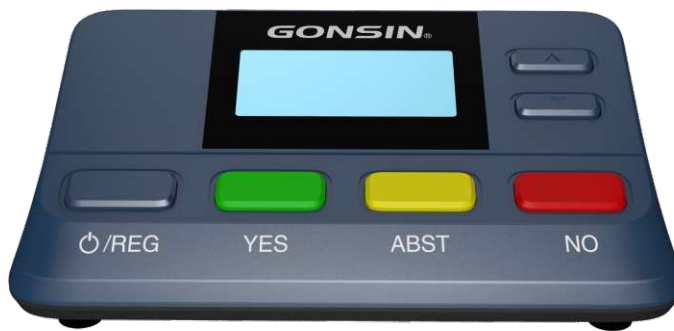# BJ-04-W
Desktop Wireless Voting System

GONSIN®
Delivering Trust & Value

◆ Desktop Wireless Voting Unit BJ-04-W

◆ Overview

By the BJ-04-W desktop wireless voting unit, the participant can realize registration (by key pressing, inserting card, supplementary registration), voting (Yes/No/Abstain, or the customized voting way by software), evaluation(Good, Fair, Poor and Abstain or the customized way by the software), election(elect one or more from M candidates), Grading(0-100 points). The system can automatically collect the statistic of voting, election, evolution, and display the results on the big screen, projection screen and other display devices. The results can also be printed or burned into CD to preserve.

◆ Features

- ♦ Utilize wireless digital communication way
- ♦ Unique wireless on-site environment online detection and frequency selection, ensure the system avoid any interference;
- ♦ Two registration ways, key pressing or inserting card.
- ♦ Software customized voting or evolution ways
- ♦ LCD display screen, humanistic human-machine interaction
- ♦ Automatic alarm when the system is faulty
- ♦ Low power consumption, low emission power, comply with the global electrical design and communication design standard
- ♦ Lithium battery or AAA battery, real-time detection of battery level, dynamic display, low battery alarm
- ♦ Automatic memory of voting result when power cut off
- ♦ Isolated touch switch, anti-30000V electrostatic interference
- ♦ Secret hood(optional) to ensure the privacy
- ♦ Unified shutdown by software
- ♦ Keys have three colors, red, yellow, green, makes it impressive
- ♦ Tilting silkscreen keys.

◆ Functions

- ♦ Attendance Registration: inserting card, key-press, supplementary registration; late delegate can vote supplementally; count " number of supposed attendance", "number of real attendance", "number of absence".
- ♦ Voting: delegates can vote for "Yes" "No" "Abstain" or the customized voting way by the software. Computer automatically collect statistic and display the result.
- * Single voting and multiple voting
- * Effective first press-key or effective last press-key
- ♦ Election: elect one or more from candidates with the support of "single-candidate election" and "multi-candidate election"
- ♦ Evaluation: four buttons to evaluate. It comes with four choices "Good", "Fair", "Poor", "Abstain", or the customized evaluation way by software.
- ♦ Grading: From 0-100 points, the initial score is 80 points, press "Yes" to increase points and "No" to reduce points.
- ♦ LCD Dynamic display of the voting process(such as " registration please, registration done, voting please, voted , please return" and etc)
- ♦ Registration/ Yes/Abstain/No tilting silkscreen keys. have three impressive colors, red, yellow, green
- ♦ Multiple encryption and err correction during the data transmission
- ♦ Unified shutdown by software or automatic shutdown when it has not received signal for 4 hours, ensure the voting process by avoiding human misoperation

◆ Technical Specification

Frequency range	300~800MHz(immune to mobile signal jammer)
Channel transponder	24 selectable channels
Registration methods	Press-key or insert card
Communication method	10mW wireless communication with confidential agreement + multi-verification
Effective communicating distance	100m
Sensitivity	-121dBm
LCD screen	128×64 dot-matrix display
Battery display	Real-time display, low-level alarm
Battery specification	Lithium battery or three AAA batteries
Service time	39 hours(Lithium battery)
Standby time	120 hours
Dimensions(L×W×H)	153mm×106mm×46mm
Net weight	0.5Kg(excluding batteries)
Working temperature	0~45°C
Storage temperature	-20~50°C

◆ Wireless Voting Central Controller
ZJ-W5

◆ Functions

- ♦ In compliance with IEC60914 international standard
- ♦ Fashionable and elaborate appearance design with working state indicator
- ♦ It can control 200 wireless voting units to support maximum 4096 people in voting at the same time; satisfy voting needs in different conferences
- ♦ 100 meters radio frequency transceiver range, 300～800MHz communication band, supporting 24 frequency point interchange ,resistant to mobile phone signal shielding device
- ♦ Voting central controller and computer connect with network cable;multiple voting central controllers can be cascaded through switches
- ♦ With unique serial numbers, conference systems support assign ID to system devices automatically or manually.
- ♦ The unique automatic tracking two-way measurement full calibration or non-full calibration multi-integration calculation technology is used to ensure the accuracy of calculation results.
- ♦ To process multi-level error correction and encryption scrambling on data during information transmission ensure data security
- ♦ Support dual-system hot backup function to escort the conference
- ♦ The software supports unified device shutdown and no signal automatic protection shutdown, ensuring that voting will not be affected by the attendee turning off the voting unit.
- ♦ With frequency measurement, frequency selection and frequency offset correction functions, there are 24 frequency points to choose from, avoiding frequency points interference and ensuring stable and smooth communication.
- ♦ Antennas with different emission distances can be selected to meet the needs of different areas of the venue.
- ♦ Support the installation of the triangular bracket, which can be flexibly placed according to the venue environment.

