

### CEO

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### Products

Terrestrial DMB International Business  
Total Solution provider

### Profile of Company

IT R&D GLOBAL LEADER

## PRODUCTS

### DMB Multiplexer

- A DAB Service and ensemble multiplexer
- A PAD & NPAD inserter ETI
- An IP tunnelling system
- A DMB multiplexer with ETI, DVB-ASI & UDP or http feed
- A DMB multiplexer under IP
- MPEG2 or MPEG4 or H264 encoding
- Uses low Bit-rate
- A quality transmission with 30 frames per second full motion video
- Allows transmission with PAL, SECAM, NTSC source
- Connection between encoder and multiplexer by ASI, G703 or HTTP Streaming
- Reed Solomon processing
- Convolutionally interleaved processing



## PRODUCTS

### PMP

The compact portable media player V4300 bring you T-DMB mobile TV, DAB+/DAB digital radio, FM radio, multi-media player all-in-one ergonomic receiver device.

- Broad display digital LCD mini TV, designed by the updated DMB/DAB+/DAB services with high quality screen & audio
- Easy and convenient operation by using full touch LCD display
- 4~6 hours continuous Movie or DMB play support by using 1000mAh built-in battery
- Enjoy A/V play without external earphone/headphone by using 1W Built in mono speaker
- External micro SD slot support : 1, 2, 8 and 16 GB microSD (memory card Not included)
- Upgradability : S/W can be upgraded via updated F/W from
- FM Radio play support (optional)
- MP3 player and photo viewer support
- 4.3 inch LCD size, 16 :9 widescreen



### M2

- Operating Frequency GSM900/1800/1900 or GSM850/1800/1900 GPRS & EDGE
- Key point : TDMB TV Phone including CAS
- Dimensions(mm) : 105 × 55 × 12.8
- Battery(mAh) : 1000mAh
- Available Color : Black/Silver
- Standby time(hrs) : 200~300hrs
- Storage Capability : Depends on T-Flash Memory
- Form factor : Full Touch Bar
- RF Antenna : Internal
- TV Antenna : Internal and available with touch pen
- SMS/EMS/MMS, 64polyphony



### NAVIGATION

- Broad display digital LCD Navigation, designed by the updated DMB services with high quality screen & audio
- Movie player : H. 264/ MP3(MPEG-1 audio Layer 3) audio format file only : file trans-coding required for other file formats
- Easy and convenient operation by using full touch LCD display
- Enjoy A/V Play by using 1W built in mono speaker
- Video Player, MP3 Player and photo viewer support
- 7 inch LCD size, 16"9 widescreen
- UBLX GPS Full Engine Module with built-in Antenna
- Mobile Tv player : Band III (174~240MHz) frequency support
- Photo viewer : BMP, JPG
- ETC : MEMO, Clock, Setting



### Editing & Production Equipments

Professional Audio Equipments

### Output Systems

Relay Systems

Transmission Systems

Test & Measuring Equipments

Others



High Gain Antenna

# HIGH GAIN ANTENNA CO., LTD.

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**Products**

Broadcasting Antenna

**Profile of Company**

Since its establishment in 1970, High Gain Antenna Co., Ltd. is the only company in Korea that has been in pursuit of a single path for the future of the communications from satellite, mobile and telecommunications to hi-tech communications.

As a manufacturer of antennas, it has been devoted to the research and development of mobile communications antenna.

## PRODUCTS

### DMB VHF 2-Dipole Antenna (Vertical polarization)

- This is vertical polarization antenna and suitable for DMB, which has been improved single directional gain by arraying two  $0.7\lambda$  dipole vertically on  $1\lambda$  reflector. It is able to get omni direction pattern by mounting antennas to 4 sides of a square steel tower and be made of steel or aluminum (purchase requirement).



### NTSC/DTV UHF 4 - Dipole Antenna

**Model No.**

HG-4UD-H

HG-4UD-V

**4 - Dipole Antenna**

HG-4UD Series are composed of four plate-type dipoles mounted on a reflecting screen and a radome. The dipoles are fed in parallel to obtain the desired radiation pattern of directional or omnidirectional. The reflector is rigidly fastened to the sides of tower. A weather resistant radome ensures the use of this antenna in all climates and harsh environmental conditions.

HG- 4UD Series are used for DTV/NTSC, PAL, SECAM Broadcast.



H

Editing & Production Equipments

Professional Audio Equipments

Output Systems

Relay Systems

**Transmission Systems**

Test & Measuring Equipments

Others

DTV

H

DTV

**CEO** ▶ Nag-Hee, Kim / Young-Han, Yang  
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**Products** ▶ MPEG-2/MPEG-4 H.264 HD/SD Encoder  
 ATSC Remodulator, ATSC/QAM/DVB-T Modulator  
 ASI Distributor, Media Converter

**Profile of Company** ▶ Hoseo Telecom Co., Ltd, founded in 1991, is one of the most famous and professional company at CATV industry in Korea, which dedicated to the design, manufacture and sales of digital Head-end products.

With a strong R&D team of over 20 professional engineers, we are engaged to research and innovative series of new products to meet the market requirement. During 2009, we have successfully participated series of overseas exhibitions, including IBC in Amsterdam, NAB in Las Vegas and INTERBEE in Japan. We gained good reputation from our customers and made great impression to them.

We are offering Digital Head-end equipments all solutions. Main equipments with our own core technology include MPEG-2/MPEG-4 H.264 HD/SD encoders, QAM/ATSC /DVB-T Modulator, ATSC Remodulator, Multiplexer, ASI distributors, Media Converters, Optical Network equipments, Analog CATV products are quite popular in the market and also guarantees high performance, high quality, price competitiveness.

### Editing & Production Equipments

- Professional Audio Equipments
- Output Systems
- Relay Systems

### Transmission Systems

- Test & Measuring Equipments
- Others

## PRODUCTS

### ▶ DME-1904HD MPEG-2 & MPEG-4 H.264 Encode (Professional use)

#### [Introduction]

High Definition Encoder, where Video/Audio analog signals and digital input signals are processed by digital compression/encoding technology and then outputted into Transport Stream suitable for digital transmission as Professional equipment accepting audio format of Dolby Digital AC-3, MPEG-1 Layer-II, AAC, HE-AAC and encoding video format of MPEG-2 MP@HL, HP@HL or MPEG-4 AVC(H.264) MP@L4, HP@L4.

#### [Feature]

- Composite & component video input
- HDMI / HD-SDI digital input
- Stereo analog Audio input
- Audio 5.1 channel (SPDIF) optical input
- MPEG-2 or MPEG-4 AVC(H.264)
- Dolby Digital AC-3, MPEG-1 layer-II, AAC, HE-AAC
- Built-in TVCT&CVCT generation function
- 2 ASI outputs, 1 ASI input (PSIP/SI) interface
- MPEG-2 TS over UDP/IP, RTP/IP interface
- Web browser & SNMP remote control



### ▶ DMP-1903HD Mediaplex (Professional use)

#### [Introduction]

This is a professional HD Mediaplex combining **HD Encoder** which outputs transport stream suitable for digital signal transmission through the processing of the video/audio analog and digital input signals with the digital compression/encoding technology with the **8-VSB(QAM/DVB-T) Modulator** which converts the transport stream signals outputted from the Encoder into 8-VSB(QAM) mode suitable for DTV broadcasting and outputting it to the frequency band suitable for digital broadcasting transmission.

#### [Feature]

- Component & Composite video input
- HDMI, HD/SD-SDI digital input
- Stereo analog audio input
- Audio 5.1 channel (SPDIF) optical input
- AES-EBU digital audio input
- Selective MPEG-2 or MPEG-4 AVC (H.264)
- Dolby Digital AC-3, MPEG-1 layer-II, AAC, HE-AAC
- Real time processing based on RTOS SoC
- Built-in TVCT&CVCT generation function
- Optional QAM or DVB-T Modulation
- Web browser and SNMP remote control



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**Products**

P.A System / S.R System / Security System

**Profile of Company**

For more than two decades, Inter-M has been building quality commercial sound and professional audio products. With a single-mindedness of purpose: "We make it easy" For its products to be designed and installed into systems.

Inter-M has been recognized as the standard of quality, reliability, and performance by contractors around the world. Inter-M offers a comprehensive family of amplifiers, matrix system, mixer/amps, mixers, signal processing, sources, speakers, and specialty products.

We promise to keep working harder and we will be in a constant state of change from now on. Honest management is our priority for becoming a company; we take responsibility for customers and society. To make that possible, your interest and support are mostly needed. We, Inter-M will be with you anytime and anywhere.

To make that possible, your interest and support are mostly needed. We, Inter-M will be with you anytime and anywhere.

**PRODUCTS**

**IPC - III System**

**Multimedia IP Broad Casting System**

- 8CH SD video streaming
- Multi BUS broadcasting
- User control 15" LCD touch panel
- Time signal and Preset broadcasts
- Text(as page unit) broadcasting
- BGM can be broadcast using CD/Deck/Tuner/Built-in CD-ROM, MP3
- Emergency Interface
- Upward broadcasting and monitoring up to 4CH of each local broadcasting



**PAC - 5000**

**Digital Public Address Combination System**

- Integrated Digital PA Combination System(All in One)
- Simultaneous 2 group different broadcasting
- Digital processing & Digital Amplifier
- 24 Zone Selector, 2 Group(High Impedance)
- Remote control through RS-232(PC & AMX/CRESTRON)
- CD Copy(Extend life-time of CD mechanism)
- USB Interface(USB host)
- Built-In various sound sources: CD-DA, CD-R, CD-RW, MP3 Play, WMA, FM Tuner, USB, DRP



**PSI-5120/5240**

**Digital PA System**

- Splendid design
- Digital processing & Digital amplifier
- 10 zone selector(High impedance)
- Remote control through RS-232 (PC & AMX/CRESTRON)
- Built-In various sound sources : FM Tuner, 6CD, 1CD, USB, DRP
- Reliable CD mechanism(Anti-shock system)
- CD Copy(Extend life-time of CD mechanism)
- USB Interface(USB host)





## JINMYUNG COMMUNICATION CO., LTD.

### CEO

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### Products

- Digital(ATSC, DTB-T) TV Transmitter
- UHF TV BROAD BAND Panel antenna
- UHF Parabolic type antenna receiving
- Vhftv broad band panel antenna
- Vhffm broad band panel antenna
- DMB Transmitting System

### Profile of Company

Jinmyung Communications established in 1995 professionally manufactures and provides equipments related to TV and Radio Broadcasts such as AM, FM, TV Transmitters, and Antennas so on to Broadcast Industry such as KBS, MBC, SBS, CBS, FEBC etc.

Additionally, We finished developing Digital TV Transmitter / Translators cooperating with LG Electronics for the first time in Korea(2002) and now manufacturing and providing them. Our products are manufactured in our own factory under quality control system with ISO 9001.

### Editing & Production Equipments

Professional Audio Equipments

Output Systems

### Relay Systems

Transmission Systems

Test & Measuring Equipments

Others

## PRODUCTS

### Digital TV Transmitter

- ATSC A64 Standard - DVB - T Available
- Remote Control(Ethernet / fixed IP or RS422 Communications)
- LD-MOS(MRF6VP3450) Transistor HPA(Superior Performance in UHF Wideband)
- UHF 1W ~ 2500W Average Output Power(After Mask Filter Output)
- Each Unit independent Forced Air Cooling Type
- Each Unit independent Power Supply allows easy inspection & trouble shooting
- Arrester & Noise Filter installed to protect from Surge

Bandwidth	: UHF Wide Band(470~810MHz)
Output	: ATSC 20W(after BPF), available up to 2.5kW
Gain	: better than 60dB
Impedance	: 50 ohm
IMD	: -40dB
SNR	: 34dB
Input Connector	: N Female
Output Connector	: 7/8" EIA Flange
Cooling	: Forced Air Cooling
Dimensions	: 2000(H)×600(W)×1100(D)mm
Weight	: 500kg
Operating Temperature	: -10 ~ 45°C
Power Source	: AC 380, 3 Phase, 4 Wires, 50/60Hz



DTVR 20W Passive Reserve System

### UHF Wideband Panel Antenna

Frequency	: UHF(470~860MHz Windband)
Polarization	: Horizontal
Return Loss	: UHF(470~860MHz Wideband) > 26.4dB
Power Rating	: 1.8kW with 7/8" EIA Flange Input 5kW with 1 5/8" EIA Flange Input
Impedance	: 50 ohm
Gain(1Panel)	: 10.9dB @470MHz, 12dB @630MHz
Front to Back Ratio	: Better than 15dB
Wind velocity(max)	: 225Km/h
Lightning Protection	: DC Grounded
Weight	: 12kg



UHF Wideband Panel

### CEO

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### Products

PA system, amplifier, speaker etc

### Profile of Company

I am delighted to extend my warmest greeting to you.

Over 30 years since we founded Karak in 1977, we have achieved solid growth in audio, video, security and PA(Public Address) system business. All of the outstanding performance that Karak has attained became to fruition through the trust and affection of customers and cooperative parties who expressed interest in Karak.

Karak is taking our first step into the next 30 years.

We will exert ourselves to world audio and PA market to provide valuable audio and PA experience for world potential customers.

Eventually we will be the one who create and give back more value to the world potential customers.

At Karak, all our members are preparing for a new next 30 years.

Once again, I wish to extend my sincere welcome to you and hope that you may take joyful for Karak via our online site.

Thank you.

## PRODUCTS

### OTL Digital Amplifier PRODIGI 6800

- This product is an OTL(Output Transformer Less) amplifier.
- It can be automatically converted into DC24V in case of power failure.
- Adopting OTL SEPP circuit, it can provide high power output with less space .
- Compared to the existing amplifiers, it has benefit to reduce the installation space to much extent.
- Compact size based on 1U design
- High efficiency based on Class-D amplification using PWM method
- Light weight based on SMPS technology and SEPP circuit
- Embedded protection circuit for output DC to check and prevent over-current and over-heat.
- Remote control through Power Control terminal



Standard	Performance		
Model	PRODIGI 6800	PRODIGI 4800	PRODIGI 3800
Rated Output Power (RMS)	680W	480W	380W
PA Output Impedance (70V/100V)	8/15Ω	10Ω /20Ω	17Ω /35Ω
Output Power (8Ω )	650W	500W	450W
High-pass Input Filter (HPF, -3dB/OCT)	300Hz		
Frequency Response(-3dB/OCT)	20Hz ~ 20KHz		
Dynamic Range	> 100dB		
S/N Ratio(S/N)	> 100dB		
T.H.D(Max volume)	< 0.2%		
Input Level	1.0 ~ 5.0V rms		
Efficiency	80%		
Power supply / Frequency	AC 200 ~ 240V /50, 60Hz		
Emergency Power supply	DC 22 ~ 28V		
Power consumption	750W	620W	430W
Weight	5.0kg	4.5kg	4.5kg
Dimensions (W×H×L)	483×44×340mm 1H (With Bracket)		
Protection Circuitry	Overload Protection / Thermal Protection Speaker Short Protection / DC Output Protection Speaker Protection / Power ON/OFF Muting Power Short Protection		

Editing & Production Equipments

### Professional Audio Equipments

Output Systems

Relay Systems

Transmission Systems

Test & Measuring Equipments

Others

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**Products** ▶ Microphone

**PRODUCTS**

▶ **KD-818**

< **Dynamic Microphone** >

- Type Hyper Cardioid Dynamic
- Frequency Response 60- 13,000Hz
- Output Impedance 400ohm
- Sensitivity -74dB ± 3dB (0dB=1V/0.1 Pa at 1kHz)
- Max.SPL More Than 130dB



▶ **KD-2000**

< **Dynamic Microphone** >

- Type Hyper Cardioid Dynamic
- Frequency Response 50- 13,000Hz
- Output Impedance 400ohm
- Sensitivity -74dB ± 3dB (0dB=1V/0.1 Pa at 1kHz)
- Max.SPL More Than 130dB



**PRODUCTS**

▶ **KD-940LG**

< **Condenser Microphone** >

- Element Back Electret Condenser Microphone
- Type Hyper Cardioid
- Frequency Response 50-18,000Hz
- Output Impedance 600Ω
- Sensitivity -54dB ± 3dB (0dB=1V/0.1 Pa at 1kHz)
- Max. SPL More Than 126dB
- Signal to Noise Ration More Than 45dB
- Power Supply Phantom or Battery 1.5V AA
- Battery Life Up to 5000 hours (Premium Alkaline Battery)



▶ **KD-990LG**

< **Condenser Microphone** >

- Element Back Electret Condenser Microphone
- Type Hyper Cardioid
- Frequency Response 50- 18,000Hz
- Output Impedance 600Ω
- Sensitivity -41dB ± 3dB (0dB=1V/0.1 Pa at 1kHz)
- Max. SPL More Than 126dB
- Signal to Noise Ration More Than 45dB
- Power Supply Phantom or Battery 1.5V AA
- Battery Life Up to 5000 hours (Premium Alkaline Battery)



## KEVIC, INC.

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**Products** ▶ Digital PA System

### Profile of Company

World-wide brands, EV(Electro-Voice), MIDAS, SAMSON, Crest-Audio, Digidesign, KLOTZ and so on. We have provided high efficient products to the customers with reasonable price.

According to accomplishing balance fo levels for sound system products between performance and cost, KEVIC has kept the best performance and received high recogniton with hte field of audio and visual equipments in the market.

We take pride in future-oriented and ambitious thchimcians and prefect performance of our responsibility, ourselves.

Thanks.

## PRODUCTS

### ▶ Pro Digital PA System

- Pro Digital PA system is researched and developed by our engineering staff's unique technology, which is the first innovative PA system in the world. Everyone can easily set it up and conveniently operate it as well. In 2005, we achieved GD mark (great design mark) Ministry of Knowledge and Economy, which is the high technology PA system having very beautiful design and centering on customer.



### ▶ Semi Digital PA System

- Pro Digital PA system is researched and developed by our engineering staff's unique technology, which is the first innovative PA system in the world. Everyone can easily set it up and conveniently operate it as well. In 2005, we achieved GD mark (great design mark) Ministry of Knowledge and Economy, which is the high technology PA system having very beautiful design and centering on customer.



Editing & Production Equipments

### Professional Audio Equipments

Output Systems

Relay Systems

Transmission Systems

Test & Measuring Equipments

Others



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**Products** LED Lighting

## Profile of Company

Koil Corporation is the distributor of broadcasting, communication, pro sound, motion picture and lighting equipments in Korea. Koil has been distributor of many qualified brands such as Sennheiser, Wohler, HME, Dolby, Panasonic, Toshiba, and etc. Koil has been in broadcasting and cinema industry since 1984, and we continue to offer products with quality and service.

To keep up with the fast-growing lifestyle of the equipment, KOIL strives to gather the latest information for customers. Especially, Koil Corporation has started producing LED Lighting products based on our know-how by handling qualified products in Korean market.

As for the service, we provide the fast and accurate after service for the customers from our skilled engineers. Like our motto, "Customer is always right", KOL welcomes every customer who is interested in our products. We are ready to support our customers and fulfill their needs.

## PRODUCTS

### DIGITAL SPOT LIGHT unique spot light, LED 260W

- With the constant color of tungsten bulbs and low-power Fresnel LED of Spot light, it saves 75% of power consumption.

Even though existing Tungsten Lamp has been replaced due to limitation of 200 hours life cycle; however, the LED light source enables to curb the cost of operation while maximizing life cycle and minimizing power distribution of LED engine.

In addition, DMX Control made Dimming and Focusing possible.



### DIGITAL FLOOD LIGHT unique flood light, LED 200W

- LED Flood Daylight which fulfills CRI (color rendering) 86 can save 75% of electricity consumption.

Existing Tungsten Lamp has been replaced after 200 hours life cycle limitation.

On the other hand, LED engine's exceptional life cycle and minimized power distribution effect was applied to the unit, and DMX Control enabled to feature dimming function on its own.



Editing & Production Equipments

Professional Audio Equipments

Output Systems

Relay Systems

Transmission Systems

Test & Measuring Equipments

Others

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**Products** Machine, Lighting Equipment, Control Equipment

## Profile of Company

The manufacturing industry(Stage Machinery and Lighting Facilities at Concert Hall & Tv Broadcasting Station)

## PRODUCTS

### Lighting Console KKS-CLC Series

- Voltage : AC110V, AC220V



## PRODUCTS

### Spot Light KKS-LSP-650

- Body : Al Die Casting & Steel
- Lens : 6" Fresnel & Convex
- Barndoor : Aluminium
- Socket : G-22
- Voltage : AC110V, AC220V
- Painting : Powder Coating
- Dimming : 0 ~ 100%
- Cable : RCT 1.5m
- Weight : 6kg

- Lamp : Halogen Lamp
- Reflector : AL MS-10 Coated
- Plug : 30A C-Type
- Wattage : 650W



### UPPER Light & LOWER Light KKS-LU800 / KKS-LL800

- Body : Steel
- Reflector : AL MS-10 Coated
- Socket : R7s
- Voltage : AC110V, AC220V
- Dimming : 0 ~ 100%
- Weight : 2kg

- Lamp : Halogen Lamp
- Plug : 30A C-Type
- Wattage : 800W
- Painting : Powder Coating
- Cable : RCT 1.5m



### Splitter KKS-CSP

- DMX In and Out DMX Loop Out
- Voltage : AC110V, AC220V
- Dimension : 483W x 230D x 44H
- Signal : DMX 512
- Specification : 1 IN 10 OUT
- Socket : XLR PIN

- High Brighten Power and Data LED
- Frequency : 50Hz or 60Hz



### Wireless Remote Controller KKS-CPC

- Dimension : 100W x 32D x 63H
- Weight : 300g
- Power : DC9V(Rechargeable Batteries)



## Editing & Production Equipments

- Professional Audio Equipments
- Output Systems
- Relay Systems
- Transmission Systems
- Test & Measuring Equipments
- Others

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**Products** ▶ NS-8ECO

## Profile of Company

Leem Products was founded on Nov, 1981.

We have started to produce and export Musical Instrument cables and Audio Parts at the beginning.

As a leading company in the musical instrument market, LEEM has been researching and developing all kind of sound equipment systems.

Now we are focusing on high technology equipments with the best quality and service.

We are producing powered mixer, mixing console, speaker, complete PA system and wireless system. Not only we produce the qualified products but we also supply a competitive price from our China factory.

We believe that LEEM will be the best valuable BRAND in near future because we have an enough experience, products facility and passions for sound.

We know all what musician's want.

You will found the variety products and get the useful information while you stay on our home.

## PRODUCTS

### ▶ NS - 8 ECO

- ENERGY SAVE SEQUENCE POWER SWITCH

#### SEQUENCE POWER



#### NS-8ECO

Monitoring Display	AC VOLTAGE, CURRENT, WATT
Load capacity	10A per each channel, Total 80A(8ch)
Control channel	8CH
Channel interval	0.1sec ~ 999sec
Serial port	RS232C, RS485
Out connection	AC DIRECT OUT(1CH), DC5V/500mA USB LAMP, DC24V/1.5A FAN
AC Terminal	3 screw fix type
Link	Enable / 4P DIN CABLE
ECO control	Current setting, Current Time setting, Channel Time Interval setting
AC Control	Channel On/Off, AC Voltage setting BY PASS SWITCH
Power Consumption	60 watts
Dimension (W×H×D)	483×89×300mm
Weight	10kg
Option	RS-232 / RT-80 Remote Controller

Editing & Production Equipments

**Professional Audio Equipments**

Output Systems

Relay Systems

Transmission Systems

Test & Measuring Equipments

Others



## SIMS CORP.

### CEO

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### Products

Digital Audio Interface

### Profile of Company

Bring your emotion back

## PRODUCTS

### UFO#[Sharp]

1. Phantom Power Supply +48v
2. Mic Pre Amp
3. Audio Interface(USB 2.0 High speed)
4. Available Ultra Low Latency from SIMS driver technology.

#### [Specs]

- Polar pattern : Cardioids
- Diaphragm : 1 inch Gold plated Diaphragm
- Sensitivity of microphone : (1kHz) 30mV / 1Pa (94dB) SPL
- Noise level : 4uV
- HP / Line amp output impedance : < 2 ohm
- Load impedance of headphone : 30 ~ 300 ohm
- Resolution of digital parts : 16 - bit
- Sample rate of digital parts : 44.1kHz and 48kHz



## PRODUCTS

### Blow5#[Sharp]

1. Flat frequency response Monitor Speaker.
2. Bi-amplifier 2-way Speaker (High-efficiency)
3. DA-912 DAC Module
  - Built-in DAC, Available Digital Input
  - S/PDIF, AES/EBU
  - 123dB Dynamic Range, up to 24-bit/192kHz

#### [Specs]

- 2-way bass-reflex bi-amplified 5 inch near field studio monitor
- Flat frequency response ( $\pm 1.5\text{dB}$ , 58Hz to 20kHz) and wide pass-band frequency (50Hz ~ 22kHz)
- 90 watt (40 watt HF and 50 watt LF) Full discrete power amplifiers
- Full magnetic shielded enclosure and independent amplifier room
- XLR and 1/4"TRS phone jack balanced/unbalanced inputs
- Input sensitivity control
- High frequency 3-step tilt controls switch
- Acoustic space control switch
- Bass cut-off frequency control switch
- Front Illuminant Logo lamp and protection indicator
- High-strength cabinet constructed MDF composite with radius edges
- XLR for AES/EBU (IEC60958) and RCA for S/PDIF coaxial digital inputs
- High-end 24-bit/192kHz D/A converter with 123dB dynamic range

BLOWS



Editing & Production Equipments

### Professional Audio Equipments

Output Systems

Relay Systems

Transmission Systems

Test & Measuring Equipments

Others

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**Products** Portable Wireless Microphone Amplifier

## PRODUCTS

### TRAMP-USD

- Output : 50W
- Weight : about 8kg
- Size : 205(W) × 245(D) × 270(H)mm
- Portable AV multi-media solution of DVD and USB, SD-Card player suitable for DVD, VCD, SVCD, MP3CD discs together with superb 50-watt amplifier and wireless microphone system.



