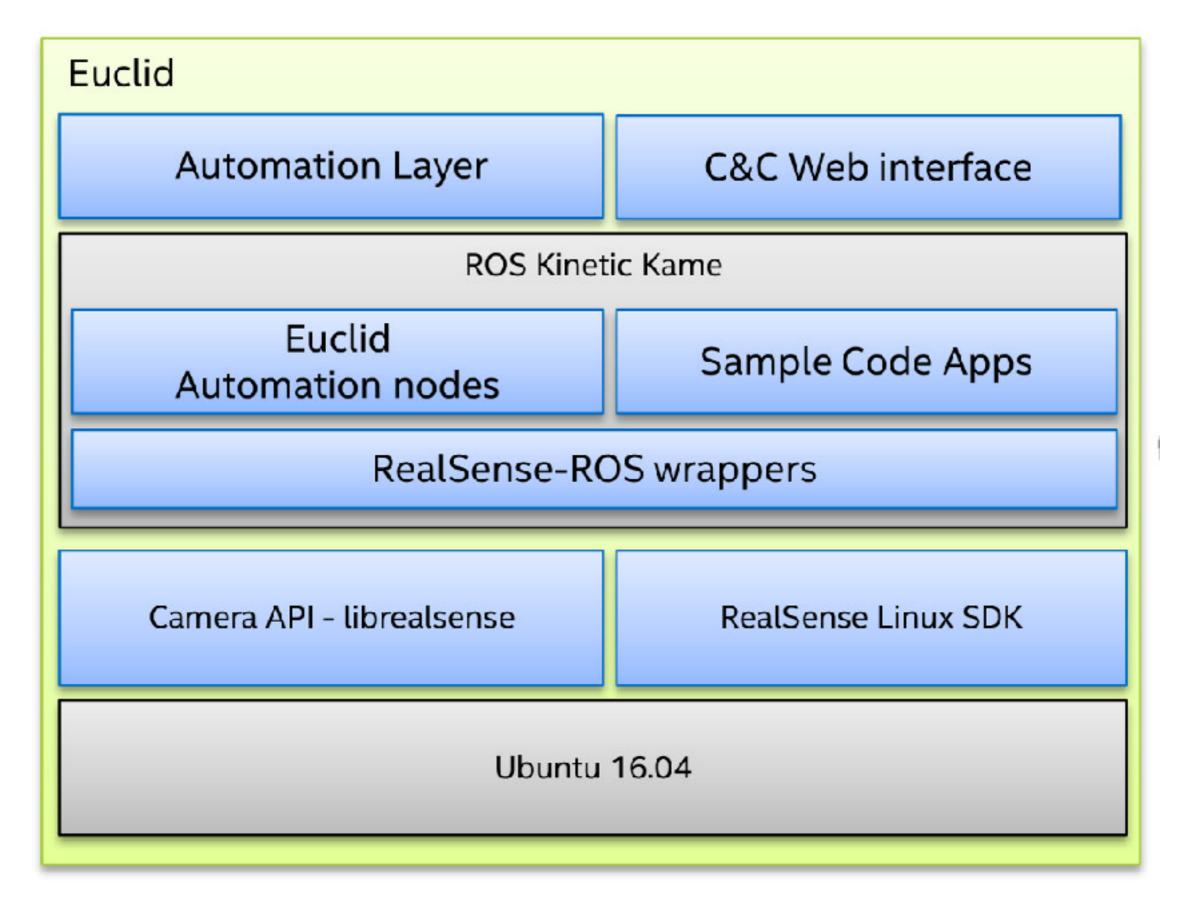
and even more!



Feature	Specification
SOC	Intel® Atom™ x7-Z8700
	Quad Core CPU
	Burst Speed 2.4GHz
	Intel Gen8 LP GPU
Memory	Single Channel, x64, LPDDR3-1600, 4GB
PMIC	Intel Whiskey Cove
WLAN	802.11 a/b/g/n, 1x1 DB
Bluetooth	BT4.0
GPS	Independent GPS
Storage	eMMC MLC 5.0 32GB BIOS 8MB
. .	Micro SD card reader Up to 128GB
Imaging	Intel RealSense 3D camera Intel RealSense Motion camera
Audio	Audio Codec - Low power, dual I2S interface Speaker - X1,MONO mode,1W D-MIC - X3, two always on
Sensor	Sensor Hub ISH Accelerometer Digital Compass Gyro Ambient Light Sensor & Proximity Environmental sensors Barometer/Altimeter/Humidity/Temperature sensing Thermal sensor NTC thermistor x4
LEDs	Power On LED x1, Green, Power on/off indicator Charging LED x1, Red, Lower power and charging indicator
Buttons	Power On/Off Soft Key x2
Fan	Fan x1
I/O	Micro USB3.0 x1 Standard USB3.0 type A x1 Micro HDMI - HDMI1.4b, 4K2K@30fps UART(Micro-USB2.0 CONN) x1
Battery/Chargin	Battery - 1S1P,3.8V, 2200mAh
g	Charging - DC IN through Micro-USB3.0 CONN, 5V/3A
Debug Hook	LPC,USB debug,UART,SPI,I2C
OS	Linux
Accessories	DC-IN power adapter box USB 5V/3A power adapter Micro USB3.0 cable Micro HDMI cable Adaptors to UK/EU
Others	Tripod hole



Software





Cameras + Monitor IMU + Monitor rViz Point Cloud SLAM + rViz Teleop Wander