

Reality Check

Natural Interaction in the Connected Home

Voice and Vision-based control from VoiceVault, SpeechFX and GEO Semiconductor

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Voice & Vision-Interaction

enabling a natural interface



Expand from this....

....to this



Three Partners One Solution

form the backbone of this next generation solution



Leader in the development and supply of voice recognition solutions for embedded processors that will drive the human interaction with smartphones, tablets, appliances and other smart devices.



Leading provider of voice biometric solutions. Millions of voice enrolled and actively verifying. Trusted technology securing billions of dollars in money transfers annually.



The industry leader in ultra-wide angle distortion correction for 360/180° fisheye cameras, HD video compression, home monitoring cameras and human interface technologies.

Talk With Your Home

enabling incredible new possibilities

Voice-activated Security System

Voice-enabled Security, HVAC and appliances

Expanded Voice and gesture interaction to these smart devices:

Entertainment Systems: video, TV, Music and
Home management: utilities, unified communications

See Your Home

enabling incredible new possibilities

Leverage

Embedded chip for both voice and video

Enhance

Current surveillance and monitoring solutions

Video Interaction

Entertainment Systems: video, TV, music
Home management: utilities, unified communications



Enabling the Next Generation

of connected home devices



Use Voice to “wake-up” any device



Voice trigger to raise an alarm



Identify user by face or voice for entry or alarm disarm



Purchase items securely with spoken PIN



Gesture to control any home appliance (e.g. turn up heat)



Video analytics on camera for person detection



Wide Field of View camera technology covers the entire room with a single camera



Home Automation and Security

enabling incredible applications

Disarm

alarm with sound of voice



Voice Interaction

with all home electronic devices



Adjust

the thermostat with the wave of a hand



Turn On

lights with a simple voice command



Fisheye Lens

camera in smoke alarm or doorbell



Unlock

Front door by saying "open"



Next Generation Product Offerings

understanding possibilities with connected home solutions

Motion Interaction & Detection

Voice Biometrics & Security

Enhanced Video Solutions

Natural Language and Voice Interaction

Key Technology

from three companies to provide superior solutions

GEO Semiconductor

Long range audio and wide field-of-view video capture and pre-processing *On-chip gesture control and video analytics*

SpeechFX

Speaker Independent Trigger word detector – wake-up device of appliance on detection of trigger word *Embedded Voice Recognizer on any device*

VoiceVault

High accuracy Voice Biometrics *Over 99.9% accurate for constrained set of users*

So What?

combining technologies

Q:

Advances in control and sensing technology not only increase convenience, they also...

A:

Improve security (face detection, voice biometrics)

Enable new usage models (thermostat set based on users preferences, door only opens for household members, etc.)

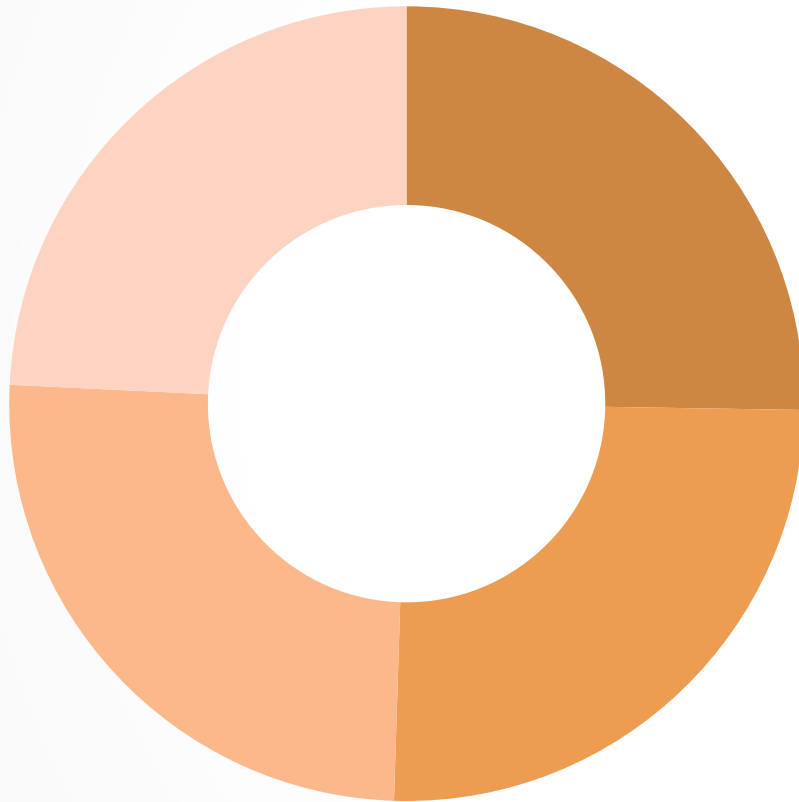
Allow sharing between devices (natural HD video communications with friends, security camera viewing on smartphone)

Assist the elderly or disabled (voice control, movement detection)

Combined, these core technologies can transform the ease and acceptance of new in-home controls

Why We are Unique

four key components that set our solution set apart



Embedded

Voice and vision algorithms running on a tiny IC embedded in devices. Can be placed in any device.

Robust

Highly accurate voice detection, voice biometrics and video analytics

Low Power

Devices must run 24/7 demanding low power, highly reliable devices

Low Cost

Appropriate for embedding in devices throughout the home

Partner Delivery Approach

GEO Semiconductor, SpeechFX, and VoiceVault

GEO Semiconductor

with 100 patents and applications, is the industry leader in programmable, high performance geometric processor ICs, H.264 CODECS, video, audio and human interface technologies. GEO is focused on smartphone, peripherals, automotive cameras & HUDs, Smart TV, cloud and Skype communications as well as surveillance & video communication markets.

SpeechFX

providing patented embedded speech technology for mobile devices and video game platforms with a proven track record of over 15 million licensed devices and 30 voice enabled video games.

VoiceVault

providing patented voice biometric solutions that set the standard in the industry for accuracy and scalability. Millions of voices enrolled and actively authenticating. Billions of dollars in mobile transactions secured by VoiceVault.

Questions?

Live demo available after presentation

Schedule a time to visit us in the French Room, Lobby Level to learn more.