



MODERN COMMUNICATION TECHNOLOGY

# Smart Factory Comprehensive Solution

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Guangdong Baolun Electronics Co., Ltd.



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# Construction background

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# Construction background

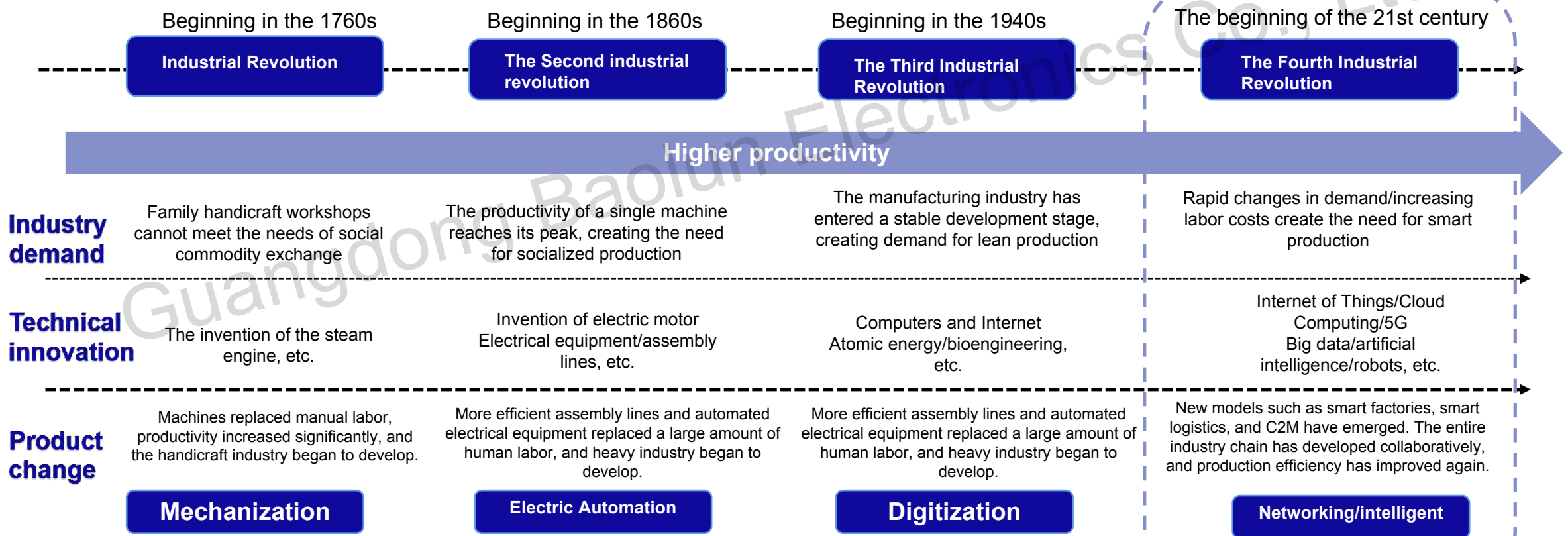


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With the development of new technologies, manufacturing industries in various countries have also begun a new wave of changes. Since the invention of the steam engine triggered the first industrial revolution in the 1860s, the manufacturing industry has gone through three stages: mechanization, electrical automation, and digitalization, and has entered the Industry 4.0 development stage represented by networking and intelligence. The development of technology has led to continuous improvements in productivity, and the pursuit of higher productivity and profit margins has led to continuous changes in the industry.





# Construction background

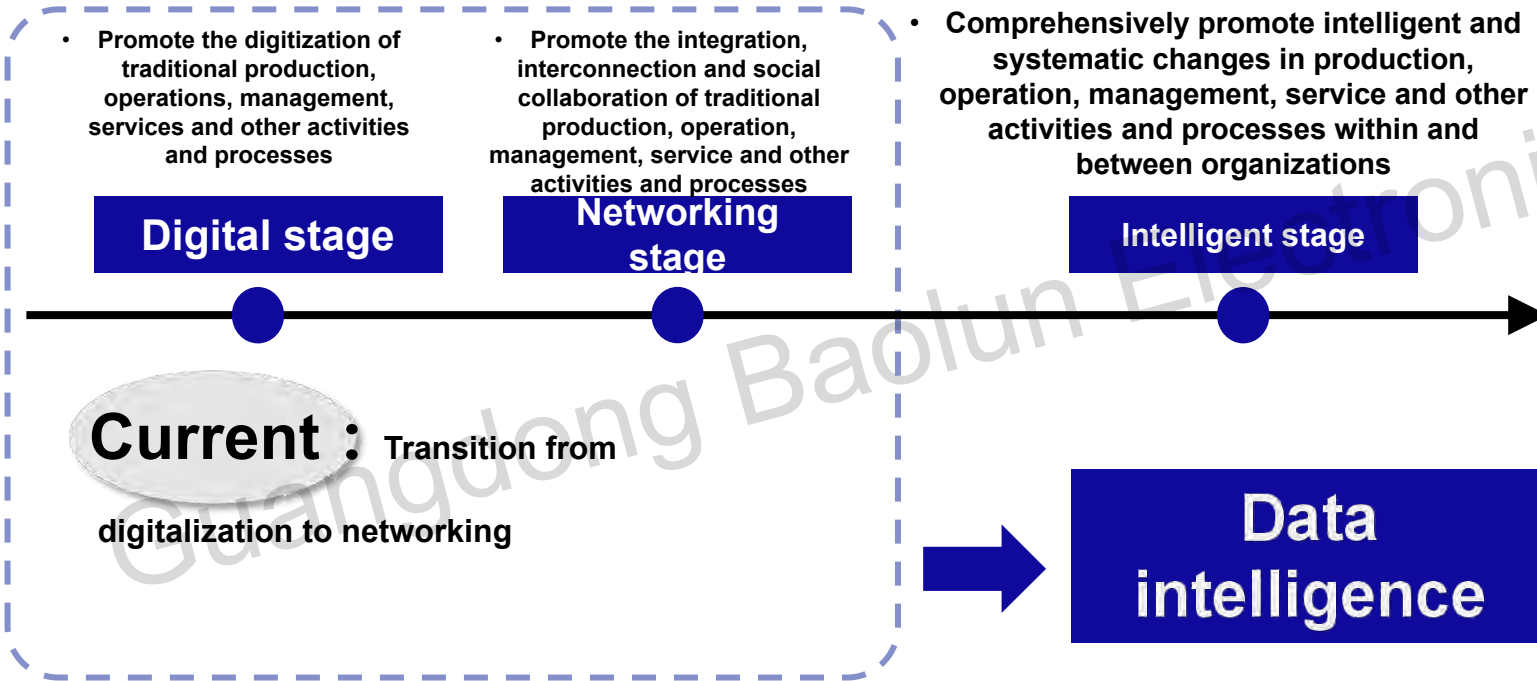


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Three stages of integrated development of digitalization and intelligence



## Digital industrial base

**Core: System Integration**

- Data collection
- Data integration
- System integration
- Policy support

## Smart manufacturing and production

**Core: Data Intelligence**

- IoT technology
- Combining virtual reality with smart manufacturing
- Reduce manual intervention
- Independent collection, analysis and judgment
- human-computer interaction



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# Scene design

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# Scene architecture



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Life cycle and value process: Create horizontal business links

Perception Transparent Optimization Sensitive Wisdom

Enterprise (business management).

Design

Plan

Production

Sale

Service

Management (production management)

Meeting reservation

Production data display

Modern meeting process

Post-meeting data tracking

Strategic task issuance

Attendance monitoring



Control (intelligent interaction)

Human detection

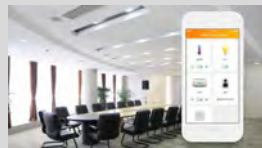
Device status feedback

Pre-meeting seat arrangement

Audiovisual dispatching

Human-machine collaboration

Fire linkage



Scene (system/equipment)

Professional sound system



Digital conference system



Cloud conference management system



Distributed dispatching system



Content Management System



Digital IP PA system



Realize vertical information transfer



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## Factory area

workshop  
Factory outdoor

## Office area

Board meeting room  
Department meeting room  
Orientation training room

## Multifunctional lecture hall

## Data center

## Other public areas

Staff canteen  
Dormitory  
Recreation area

# PART 03

## 3.1 Office area

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## Board meeting room

Conference management platform	1 set
HD Interactive Intelligent Flat Panel	1 pcs
Digital conference system	1 set
Speech transcription system	1 set
Paperless conference system	1 set
Video conference system	1 set



# Board meeting room



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## Scene introduction

The board meeting room is a high-end conference room, used for factory-related managers to hold corresponding daily meetings, important decision-making meetings, group remote meetings, etc. The design needs to meet the functions of daily conference sound amplification, high-definition display, remote video conference, and voice-to-text recording.

## Solution Highlights

### Office area space management

Initiate meetings through PC, mobile phone, reservation control screen and other methods. According to the requirements of specific meeting scenarios, one-click arrangement can be used to remotely realize the reservation and use of meeting rooms and the management of related equipment.

### HD display

Integrated a LED display, an electronic whiteboard, and a computer, with a 90% high color gamut and anti-glare function, make the display clearer and show meeting details.

### Professional conference sound reinforcement

High-fidelity pickup microphone with a pickup distance of more than 50cm. It is equipped with a digital mixer processor and DSP professional amplifier, and is equipped with dodging sound amplification and other technologies. It can be wall-mounted, vertically installed or hidden.

### Paperless collaborative meeting

Improve data management efficiency, reduce paper costs and save costs, achieve paperless energy-saving and environmentally friendly electronic meetings, and carry out efficient collaborative work.

### Meeting minutes

The real-time speech transcription efficiency is  $\leq 200$  milliseconds, and it can complete 1 hour of audio transcription in 5-10 minutes. The accuracy rate of standard Mandarin can reach more than 98%.

### Remote meeting

Realize remote video and conference management functions, which can be initiated in real time, hold meetings instantly, join meetings quickly and efficiently, and reduce travel time and costs.



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## Department meeting room

HD Interactive Intelligent Flat Panel	1 pcs
Digital conference system	1 set
Speech transcription system	1 set
Video conference system	1 set
Cloud conference digital signage	1 pcs



# Department meeting room



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## Solution Highlights

### Professional conference sound reinforcement

High-fidelity pickup microphone with a pickup distance of more than 50cm. It is equipped with a digital mixer processor and DSP professional amplifier, and is equipped with dodging sound amplification and other technologies. It can be wall-mounted, vertically installed or hidden.

### HD display

Integrated a LED display, an electronic writing whiteboard, and a computer, with a 90% high color gamut and anti-glare function, make the display clearer and show meeting details.

### Meeting minutes

The real-time speech transcription efficiency is  $\leq 200$  milliseconds, and it can complete 1 hour of audio transcription in 5-10 minutes. The accuracy rate of standard Mandarin can reach more than 98%.

### Remote meeting

Realize remote video and conference management functions, which can be initiated in real time, hold meetings instantly, join meetings quickly and efficiently, and reduce travel time and costs.

## Scene introduction

The department conference room is mainly used for daily meetings, routine meetings, and daily management training of relevant departments in the factory. It is designed to meet the needs of sound amplification and display at the venue. In addition, it also needs to meet the needs of related remote meetings within the group.



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## Orientation training room

Interactive All-in-one LED Display	1 pcs
Digital conference system	1 set
Professional sound system	1 set
Conference recording and broadcasting system	1 set
Cloud conference digital signage	1 pcs



## Orientation training room



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### Solution Highlights

#### Professional conference sound reinforcement

High-fidelity pickup microphone, the pickup distance can exceed 50cm, equipped with a digital mixer processor and DSP professional amplifier, equipped with ducking sound reinforcement and other technologies, and designed by professional acoustic software ease simulation.

#### HD LED display

Using PWM control technology, high gray level even in low brightness, static and high dynamic images are fine and lossless. No optical seams, 110/138/165/220 inches optional.

#### Information Release

The digital signage at the entrance of the venue can display relevant venue usage time, content, theme and other information, and can also be used as a check-in or reminder.

#### Clear venue recording

Support up to 4K real-time recording and comes with high-capacity storage, which can achieve real-time clear recording and can be archived and checked after the meeting.

