# Bronx Dialogue Digital Wireless Conference System

### BR-DWTS-BU
WiFi Wireless Touch Screen Unit

### BR-DCU CU2000-W
Full Digital Networked DSP
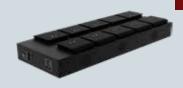
### BR-MDM-22
CAT5 Wired Digital Basic Discussion Chairman/Delegate Unit

### BR-DCU-G485
Pluggable Gooseneck Microphone

### BR-WCH1
Charger for battery
Buckle housing to prevent poor contact or dropping

### BR-DCU-AP
2.4 GHz/5GHz Conference Access Point

**BRONX**

# BR-DWTS-BU

## WiFi Wireless Touch Screen Unit

- ✓ Internal high-fidelity loudspeaker
- ✓ Hindi/Devnagri language support
- ✓ Easily expand functions by setting software modules
- ✓ Microphone locking mechanism
- ✓ 2 Headphone Jack

## Features

- 4.3-inch capacitive color touch screen with stylish and low-profile design.

- Built-in NFC card reader for quick identification of participants (Card integration software module is not part of standard package, please contact your distributor for the functionality).

- All-in-one touch screen conference unit can be configured into one chairman unit, delegate unit, VIP unit or dual delegate unit according to the different needs of each meeting.

- The integration of 5G WiFi wireless and wired network, dual connection to communicate makes the meetings be not interrupted.

- Three charging methods: replaceable battery power supply, microphone base charging, wired POE network charging. The battery intelligent visual management is carried out in three ways: unit display screen, web server and PC software.

- Wireless communication, setting up all system in few minutes to be ready for using, and put them away in short time as well.

- Detachable battery pack is easy to replace and charge. The battery can provide 24 hours of runtime after it is fully charged.

- Pluggable microphone and long-range sound pickup ability, support different length of microphone.

- Head-set interface in both sides with volume adjust.

- Line-in interface which allows microphone or other line-in device like cell phone, laptop to pass audio through to perform teleconference

- Full-digital signal transmission and processing, completely avoid the RF interference from cell phone or similar devices.

- The unit showing time/date on the screen. Timer on display to set certain time for each delegate to speak, will remind user or close the MIC automatically.

## Functions

- Standard Wi-Fi technology is compatible with other Wi-Fi networks, support 2.4GHz and 5GHz on all channels.

- Full-digital transmission and processing technology in uncompressed audio,

professional microphone to achieve perfect sound quality at 20Hz ~ 20KHz;

- 128 bits digital encryption technology, with WAP2 secure connection, MAC address filtering, SSID-hiding to prevent wiretapping and unauthorized access from delegate unit.

- 8 wireless units can be activated at the same time by the users.
- Support more AP working together to increasing the Wi-Fi coverage range for wireless MIC units working in a large conference room or multi-rooms.
- With our HD PTZ camera and video matrix switcher, using RS485 or RS232 protocol to send the PELCO/VISCA protocol to realize camera auto-tracking function.
- Precise cardioid directional microphone capsule with anti-wind microphone foam, with two-color LED indicator
- Button for MIC ON/OFF, Priority & Apply Answer button for chairman unit.
- Built-in high-fidelity speakers, it automatically mutes to prevent howling when press MIC ON.
- Head-set interface in both sides with volume adjustment.
- AGC (Automatic Gain Control)/AFC (Adaptive Feedback Cancellation)/ANC (Active Noise Cancellation)/ Mix (Auto-Mix) technology.
- Build-in functionsfor intercom.
- Containsfive optional function modules:
  - Voting: three-button / two-button voting
  - NFC identification: Sign in with NFC card to accurately identify user information.
  - Simultaneous interpretation channel: 64 languages independent selection
  - Dual users: Support two participants sharing one unit to achieve camera tracking at two locations; enabling two delegates to vote on one unit
- Without using PC software, our conference controller still owns following settings:
  - Limit on the number of speaking persons: By Setting the number of active units at the same time (Number is 1/2/4/6/8 units)
  - Discussion modes:

    "OPEN" Free for all, limited by the active units setting by controller, "OVERRIDE" First in First out,

    "VOICE" Can activate MIC by detecting sound without press button, "APPLY" To apply then to speak with two-color LED indicator.
- The unit showing real time on the screen, and count-down timer for speaking person.
- Detachable battery pack is easy to replace and charge. The battery can provide 24 hours of runtime after it is fully charged. Power-saving technology enables the microphone to be continuously used for 24 hours and stand by for 35 hours.
- Combined with camera and camera tracking controller, it has an automatic camera tracking function.
- Built-in MCU, support wireless upgrade of all units.
- With voice control function, you can adjust the sensitivity of voice control, intelligently turn on the
- microphone and set the off time.

## Control & Indicators

- Microphone with two-color LED ring, red indicates speaking status, green indicates request to speak.
- 4.3-inch capacitive touch display
- Indicator for Volume adjustment
- Indicator for MIC ON/OFF
- Chairman unit with priority button and consent button for the delegates

## Interfaces

- Pluggable gooseneck microphone base
- 2x 3.5mm stereo headphone jack
- 1x 3.5mm stereo input jack
- 2x RJ45 connectors
- Contactor for battery pack
- DC Connector for power adaptor

