

# WDC-903

## WIRELESS CONFERENCE DISCUSSION SYSTEM



WDC-903 digital wireless conference discussion system, with professional appearance design, perfect circuit composition and stable functional characteristics, can be cooperated with VTS-2000 automatic video tracking system and central control system to achieve functional diversification of modern high-tech conference. The data instruction of this wireless conference discussion system is transmitted by LoRa protocol. Audio works in UHF band. High fidelity circuit design can produce high quality sound effect. The system has anti-interference protection, which can effectively block the influence of computers, mobile phones and Bluetooth wireless devices in the environment. It is fully applicable to local government departments, business conference rooms, business venues and international conference centers.

### Key Features



#### Practical Function

- Adopt LoRa 433MHz wireless control signal and UHF audio transmission technology.
- The system automatically searches interference-free channels and replaces them.
- Control up to 255 Wireless Discussion units, up to 5 wireless units can speak at the same time.
- With Dante interface, it can communicate with any device with Dante to transmit audio.
- Bright OLED operation screen, with Chinese and English language menu selection, perfect function, easy operation.
- Super anti-interference function can effectively block the impact of computer devices, mobile phones and Bluetooth devices in the environment.
- The conference unit can automatically select or manually start the power supply. When it chooses to turn on automatically, the central controller will send the instruction to the conference unit at the same time, which automatically turns on the power supply and works in the mode after receiving the instruction.



#### Flexible Speech

- Four conference modes:
  - ① Time-limited Mode
  - ② First in First out Mode
  - ③ Application Mode
  - ④ Voice-activated Mode



#### Expansibility

- With antenna interface, it can be used in conjunction with the antenna system of Relacart, and the transmission signal is very strong.
- Any number of wireless conference systems can be installed in the same building.
- With VTS-2000 automatic video tracking system, can achieve conference video tracking function.
- Equipped with RS-232 interface, it can connect various central control devices.



#### Easy Installation

- The unique advantages of simple installation, easy and fast, and no impact on the installation site, especially for the installation or layout of historical museums, ancient buildings and other historical and cultural buildings, users need not worry about damage to ancient buildings, because they do not need wiring, nor drilling holes, providing a professional perfect solution for harsh and complex application occasions.

### Product Specification



## WDC-903

Digital and Wireless Conference  
Discussion Systems

- Bright OLED operation screen, with Chinese and English language menu selection, perfect function, easy operation.
- With Dante interface, it can communicate with any device with Dante to transmit audio.
- With VTS-2000 automatic video tracking system, can achieve conference video tracking function.

Main Frame Size:	EIA Standard Rack 1U
Receiving Channel:	Six Channels
Frequency Reliability:	±0.005%
Carrier Frequency Range:	UHF 521.25MHz-936.85MHz
Sampling Rate:	48KHz /24bit
Modulation:	FM
Operating Distance:	80M (in open space)
Oscillation:	PLL synthesized
Bandwidth:	32MHz
Max. Deviation:	±45KHz
S/N:	>100dB
THD:	<0.5% @1KHz
Frequency Response:	50Hz-18KHz
Output:	Balanced XLR-M, RCA*2 Dante*2
Power Supply:	AC110-240V 50/60Hz
Weight:	Approximately 3.2 kg
Dimension(mm):	480(W)×350(D)×43(H)



## WDC-903C

Wireless  
Chairman Unit



## WDC-903D

Wireless  
Delegate Unit

- It is powered by detachable lithium battery, charged by WDC-903 special charging box, or charged directly by USB interface of conference unit.
- It can work continuously for 16 hours and stand by for up to 24 hours at full power.
- Bright OLED display can display battery capacity, speech mode, time limit and other working conditions at the same time.
- Super anti-interference ability of mobile phone.
- With a halo-type work indicator.
- Use high-quality capacitive condenser microphone head to achieve high-quality sound pickup.
- Wireless conference technology can easily build a temporary system, beautiful and neat, without any impact on the installation site.

Carrier Frequency Range:	521.25MHz-936.85MHz
Oscillation:	PLL synthesized
Harmonic Radiation:	<45dBm
Bandwidth:	134MHz
Max. Deviation:	±45KHz
Input Jack:	3-pin XLR jack
RF Output Power:	15mW
Power Supply:	Li-ion polymer rechargeable battery 3.7V/2900mA
Current Consumption:	120 mA (Typical) 60mA (Standby)
Working Time:	23 Hour(Classical) 48 Hour(Standby)
Weight:	910g
Dimension(mm):	162(L)×125(W)×54(H)



## DC-903

Data Communication  
Converter

- DC-903 is a data communication converter for the WDC serie wireless conference system
- With mature and stable wireless communication protocol, LoRa it has the advantages of high stability, high performance, high security, low latency and low power consumption

Working Frequency Range:	400~450MHz
Gain:	16dBm
RF Input Port:	N female
Data Communication Port:	RJ45 connector
Power Supply:	Powered by the controller through the CAT5 cable
Material:	Black anodized aluminum (package)
Dimension(mm):	42(W)×42(D)×105(H)
Weight:	150g



## Application:



## Application Schematic Diagram:



- ①R-32AU
- ②R-32AU
- ③R-43W
- ④WDC-903 Chairman Unit
- ⑤WDC-903 Delegate Unit

## System Connection Diagram

