



Prequalification Statement

2017



**THUNDER
TECHNOLOGY**

Prequalification Statement

We look forward to your esteemed company's prosperity.

We hope you to gain a robust foothold by ordering **Thunder Technology's** various system project performance records. This statement has documents and certificates to consider for your construction project.

Thank you.

____ / ____ / 2017

Thunder Technology, Co., Ltd.

CEO, Yong-Hee Kang



Prequalification Statement

HIGHLY QUALIFIED PROFESSIONAL
SOUND REINFORCEMENT
& PUBLIC ADDRESS SYSTEM



Contents

1. Introduction
2. Patents & Certificates
3. Products
4. Portfolio

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1. Introduction

01

CEO's Comment

Thunder Technology is a Professional Audio company in South Korea which has been so active in development and manufacturing of professional sound system to meet any need of quality conscious clients in the cinema installation and touring industries.

Although our company is established in November 2004, CTO and team members have more than 10 years experience in the different fields of development, manufacturing and marketing of professional sound system. All sound products of Thunder Technology are designed to provide natural sound reproduction without adding any unwanted distortion to the original sound.

Now we create systems for almost every type of application, from the portable compact sound system for the solo entertainer, to line array system for the touring of installation for very large stadium or open air venues with audiences of 50,000 and more.



(주)썬더테크놀로지 THUNDERTECHNOLOGY

대표이사 강용희 배상

**Respect HR, Create the Best Products
and Services with the Best Technology**



03

Outline

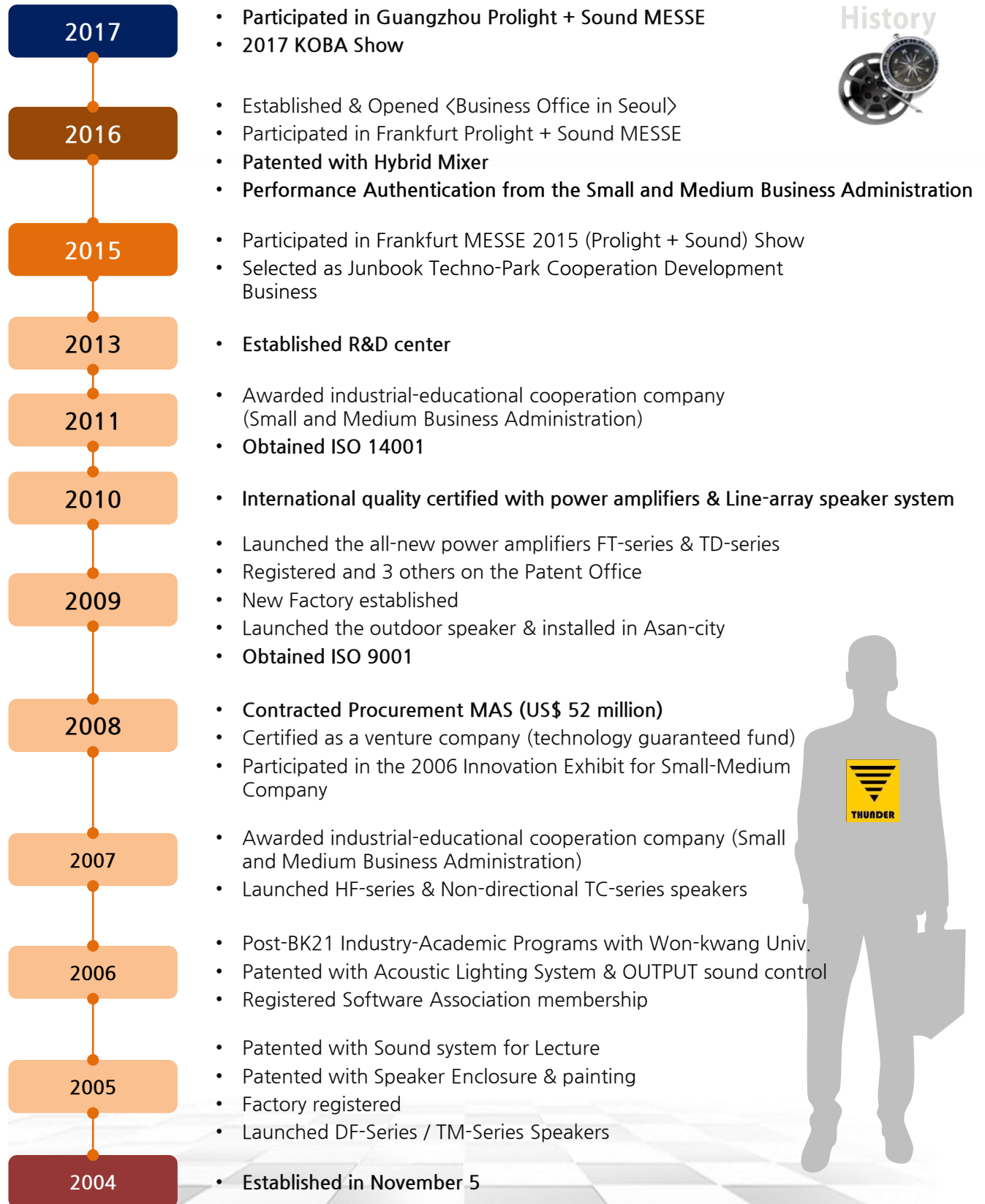
| | |
|------------------|---|
| Company Name | Thunder Technology, Co., Ltd. |
| CEO | Yong-Hee Kang |
| Established | November 5, 2004 |
| Registration No. | 407-81-12633 |
| Address | <ul style="list-style-type: none"> ▪ HQ & Factory: Street No. 15-15, Keobukbawi-ro 3 gil, Jinan-eup, Jinan-goon, Jeollabuk-do, South Korea ▪ Business Office: #B-209, Sigma 2, Koomi-dong 18, Sung-nam city, Kyoungki-do, South Korea |
| Contact | 063-247-1673 |
| Type of Business | Broadcasting & Audio/Video Facilities, Developing S/W |
| Major Products | Public Address System PA AMP, Mixer, Speaker, Power Distributor, CDP, Tuner, etc. SR System SR AMP, Mixer, Speaker, DSP, Wireless/Wired MIC. Receiver, etc. |
| Website | www.thunderspeaker.com |

| | Contents | |
|-------------------|--|---|
| Field of Business | AV System, Information & Communication, Automatic Control System, etc. | |
| Applications | AV System | Concert Hall, Arena, Sports Complex, Government Office, Meeting room, Seminar, Ballroom, Church, Integrated Control System, Interpretation System, etc. |
| | PA System | Broadcasting System for Schools, Government Office, Multi-purpose Building, Airport, Bay Area, Industry, etc. |



04

History



05

Business Area

Professional engineers in Thunder Technology is accomplishing Design, Installation and After Service on the various fields such as A/V, PA Systems, CATV and Information Communication for Government office, Exhibit, Concert Hall, Sports Complex, Cultural Center and Education Institutes by taking advantage of technical know-how.



A/V System

- Concert Hall A/V System
- Church A/V System
- Outdoor SR System
- Studio SR System Facility



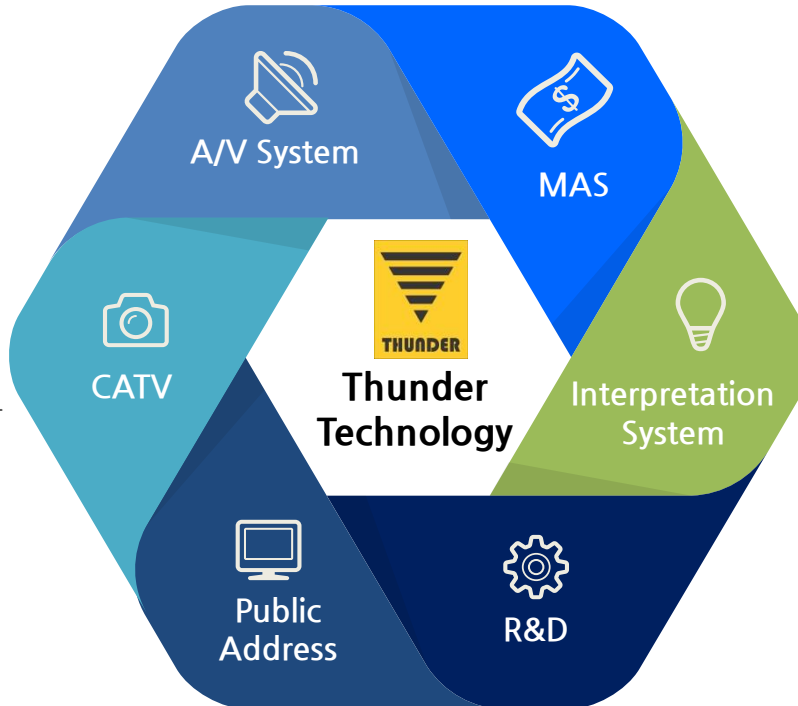
MAS (Procurement)

- Procurement Quality
- Performance Authentication
- Multiple Award Schedule



CATV

- Government
- Streets & Village
- Satellite Receiver



Interpretation

- Provide & Install @ Government Office, Church, Meeting room & Interpretation



Public Address System

- Government Office
- Schools
- Department Store
- Tunnels and more



R&D

- Research & Development New Products
- Technical Support

06 Technology for A/V System

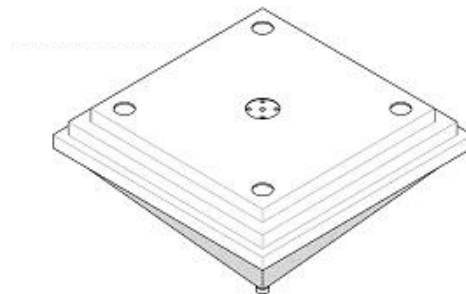
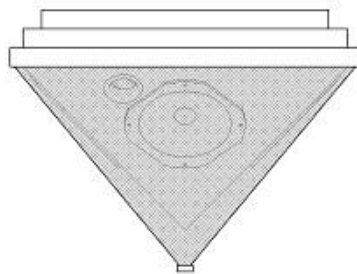
Technology for Speaker Enclosure Design

- Painting Enclosure Technology (Patent no. 0506581)
- Poly Urea Coated
 - Water-proof, Rust Resistance, Abrasion resistance, Shock Resistance, Cold Resistance and Durability
 - Used on the field such as Coating Material of Offshore construction



| Tensile Strength | Tearing Strength | Hardness | Adhesive Strength |
|-------------------------------|-------------------------------|-----------|--------------------------|
| 210 ±30 kgf / cm ² | 100 ±15 kgf / cm ² | 350 ±100% | 15 kgf / cm ² |

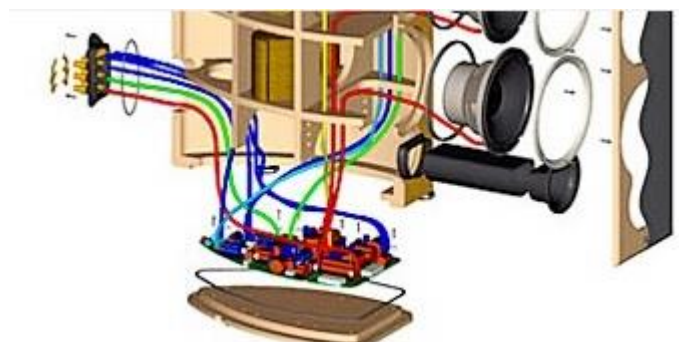
Technology for Cabinet Design



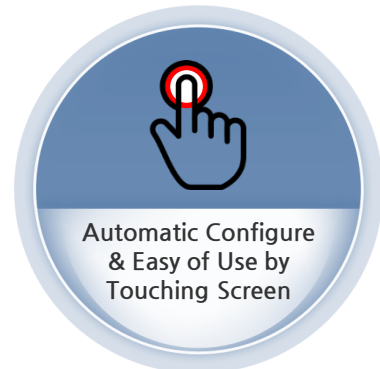
- 360° Coverage with one speaker
- Close to the original sound

Technology for Network Circuit Design

- Manufacturing <Optimized Network Circuit> by selecting material carefully
- Distributing Efficient Frequency range for each unit characteristics



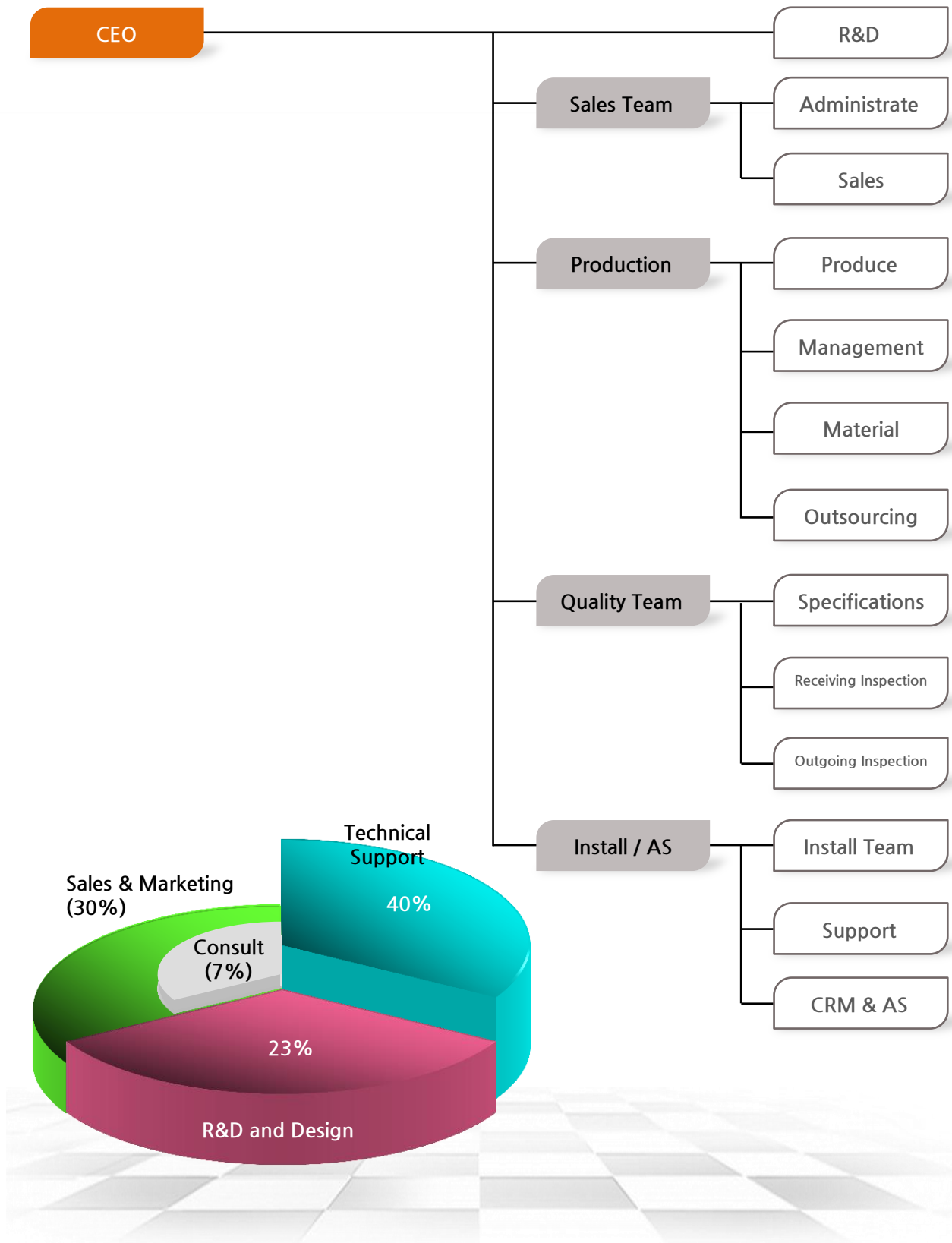
Digital - Analog Hybrid PA System



1. Introduction

07

Organization



1. Introduction

08

Address

Head Quarter



Street No. 6, Inkyo 4 gil, Wooa-dong, Dukjin-gu, Jeonju city, Jeollabuk-do, South Korea



Factory



Street No. 15-15, Keobukbawi-ro 3 gil, Jinan-eup, Jinan-goon, Jeollabuk-do, South Korea

Seoul Office



#B-209, Sigma 2, Koomi-dong 18, Sungnam city, Kyoungki-do, South Korea

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Performance Authentication

제 24-219 호

성능인증서

- 제 조 업 체 명 : (주)썬더테크놀로지
- 대 표 자 성 명 : 강용희
- 소 재 지 : 전라북도 진안군 진안읍 거북바위로3길 15-15
- 인 증 품 목 : 디지털·아날로그 하이브리드 믹서 기능을 겸비한 전관 /AV 방송시스템
- 성능검사 규격기준 : (회사제시 규격) 전주시의회 사무국 규격확인
- 인 증 유효 기 간 : 2016. 11. 22. ~ 2019. 11. 21.
- 인 증 품 목 의 용 도 : 공공기관 납품용

「중소기업제품 구매촉진 및 판로지원에 관한 법률」 제15조 및 같은 법 시행규칙 제11조4항에 따라 위와 같이 성능인증을 합니다.