### Scene introduction

The induction training room is used for relevant management system training, work skills training, work requirements training, technical training, etc. for new employees in the factory. The design needs to meet the requirements of on-site sound amplification and high-definition screen display. At the same time, the corresponding training customers can record it as a training course for new employees to watch later.



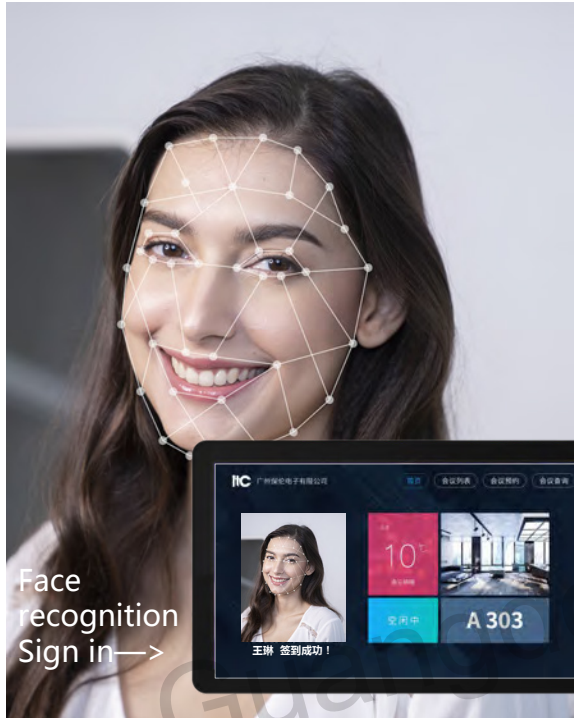
# Cloud conference management platform



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Face  
recognition  
Sign in—>



## Smart conference management platform

The itc conference management system initiates meetings through various methods such as PC, mobile phone, and conference room reservation control screen. According to the requirements of specific meeting scenarios, it can be arranged with one click and remotely control the conference room environment. Each conference room and sub-venue relies on hardware terminals to implement multi-party video conferencing functions. The docking supports various types of conference needs and can be applied to a variety of usage scenarios.

- Face recognition sign-in
- Gate control management
- Meeting appointment
- Personnel attendance
- Agent management
- Information Release
- Conference Services
- Conference environment control
- Asset Management
- Fusion docking
- Data analysis
- .....



# itcHUB Interactive Intelligent Flat Panel



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98" 86" 75"

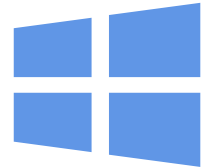
## Standard configuration:



Stylus  
Pen



Wall-mounted bracket



Windows 10 IOT

## Interactive Intelligent Flat Panel

itc Interactive Intelligent Flat Panel creates a one-stop conference application system, including preparation of electronic materials before the conference, participant and interactive collaboration during the conference, and unified organization of conference materials after the conference. In addition, there are rich conference functions, including wireless screen projection, electronic whiteboard, etc., which integrates a LED display, electronic whiteboard, and computer. It has high color gamut and anti-glare function, make the display effect clearer and show the details of the meeting. .

- Electronic whiteboard
- 90% screen-to-body ratio
- 4K Ultra HD
- Environmental awareness
- Removable module
- Attendee tracking
- Mixed split screen
- 40 points touch
- X86 architecture
- Reserve battery
- Various gadgets
- .....



# Interactive All-in-one LED Display System



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## Interactive All-in-one LED Display System

iTC Interactive All-in-one LED Display system adopts standard resolution and display ratio, adopts PWM control technology, low brightness and high gray 16:9 display ratio, and static and high dynamic pictures are fine and lossless. No optical seams 1920\*1080 resolution. The installation method depends on the actual situation. It can support wall hanging or floor-standing.

- Standard resolution
- PWM control technology
- Low brightness high gray
- Various installations
- Wireless screen sharing
- Built-in audio
- Dimming
- Rich interface
- Powerful core
- Glare
- Large memory.....



# Digital conference system



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## Digital conference system

The digital conference system takes the computer network as the platform and adopts all-digital network transmission and control. It can be widely used in: round table conference rooms, square table conference rooms, multi-functional halls, banquet halls, lecture halls and other conference venues. It provides better solutions for problems such as difficult sound amplification in conference rooms, prone to howling, and complex deployment. It can also realize many functions such as role separation, digital recording, evasive sound amplification, and seamless backup.

- Smart Mix AMM
- Automatic gain AGC
- Ducking sound reinforcement
- Seamless backup
- Convenient operation
- Virtual ranking
- Fidelity sound quality
- Super long battery life
- independent frequency band
- Ultra-low latency
- High scalability.....



