



# JD SOLUTION

## Company Introduction

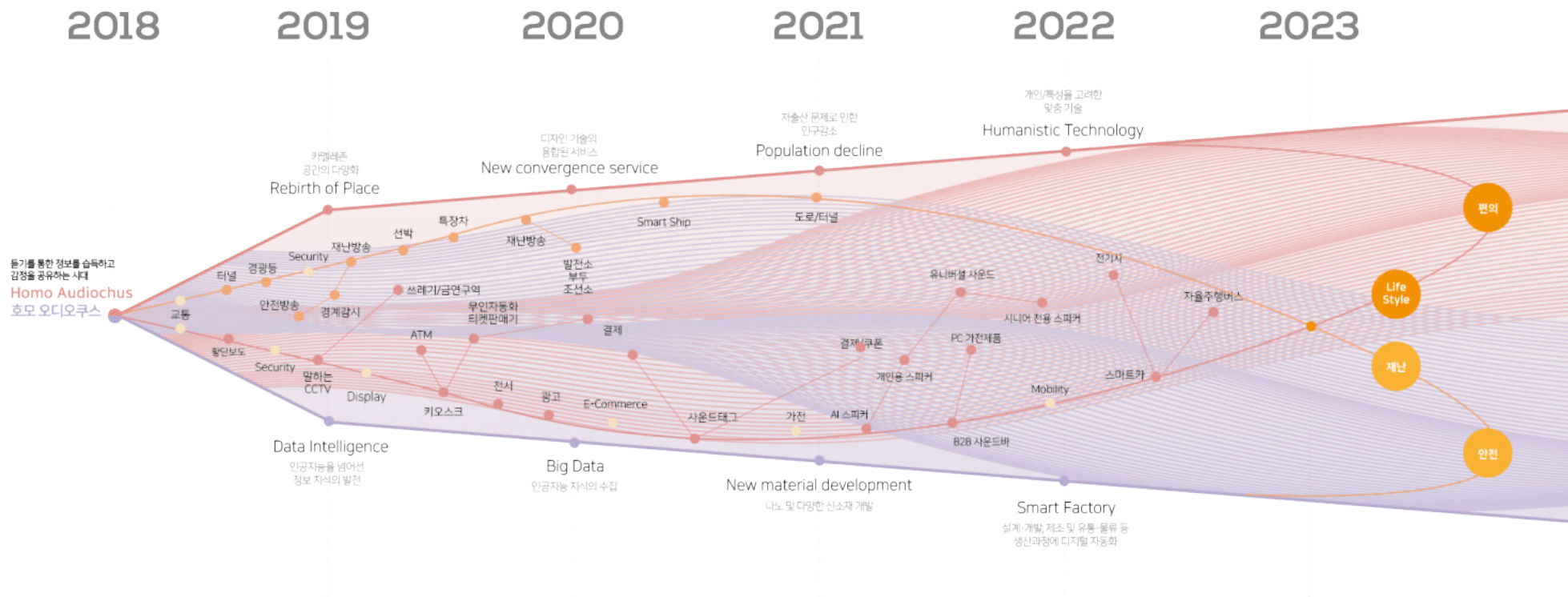
JD SOLUTION

Company Profile 2020



# Sound Changing the World

Sound Solution Specialty Companyengaging in Smart Sound business  
Which is safe, convenient, and useful for disaster based on product and  
service **applied with clear/directional soundwave technology**





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- 01 Company Overview
- 02 Technology & Strength
- 03 Brand & Business
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# 01 Company Overview



# 01

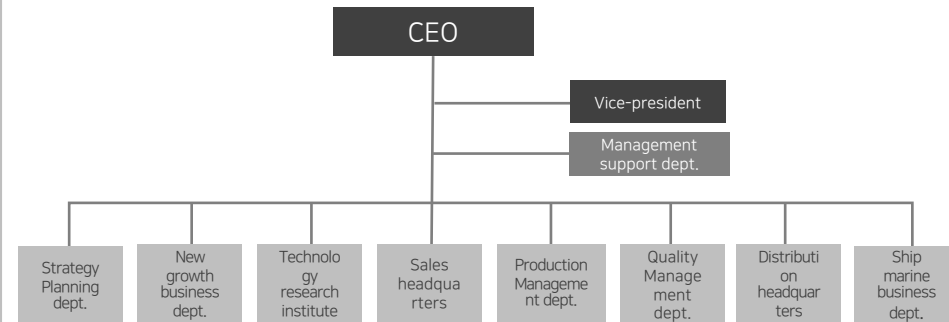
## Company Overview



### General Status

Company Name	JD Solution
CEO	Je Young-ho
Date of Foundation	Jul. 10, 2009
Business Area	<ul style="list-style-type: none"> <li>High-powered : Tunnel/ Plant / Mobility, etc.</li> <li>Super directional : Smart security / traffic light, etc.</li> </ul>
No. of employees	30 (As of 2020)
Capital	1,755,663,500 KRW (As of 2020)