2016년 11월 22일

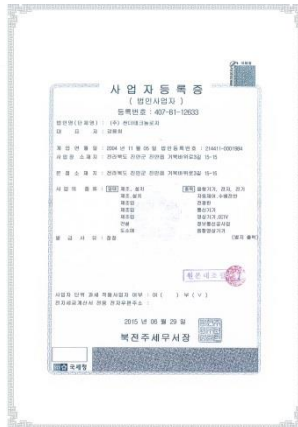
중 소 기 업 청



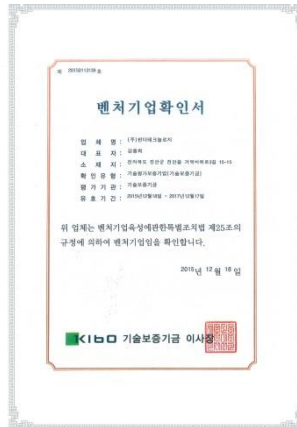
01

Certificates

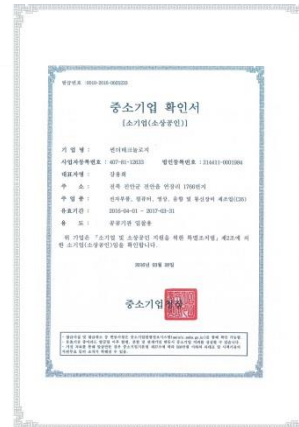
Certificates for R&D, Venture companies and more



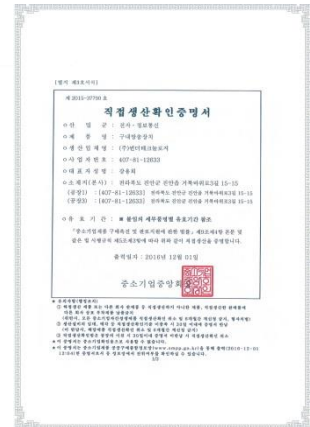
Registration



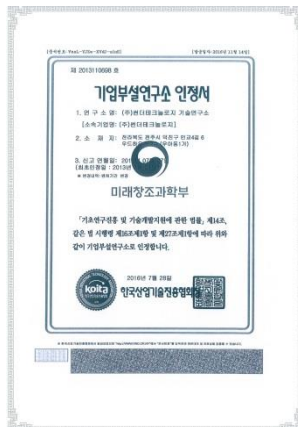
Venture Company



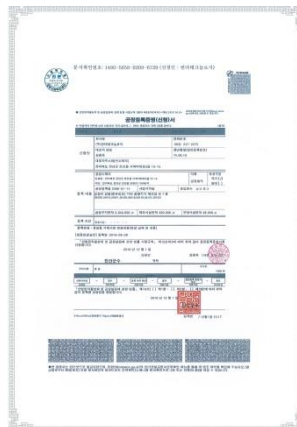
Mid-small company



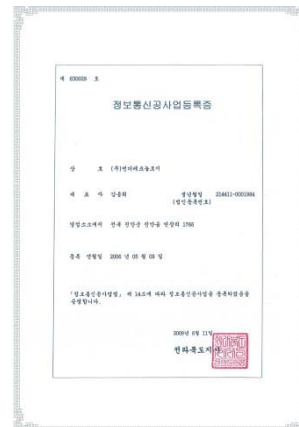
Direct Production



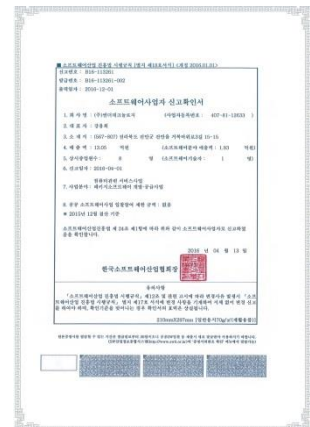
R&D Certificate



Factory Registration



Construction Certificate



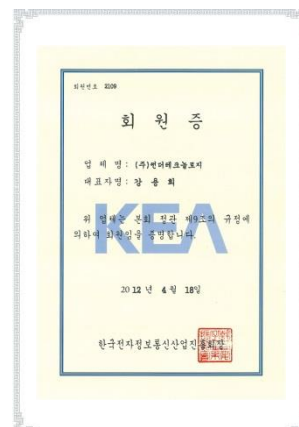
S/W business Certificate



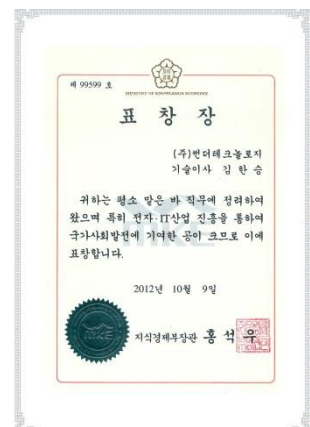
ISO-9001



ISO-14001



KEA Membership



Citation from
Ministry of
Knowledge

02

Patents and more

Patents, Design registrations



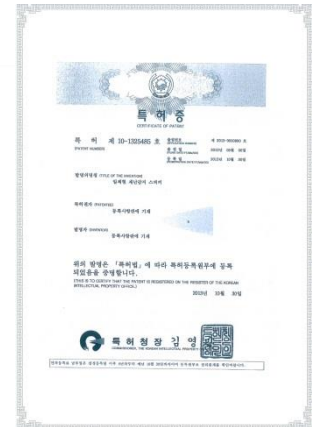
10-1522661



10-1616965



10-1530291



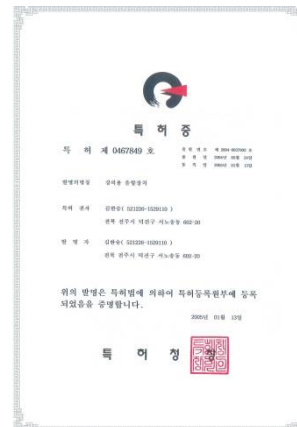
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0506581



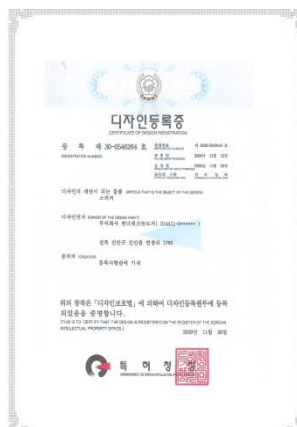
0489981



0467849



Design Registration
30-0520431



Design Registration
30-0546264



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3. Products

01

Digital - Analog Hybrid Public Address System

Digital - Analog Hybrid Public Address System



Features

- Digital - Analog Hybrid PA System & HIBS-2000 (Software) are the World's first **voice guidance** broadcast equipment (Korea patent 10-1522661) - when detect operator, Hybrid PA system provides guidance of operating method by voice automatically.
- The cutting-edge digital/analog hybrid public address system switches to analog mixer operating mode when failure of digital mixer occurred.
- Anyone can operate multi-source broadcasting by using simple touch screen.
- All devices are using DC that eliminate AC hum noise.
- Easy & simple installation - system configuration is very simple and easy to install because many function such as EM, Timer, Fire detection are integrated to hybrid mixer.



3. Products

02

SR Speakers

HF Series



• Features

- ULTRA COMACT LOUD SPEAKER
- Suitable for small concert hall, lecture room and any other various places
- Feedback has been reduced with Thunder Technology's own knowhow
- Optimized Sound is output in narrow places
- Enclosure is stable and solid which is made with **Silver Birch in Finland**

DF Series



• Features

- Powerful 2-WAY SPEAKER SYSTEM
- Suitable for Studio Monitor & Conference room, etc.
- Neodymium LF driver
- Providing Outstanding resolution & Natural Sound
- Outstanding Water proof & UV protection case



3. Products

02

SR Speakers



Features

- Thunder Technology's own <Cabinet Design Technology> is applied
- Pyramid shaped so that each face has one full range or LF/HF all-in-one unit
- 360° range is widely covered to provide clear & full sound source
- Suitable for LIVE café, Convention hall, Church with a great interior design effect



Features

- CM Series, TM Series, DM Series, COAXIAL Series
- CM Series apply Coaxial Neodymium Driver
- Back side has 2.2 HF driver & duct for covering audience's shadow zone in front of the stage
- Compact Design
- Suitable for Studio Monitor, Concert hall, Musical and various broadcasting centers
- Maximized for the dynamic Frequency Response and rich sound reproduction



3. Products

02

SR Speakers

KT Series Line-array Speaker



• Features

- THUNDER TECHNOLOGY's own **Network Circuit Design** knowhow is applied
- Horizontal 90°, Vertical 5° Coverage angle shows a great linear direction
- Mechanical Cabinet design is optimized to perform acoustic functions
- Poly Urea Coated Enclosure
- 2-way Line Array Speaker
- Maximum & Dynamic Frequency Response when Concert or Tour Sound

TELOS Series Line-array Speaker



• Features

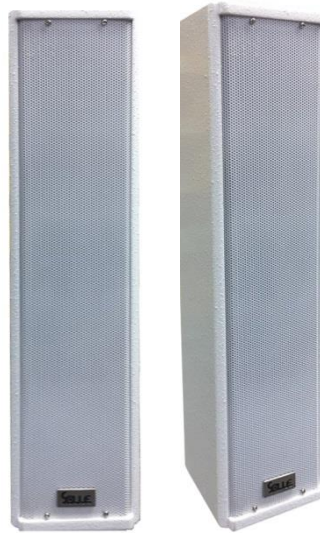
- **POWERED Line Array speaker** which is suitable for large sized Concert and Tour-Sound
- Integrated Splay Bracket for easy & fast rigging
- Poly Urea Coated Enclosure
- Horizontal 90°, Vertical 5° Coverage angle shows a great linear direction
- Total 1200W Digital Power AMP
- Applied 24bit DSP provides compact & powerful sound

3. Products

02

SR Speakers

POINT ARRAY Series



• Features

- Passive Type High Quality Column Array Speaker
- Virtual Waveguide Technology is applied.
- Wide Frequency Range is covered.
- Reproduce Outstanding Low tone without Subwoofers
- Suitable for Cathedral, Church, Meeting room and Seminar, etc.



TU Series



• Features

- High Quality 2-WAY SPEAKER SYSTEM
- Suitable for the various places such as Studio Monitor and Conference room
- Mixed Structure with **Steel & Wood** Enclosure Technology is applied
- Providing Outstanding resolution & Natural Sound



3. Products

03

Digital Power Amplifier

TD Series



• Features

- Digital Power AMP.
- TD-2000K :
 - S/N rate : 117dB
 - Power :
1000W@4Ω
500W@8Ω
- TD-10000K : 4CH
 - S/N rate: 115dB
 - Power :
2500W@4Ω
12000W@8Ω

SA Series



• Features

- Class-D Amplifier
- Light but powerful sonic performance
- High efficiency & sound quality

MULTI-CH AMP



• Features

- 8CH Digital AMP.
- Suitable for PA system and BGM broadcasting
- High efficiency & low distortion
- Power: 120W per CH
70V 4Ω / 100V 8Ω

3. Products

03

Digital Power Amplifier

FT Series



Features

- FT-7000,6000 : Class- H Amplifier
- FT-5000 : Class- AB Amplifier
- Exceptionally high power handling
- High damping factor
- Parallel operation available, automatic clip limiting

PA Series



Features

- Suitable for PA system and BGM broadcasting
- Low noise & High output power
- Remote port - Remote power on/off control at emergency situation
- Low distortion and high S/N ratio

DH Series



Features

- Class- D Amplifier
- Exceptionally high power handling
- Fan-Less cooling system
- Low frequency cut point can be selected to fit different load operation

3. Products

04

Other Products

Power Distributor



PD-800K

Features

- 8CH Power Distributor
- 2400W per CH
- Surge protection
- 6 Channels of AC power supply on/ off sequentially

Conference MIC.



