

## THE WORLD'S MOST ADVANCED SYSTEM ON A CHIP FOR mmWAVE 3D IMAGING

Vayyar's sensor creates high-resolution images based on advanced RF technology. It integrates an unprecedented number of transceivers and an advanced DSP to produce images with high-resolution contour and high accuracy. Our devices, either stand-alone or integrated, are opening new capabilities in various markets including smart home, security, automotive, retail, elderly care and more.

### AN IMAGING DEVICE THE SIZE OF A MATCHBOX

Vayyar's powerful and unique RF chip covers imaging and radar bands from 3GHz-81GHz with 72 transmitters and 72 receivers in one chip. Enhanced by an integrated, high-performance DSP with large internal memory, Vayyar's sensor does not need any external CPU to execute complex imaging algorithms. Multiple signals are sent, received and analyzed enabling the creation of high-resolution 3D images.

### SUPERMAN VISION AND REAL-TIME TRACKING



#### 3D Monitoring

Monitor people's location, movement, height, posture and vital signs with no wearables or camera



#### 3D Imaging

See inside and through walls, objects and materials to create a 3D image of what's inside



#### Sensing

Sense and measure liquid composition. For example, Identify fat and protein percentage in milk

### UNIQUE BENEFITS - COMPACT, LOW POWER AND LIGHTWEIGHT

**COMPACT** - Full module is matchbox size

**SUPERMAN VISION** - See inside and through objects

**NO PRIVACY VIOLATION** - No optics, no cameras

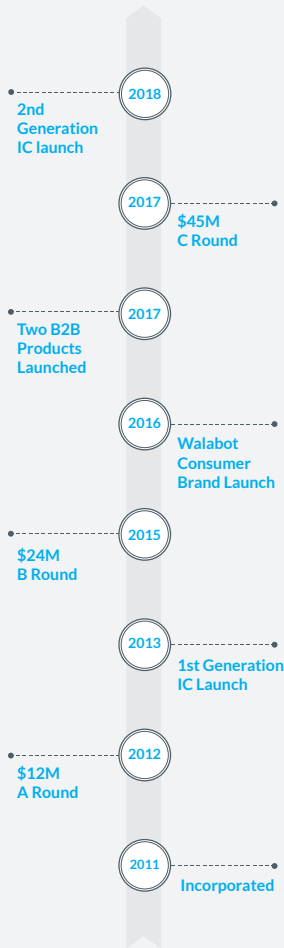
**ROBUST** - Agnostic to lighting and weather conditions

**NO WEARABLES** - Passive, unobtrusive monitoring

### FLEXIBLE B2B PARTNERSHIP MODELS AND CONSUMER PRODUCTS

Vayyar facilitates long-term partnerships with corporations to develop tailored solutions to meet specific needs. It also provides off-the-shelf kits to give companies hands-on experience and the ability to develop applications in-house.

Vayyar has its own line of consumer products launched under the 'Walobot' brand.



# VAYYAR IMAGING



## SMART HOME

Vayyar sensors create a 3D image of everything happening in your home in real-time. Monitor people presence, location, posture and vital signs with no optics and no wearables. Detect a fall, intruders on the premises, people's presence in case of emergency, and make your home appliances smarter and proactive.

## AUTOMOTIVE

Utilizing dozens of antennas on one chip, Vayyar's sensor makes your car smart and safe by providing high-resolution 3D imaging capabilities. Monitor passenger location, posture, status, movements and vital signs in the car interior, as well as 360 protection of the car's exterior. Identify trajectory and classify objects in the surroundings for collision avoidance, autonomous driving and parking assistance.



## SMART BUILDING

Implemented in office building, Vayyar sensors can identify presence and count people, indicating room occupancy and providing real-time, location based insight for automation and energy efficiency of appliance such as lights, doors, ACs, televisions etc.



## RETAIL

Vayyar sensors gather valuable insight about people's interaction with products in a retail environment, with no effect on shop esthetics or on the privacy of shoppers. Optimize your product or shelves layout based on the shopper's activity, such as- where and when they lingered, where they reached their hand out to or in which direction they looked.