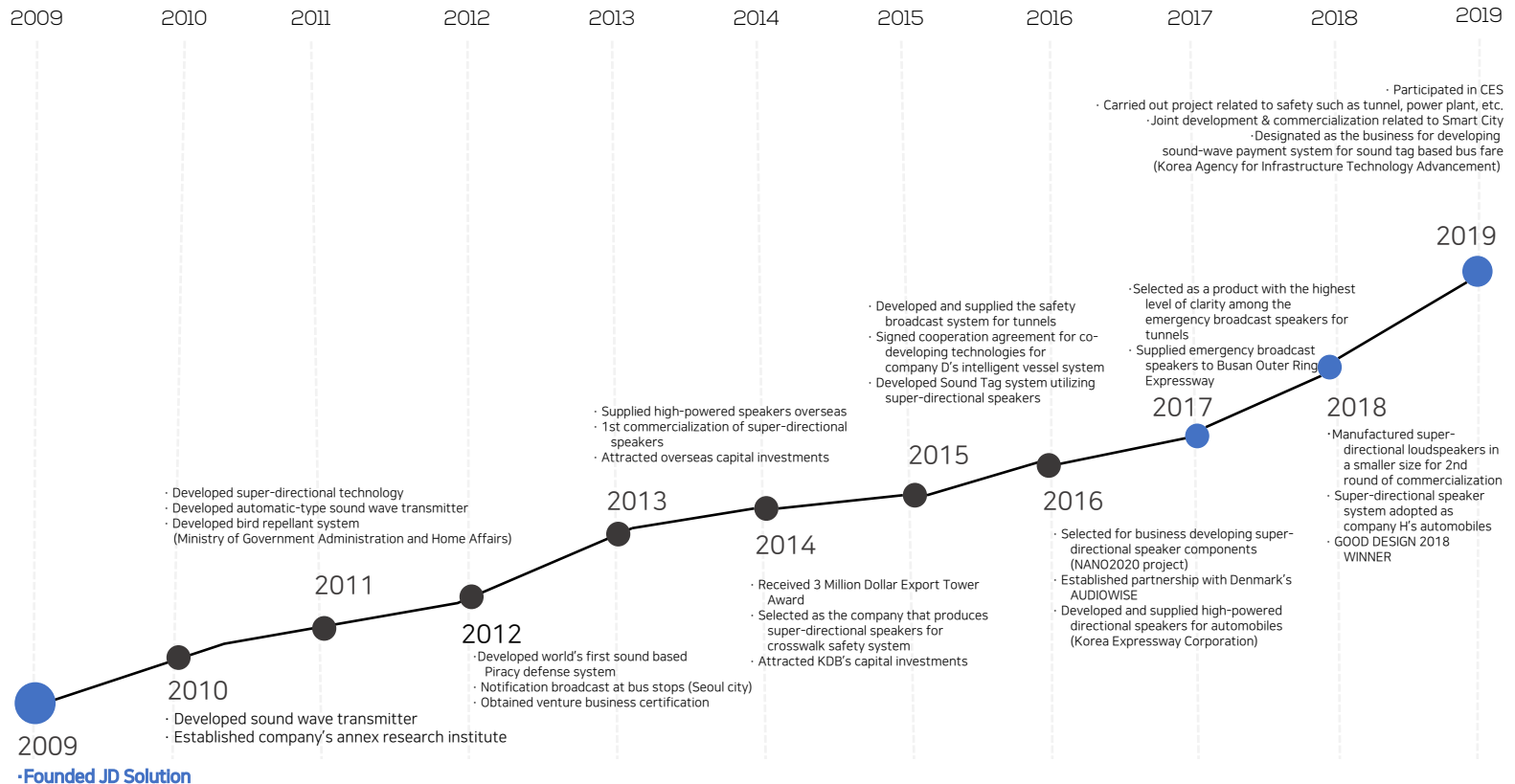
### Organizational Chart



# 01

## Company Overview

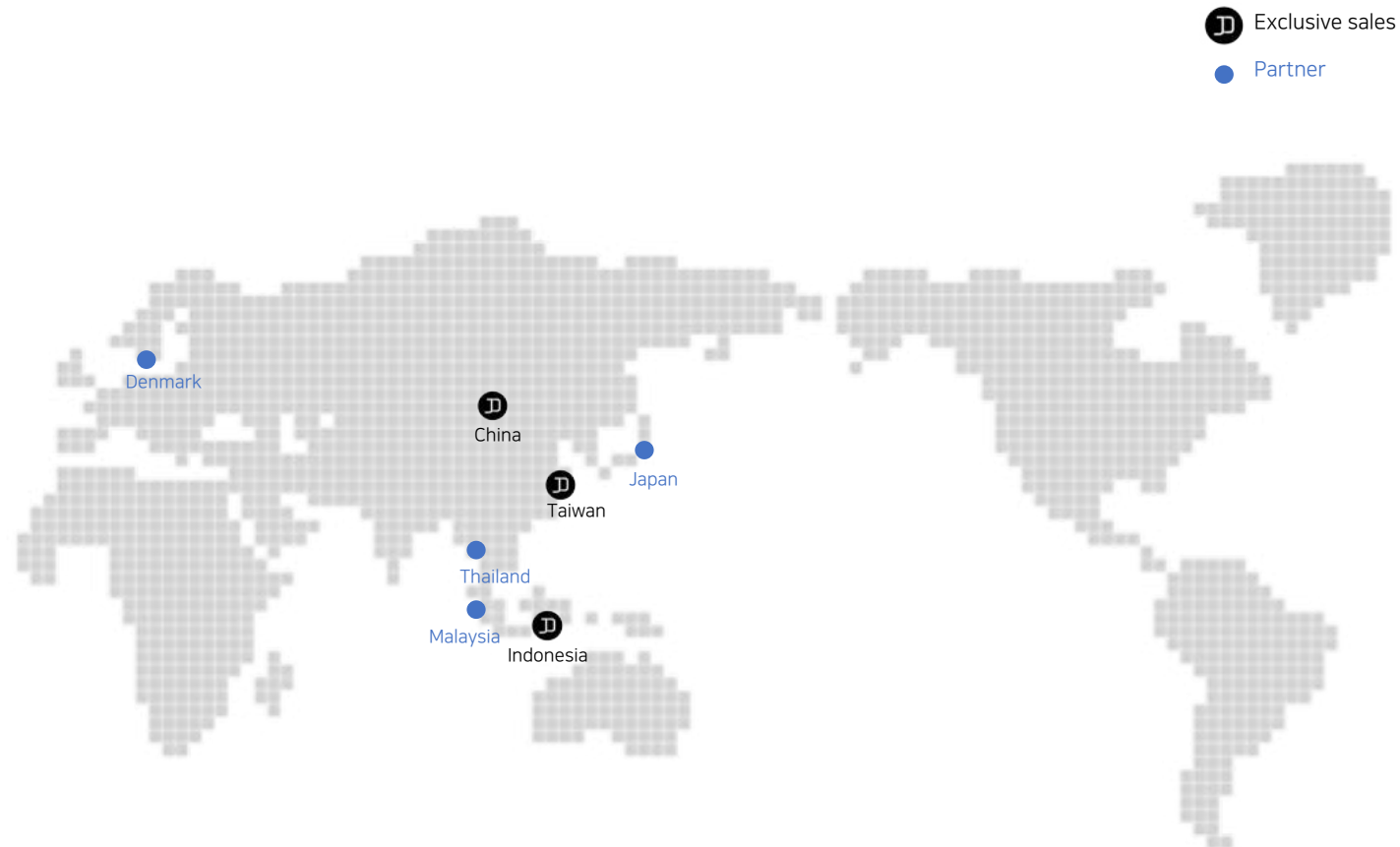
### (2) Company History



# 01

## Company Overview





















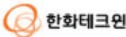




















### (3) Global Network



# 01

## Company Overview

### (4) Partners

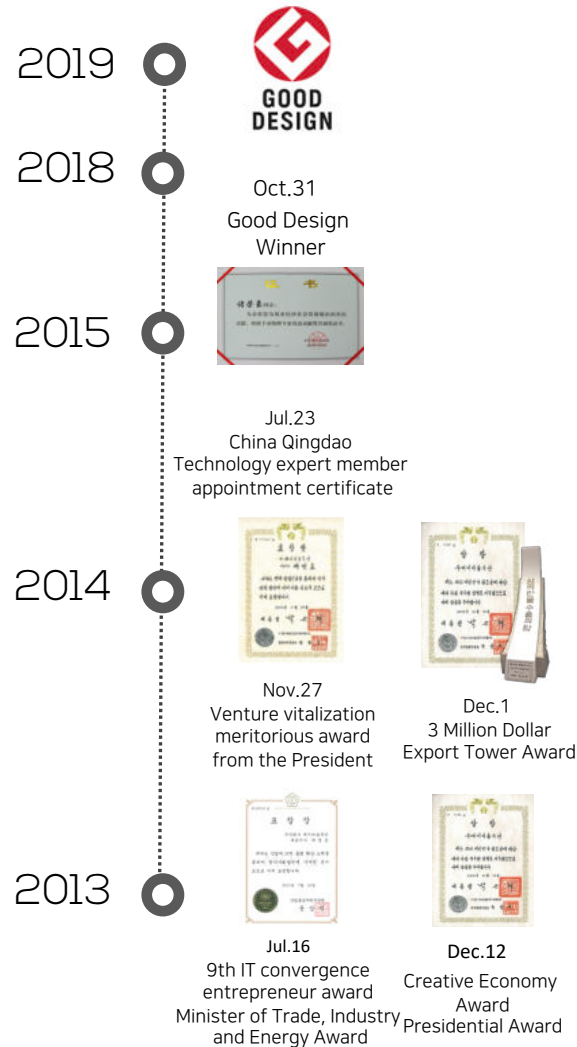
Traffic Safety	Automobiles
   	   
Security	IT/Electronics/Communication
               	           
Shopping/Entertainment	Smart Home/Health care
  	 



# 01

## Company Overview

### (5) Awards



#### 2013

- Minister of Trade, Industry and Energy Award at IT Convergence Entrepreneur Award
- Received Young Entrepreneur Award
- Received IT Convergence Entrepreneur Award of the Year
- Received Presidential Award at Korea Creative Economy Awards