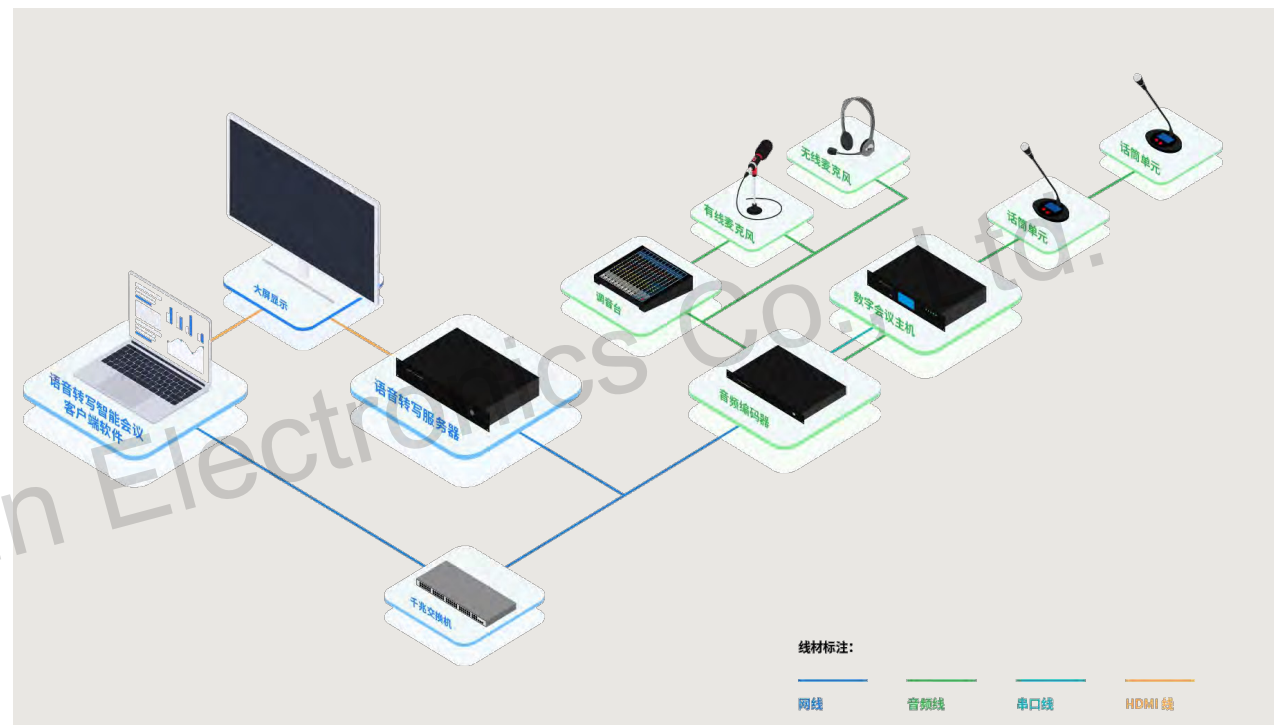
# Speech transcription system



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## Speech transcription system

Adopting the most cutting-edge speech transcription technology, the real-time speech transcription efficiency is  $\leq 200$  milliseconds. It can complete 1 hour of audio transcription in 5-10 minutes. The accuracy rate of standard Mandarin can reach more than 98%. It supports batch import and transcription of 50 audio pieces. .

- Role separation
- Emphasis mark
- Text audio synchronization
- Vocabulary replacement
- Keyword optimization
- Paragraphs and sentences
- Modal particle filtering
- Taboo word blocking
- Meeting recording
- Smooth sentences
- Multilingual applications.....



# Paperless conference system



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## Paperless conference system

Integrating the office automation OA system, you can complete office approval, attendance and leave, collaborative data conference, etc. with one touch. It helps to improve the efficiency of file management, reduce paper expenses and save costs, and realize paperless energy-saving and environmentally friendly office meetings and efficient collaborative training.

- Biometric sign-in
- Silky lift panel
- Intelligent same-screen broadcast
- Local remote interconnection
- Domestic Kirin support
- Save meeting notes
- Web page query information
- Scan the QR code to take notes away
- System confidentiality agreement
- Handwritten annotation files
- System integration and docking.....



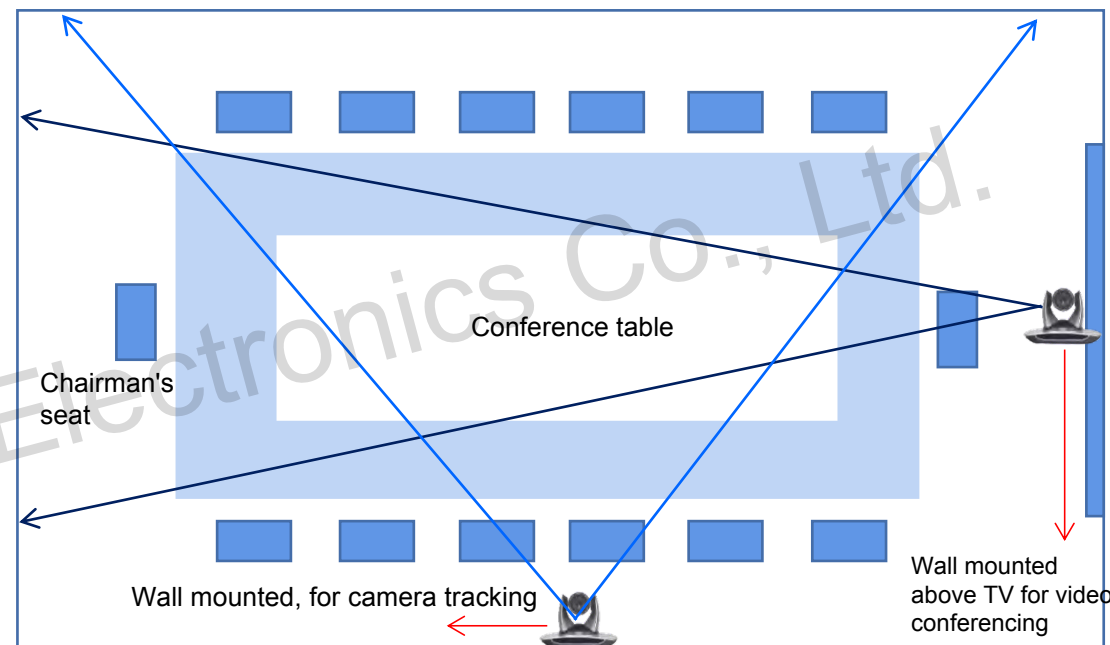
# HD recording system



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## HD recording system

For important meetings, it is often necessary to record the meeting contents; The conference recording system can record the shooting pictures, display screen pictures, speech sounds, multimedia audio and video, etc. during the meeting, and can provide online live broadcast viewing and supervision, post-meeting on-demand, resource integration and other application functions.

- HD recording
- Face tracking
- Easy to operate
- One click tracking
- CD-level sound quality
- DSP acquisition
- Low bandwidth requirements
- AAC encoding technology
- .....



# Video conference system



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## Video conference system

The itc video conference system integrates high-definition and smooth audio and video technology, supports seamless connection and rapid data sharing between different platforms, and realizes remote video interconnection meetings. It has rich meeting management functions, holds meetings instantly, and quickly and efficiently conveys policies, decisions or the spirit of superior meetings. , reduce business trip time and costs for leaders and staff, and greatly improve office efficiency.

- Sound source localization
- MCU assembly
- 4K quality
- Six major services
- Fusion docking
- multi-level architecture
- virtual meeting room
- Easy to deploy
- Dual-machine hot standby
- High fidelity sound quality
- IP camera access
- Infrared transparent transmission control



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PART 03

# 3.2 Multifunctional lecture hall

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# Multifunctional lecture hall

LED display system	1 set
Professional sound system	1 pcs
Stage lighting system	1 set
Digital conference system	1 set
VMS system	1 set
HD recording system	1 set





## Multifunctional lecture hall solution

Literary performance·Work report

The multi-functional lecture hall is used to hold various **important meetings, work reports, speech reports, event performances** and other activities; it provides excellent sound quality, clear screen display and simple and convenient centralized control.