## PRODUCTS

### CHAMP-PC30D

- Output : 100W
- Weight : about 17kg
- Size : 270(W) × 270(D) × 410(H)mm
- Full featured multi-media model with powerful 100 watt PA amplifier and wireless microphone system. The DVD, USB, SD-CARD player is interfaced with a TFT monitor that can show video playback of DVD and aid selection of music tracks for play back through display of file contents.



### TROJAN-380

- Output : 380W
- Weight : about 28kg
- Size : 340(W) × 380(D) × 530(H)mm
- Max.380 watt high-efficiency bridged digital amplifier equipped with DVD, USB, SD-CARD player and each 2 of wireless and wired microphone. All channels has independent Treble / bass tone controls.



## Editing & Production Equipments

- Professional Audio Equipments
- Output Systems
- Relay Systems
- Transmission Systems
- Test & Measuring Equipments

## Others

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## Products

Speaker, Amplifier, Microphone, Wireless System,  
Headphone, Cable, Equalizer, DSP

## PRODUCTS

### ▶ SPEKTRIX (Manufacturer :ADAMSON)

- Frequency Response(+/-3dB) : 80Hz to 18KHz
- Maximum SPL(Peak) : 130.1dB / 136.1dB
- Directivity : 120×5
- Power Handling(AES / Program / Peak)  
LF : 250 / 500 / 1000W  
MF : 250 / 500 / 1000W  
HF : 80 / 160 / 320W



## PRODUCTS

### ▶ PLM10000Q (Manufacturer:LAB.GRUPPEN)

- Number of input channels 2
- Number of output channels 4
- Peak total output all channels driven 10800W
- Max. Peak output voltage per channel 153V
- Max. Output Power
  - 16 ohms : 660W
  - 8 ohms : 1300W
  - 4 ohms : 2300W
  - 2.7 ohms : 2700W



### ▶ MC 834 (Manufacturer:beyerdynamic)

- Transducer type : True condenser
- Polar pattern : Cardioid
- Microphone frequency response : 20 - 20,000Hz
- Net weight without packaging : 290g



### ▶ MC 834 (Manufacturer:beyerdynamic)

- Inputs : Electronically balanced (transformers optional)
- Outputs : All electronically balanced (transformers optional)
- Impedance : >10k Ohms
- CMRR : > 65dB 50Hz - 10kHz
- AES/EBU fitted as standard to all Series 4 units
- Source Imp : < 600
- Frequency Response : ±0.5dB 10Hz - 32kHz
- Dynamic Range : >116dB 2 Ohms
- Minimum Load : 600 Ohm
- Maximum Level : +20dBm into 600 Ohm load
- Sampling Rate : 96kHz internal, up to 192kHz can be accepted and converted 0Hz - 20kHz. Unwtd
- Distortion : < 0.001% @ 1kHz, +10dBm
- Maximum Delay : 650 mS. (increment 0.325 μs steps)
- Output gain Adjustable +15dB to -40dB in 0.1 dB steps and mute



## STAR L.V.S

### CEO

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### Products

LED Spot Light, LED Dimmer, LED Control system,  
Consoles, dimmers, halogen light

### PRODUCTS

#### LED SPOT HEAVENSTAR 31W

- Manufacturer : STAR LVS
- Wattage : LED 31W LED SEOUL SEMICONDUCTOR
- Body : Aluminum die casting
- Color Temperature : 3200K/6500K
- Dimming control : 0-100% control possibility
- Angle : 15°, 25° Choice
- Lighting Control System : DMX 512, and Direct ON/OFF
- Control Channels : 2 or 3 channels
- Fan : Nones, Natural circulating cooling system
- Noise : 0dB, No-noise
- Illumination : 5M or more in the 650Lux
- Dimensions : 217×286×238mm (L×W×H)
- Power : 220V / 60Hz
- Weight : 3.18Kg



### PRODUCTS

#### LED SPOT SUPERSTAR 144W

- Manufacturer : STAR LVS
- Wattage : LED 144W LED SEOUL SEMICONDUCTOR
- Body : Aluminum die casting
- Color Temperature : 3000K/4000K
- Dimming control : 0-100% control possibility
- Angle : 10°, 15°, 30° Choice
- Lighting Control System : DMX 512, and Direct ON/OFF
- Control Channels : 2, 3, 4 channels selectable
- Fan : Nones, Natural circulating cooling system
- Noise : 0dB, No-noise
- Illumination : 5M or more in the 1200Lux
- Dimensions : 300×300×240mm(L×W×H)
- Power : 220V / 60Hz • Weight : 8.3Kg



