

WDC-923/933

WIRELESS CONFERENCE DISCUSSION SYSTEM



WDC-923 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.

Key Features

Practical Function

- 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.
- 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.

LoRa communication protocol and UHF audio transmission protocol

- Using LoRa protocol 433Mhz wireless control signal, UHF audio transmission technology.

Flexible Speech

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

Dante Audio Transmission Protocol

- With Dante interface, it can communicate with any device with Dante to transmit audio.

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-923

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, 2 RCA
Power Supply:	AC110-240V 50/60Hz
Dimension(mm):	480(W)×350(D)×43(H)
Weight:	Approximately 3.2 kg



WDC-923C
Wireless Chairman Unit



WDC-923D
Wireless Delegate Unit



WDC-933C
Wireless Chairman Unit



WDC-933D
Wireless Delegate Unit

- It is a desktop conference microphone, it uses a new square microphone tube and a supercardioid condenser capsule to accurately pick up sound and reduce the interference noise of environmental.
- The indicator light has an RGB LED that shows the mode status. The factory default color is red for mute and green for sound pickup, and users can also change different colors to suit their preference.

Carrier Frequency Range:	521.25MHz-936.85MHz
Oscillation:	PLL synthesized
Harmonic Radiation:	<45dBm
Bandwidth:	134MHz
Max. Deviation:	±45KHz
RF Output Power:	30mW
Power Supply:	BP-10Li Li-ion polymer rechargeable battery 3.7V/2900mA
Current Consumption :	120 mA (Typical) 60mA (standby mute)
Working Time:	23 Hours(typical) 48 Hours(standby /mute)
Dimension(mm):	162(L)×125(W)×54(H)
Weight:	910g



VTS-2000

Video Tracking System

- VTS-2000 Video Tracking System can be used in conjunction with any conference system with video function of Relacart to realize video tracking function. When the speaker unit opens the microphone, the camera will automatically track the speaker's position, and connect the video display device to display the image. Unique picture static function, can achieve perfect automatic tracking image function.

Equipment Type:	HD Video Main Controller
Working Power:	AC 100~240V, 50/60Hz
Frequency Response:	143Mb/s to 2.97Gb/s
Gain:	0dB
Signal Type:	SDI(HD digital signal) HD cctv1.0 HD-SDI(ST292)
	3G-SDI(ST424) SD-SDI(259)
Input Return Loss:	21dB@5MHz-3GHz
Video Input:	800mVp-p
Video Output:	800mVp-p
Compatible Standard:	Pelco-D pelco-P Visca
Control Protocol:	RS-232 RS-422 RS-485
Baud Rate:	9600
Data Bits:	8 Bits
Video Input/Output Impedance:	75Ω
Input/Output Port:	BNC
Dimension(mm):	410(W)×206(D)×43(H)
Weight:	Approximately 2.3 kg



DC-903

Data Communication Converter

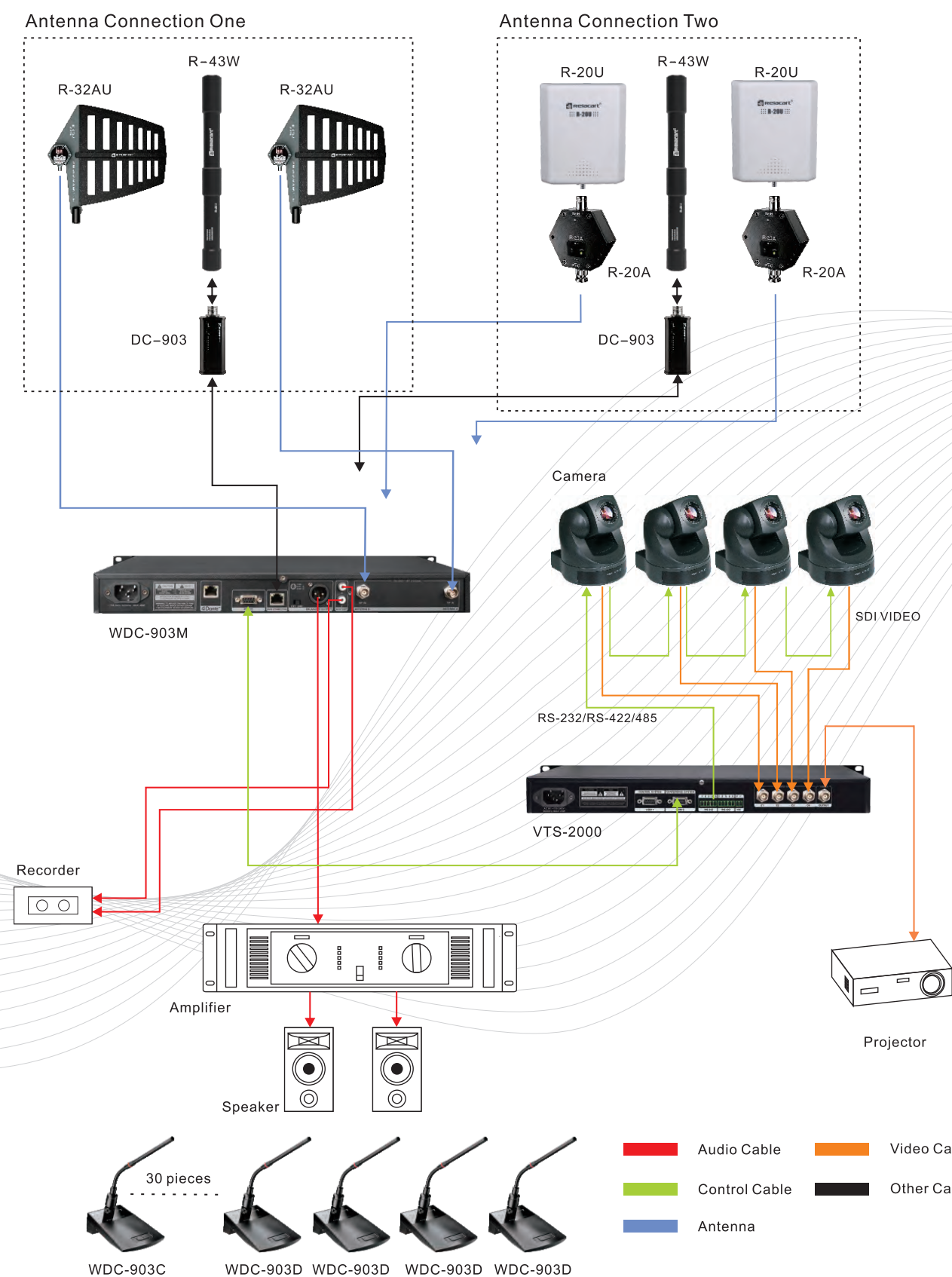
- DC-903 is a data communication converter for the WDC serie wireless conference system
- With mature and stable wireless communication protocol, LoRa it has the advantages of high stability, high performance, high security, low latency and low power consumption

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:



System Connection Diagram



Application Schematic Diagram:

