

OWNER'S MANUAL

WIRELESS VOTING SYSTEM



8800 series



Wireless Voting System

A. System Feature:

Stability: No interference because of unique frequency checking and hopping function; system faults automatic checked and repaired which make sure the system works perfect; system dormancy function makes the system can be used in long time, Dynamic battery display function and concentrated shutdown function keep the system in stable, safety, and reliable; System also adopts antistatic technology.

Correct data and safety: Data encryption, authorizing voting feature for making sure one person with one chance for voting, avoiding man-made cheating and error operation

Operational security is good: No name voting; LCD display and portable feature make sure the voting state won't be seen easily.

Function : Has voting, key press for attendance, countdown tips function

Simple operation, good applicability: Has Chinese tips in every operation step, state displays, easy to learn and simple to operate; no need any cables, it could be used in any conference room and don't have to change the style of the room.

System maintenance and convenient to keep: The vote unit is small, convenient to keep and has stable features.

B. System Advantages Intelligent LCD display design : LCD display has communication state display, voting information display, also has maintenance, checking display, and channel, vote unit number display, low power shutdown features.

Vote Flexibility: The voting topic can be made with any order, it also can add voting topic during the period of voting.

Split-screen display: Display interface and operation interface can be displayed separately, it can display the conference mark or conference name or topic, etc.; when there is no need to operate or topic in pausing.

Working method: Voting (Yes, No, Abstain), Comment ("satisfied", "basic satisfied", "unsatisfied", "abstain") Grade (0—100 score), Electing (available people number displayed on the voting unit, make sure no invalid voting)

Software and hardware combined online mutual inspection function:

This function can improves the system running stability, automatic warning when faults appear and showing the problem to operation people so that to fix the problem quickly, the maintenance for system is quite convenient.

Big capacity: Single frequency spot can support 250 vote unit work simultaneously, which can meet the needs of difference of place.

C. System equipment description

1. Voting Processor H-WB8800 & Wireless Voting Antenna H-WA8800



- ☐ Frequency-hopping Spread Spectrum (FHSS) : 64 selectable channels
- ☐ Power: 220V 0.5A
- ☐ Working environment (temperature): -20°C — $+50^{\circ}\text{C}$
- ☐ Connection : standard RS232
- ☐ The farthest telecommunication distance with voting unit: 200M
- ☐ Main unit capacity: single main unit configure 250 sets voting unit as standard: 1000 unit MAX
- ☐ Security: has main telecommunication port backup telecommunication port and meeting signal testing port, when main telecommunication port has fault, it can use the backup telecommunication port quickly
- ☐ Signal detection: it will detect the signal before the meeting, during the meeting, during the meeting, after the meeting of the meeting room.
- ☐ Packing : Aluminum Cases



2. Wireless Voting Unit H-WD8800

- ☐ FHSS: 64 selectable channels;
- ☐ Working environment (temperature): -20°C — $+50^{\circ}\text{C}$
- ☐ System maximum capacity: 10000 seats
- ☐ Telecommunication ways : GFSK wireless telecommunication, confidential agreement+ multiple proofreading;
- ☐ LCD parameter: 128*64 graphic lattice; lattice display vote unit NO. channel information, volume display, voting/attend information
- ☐ Low power shutdown
- ☐ Sensitivity: -121dBm;
- ☐ Transmitting power consumption: <10mw
- ☐ Packing : Aluminum Cases
- ☐ Sign in : key press sign-in
- ☐ Voting ways: last key-press



3. Charge Box H-WG8800

- ❑ Used for charging voting units
- ❑ Input Voltage: AC110V~120V/220V~240V
- ❑ Charges 26pcs of voting unit per charging
- ❑ With charging indicator LED.