Dynamic MIC.



Gooseneck MIC.



Features

- LCD Text Display status
- MIC. Unit (TM-900CK/TM-900DK) available to connect up to 60 max.
- 1, 3, All simultaneously control MIC. (FIFO mode, Limit mode)
- In-dashed Anti-Gain-Drop circuit to use multiple MICs.
- Independent monitoring with installing MIC. Speakers
- Available to control with 8bit MIC.



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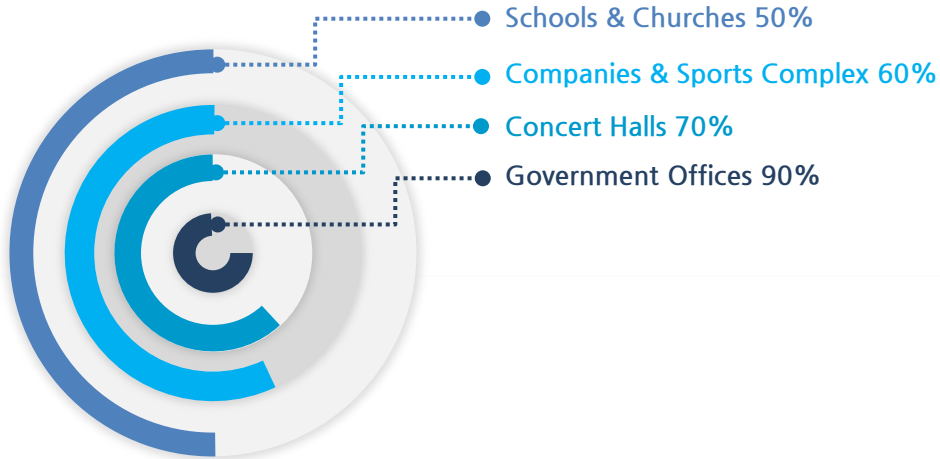




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01

Summary



| Schools & Churches | Companies & Sports Complex | Concert Halls | Government Offices |
|--|---|---|---|
| <ul style="list-style-type: none"> • Seoul National Univ. • Kyoungbook University • Daejeon Emoon Highschool • Kwan-ak Highschool • Gwang-ju University of Education • Jeonbuk University of Education • Jeonbuk University Iksan Campus • On-yang Jaeil Church • Chunho Cathedral (Resurrection) • Kwang-ju Seonam Church • Nam-won Ssankyo-dong Cathedral • Russia University of Agriculture • Ik-san Highschool Auditorium • Haga Elementary School • Gyeryongdae Hoguksa Temple • Kwang-ju Shinwon Bethel Church • Song-jung Central Church • Gyeongsan middle school  | <ul style="list-style-type: none"> • Pyeongchang Ice Hockey Stadium • Jeon-ju World Cup Stadium • Koksung Sports Complex • Dam-yang Sports Complex • NH Insurance Institute • Yang-Pyeong Sports Complex • Sk Corp. @ Kwang-ju branch • Jeon-ju Hwasan Gymnasium • Busan Centum City • Im-sil County hall • National Agricultural Cooperative Federation • Moo-Rim Paper • Daejeon Rehabilitation Center • Koonsan Badminton Stadium • Koonsan Wolmyoung Baseball Stadium • Hwa-soon Public Stadium • Shin-Pyoung Culture & Sports Center • Koon-san Baseball Stadium • Koon-san Wolmyoung Sports Complex • Yeo-su Jin-nam Sports Complex • Kochang Sports Complex • Jin-an Culture & Art Complex • LOTTE Duty Free shop @ Incheon International Airport | <ul style="list-style-type: none"> • Nam-won Choonhyang Culture Center • Dongdoochun Women's Culture Center • LG Art Center (Small Theater) • Yeo-su Art & Culture Center • Hanwoori Art & Culture Center • Jeon-ju Traditional Culture Center • Goo-Rye Culture & Art Center • Bo-sung Culture & Art Center • Jeon-ju Hanbyuk Cinema • Koon-san Culture Center • Yeo-su Civic Center  | <ul style="list-style-type: none"> • Jeonju City Council • Namsan Park in Asan • Shinjung Lake in Asan • National Brand Committee • Memorial for Seoul Olympic • Ma-san City Council • KEPCO Central Institute • Wonkwang Temple for the Ministry of National Defense • Jeon-book Government Institute • Jang-su County Broadcasting Facility • A-san City hall Auditorium • Disaster and Emergency Operations Center @ Jeonbuk Provincial Government • Jeon-book New Regeneration Energy Center • Wolmyoung-dong Community Center • Seoul Highway PA System • Moon-kyoung Women's Center • Kwang-myoung Community Center • Koon-san Convention Center • Korea Food & Drug Administration • Wan-san Library • Chung-song County Culture Center • Jeon-ju Dukjin Youth Training Center • Jeollabukdo Office of Education • Jin-an County Council • Jeonbuk Development Corporation • Jeon-ju Teenager's Street • National Forestry Cooperative Federation forestry training center • Im-sil County Office • Jeon-ju North Culture Center • Liquor Them Museum • Jeon-nam Agricultural Research Center • Korea Hydro & Nuclear Power |

02

Installed places



Jeonju City Council (Auditorium A/V Speaker System & Public Address System)



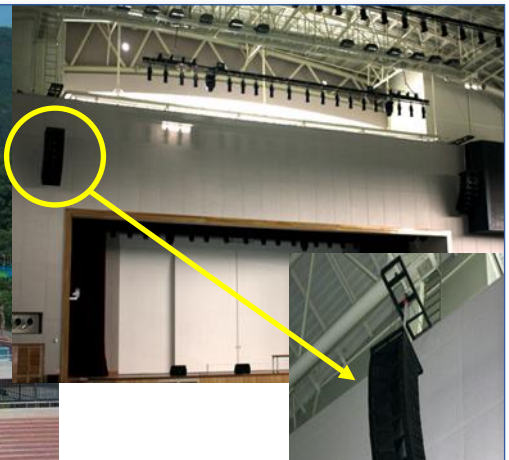
Jeonju World Cup Stadium

02

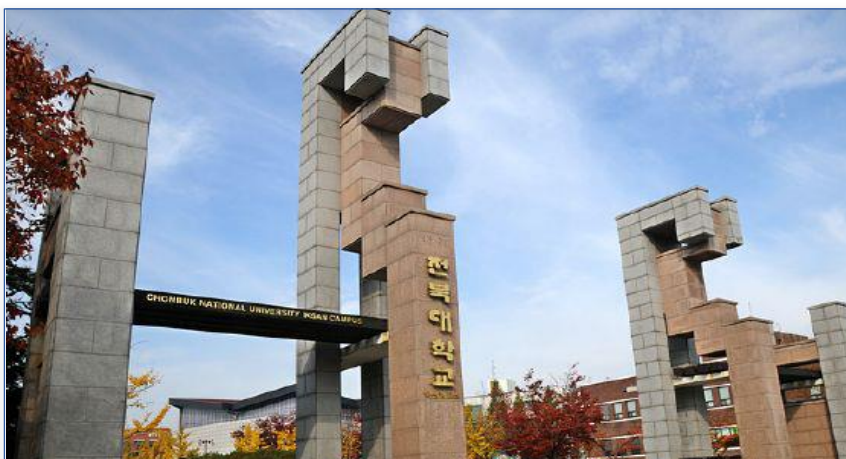
Installed places



Bo-sung Art & Culture Center



DamYang-gun Indoor Sports Complex



Junbook University Iksan Campus Sports Complex



02

Installed places



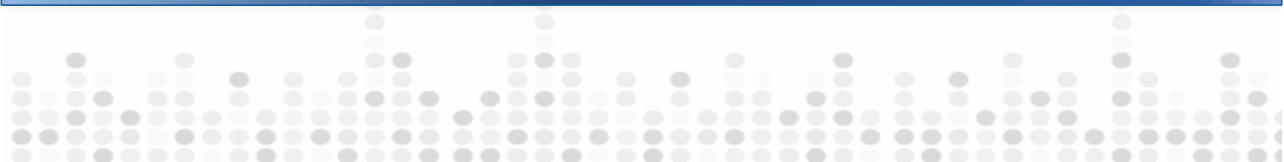
Choon-Hyang Art & Culture Center



Jeonju Hwasan Sports Complex

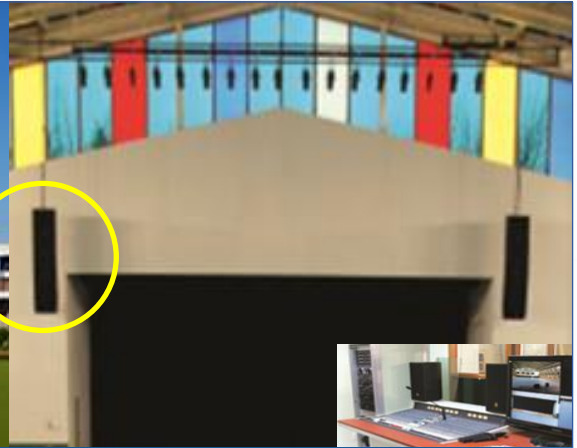


Nam-won Ssangkyo-dong Church



02

Installed places



Kok-sung Gymnasium



Jeollabukdo Office of Education



Jeon-ju City Han-Byuk Theater

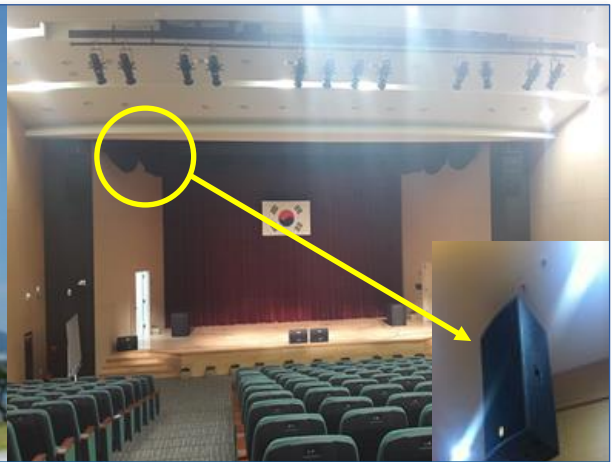


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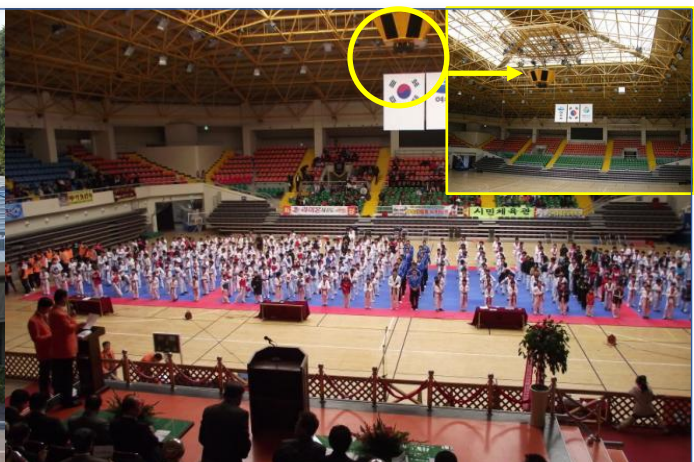
Installed places