#### 2014

- Received Venture Vitalization Meritorious Award from the President
- Received 3 Million Dollar Export Tower

#### 2015

- Received Qingdao(China) technology expert member appointment certificate
- Received Global Service Award

#### 2018/2019

- Good Design Award Winner for 2 consecutive years

# 01

## Company Overview

### (6) Intellectual Property Rights



ISO 9001  
Quality Management Certification



INNOBIZ  
Company



Operation of R&D organization  
in annex research institute



S4\_MIL-STD-810F



S4\_MIL-STD-810G,  
167-1A



S4\_MIL-STD-461F

**76 Intellectual Property Rights**  
**36 Technology Patents**  
**9 Design Patents**  
**31 Trademarks**  
 (As of 2020)



## 02 Technology & Strength

# 02

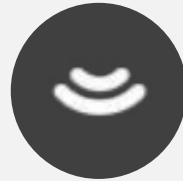
## Technology & Strength

### (1) Possessed Technology and R&D Performance Status



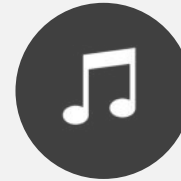
#### Clarity Technology

- Compressed driver design technology
- Sound synchronization technology
- Amplifier technology



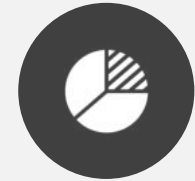
#### Directional Technology

- Mixed design technology
- Piezo-electric element technology
- Signal processing algorithm
- Microphone array technology



#### Sound Tag

- DSP based sound platform
- Space recognition & person detection SoDAR technology (Sound Detection & Ranging)
- Sound Tag SDK for Mobile/PC



#### System Convergence Technology

- Intelligent system Discrimination algorithm
- SI technology

### R&D Performance & Commercialization Performance

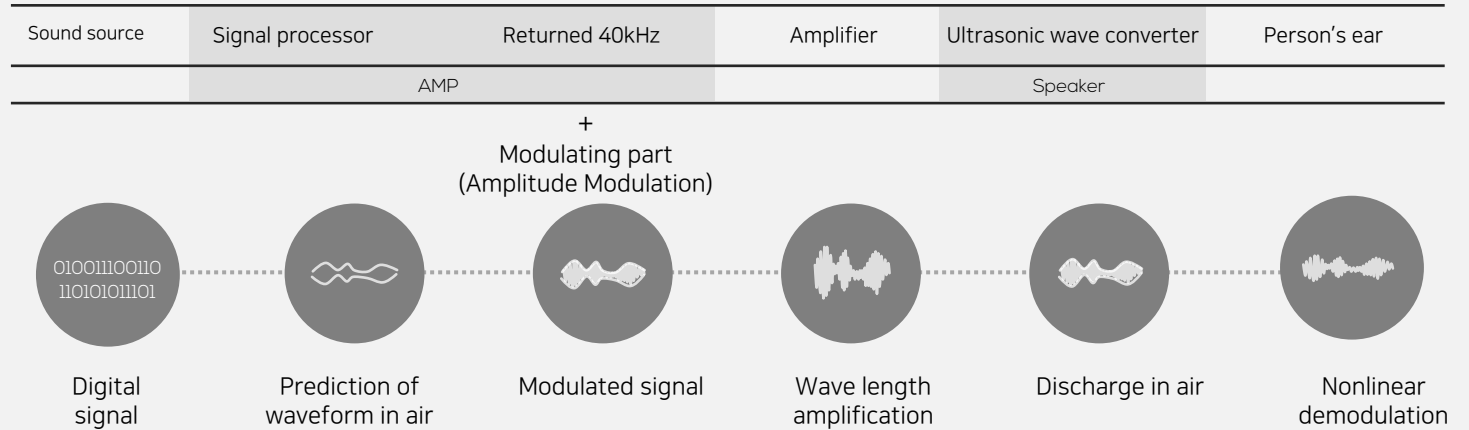
- Jan. 2010 ~ Dec. 2011 : High-powered directional speaker
- Jan. 2010 ~ Dec. 2013 : Super-directional speaker
- Jan. 2012 ~ Dec. 2013 : Intelligent security surveillance system
- Jul. 2014 ~ Jun. 2016 : Global system based on super-direction speakers to assist the mobility handicapped board or unboard a vehicle and provide navigation information (Ministry of Science, ICT and Future Planning)
- May 2015 ~ Dec. 2016 : Voice-guided information system for tunnel safety and accident control
- Jun. 2016 ~ May 2019 : Developed PFC super-directional speaker utilizing an envelope-type signal processing algorithm and nano pattern transcription technology (Nano-Convergence Foundation)
- Apr. 2019 ~ Dec. 2021 (Ongoing) : Development of sound tag-based Cardless bus fare integrated automatic payment system (Korea Agency for Infrastructure Technology Advancement)
- Dec. 2019 ~ Oct. 2021 (Ongoing): Development of super-directional speaker system for automobiles for playing coherent sound source (Hyundai Motors)
- Mar. 2020 ~ (Ongoing) : Registration of excellent procurement by Public Procurement Service regarding smart crossing safety voice guidance auxiliary device

## 02

Technology  
& Strength

## (2) Super-directional sound wave technology

It predicts audio signal playing in air and modulates ultrasonic wave(40kHz) so that the signal can be made into nonlinear envelope



## Principle of super-directional sound wave technology

- Sound source playing part: Analyzes sound source and predicts wave pattern in which audio signal forms in the air
- Amplifier: Modulates and amplifies using 40kHz so that predicted wave pattern can come out in the form of an envelope
- Speaker Discharges modulated sound source signal in the air
- Person's ear: A person's ear cannot hear 40kHz as it is an inaudible range, and hears only wave pattern made in envelope form (A person's ear automatically filters out inaudible range(40kHz) and recognizes only sound)



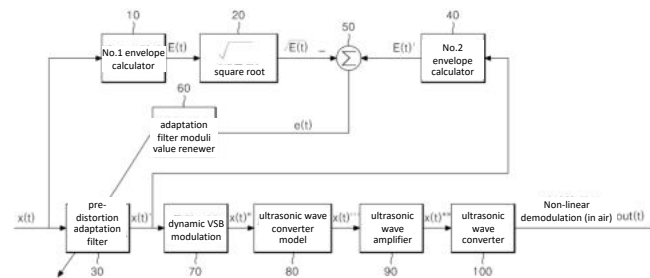
## 02

Technology  
& Strength

## (3) Distinctiveness of Super-directional Technology

**JD SOLUTION (KOREA)**

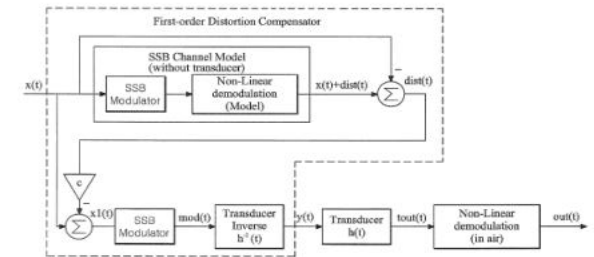
Successfully commercialized super-directional speaker!