3. System software function

1). Voting management:

- ❑ Sign in: key press with LCD display for signing in and calculation, scoring display.
- ❑ Vote: yes/abstain/no by key press, with LCD display for calculation.
- ❑ Elect: support multiple elect, results will display in the LCD
- ❑ Democracy Comment: "Very Satisfied, satisfied, basic satisfied, unsatisfied" match the key "2-3-4-5" for voting and calculation, then display on the LCD
- ❑ Scoring: scoring for the topic (0~100 points, basic standard mark is 80 points) .

2). Voting Software

The system implements all the operation of single voting, democracy comment and multiple voting.

- ❑ Voting: it's the process of voting for single topic of representative votes " YES ", " NO ", or " Abstain", and computer calculates results and results displayed; such as: Establish one company in one city.
- ❑ Electing: Personnel elected, it's the process of electing one or more candidates from many candidates.
- ❑ Democracy comment: the process of voting "satisfied", "basic satisfied", "unsatisfied", "Abstain" for someone's job or something.
- ❑ Scoring : scoring for the topic (0~100 points, basic standard mark is 80 points) .

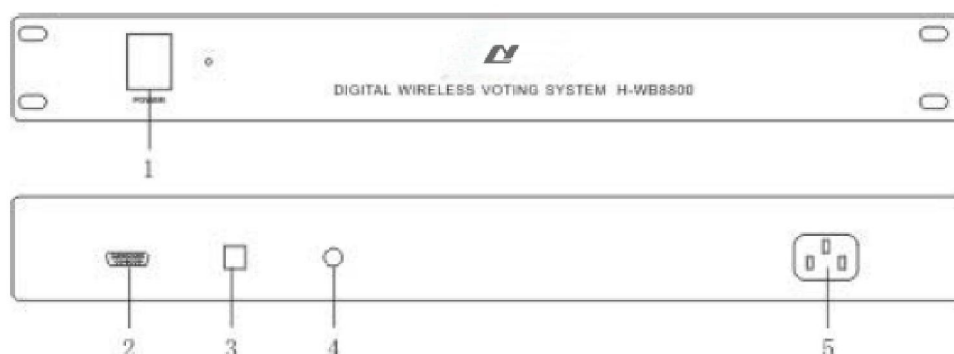
4. Video distribute card installation and computer setting instruction

Using for outputting video signal of voting result.
(Double VGA 1024X768 or S-VIDEO) high function
double display screen, installed inside the computer,
AGP socket.



5. Using Instruction

1) Voting Processor



1. Power switch, power indicator lamp;
2. RS-232 computer interface;
3. EXT host interface;
4. RF antenna connecting interface;
5. Power socket

2) Voting unit schematic diagram

1. Power switch
2. LCD screen
3. Yes/1
4. No/2
5. Abstain/3
6. --/6
7. --/5
8. --/4
9. Rechargeable socket
10. Sign in Card



6. System Connecting and Debugging

1. Install the voting processor to into the frame
2. Put the antenna in the meeting room, and make sure the antenna can send the signal without barrier, connect the antenna with wireless voting unit by coaxial cable
3. Connect the computer, central controller and main unit together;
4. Connect the display equipment to computer
5. Install the voting software into the computer and setting in computer
6. Turn on all the necessary equipments, run the software;
7. Put the voting unit in the seat of the meeting room and test all the function about voting.
8. At least one voting unit be put in the farthest place in the meeting room, testing it whether there exits the place where can't receive the signal, if there is, please debug the location of the antenna.

D. Technical Parameter of Wireless Voting System

Technical Parameter of Wireless Voting Processor H-WB8800

Items Parameter

Power supply AC110V/240V 50Hz~60Hz

Consumption Rating 4W

Control Type RS232

Color Black

N.W 2.43kg

Output impedance 50Ω

Dimension 480mmx240mmx45mm

Installation 19 inch frame

Technical Parameter of Wireless Voting Unit H-WD8800

Items Parameter

Power supply DC 3.7V~4.2V

Consumption Rating <10mw

T.H.D. <0.05%

Sensitivity 121dBm

Color Grey

N.W 140g

Dimension 55mmx22mmx130mm

E. Schematic diagram:

