SoftKinetic

The Interface is You

SOFTKINETIC OVERVIEW

SoftKinetic | Licensing End-to-End Depth Sensing Solutions

We License Core Technologies

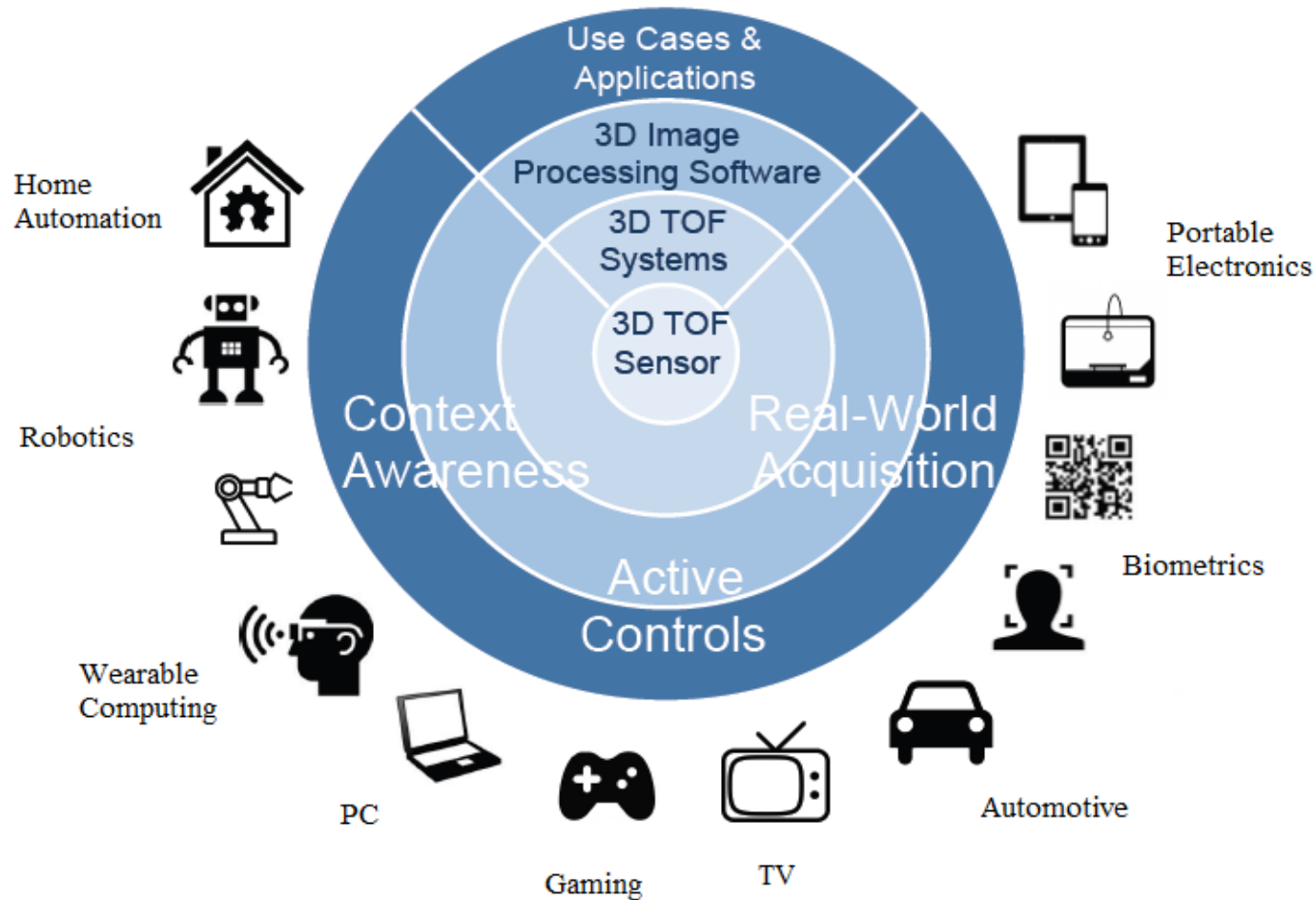We license **DepthSense Time-of-Flight (TOF) sensor technology**

We license **DepthSense-based 3D camera and module reference designs** to OEMs and ODMs