**VSB(Vestigial Side Band) modulation method**

- Calculates moduli value applied to pre-distortion adaptation filter (fast calculation)
- Calculates adaptation filter moduli value and applies it to the current input signal
- Dynamic VSB modulation
- Applies moduli value suitable for ultrasonic wave converter characteristic

**Advantages**

- Applies pre-distortion compensation in real-time
- Simplifies design hardware (price competitiveness)
- Improves super-directional speaker sound quality with VSB method

**TurtleBeach (US)****SSB(Single Side Band) modulation method**

- Calculates ideal envelope modulation signal wave pattern (a large amount of calculation)
- Calculates error by comparing with actually modulated signal
- Compensates the distortion of the sound quality by repeating the process of compensating the signal before modulation several times

**Drawbacks**

- No real-time compensation on high frequency distortion, poor sound quality
- Hardware design is very complicated
- Increase in delay due to signal processing
- High distortion due to incompleteness of SSB filter

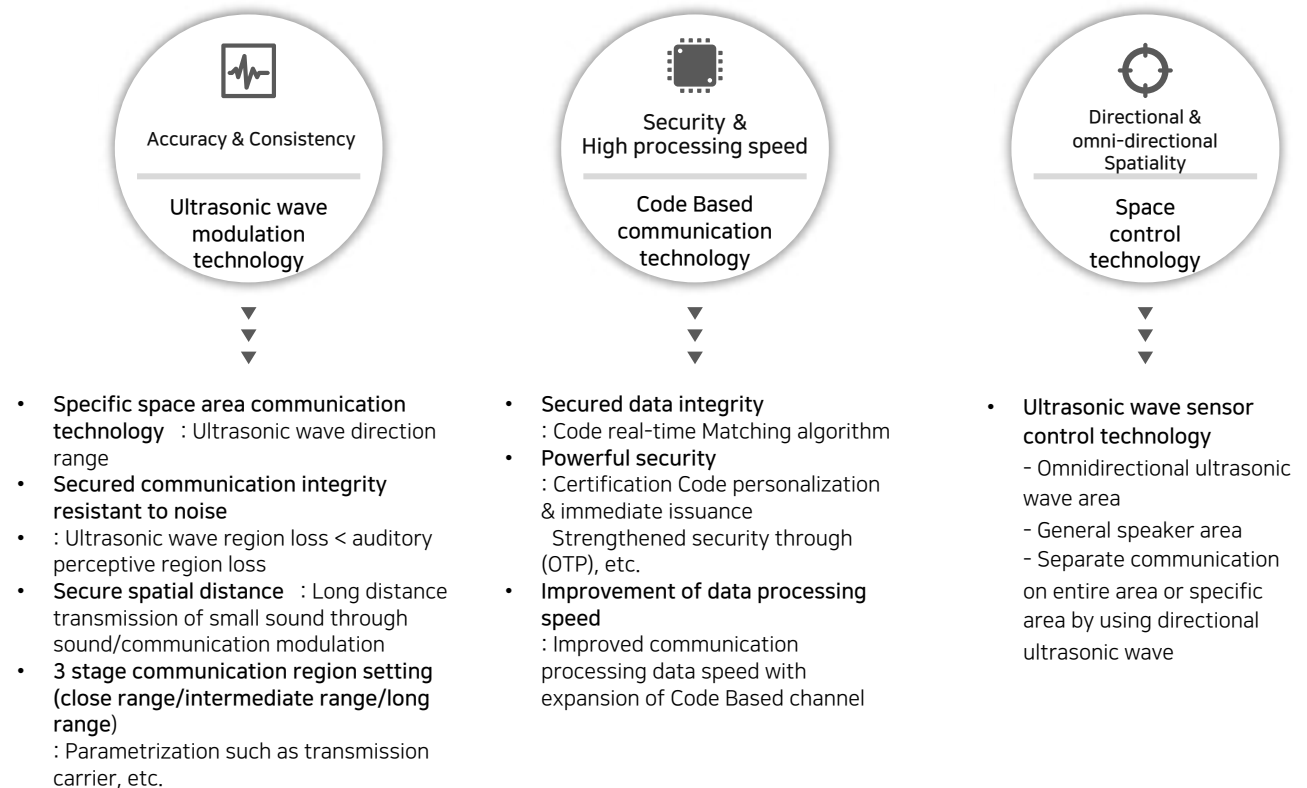
# 02

## Technology & Strength

### (3) Distinctiveness of Super-directional Technology: non-audible sound wave technology based sound tag

#### Principle of sound tag technology

It is a "Useful Sound Technology" that can send data using sound wave of inaudible region(exceeding 18~20) using super-direction sound wave technology possessed by the company. It can be grafted to various industries including coupon service for advertisement/promotion, mobile sound wave payment, mobile certification, etc.





# 03

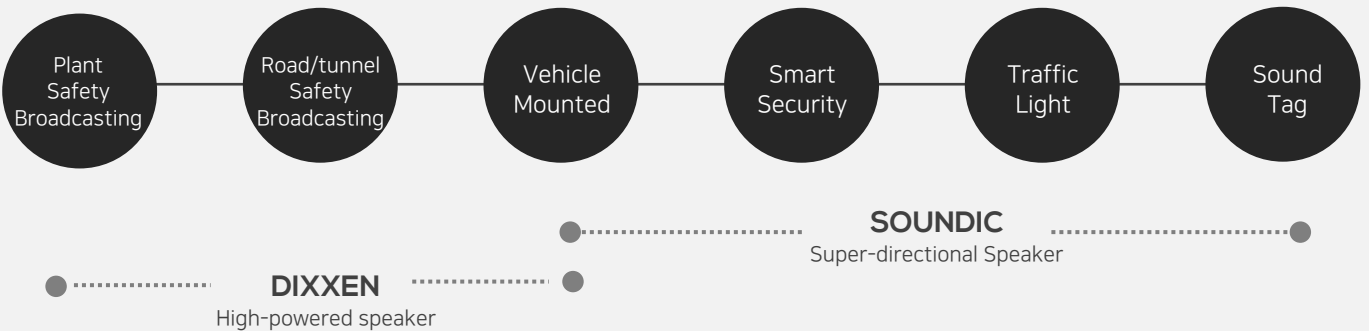
## Brand & Business

# 03

## Brand & Business

### Product

#### Advantages of Major Products



- Clearly delivers high-pressure sound far away
- Can be used in environments with high reverberation and low audibility
- Can be connected to various devices (video, radar, etc.) and perform intelligent analysis

- Delivers clear sound to the target area (people)
- Virtually zero echoes and no sound leakage
- Capable delivering sound(sound source) and data

# 03

## Brand & Business

DIXXEN

### DIXXEN T Series



DIXXEN T



DIXXEN T- H3

- Minimizes echoes using directional technology
  - ※ Directional speaker clearly heard even in noisy area / howling area
- Uses frequency with excellent voice clarity
  - ※ Broadcasting system satisfying voice clarity standard(STI) over 0.46, which is Korea Expressway Corporation's standard
- Optimized to Ministry of Land, Infrastructure, and Transport's emergency broadcasting equipment speaker standard (waterproof outdoor installation type, over 90dB/W/m)
  - ※ Refer Ministry of Land, Infrastructure and Transport Regulation No.139 Road Tunnel Disaster Prevention Facility Installation & Management Guidelines



# 03

## Brand & Business

DIXXEN

### DIXXEN A3 Series



**A3**

- Maximum 136dB @1m front (Peak)
- Delivers up to 300m
- Various applications via multiple coupling and network connection (plant, etc.)



**A3-DT**

- Maximum 140dB @1m front (Peak)
- Delivers up to 600m
- Easy setting of speaker direction and broadcasting via remote control inside vehicle or ship



**A3-DT(c)**

- Maximum sound pressure 140dB @ 1m front (Peak)
- Delivers up to 600m
- Provides convenient User Interface

# 03

## Brand & Business

DIXXEN

### DIXXEN S4 Series



**S4**

- Transmits a clear warning broadcast to a long distance target up to 3km away with maximum sound pressure of 154dB, located within 1m front (Peak value)
- Capable of realizing long distance over 3km with installation of multiple units
- Military Standard certified (High durability)



**S4R**

- Transmits a clear warning broadcast to a long distance target up to 3km away with maximum sound pressure of 154dB, located within 1m front (Peak value)
- Linkage with other system software (Radar, AIS, etc.)
- Fully Automatic Tracking & Surveillance & Monitoring & Broadcasting System
- Capable of realizing integrated security monitoring/broadcasting system with installation of multiple units
- Secures real-time video image (day/night)
- Military Standard certified (High durability)

# 03

## Brand & Business

DIXXEN  
Business

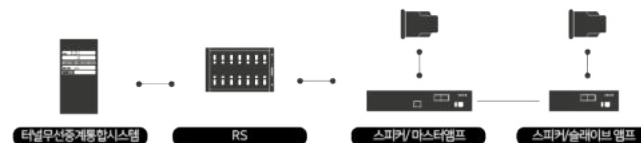
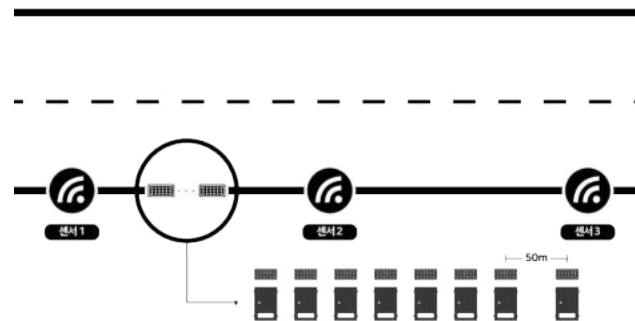


### Tunnel/Road Broadcasting

Announcement Broadcasting & Warning Broadcasting System

Clear voice broadcasting within road and tunnel with poor sound environment

#### System



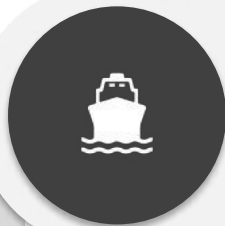
- 01 As an emergency broadcasting speaker linked with radio rebroadcasting system of tunnel, it is a broadcasting system satisfying voice clarity index(STI) over 46, the Korea Expressway Corporation standard, unlike conventional broadcasting system
- 02 Clear broadcasting delivery is possible in entire section of the tunnel, and overcome the poor sound environment within the tunnel by installing Speaker and 1 amplifier sequentially per 50m, and connecting to the main device of the tunnel radio rebroadcasting system

Applicable Product	Features & Recommended Installation Measure
DIXXEN T	<ul style="list-style-type: none"> <li>Inside/outside the tunnel (General)</li> </ul>
DIXXEN T-H3	<ul style="list-style-type: none"> <li>Exclusively for inside the tunnel (mirroring technology applied)</li> </ul>

# 03

## Brand & Business

DIXXEN  
Business

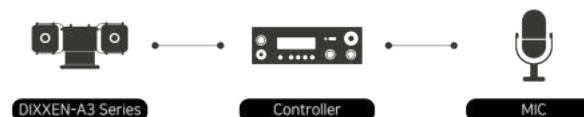


### Ship mounted

Announcement Broadcasting & Warning Broadcasting System

Ship collision accident prevention / support survivor search in case of marine accident / control of domestic fishing boat, support of crackdown on illegal fishing boats

#### System



- 01 Transmission of long distance broadcasting with high clarity and high power
- 02 Prevents collision accident between ships due to Non response to VHF communication
- 03 Transmission of clear instructions when marine Accident occurs
- 04 Support control of domestic fishing boats, and Crackdown operation on illegal fishing boats

Applicable Product	Features & Recommended Installation Measure
DIXXEN S4R	<ul style="list-style-type: none"> <li>• Linked to Radar for ships (S,X-Band)</li> <li>• AIS linked</li> <li>• Real-time monitoring (day/night)</li> <li>• Medium/Large Ship</li> </ul>
DIXXEN S4 DIXXEN S4T	<ul style="list-style-type: none"> <li>• Left/Right Rotating Turntable (applicable to only DIXXEN-S4T)</li> <li>• Medium/Large Ship</li> </ul>
DIXXEN A3-DT	<ul style="list-style-type: none"> <li>• Left/right rotating turntable</li> <li>• Medium/Small Ship</li> </ul>

# 03

## Brand & Business

DIXXEN  
Business

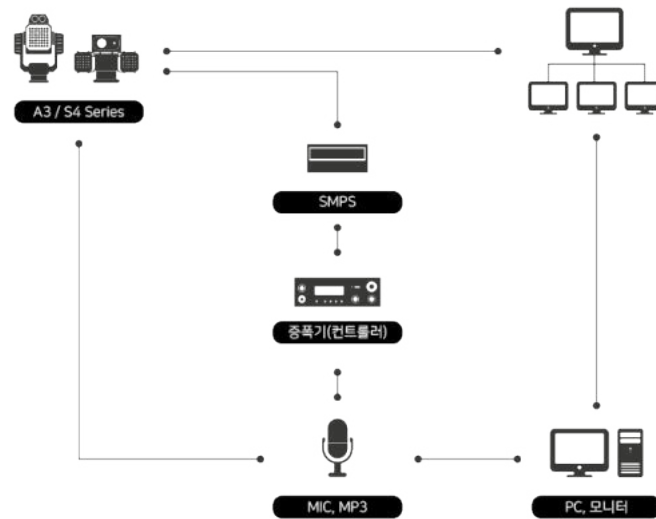


### Seashore & Security Area

Announcement Broadcasting & Warning Broadcasting System

Evacuation broadcasting / civil defense warning broadcasting when natural disaster, man made disaster occurs

#### System



- 01** When natural disaster or man made disaster occurs, it transmits long distance high-powered broadcasting and supports evacuation amid situation where dispatch of personnel is difficult
- 02** Installed on seashores close to border and transmits prior warning broadcast to ships violating EEZ and going north or south over the border
- 03** Transmits warning broadcast to person approaching area bordering military unit

Applicable Product	Features & Recommended Installation Measure
DIXXEN A3-DT(C)	<ul style="list-style-type: none"> <li>Real-time monitoring (day/night)</li> <li>Fixed and installed on top of a pole</li> </ul>
DIXXEN S4 DIXXEN S4T	<ul style="list-style-type: none"> <li>Left/Right Rotating Turntable (applicable to DIXXEN-S4T)</li> <li>Fixed installation on ground or installed on top of a pole</li> </ul>



# 03

## Brand & Business

DIXXEN  
Business



### Vehicle mounted

Announcement Broadcasting & Warning Broadcasting System

Vehicle control broadcasting in case of emergency dispatch / demonstration and crowd control broadcasting

#### System



- 01 Transmits long distance vehicle control broadcast in case of emergency dispatch situation such as firefighting, emergency, crime prevention, etc.
- 02 Transmits broadcast for suppressing demonstration and controlling crowd
- 03 By being equipped with monitoring function, real-time monitoring and recording around the vehicle when emergency situation arises

Applicable Product	Features & Recommended Installation Measure
DIXXEN A3-DT(C)	<ul style="list-style-type: none"> <li>Real-time monitoring (day/night)</li> <li>Fixed installation on top of a vehicle</li> </ul>
DIXXEN A3-DT	<ul style="list-style-type: none"> <li>For simple broadcasting</li> <li>Fixed installation on top of a vehicle</li> </ul>