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◆ Technical Specification

Installation	Bracket mounting
Frequency range	300～800MHz (resistant to mobile phone signal shielding device)
Number of Frequency points	24 channels interchange
Way of communication	10mW wireless communication
Communication distance	100m
Sensitivity	-121dBm
Connection method	Network cable
Single base station capacity	200 units
Max system capacity	4096 units
Antenna length	Small: H:120mm; Medium: H:880mm
Dimensions(W*H*D)	285mm×285mm×65mm
Power	DC 12V
Net weight	1.7Kg
Maximum power consumption	<15W
Operating temperature	0~45°C
Storage temperature	-20~50°C

◆ Charging Case CHG-28

◆ Features

♦ Real-time management for battery and charging current

♦ LED indicator for charging status

♦ Anti-misplug design for battery
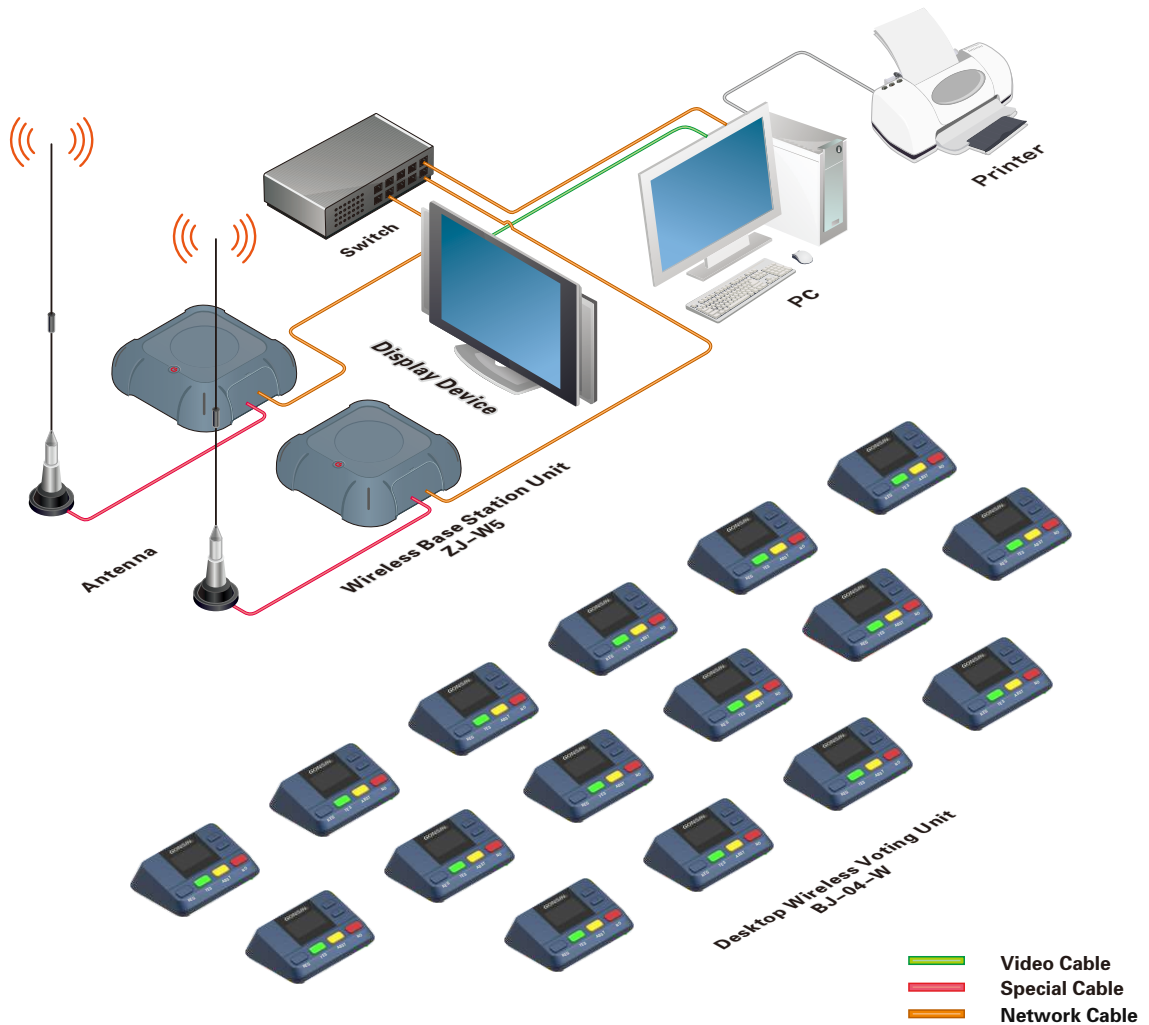
♦ Short circuit protection for charing

◆ Functions

♦ Smart management ensures safe and reliable charging; The real-time management for battery capacity and charging current prolongs battery life

♦ Independent modularized charging circuit enables battery detection; this circuit does not work if no battery is detected

♦ Accommoduate up to 28 batteries

♦ Red/green charging LED indicator.

◆ Technical Specification

Power supply	AC100~240V, 50~60Hz
Max. charging voltage	4.2 V
Power	106 W
Charging time	3 hours
Weight	6.3 kg (net weight), 6.9 kg (full load)
Dimensions	490mm×320mm×67.5mm
Working temperatur	0~45°C
Storage temperature	-20~50°C

◆ System diagram

Printer

Switch

Display Device

PC

Antenna

Wireless Base Station Unit
ZJ-W5

Desktop Wireless Voting Unit
BJ-04-W

Video Cable
Special Cable
Network Cable