- LED display system  
4K ultra-high definition seamless splicing and slim design
- Professional sound system  
Professional sound reinforcement technology, high-fidelity sound quality
- Stage lighting and curtain system  
Both performance and conference modes are available, with controllable curtains
- Distributed central control system  
Command and dispatch, centralized control equipment
- Digital conference system  
Long-distance sound pickup, wireless conferencing
- HD recording system  
High-definition recording and storage of important meetings and performances



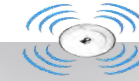
## LED UHD display system



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## LED ultra high definition display system

**ITC UHD LED display system** adopts China Top brand lamp beads, chip, **seamless display of entire screen**, to ensure the accurate display of digital signals, graphic signals and text signals. It supports multi-channel video display, overlay, with high reliability, to ensure 7/24 stable working condition of the LED screen. LED display with **high gray level and high refresh rate even in low brightness**. Viewers will not suffer from visual fatigue even after long-term viewing. **Dual backup of power supply signal** ensures steady working of the screen.



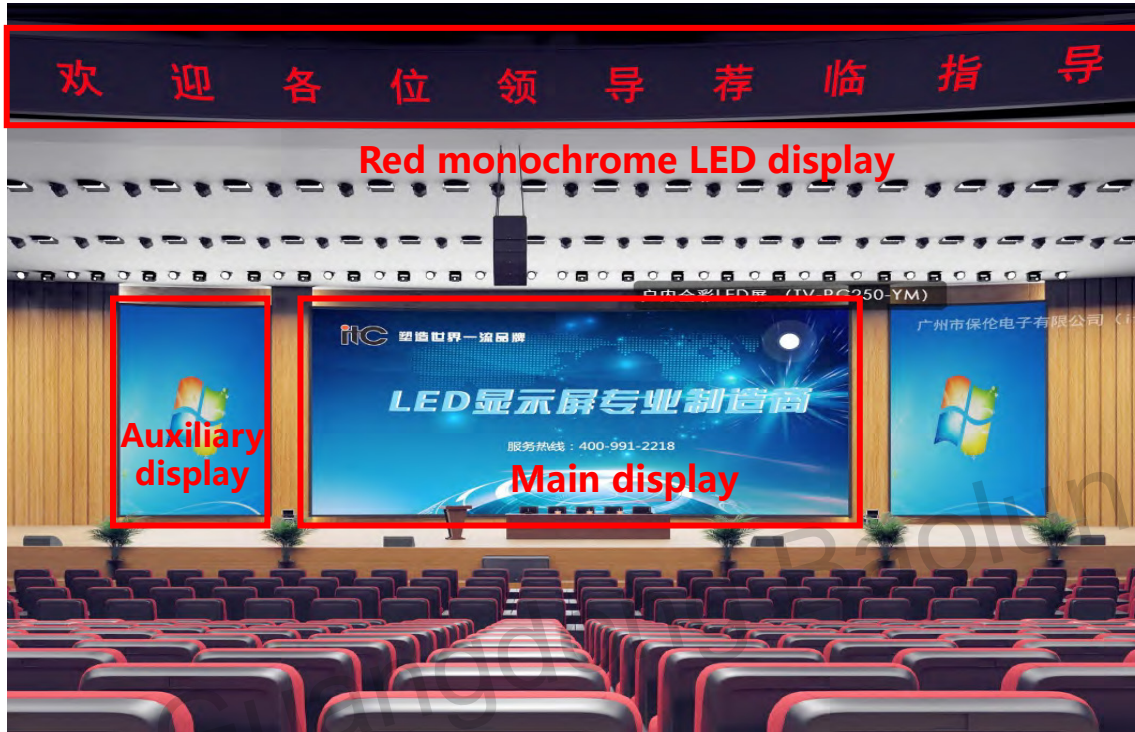
# LED UHD display system



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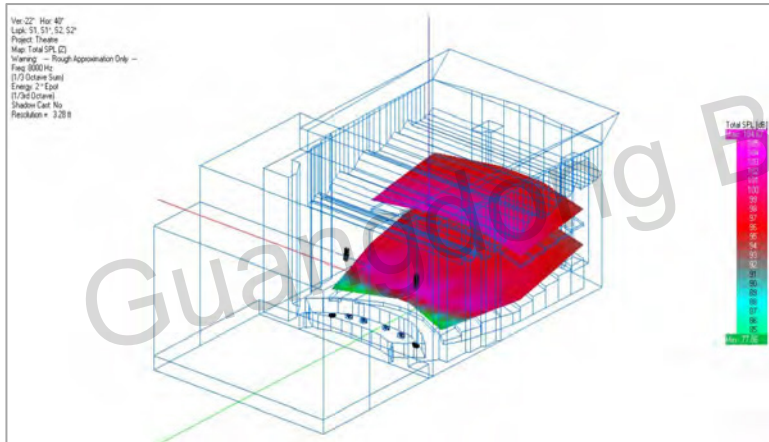


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◆ Unique cabinets detection technology. No exposed wire connection between cabinets

- Seamless splicing
- Ultra-high refresh
- Ultra-high gray
- Screen correction
- Large viewing angle
- 3D display
- Bri. adjustment
- Mute design
- Light weight
- Fast heat dissipation
- Low consumption
- Stable & reliable



Level	Max SPL. (peak)	Transmission frequency characteristics	Sound transmission gain	Stable sound field unevenness	System noise level
1	≥103dB in rated passband	The average SPL of 100Hz~6.3kHz is 0dB, and the allowable range in this frequency band is -4dB~+4dB	125Hz~6.3kHz average value ≥-8dB	≤6dB at 1kHz; ≤+8dB at 4kHz	NR-20
2	≥98dB in rated passband	The average SPL of 125Hz~4kHz is 0dB, and the allowable range in this frequency band is -4dB~+4dB	125Hz~4kHz average value ≥-10dB	≤+8dB at 1kHz, 4kHz	NR-20
Early-to-late arriving sound energy ratio	The average value of 1/1 octave band analysis within 500Hz~2kHz is ≥+3dB (optional)				

In the professional sound system design for **multifunctional lecture hall**, the sound field environment, the site-specific decoration must be considered, Use **EASE4.4** system software, based on the "**Indices of Acoustic Characteristics for Sound Reinforcement System in Halls and Rooms**", "**Methods of Measurement for the Characteristics of Sound Reinforcement in Auditoria**"; choose the appropriate speaker equipment to ensure optimal sound reinforcement, , make it meet the requirements of sound reinforcement to achieve clear language, no distortion, sufficient sound pressure margin, uniform sound field distribution and no howling, without affecting the appearance.