# 03

## Brand & Business

DIXXEN  
Business



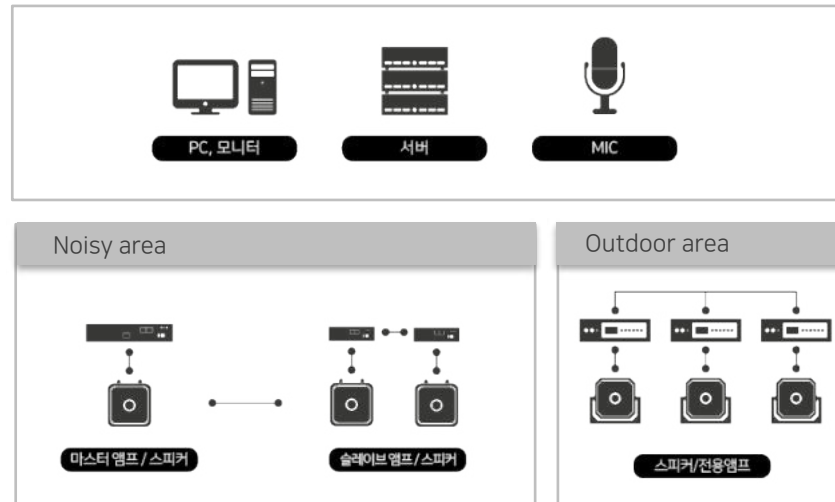
### Industrial Facility

Announcement Broadcasting & Warning Broadcasting System

Security system connected to monitoring system and speaker

Major industrial facility (power plant, plant, etc.) internal/external warning & announcement broadcasting

#### System



- 01** Noisy area Arranges multiple directional speaker at regular intervals and synchronizes sound
- 02** Outdoor area : Minimizes spread of surrounding noise by applying high-powered long distance directional speakers
- 03** Capable of controlling and monitoring broadcasting service area and sound when constituting all speakers into a network

Applicable Product		Recommended Installation area & composition
Speaker	DIXXEN A3(100W)	• Noisy indoor area, long distance outdoor broadcasting, other poor reception area
	S4(600W)	• long distance outdoor broadcasting - Land : 100~500m - Marine : 500~1Km
Amplifier	DIXXEN JDM100 (Master Amplifier)	• Amplifier for double use as control and network terminal for DIXXEN-A3 speaker
	DIXXEN JDS100 (Slave Amplifier)	• Extends broadcasting service area by constituting in series by connecting with DIXXEN-JDM100 master amplifier
	DIXXEN SA1800	• Amplifier for double use as control and network terminal for JDS-S4 speaker
O/S	DIXXEN PAS	• O/S dedicated to directional warning broadcasting system

## 03

Brand &  
BusinessDIXXEN  
Business

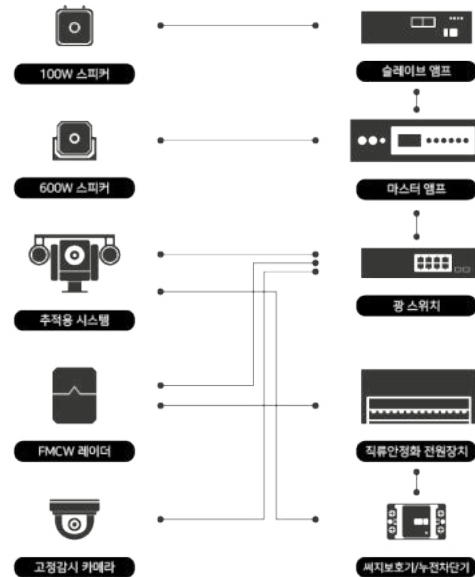
## Security &amp; Surveillance

Surveillance/ Security Broadcasting System

Security system connected to monitoring system and speaker

Major industrial facility (power plant, plant, etc.) internal/external warning &amp; announcement broadcasting

## System



## 01

Linked to surveillance camera and radar, automatic broadcasting system

## 02

Minimizes spread of surround noise and broadcasts warning with a clear voice to trespasser

## 03

Capable of controlling and monitoring each broadcasting service area which has canceled radar link mode, and volume by constituting a network (Broadcasting control is simply constituted with general PC, server and O/S)

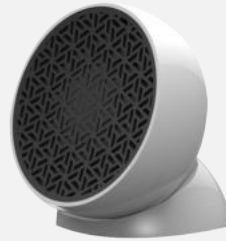
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	DIXXEN-SA1800	• Amplifier for double use as control and network terminal for JDS-S4 speaker
O/S	DIXXEN PAS	• O/S dedicated to directional warning broadcasting system

# 03

## Brand & Business

SOUNDIC  
Brand

SOUNDIC



**circle**

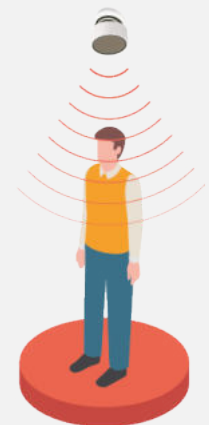


**clarielle**



**cube**

- Delivers clear sound on certain section using ultrasonic wave characteristic
- Applies modulation signal suiting the characteristic of element such as Piezo ceramic Ultrasonic wave modulation algorithm technology
- Delivers clear sound up to maximum of 20m(circle) to 100m(clarielle) in constant sound pressure unlike general speakers with envelope modulation method
- Can be used by combining with various products and space
- Performance usable in all indoor/outdoor environment



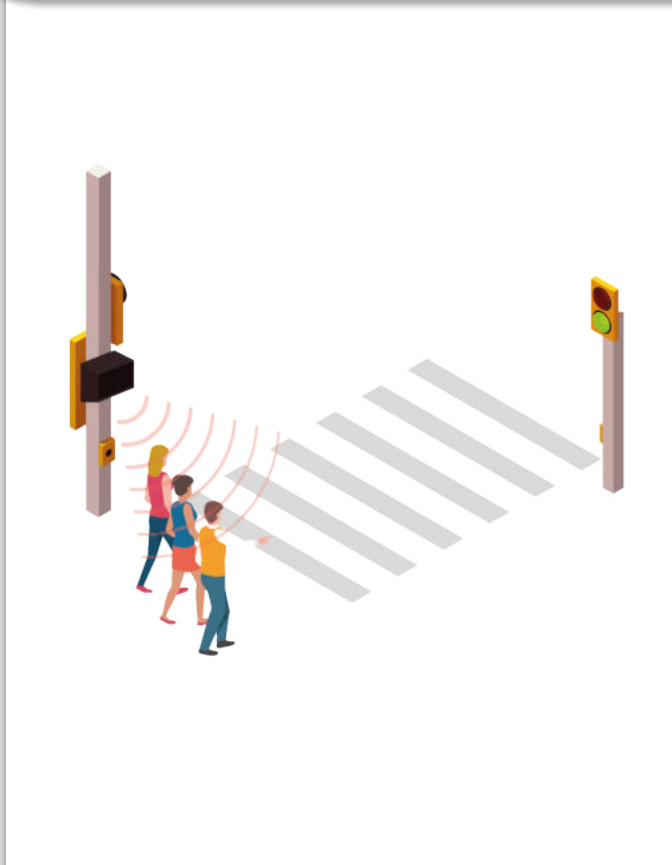
# 03

## Brand & Business

SOUNDIC  
Brand



### Pedestrian signal voice guidance auxiliary device



- 01** Voice guidance system for preventing traffic accident of pedestrians within standby area of crosswalk
- 02** Improves durability and detection accuracy by applying fixed scanning infrared sensor
- 03** It does not generate noise at private houses and shopping area by applying super-directional speakers which does not echo and delivers sound to only a specific area
- 04** There is no need for a separate installation cost unlike competing product as it is attached to the upper part of the traffic light pole (Bollard is not used)  
\*Bollard : detection sensor support fixture
- 05** It does not cause discomfort to pedestrians as an attached type



# 03

## Brand & Business

SOUNDIC  
Brand



### CCTV video recognition based broadcasting system

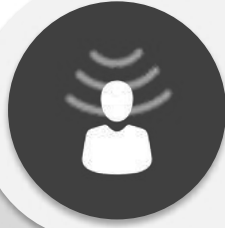


- 01** Recognizes violator within restricted area and delivers guidance/warning broadcast
- 02** Effective guidance effect to people disposing trash illegally, and people smoking in non-smoking area
- 03** It does not generate noise at private houses and shopping area by applying super-directional speakers which does not echo and delivers sound to only a specific area
- 04** Enhances accuracy with video recognition technology detecting a person who comes into a set area

# 03

## Brand & Business

SOUNDIC  
Brand



### Advertisement PR solution utilizing spot sound



- 01** Solution applied to various spaces such as commercial space, public transportation, etc.
- 02** It can be applied in various ways such as delivering necessary information or decorating a space with the sound of nature
- 03** It does not generate noise at private houses and shopping area by applying super-directional speakers which does not echo and delivers sound to only a specific area
- 04** Various installation cases in places such as department stores, cafes, museums, movie theaters, etc.



# 04 Reference

# 04

## Reference

### DIXXEN : Marine System



KOTC (Kuwait Oil Tanker Company) crude oil carrier  
Anti Piracy System  
DIXXEN S4R

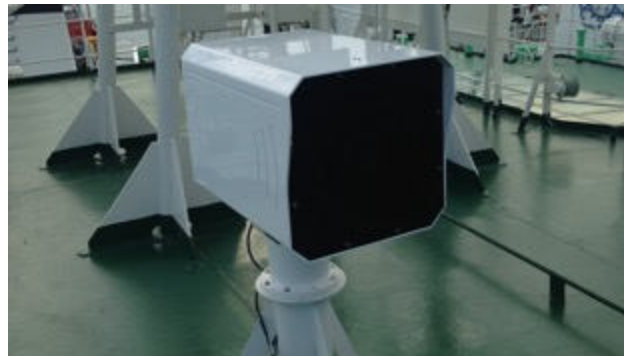


ROK Navy next generation landing ship  
maritime operation ship-to-ship broadcasting system  
DIXXEN S4

# 04

## Reference

### DIXXEN : Marine System



National fishery supervision vessel  
Chinese fishing ship eradication, domestic fishing  
boat guidance broadcasting  
DIXXEN S4T



Brunei Navy training ship  
maritime operation ship-to-ship broadcasting system  
DIXXEN S4



# 04

## Reference

### DIXXEN : Marine System



Mokpo National Maritime University training ship  
Marine safety monitoring & broadcasting system  
DIXXEN S4R



Korea Coast Guard patrol ship  
Domestic fishing boat guidance broadcasting system  
DIXXEN A3-DT

# 04

## Reference

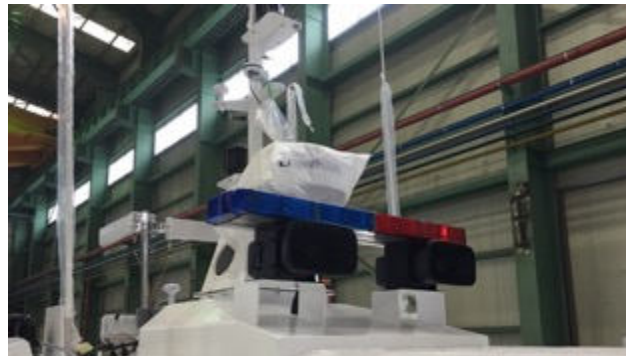
### DIXXEN : Marine System



Korea Coast Guard coastal rescue vehicle  
Coastal safety broadcasting system  
DIXXEN A3-D



Malaysia Bintulu port  
Port security & fishing boat guidance system  
DIXXEN S4R



# 04

## Reference

### DIXXEN : Vehicle type



Indonesian Police Barricade Truck  
Demonstration suppression monitoring & warning  
broadcasting system  
DIXXEN A3-DT(C), DIXXEN A3-D



Chinese police special vehicle



DIXXEN A3



# 04

## Reference

DIXXEN : Wild animal protection/sonic wave repeller system



Fruit farm sonic wave bird repeller system  
DIXXEN S2R



Sonic wave harmful bird repeller system  
DIXXEN S2R

# 04

## Reference

### DIXXEN : Security area broadcasting



Submarine Force Command  
Fishing boat severe pressure warning broadcast  
DIXXEN S2R



ROK Marines  
Marine broadcasting system  
DIXXEN S4H

# 04

## Reference

### DIXXEN : Tunnel broadcasting system



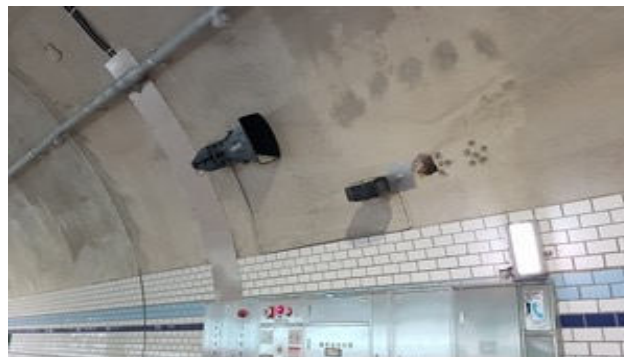
Emergency broadcasting speaker  
Busan Outer Ring Expressway(Jinyeong Tunnel, Hanlim Tunnel, Saenglim Tunnel)  
DIXXEN A3



# 04

## Reference

### DIXXEN : Tunnel broadcasting system



Emergency broadcasting speaker  
Busan Outer Ring Expressway(Sangdong Tunnel, Shineosan Tunnel, Geumjeongsan Tunnel, Cheolma Tunnel)

DIXXEN A3/ T-H3

# 04

## Reference

Project	Client	Remarks
KOTC crude oil carrier *DIXXEN S4R	DSME	18 units
Fruit farm bird repeller system *DIXXEN S2R	Gimje City Hall Yeoncheon County Office	12 units
ROK Navy next generation landing ship *DIXXEN S4	Hanjin Heavy Industries Hyundai Heavy Industries	4 units
National fishery supervision vessel *DIXXEN S4T	West Sea Fisheries Management Service	1 unit
Brunei Navy battleship *DIXXEN S4	Brunei Navy	1 unit
Submarine Force Command *DIXXEN S2R	Navy Submarine Force Command	1 unit
Mokpo National Maritime University training ship *DIXXEN S4R	Hanjin Heavy Industries	1 unit
Korea Coast Guard patrol ship *DIXXEN A3-DT	Korea Coast Guard	6 units
Korea Coast Guard coastal rescue vehicle *DIXXEN A3-D	Korea Coast Guard	4 units
Incheon International Airport Corporation sonic wave bird repeller *DIXXEN S4	Incheon International Airport Cor poration	1 unit
Seaweed fulvescens sonic wave bird repeller *DIXXEN S4	University Industry Liaison Office of CNU	1 unit
Malaysia Bintulu Port *DIXXEN S4R	Bintulu Port Holdings Bhd.	1 unit
Indonesian Police Barricade Truck *DIXXEN A3-DT(C)	PT. Jesbright Ansanti Solusindo	8 units
Indonesian Police Barricade Truck *DIXXEN A3-D	JINO Motors	24 units
Royal Thai Police SWAT Team *DIXXEN A3-DT(C)	Techna Distriserv Pte. Ltd.	1 unit