#### LED BROAD LIGHT 108W

- Manufacturer : STAR LVS
- Wattage : LED 108W LED SEOUL SEMICONDUCTOR
- Body : Aluminum die casting
- Color Temperature : 3000K/4000K
- Dimming control : 0-100% control possibility
- Angle : 15°, 30°, 45°, 50°, 60° Choice
- Lighting Control System : DMX 512, and Direct ON/OFF
- Control Channels : 3 channels
- Fan : Nones, Natural circulating cooling system
- Illumination : 3.5M or more in the 1040Lux
- Dimensions : 290×220×250mm(L×W×H)
- Power : 220V / 60Hz • Weight : 6Kg



#### LED ELLIPSOID SUPERSTAR 130

- Manufacturer : STAR LVS
- Wattage : LED 145W LED Brige lux (made in USA)
- Body : Aluminum die casting
- Color Temperature : 3200K/6000K Choice
- Dimming control : 0-100% control possibility
- Angle : 18° ~ 50°, 38° ~ 66°
- Lighting Control System : DMX 512, and Direct ON/OFF
- Control Channels : 1 channels
- Fan : Forced ventilation system, Exhaust fan in the back
- Illumination : 5M or more in the 1400Lux
- Dimensions : 650×360×430mm(L×W×H)
- Power : 220V / 60Hz • Weight : 10.4Kg



Editing & Production Equipments

Professional Audio Equipments

Output Systems

Relay Systems

Transmission Systems

Test & Measuring Equipments

Others

**CEO**

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**Products**

AMP, Speaker, Processor, Mixer etc

**Profile of Company**

Especially, we are now supplying studio monitor speaker (Model name : VL-15) to TEAC Corporation and their global sales networks in the world as OEM production.

TRUND has been participating at famous aconstant exhibitions both of domestic and abroad after NAMM show in USA(Feb.) and Frankfurt Show in Germany(Apr.) in 2000, Fortunately we could gain the hot popular favor and encour agement from so many visitors.

We are running the R&D center in Korea and two factories both of in Korea and Guangdong province, China. We are doing our best to be the competitive general maker of PA system in Korea sharing ideally the roles together. We would like to ask you to give us constant interest and kind encouragement.

Editing & Production Equipments

**Professional Audio Equipments**

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Others

**PRODUCTS**

▶ **PL7320, PL7520, PL7720**

PI7 series Amplifiers, matching with simple and elegant outlook, has become the exciting mainstream products, which is the essence of concentration and of the first-class technical quality and stability.



▶ **FX16, FX24, FX32**

**[FEATURES]**

- External Power Supply
- Low Noise & Crosstalk
- With 8 Channels (FX16)/16 Channels (FX24)/ 24 Channels(FX32) of Microphones & Effects Return
- 8 Channels of Stereo Inputs, 4 Signal Inputs Channels of External Stereo
- Stereo Outputs, 2 Auxiliary Outputs, Effects-sending Outputs
- 1 Group Stereo CD & Tape Input & Output
- Stereo Output Effect Return Function
- 2 Independent DSP Effectors, one is for Invoice the other is for music instruments



▶ **DP24, DP26, DP48**

**[FEATURES]**

- 192kHz Sampling Frequency, 24-bitA/D and DIAconverter, 32-bit DSP processor.
- 6 Models available : 21ns/40outs, 21ns/60outs, 21ns/80outs, 31ns/60outs, 41ns/60outs, 41ns/80outs.
- USB and RS485 connector are provided to be connected with PC. 250pcs of the devices can be connected together via RS485 and it can be remote controlled far from 1500m.
- 30 kinds of user programs can be stored into the device.
- Input channel functions : gain, delay, polarity, parametric EQ
- Output channel functions : gain, delay, polarity, crossover, compressor/limiet, matrix, parametric EQ
- Link and control channels together
- Password lock function : lock all front panel functions/lock all front panel functions except load function





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### Products

Broadcast and Professional Monitors

### Profile of Company

TVLogic is a leader in the designing, manufacturing and developing high-performance HD video equipment for the digital broadcast and professional video markets.

Since 2002, TVLogic has been dedicated to developing and manufacturing the highest quality video monitoring systems available for broadcast, production and post production as well as digital signage & multi-viewer applications. Our unique technology and innovative designs have provided customers in top broadcasting and production facilities around the world including BBC, CNN, VRT, CBC, NBC, ESPN. As a leading pioneer of broadcast equipment in South Korea, our growth has been accentuated with expanded mass-production systems that consistently achieve higher performance, lower costs and enhanced quality control.

### PRODUCTS

#### ▶ TDM Series

- 24" & 47" 1920×1080 Resolution LCD 3DStereoscopic display(Passive)
- 2×HDMI(L/R) & 2×SDI(L/R) inputs
- 1 : 1 pixel mapping mode
- 3G-SDI Level A & B
- 2D, 3D Hot Key
- Left/Right Channel Only Function

### PRODUCTS

- Single/Dual stream 3D
- Firmware Update using Ethernet or USB
- 1Supports TVLogic Color Calibration Utility for propercolor alignment
- GPI(RJ45)
- Timecode Display(VITC, LTC)
- Waveform/Vectorscope(Y/Cb/Cr, Wide Type, LineWaveform)
- Range Error
- Marker(2D)
- Blue Only/Mono/Focus Assist
- Fast Mode(2D)
- Key lock
- H/V Delay
- Selectable 4 function keys

- UMD support(ANC, Manual, Dynamic and User)
- Closed Caption(608/708), OP-47
- Audio level meter display (horizontal/vertical, position, size and decay time selects)
- Selectable audio channels for speaker left/right
- Monitor control by using RS422/ Ethernet



#### ▶ XVM-325W

- 32" (1920×1080) 10-bit Color Critical LCD Monitor
- 32" 1920×1080 Native HD Resolution
- Matte Finish Panel
- High-Purity Precision RGB Matrix LED Backlight Array
- 1:1 Pixel Mapping Modes for SD/HD
- Supports TVLogic Color Calibration Utility for proper color alignment
- Supports Multi-point Calibration for RGB and White uniformity correction
- Supports 3D LUT & Adjustable Gamma (1.0 to 3.0) and user-defined mode
- Supports 3rd party 3D LUT formats for import and export
- Firmware update by using Ethernet or USB
- GPI(RJ45)
- Timecode Display(VITC/VTC)

- Waveform/Vectorscope(Y/Cb/Cr, Wide type, Line waveform and Range Error)
- Marker/User Aspect
- Blue Only/Mono
- X3 Zoom(PBP)
- Key lock
- H/V Delay
- UMD(ANC, Manual, Dynamic and User)
- Closed Caption: CEA- 608/708(SDI)
- Monitor control by using RS422
- 120Hz LCD



Editing & Production Equipments

Professional Audio Equipments

Output Systems

Relay Systems

Transmission Systems

**Test & Measuring Equipments**

Others

## VISUAL RESEARCH INC.

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### Products

Broadcast Graphics Solution

### Profile of Company

Since established in 1993, Visual Research Inc. Has grown into one of the leading provider of professional on-air graphics solutions for the broadcast industries.

As a leading manufacturer of professional character generator in Korea, our focus is to seek for the perfect solutions to achieve maximum convenience and reliability in the user's point of view and to provide the industry with the latest technologies.

One of our success factors is the ability to produce internationally qualified products at a competitive price. We are dedicated to developing solutions that are applicable and acceptable for the market.

### Editing & Production Equipments

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Others

### PRODUCTS

#### VisualCG 3D

- DirectX® 3D graphics rendering technology
- On-air updates: edit or add new templates while on-air for last minute changes
- Import a wide variety of graphic file format including BMP, TGA, TIFF, JPG, PSD, GIF, AI, X-file (Autodesk® Maya® and 3ds Max®)
- Supports codecs such as DV25, DV50, MPEG-2 I-frame, IBP, HD MPEG-2 I-frame, HD MPEG-2 IBP, HDV, DVCPRO HD, D10
- Playbacks HD/SD MPEG 2, MPEG 2 +Alpha and AVI
- Advanced real-time keyframe animation
- Over 200 real-time 3D transition effects Multi layer display of still, crawl, roll and animation
- Full HD sequenced TGA clip playback
- HD/SD switchable in software
- Full Unicode true type font support
- Preview channel [option]
- ODBC [option]
- Runs on standard non-proprietary PCs
- Supports various video I/O boards
- AES/EBU audio I/O channels



#### Karisma3D

- Integrated 3D animation and modeling tools
- Various viewports (Side, Top, Perspective, Camera, User)
- Primary 3D object creation (Cube, Sphere, Cylinder, Cone, etc.)
- Various light creation (Spot, Directional, Point)
- Real-time shader support (Phong, Refraction, Environment, Bump, Cartoon, Noise, etc.)
- 3D file format support (Collada 3D, OBJ, 3DS)
- Enhanced real-time keyframe animation (Motion Path, Hierarchy, Camera, Light)
- 3D chart wizard
- Multi texture mapping
- Dynamic particle system
- UVW mapping
- Useful Map browser
- Real-time live video texturing
- More than 8 multi-layer display
- TAPi (TCP/IP Automation Protocol Interface) support
- COM interface based SDK support



**CEO** ▶ Alex, Kim

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**Products** ▶ Digital Broadcasting System  
Live Contents Production System

## Profile of Company

One of the internet broadcast solution leaders, XENO Corp, have been offered internet broadcasting solution to Korean state-operated broadcasting station, and now, we made that solution to H/W.

That is UCCTOP XENO.

Based on many years broadcasting experience, we know very well the inquiries from broadcasters, that means UCCTOP XENO includes most essential technology all broadcasters want.

## PRODUCTS

### ▶ XENO HD-SS

- Integrated HD Broadcasting System
- Various broadcasting support through 3 video input
- Power point during real-time relay via HDMI
- Support of various digital video effects
- PIP and SCENE function
- Implementation of real-time virtual studio through chroma-key
- MPEG2 files record support
- Support of title logo, script writing function and flash animation file script input



### ▶ XENO HD-CTR

- Live Contents Production System
- Unmanned lecture contents production
- Tracking system
  - Lecturer tracing / Lecturer close up / Total view / Close up of black board / Teaching plan / PIP
- Along with lecturer's image, it inputs and records the screen of e-teacher's desk and board writing screen.
- Automatic switching by sensor / Camera position movement
- After automatic recording of lecture / After signal sending and lecture completion, automatic sending of contents
- Production of dynamic contents using video transitions and PIP, title insertion function



## Editing & Production Equipments

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- Others