## Professional Sound System

Bright and full · Clear and delicate

**Professional Sound System** mainly includes program signal source, signal processing, amplifiers, speakers, etc. By advanced design concepts and high-quality equipment configuration, a perfect **sound effect** is created to meet the multi-function lecture hall **speeches, reports, presentations discussions** and so on, which can clearly feedback the human voice.



Woofer



Apron/  
auxiliary  
speaker



Linear array  
speaker



Monitor  
speaker



complementary  
sound speaker



## Stage lighting system

The design, configuration and layout of the **lecture hall stage lighting system** can meet the requirements of both **daily meeting** and **cultural performance**. The lighting of the whole stage is scientific, reasonable and beautiful. Lecture hall lighting system can satisfy various kinds of meetings, such as large-scale report meetings and summarization meetings. Under performance modes, stage lighting can achieve different stage lighting effects based on the performance



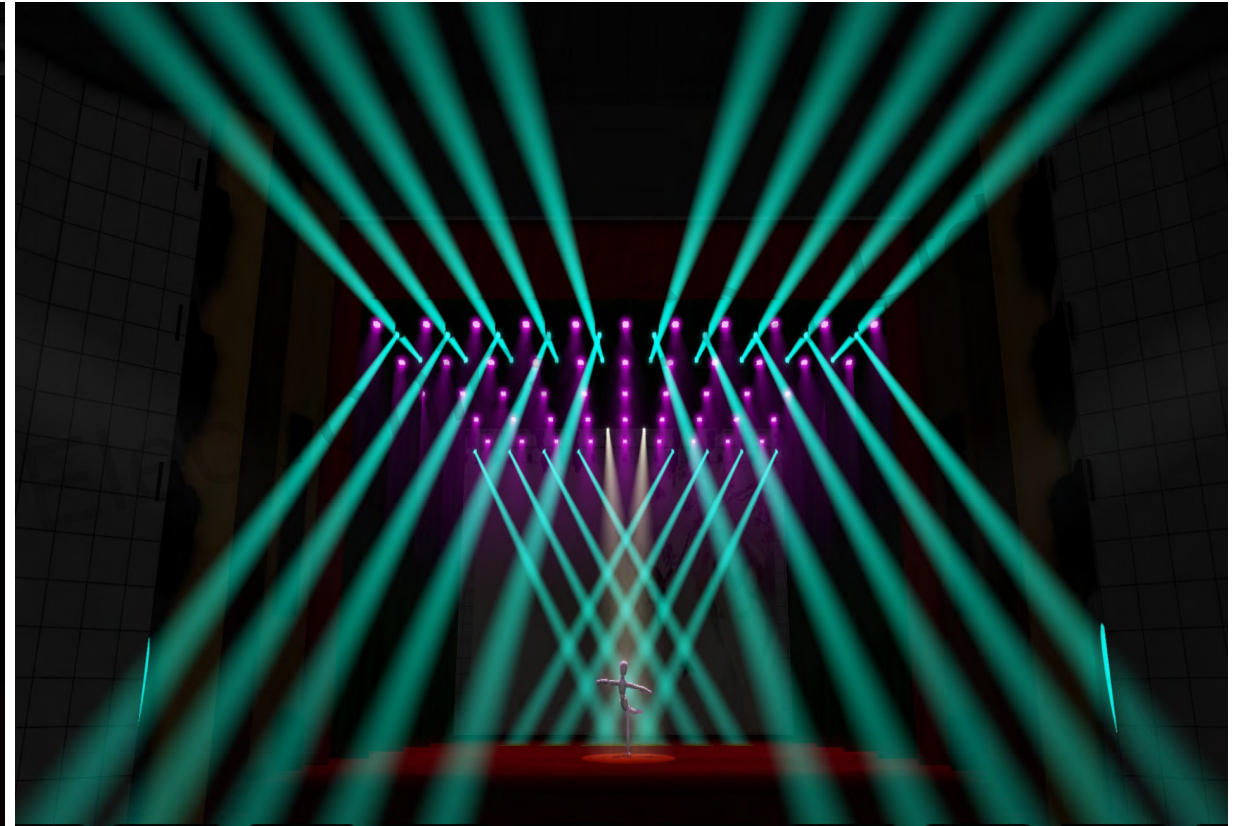
# Stage Lighting System



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Multiple expansion functions meet the needs of multifunctional halls

Conference mode

- Long life-span
- Strong compatibility
- Faster response
- Energy saving & efficient
- Strong flexibility
- Bright and rich colors

Performance mode



PAR light



LED flat panel light



Studio spotlight



Laser light



Moving head beam light



# HD recording system



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For major meetings, decision-making meetings, it is often necessary to make recording of the meetings; **Conference recording system** achieves the recording of shooting images, PPT scripts, speeches, multimedia audio and video during meetings, and can provide **online live broadcasting, on-demand broadcasting after the meeting, resource integration** and other application functions.



**HD recording**

Pure hardware DSP method to capture HD video



**LAN live streaming**

Video image resolution of 1080P per channel



**Post-conference on-demand via internal LAN**

TOP H.264 HP 4.2 video encoding technology



**Easy to control**

AAC HD audio coding technology, CD-level sound quality



## Complete Control of Audiovisual Equipments

The visual management platform supports the interconnection of audiovisual signals and integrated environmental control. It allows for unified control of peripheral devices and achieves comprehensive networked management. The terminal platform for management can independently and uniformly control multiple conference rooms, which is convenient for administrators to understand the environmental conditions and equipment operation status, such as the rotation of the **cameras**, the **volume** of the equipments, the switch of **lighting and air conditioners**, **electric curtain** lifting, and **signal switching**, reduce the chance of human error, enhance work efficiency, and save time and labor costs.

PART 03

# 3.3 Factory area

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## Factory workshop

Digital PA system	1 set
Help intercom terminal	Some
Explosion-proof speaker	Some
Horn speaker	Some
Ceiling speaker	Some



## PA system

itc PA system provides factory with daily automated background music, business notification broadcasting, fire emergency evacuation; Locally, it can flexibly interface cut, release people finder broadcast, notification broadcast, etc.; it meets the business broadcast full coverage requirements for public area broadcasting, notification of workshop room, two-way intercom between the workshop room and the personnel related to the Reply room, and schedule of the security room, etc.

- Background broadcast
- Business broadcast
- Emergency broadcast
- Hierarchical mgt.
- Fusion docking
- Multilevel architecture
- Super industrial perf.
- Smart offline playback
- Dual machine hot standby
- Hifi sound quality
- Remote auto upgrade
- Zone control



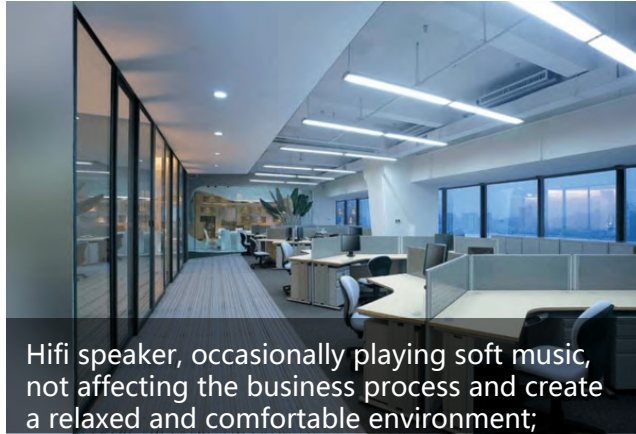
# Factory PA system



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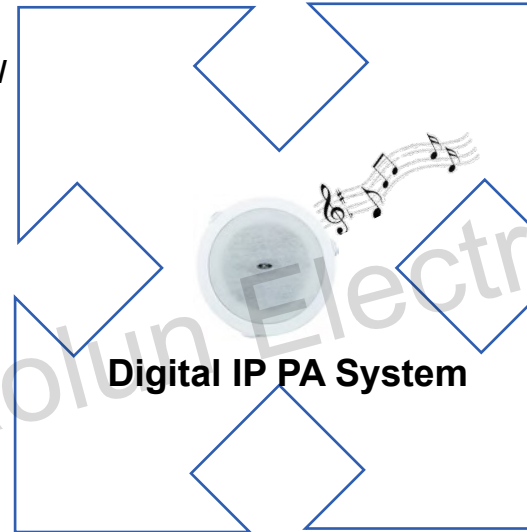


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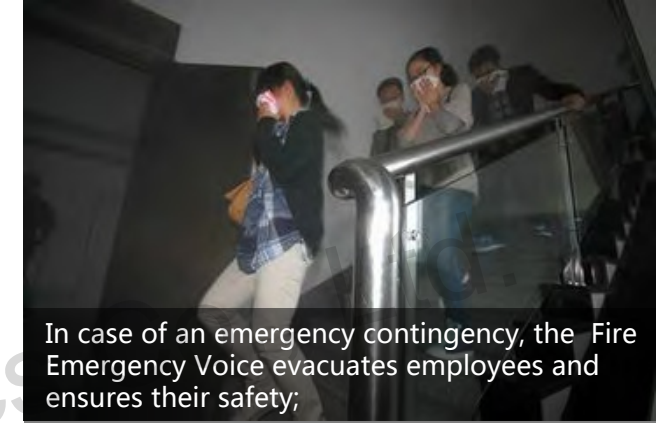


Hifi speaker, occasionally playing soft music, not affecting the business process and create a relaxed and comfortable environment;

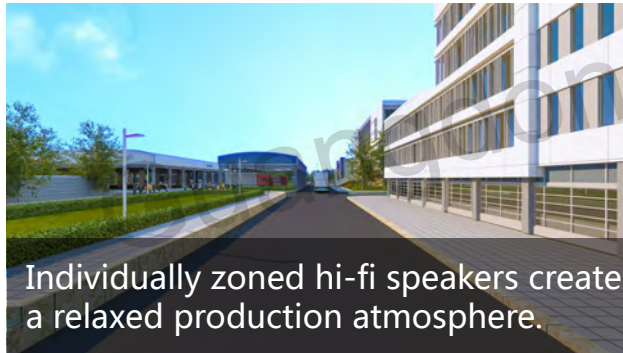
Office  
area/elevator/  
corridor



Emergency  
evacuation



In case of an emergency contingency, the Fire Emergency Voice evacuates employees and ensures their safety;



Individually zoned hi-fi speakers creates a relaxed production atmosphere.

Factory outdoor

Production  
workshop



Notification of search, BGM and so on can be released on the production workshop.

- Factory public area design digital IP system for background music and broadcasting
- Background music in each area is zoned independently for the factory environment rendering, to provide security for the factory staff notification as well as create a comfortable working atmosphere for the backstage office area, where public address is an important part of the media release; through mobile phone APP, select the song to play, adjust the volume.....
- Fire Broadcasting covers the whole area of the factory, provide security for employee safety and create a safe working environment for the factory.