# 04

## Reference

Project	Client	Remarks
Safety broadcasting system (Dunnae/Bongpyeong Tunnel) * DIXXEN T-H3 speaker	Korea Expressway Corporation	32 units
Safety broadcasting system (Inje Tunnel) * DIXXEN T-H3 speaker	Korea Expressway Corporation	20 units
Safety broadcasting system (Girin 6/Hwachon 9/Seoseok Tunnel) * DIXXEN-H3 speaker	Korea Expressway Corporation	21 units
Safety broadcasting system (Geumjeongsan /Sineosan Tunnel) * DIXXEN T-H3 speaker	Korea Expressway Corporation	24 units
Emergency broadcasting speaker (All Tunnels of Busan Outer Ring Expressway, Shineosan Tunnel pilot project included) * DIXXEN A3 speaker	Korea Expressway Corporation	805 units
Drowsiness notifier (Seoul Ring Expressway Suri Tunnel) * DIXXEN T-H3 speaker	Korea Expressway Corporation	3 units
Speaker linked to radar detection system for foggy section (Busan Outer Ring Expressway Daepocheon Bridge) * DIXXEN A3 speaker	Korea Expressway Corporation	18 units
Emergency broadcasting speaker for rebroadcasting maintenance project (Approx. 28km section of nationwide tunnel extension) * DIXXEN-T/T-H3 speaker	Korea Expressway Corporation	561 units
Emergency broadcasting speaker for rebroadcasting maintenance project (Seoul-Chuncheon Expressway section tunnel) * DIXXEN-T speaker	Korea Expressway Corporation	594 units
Directional warning broadcasting system for preventing safety accidents (Coal facility-Hadong Power installation) *DIXXEN A3 99 units/S4 4 units	Korea Southern Power	103 units

# 04

## Reference

### SOUNDIC



Seoul City Hall  
LOBY

Sound Spot / Information Sound / Nature Sound



JTBC(Head Office\_Sangam)  
JTBC Gallery

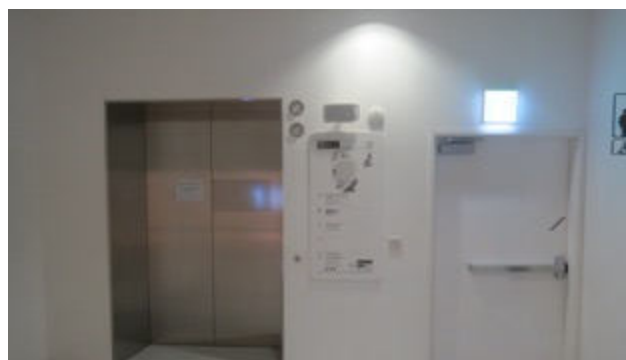
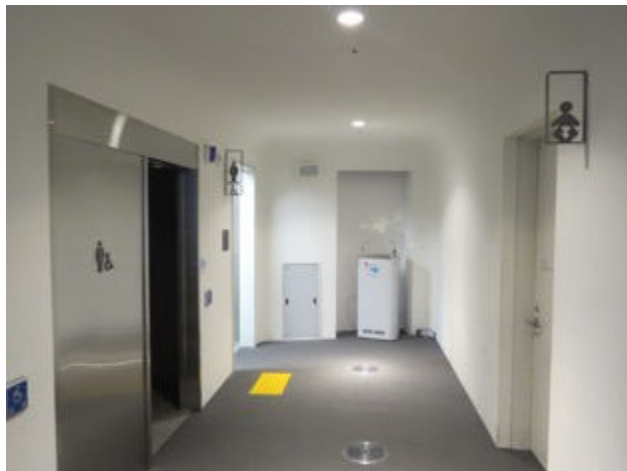
Sound Spot / Interactive New Media



# 04

## Reference

### SOUNDIC



DDP  
DDP Sound Sign

Sound Spot / Information Sound / Nature Sound



Gwacheon National Science Museum  
Exhibition Room

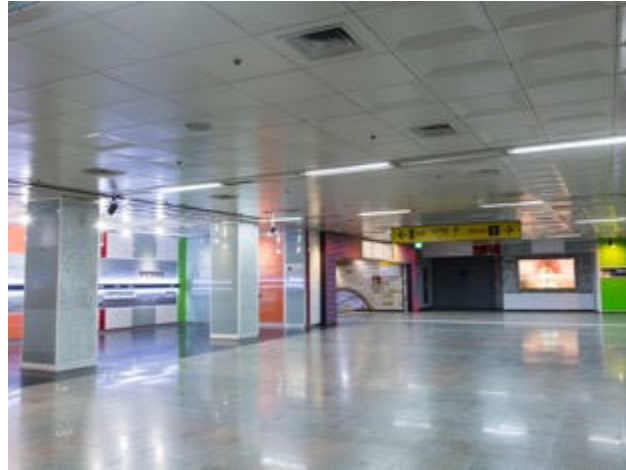
Sound Spot / Information Sound / Interactive New Media



# 04

## Reference

### SOUNDIC



Subway Line No.4 Seoul Racecourse Park  
Station passageway

Sound Spot / Information Sound / Nature Sound



Smart Pedestrian Safety Service  
Traffic light speaker

Sound Spot / Information Sound

# 04

## Reference

### SOUNDIC



CGV(Gangbyeon)  
FILM & MEMORY

Sound Spot / Interactive New Media



LOTTE CINEMA  
NOW SHOWING

Sound Spot / Interactive New Media / Proximity Sensor

# 04

## Reference

### SOUNDIC



Starfield(Goyang, Hanam)

Baby Circle

Sound Spot / Nature Sound / Proximity Sensor



Gangnam Station (Shinbundang Line, Seoul Racecourse Park station, etc.)

Voice guidance solution

Kiosk / Sound Spot / Information Sound



# 04

## Reference

### SOUNDIC



Yeouido(Power Plant)  
PUB

Sound Spot / BGM Sound



Hyundai Department Store (Cheonho)  
Food hall

Sound Spot / Information Sound / Nature Sound

# 04

## Reference

### SOUNDIC



Samsung Electronics Service Center Yongin branch  
Sound Spot / Information Sound / Healing Sound



Guidance solution for illegal disposal of trash (Multiple areas including Seoul city & Incheon city, Suwon city, etc.)  
Warning broadcasting solution

Sound Spot / Information Sound

# 04

## Reference

### SOUNDIC



Korea Automotive Technology Institute  
2019 Motor Show

Sound Spot / Information Sound

# 04

## Reference

Project	Client	Remarks
Lotte Cinema 'Now Showing'	Lotte Cinema	40 units
Gwacheon National Science Museum exhibition room	Gwacheon National Science Museum	20 units
Gangnam Station voice guidance solution	Seoul Metro	10 units
DDP	DDP	4 units
Subway Line No.4 Seoul Racecourse Park	Seoul Racecourse Park Station	Type 1
Seoul City Hall	Seoul City Hall	Type 1
CGV Gangbyeon 'Film & Memory'	CGV	4 units
JTBC Gallery	JTBC	30 units
Starfield Hanam / Goyang Baby Circle	Shinsegae	6 units
Yeouido Power Plant	OTD	Type 1
Hyundai Department Store Cheonho Food Hall	Hyundai Department Store	8 units
Samsung Electronics Service Center	Samsung Electronics	6 units
Lotte Mart	Dream ICT	40 units
Oneulan Dental Clinic_Sound Design	Oneulan Dental Clinic	10 units
Seoul Design Foundation Exhibition	Seoul Design	20 units





Thank you