

Spotwand™







Monitoring and Control System for Virus Symptoms Detection











Background

- Two of the main symptoms of a viral infection are:
 - An abnormal body temperature. The normal body temperature ranges from 36.5°c to 37°c, and if it exceeds 37.3°c, it is considered a true pathological fever.
 - Coughing identified as virus related.
- Currently there are a few types of temperature measurements:
 - Manual thermometer.
 - Manual screening using thermal cameras.
 - Automatic screening for body temperature.
- Currently only doctors' are able to check for coughing virus type.

Market

Corona virus detection and alert system installed at the entrance or inside a building, home or office.



• TouchWand is introducing SpotWand™

The only fully functional system that automatically measures the person's body temperature while moving and detects coughing virus oriented sounds upon occurrence

Body Temperature Measurement



Personal Measurement -	Automated measurement - Temperature
Temperature	

High risk exposure to infection Contact free – safety fully automated

High accuracy with self calibration Low accuracy – Unskilled operators

Low capacity detection – only 1 Efficient, reliable check for multiple persons person at a time

Scanning is time consuming – >3sec

Continuous check for moving Persons

Single data information Each person's temperature data can be monitored over time and over multiple locations

Ongoing cost of dedicated operator 1 week ROI

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Spotwand ™ Competitive Edge			
Туре	SpotWand™	Alternatives	Smart solutions f
Accuracy	Very High (including emissivity, gender & race factors)	Med/low	Two main symptoms viral infection
2 nd level test Cough recognition	Yes	No	Abnormal body
Cost	< 500\$	> 2,000\$	temperature (Ab >37.4°c)
Moving objects at real time	Yes	Partial	 Defined voice of person's cough
Infrastructure	No need – Plug & Play	Need	person's cough
Cloud multi site AI and deep learning of accumulated data	Yes	No	
Stand alone + cloud connection	Yes	No	
Tracking & Tagging accumulated data	Yes	Partial	
Trigger and control electric actions	Yes	Partial	
Temperature test	Yes	Yes	

TOUCHWAND Smart solutions for any home

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Why Spotwand [™] - Uniqueness

- Ability to monitor and alert for viral symptoms on multiple crowded moving objects in 2 circles of identifications.
- Quick and simple installation Plug & Play
- Best price-performance
- Real time reliable and accurate diagnostics, on the fly with no need for the person to stand and face a test point.
- Multiple factors detection (Temperature, Voice, future video & audio based detection abilities).
- Identification using algorithms for Emissivity, Race & Gender deciphering.
- Connectivity via application to Control peripheral systems and perform electrical actions.
- Local stand-alone and / or cloud base analysis and triggering.
- Cloud multi-site analysis and triggering (AI & Deep Learning)
- Cloud storage and backup with OTA install base update



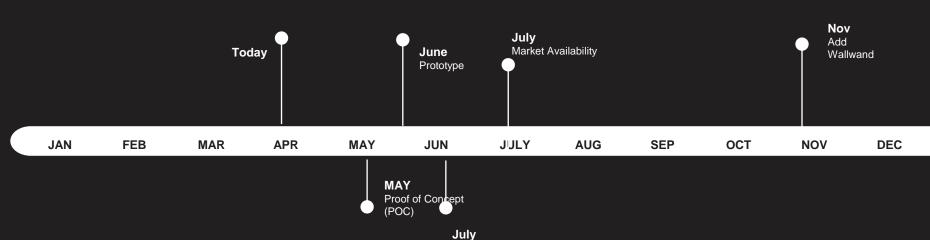






Road Map
SpotWandTM 1st Generation





2020 short term goals

Certification - Safety (UL & CE) RF & Com protocols (Mesh Wi-Fi, Zigbee, Z-Wave)



Monitor & Control Virus Symptom

Two levels of detection

Level 1:

- Integrate and calibrate thermal camera with regular camera for face segmentation and and neutralization of obstacles.
- Collect, process and analyze temperature data for moving persons using integrated control unit with emissivity, face & gender deciphering algorithm.
- Real time Identification, notification and triggering of abnormal body temperature.

Level 2:

- Integrated touch LCD switch (Wallwand) with a microphone located in any desired space to indicate voice symptoms (cough) to enable a secondary circle of identification and alerting for temperature check.
- Controls all electric actuators in the relevant space.

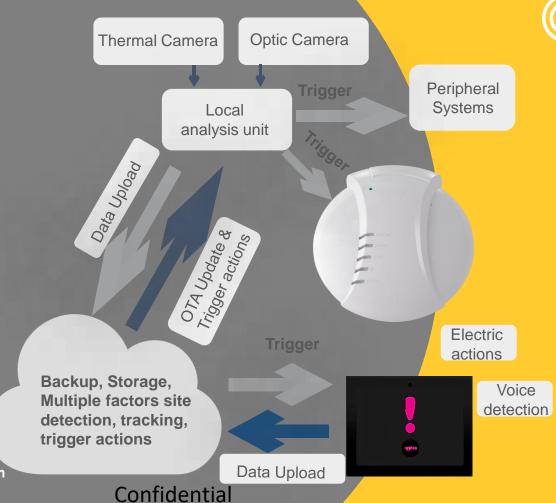


Continuous Ongoing Tracking

Data is transferred to cloud from multiple sites to enable AI and Deep Learning of multiple points of collected data for ongoing continuous improvement, tracking, monitoring and OTA update install base at all sites

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Spotwand™ Process



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TouchWand - Background

- TouchWand ("TW") Established in 2016
- Specializes in development, manufacturing and selling of home and office automation systems as well as Building management systems - IoT
- Company has several patents in USA and Israel
- Unique added value:
 - Simple installation & operation
 - No need for a special infrastructure suitable for retrofit deployment
 - Easy interface with other peripheral and legacy systems
- >1000s of full systems installed and in the last 2 years in homes, offices and organizations in Israel
- More than 1.5M\$ pending orders for the current products





Target Addressable Market



Buildings entries



Office & Home entries



Universities & Schools entries

<u>Israel</u>

2020- 50.000 systems optional

North America

2020- 400.000 systems optional

Europe/Asia

2020- 400.000 systems optional



amazon





50,000+

Systems per month in the US (2020-2021)





OREN LEVY

Founder

- Over 12 years of experience in smart homes solutions sector.
- Owner of one of Israel's largest smart home companies. Lectures this field in professional colleges.
- Former Business Customer Manager at a cellular provider and VP of an ISP.
- BA in Business Administration, and master's degree in Marketing.
- Daily meetings with Israeli & European customers looking for smart home systems.
- Weekly meetings with real estate developers and construction companies in the field of smart homes.
- The biggest smart home reseller of Siemens& Schneider Electric KNX for the past 9 years.



TouchWand[™] Founded in 2016



YAACOV STOTTLAND

Founder

- Over 20 years of experience in new products introduction field.
- In the last 10 years owner of a company that experts in taking start up companies from design phase to mass production.
- Extensive experience in manufacturing technologies and cost reduction processes.
- Expert in worldwide environment directives.
- Former Infrastructure Development Manager in one of the largest wireless broadband products companies in Israel.
- BS.c (Magma Cum Laude) in Industrial Engineering from the university of New Haven, Connecticut.
- Married and father of 2 boys.