PART 03

# 3.4 Other areas

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# Staff canteen

Wall-mounted column speaker Some

Content management system 1 set



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# Staff dormitory

Wall-mounted column  
speaker

Some

Outdoor waterproof  
column speaker

Some



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# Leisure area

Wall-mounted column  
speaker

Some

Digital Signage

Some



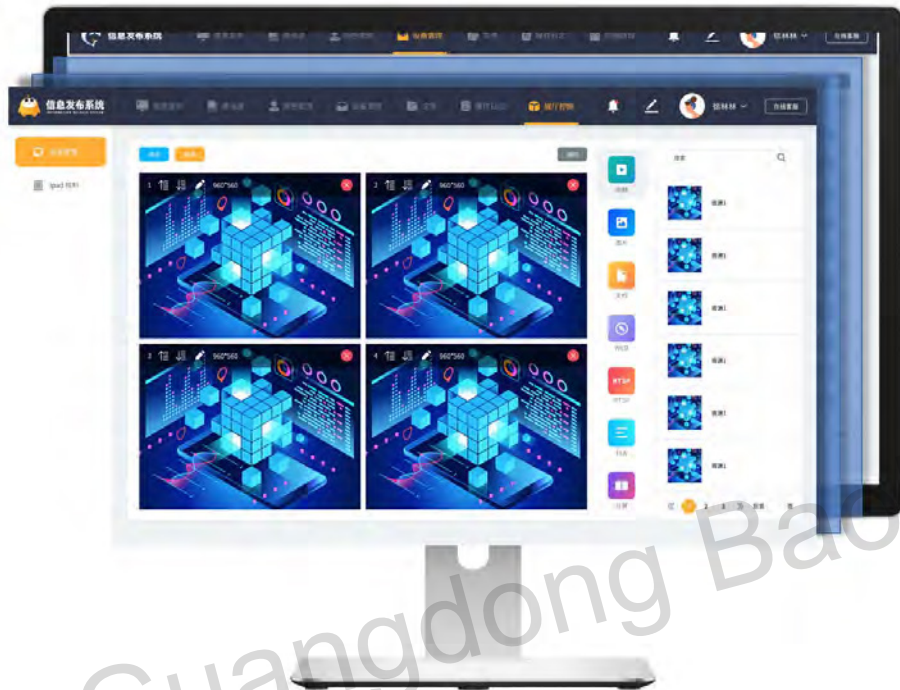
# Content management system



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## Content management system

itc content management system. One set of systems can build a self-management, release information management platform. It can establish a logical connection of a variety of information including text, sound, graphics, images, animation, video and other electronic information, through the computer integrated processing technology to release interactive information in real time to the digital signage in the corresponding area.

- B/S architecture
- Distributed area mgt.
- Flexible deployment
- Convenient release
- Status view
- Remote device restart
- Idle delivery
- Visual display
- Multiple template types
- Timing setting
- Personalized customization
- ...

## PART 03

# 3.5 Smart management

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# Data Monitoring Center

LED display system	1 set
Professional sound system	1 pcs
VMS system	1 set
Digital conference system	1 set
Video conference system	1 set
HD recording system	1 set





## Data Monitoring Center Solution

Data collaboration · Unified management in one screen

With **"One screen for plant management"** unified management for factory data, visual data, the management is more optimized; factory data Visual Management visualizes the audio and video data via intelligent calculation, so as to empower the multi-dimensional management of intelligent factory: factory **data analysis**, factory **security and comprehensive** management, factory **production security**, factory **emergency warning** and other aspects.

### ● LED Screen System

4K UHD seamless splicing display

### ● Visual management system

Command and dispatch, visual control

### ● Video conference system

Remote command conference, interconnection

### ● Professional Sound System

Professional sound reinforcement technology, hifi sound quality

### ● Digital conference system

Ultra-long pickup distance for high sound reproduction

### ● HD recording system

Important meeting, command HD recording storage



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# Application case

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# Selected Cases of Factory



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Brick Plant "Krasnaya Gvardiya", Russia



P+F Factory, Vietnam



Nesle Purina Plant Russia



Construction of the automobile plant Belgee" Belarus



Machine-Building Plant Russia



WHW Aluminum Factory-  
Kalimantan in Indonesia



Construction of the automobile  
plant Belgee" Belarus



Manufacturas Eliot Bogotá  
factory in Colombia



# P+F Factory, Vietnam



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# Brick Plant "Krasnaya Gvardiya", Belgorod Region, Russia



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# Pipe Plant, Chelybinsk



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# Nesrle Purina Plant, Kaluga Region, Russia



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 Nestlé PURINA



# Machine-Building Plant, Neftekamsk, Russia



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Guangdong Baofu... Co., Ltd.





# Iron and Steel Plant "Electronic", Vladikavkaz, Russia



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# WHW Aluminum Factory-Kalimantan in Indonesia



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# Construction of the automobile plant "Belgee" Belarus



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**FOXCONN(BAC GIANT) Vietnam**



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# Manufacturas Eliot Bogotá factory in Colombia



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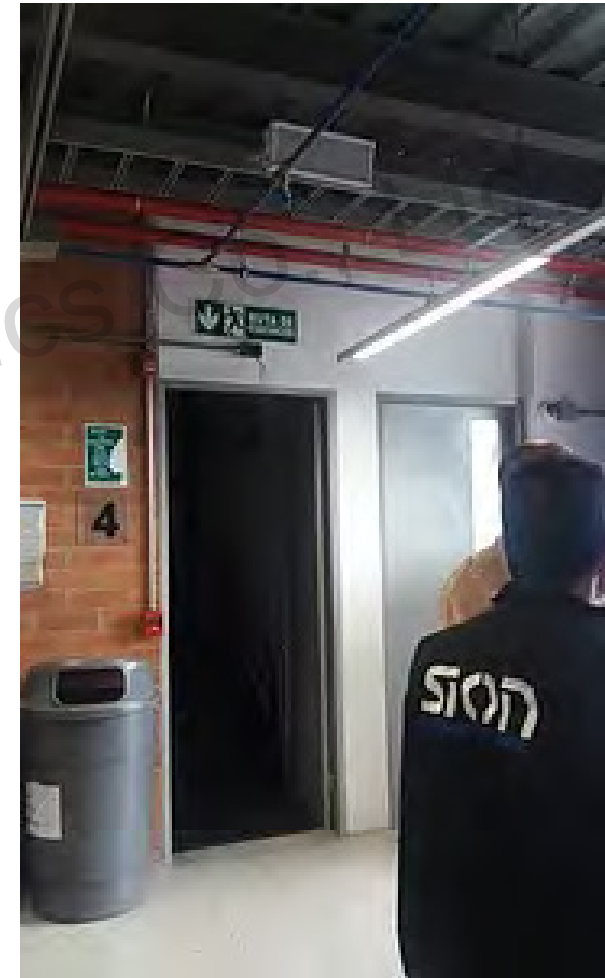
# Permoda Bogotá factory in Colombia



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# THANKS



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