We license **3D middleware technology (Gesture, Object Detection, etc.)**

We Sell Standard Products

We sell Depth Cameras and Software Development Kits to developers, OEMs and ODMs

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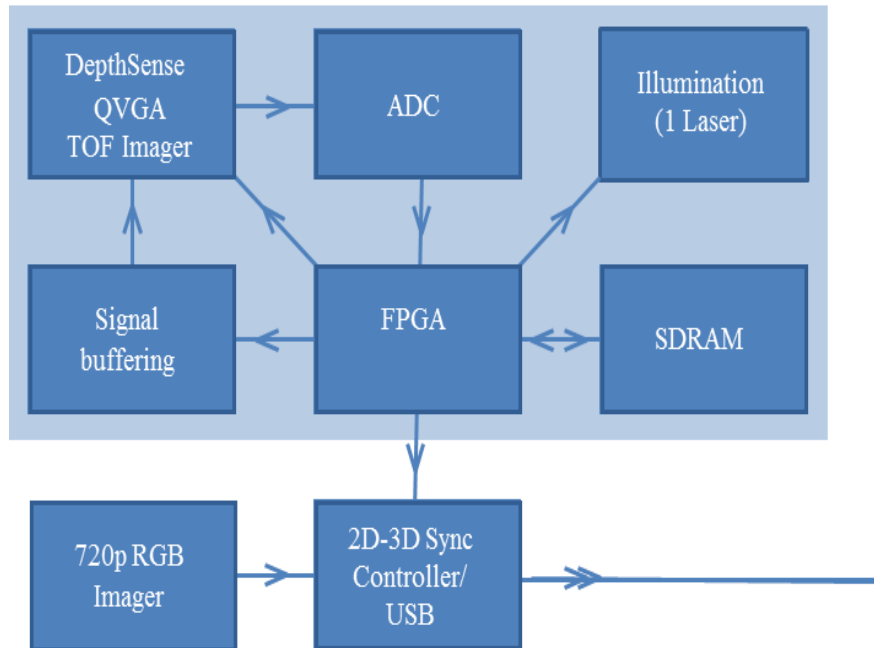# 3D Imaging Use Cases and Markets

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SoftKinetic Module Roadmap

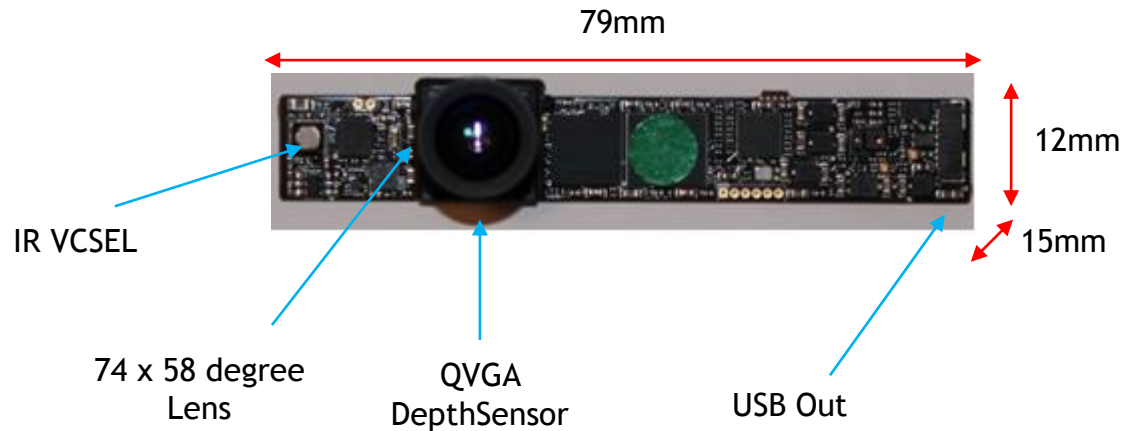Modules have a short range (15cm-1m), Mid Range (70cm~3m) and Long Range (5M) modes

Camera		Status	Camera/ Module Size	Lens FOV in Degrees (H x V)	Depth Sensor
DS325 **(Development Platform)**		Available	10.5cm (W) x 3cm (H) x 2.3cm (D)	74 x 58	QVGA (76,800 depth points)
DS536-A		Samples to approved customers	79mm (H) x 12mm (V) x 12mm (Z-Height)	74 x 58	QVGA (76,800 depth points)

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DS325 Specifications

TOF Sensor	QVGA-A (320x240)
FOV (HxV)	74x58
Illumination	Single Laser
Range	Short Range Only: 15cm-1m
RGB	
Resolution	HD 720p
FOV (HxV)	74 x 58
CONNECTIVITY	USB 2.0
AMBIENT LIGHT	Typical indoor
TEMP RATING	10 – 40 °C (external air temperature)
RGBZ REGISTRATION	Yes
DIMENSIONS	10.5cm (W) x 3cm (H) x 2.3cm (D)
Drivers	PC Windows 7/8
	PC Ubuntu
	ARM Android (April '14)
	ARM Linux (April '14)

Block Diagram

- DepthSense QVGA TOF Imager
- ADC
- Illumination (1 Laser)
- Signal buffering
- FPGA
- SDRAM
- 720p RGB Imager
- 2D-3D Sync Controller/ USB

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DS536-A Module

79mm

12mm

15mm

IR VCSEL

74 x 58 degree
Lens

QVGA
DepthSensor

USB Out

- Depth only module, QVGA depth resolution

- Distance modes:

  – Short Range – 10cm~1m up to 60fps

  – Mid Range – 70cm~2.5m up to 15 fps (or 30fps in QQVGA mode)

  – Long Range – 70cm~5m up to 6fps (or 15fps in QQVGA mode)

  – Same lens and depth resolution as DS325

  – Code compatible with current DS325

- PC, ARM Android and ARM Linux drivers

SoftKinetic Middleware

Full Body Gesture Control

Hand Gesture Control

AR/VR Gesture Control

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