NH Byun-san Institute



Koo-Rae Art & Culture Center



Yeosu Jin-nam Sports Complex

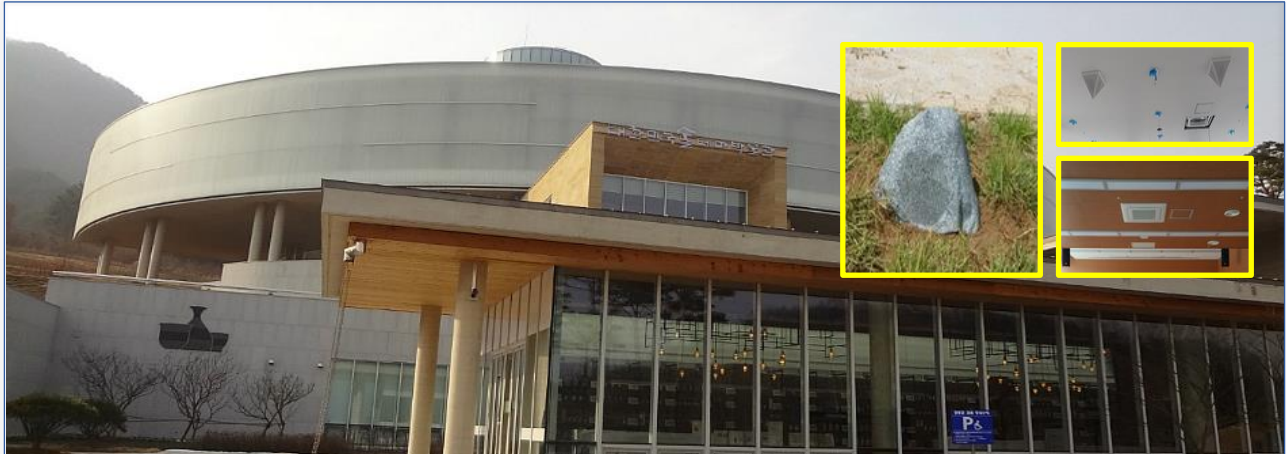
02

Installed places

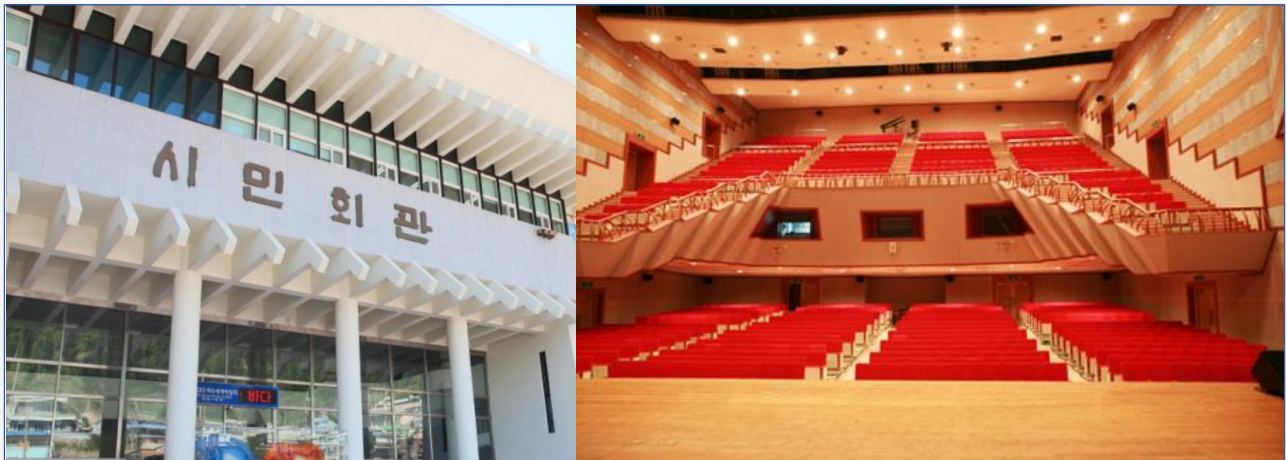


02

Installed places



Liquor Museum



Yeosu Citizen Hall



Saemangum Fusion Center



02

Installed places



Jun-book Development Corporation (Government Office)



Imshil County Hall



Kunsan Badminton Court



02

Installed places



Kunsan Culture Center



LOTTE Duty-Free Shop in Incheon International Airport



Tunnels on the Highway in Seoul

02

Installed places



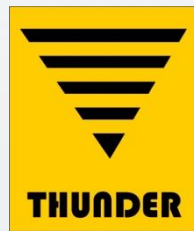
Jeonju City-Hall



Chun-Ho Holy Resurrection Church







- HQ & Factory: Street No. 15-15, Keobukbawi-ro 3 gil, Jinan-eup, Jinan-goon, Jeollabuk-do, South Korea
- Business Office: Street No. 6, Inkyo 4 gil, Wooa-dong, Dukjin-gu, Jeonju city, Jeollabuk-do, South Korea
- Office in Seoul: #B-209, Sigma 2, Koomi-dong 18, Sungnam city, Kyoungki-do, South Korea
- TEL: (HQ) +82-63-247-1673, (Seoul) +82-2-6417-1673
- Website: www.thunderspeaker.com