# Technical Parameters

- Screen size :109.22 mm (4.3 inches)
- Resolution: 800x480
- Screen type: Capacitive and color multi-touch
- Contactless NFC cards in following standards: ISO / IEC14443 Type A
- Connection method: CAT5 / CAT6 cable + WiFi wireless + buckle
- Sound Pickup: heart type capacitance
- Electrical parameters
- Power: 48V DC
- Power saving mode consumption: 1.4W
- Maximum power consumption: 3.8W(connection with wireless and wired together)
- Frequency response :20~20000Hz
- THD at rated level <0.1%
- Dynamic range> 90 dB
- S / N ratio≥96dB
- THD at rated level <0.1%**Audio input**
- Nominal microphone input 80 dB SPL
- Maximum sound pressure 125dB (THD <3%)
- Sensitivity: -46 dBV / Pa

## Audio output

- Headphone load: 16$\Omega$
- Headphone volume: 10mW
- Headphone jack: 3.5mm stereo
- Input impedance: 2k$\Omega$
- Loudspeaker nominal output 70 dB SPL at 0.5 m
- Loudspeaker maximum output- 80 dB SPL

## Mechanical parameter

- Installation: desktop
- Dimensions (mm, without microphone): 217.5L × 138.5W × 69H
- Color: Black
- Main material: ABS
- Weight (without microphone): 1.0 KG
- Environmental parameters
- Operating temperature 5 °C to +55 °C
- Relative humidity <90%

# Item Model for Order

- BR-DWTS-BU ........WiFi wireless touchscreen unit, battery and microphone are not included
- BR-DWTS-BTY .......Battery pack for each unit,7.2VDC,6500mA
- BR-WCH1 ............... Charger for battery
- BR-DCU-G485 .........485mm Microphone, with anti-wind foam cover

## Optional function license (All these licenses are not part of standard package)

- Dual 64-channel selector software module
- Vote software module
- NFC identification software module
- Dual user software module

# BR-DCU-CU2000-W

## Full Digital Networked DSP Conference Processor

## Functions

- The unique BRONX-LINK digital ring network technology achieve full-digital signal transmission and processing.

- One CAT5e cable to transmit up 64 channels audio and other signals.

- All microphone units support audio, ID independent output. Working with voice recognition system to achieve voice role separation.

- High-fidelity sound quality by lossless audio transmission technology, 48K audio sampling rate and 20Hz ~20KHz frequency response THD at nominal level- <0.1 % , Dynamic range->98 dBA , Signal-to-noise ratio - >96.

- A single conference controller can realize the independent control and merging of 4 conference rooms, can handle the cascade of multiple conference controllers to realize the merging and separation of larger conference rooms (Optional).

- "Hand-in-Hand-Loop-Network" connection makes the system always working perfectly no matter changingdiscussion unit or having any malfunctioned units.

- The sensitivity of the unit microphone and 8 segment equalizer EQ adjusted independently.

- Conference controller can output 16 segment equalized EQ to achieve sound field adjustment; pressure limit, which can recognize the noise gate passed by human voice. AGC automatic volume gain control; AFC automatic feedback suppression and auto-mix technology.

- Sound output by separated zones function, each zone is automatically adjusted according to the volume of the position of the microphone, achieve longer distances pickup without whistle.

- Echo cancellation, remote two-way real-time call with another conference controller or another third-party video conferencing terminal.

- USB recording, controller monitor, advanced noise cancellation technology to realize clearer recording.

- System date, time management, and support count-down speech.

- Optional DANTE output module with other DANTE equipment used (expandable up to 12 I/O ports).

- Can drive 2x120W POE speaker, through extension main unit, support up to 16 POE speakers.

## Functions

- The wireless communication between the conference unit and the controller adopts the WIFI standard IEEE 802.11n

- wireless communication mode, while supporting wired communication mode: 100M wired network communication.

- Connect with BR-DCU-EXM full-digital extension main unit, it can expand to 5200 discussion units

- "Hand-in-Hand-Loop-Network" connection and the system assigned to each unit independently ID to avoid ID conflict.

- Both wired/wireless discussion units can connect to the controller, fast and easily to adding delegate of meetings.

- Up to 8 wireless microphones to be turned on at the same time, adaptive avoiding interference technology to achieve stronger anti-interference ability, compliance with IEEE 802.11n standard Wi-Fi both for 2.4GHz and 5GHz.

- 2 channel audio input, XLR or RCA type, for local audio input or remote video-conferencing input.

- Maximum 8-channel audio output, XLR, RCA or Phoenix type, can be connected to simultaneous 64 interpretation output or partitioned output.

- Add the audio input box, the system can be connected to other condenser microphones or dynamic microphones, more choices for users.

- Built-in multi-way internal communication function.

- TCP/IP connection between controller and PCRS232 central control, realize microphone switch, priority, volume and other controls.

- RS232 or RS485 to send the PELCO/VISCA protocol to realize camera auto-tracking function.

- Hot plug-and-play, and auto-recovery function.

- Wide range of voltage from 100V~240VAC

- By using RFID card to identify, can realize voting with names.

## Control & Indicators

- LCD display to show all the operations and results
- 4-Way button for menu operate
- One-button press to start recording
- light indicator
- Master volume control knob

## Interfaces

- Front panel USB recording interface
- 3.5mm headphone for monitoring
- 1x RCA audio input
- 1x XLR audio input
- 1x RCA audio output
- 1x XLR audio output
- 6x Phoenix audio output connector
- 2x RJ45 digital audio connection
- 2x RJ45 for chairman unit, delegate unit, unit translators and other connection
- 1x RJ45 for wireless AP or router
- 1x DP9 male interface for external control
- 1x DP9 female interface for camera
- 1x three-pin phoenix interface for camera control keyboard
- 1x RJ45 for computer connection or network switcher
- 1x grounding screw
- 1x 100 ~ 240V AC Power Interface

## Technical Parameters

- Power 100V / 240V AC
- Static power consumption 12W
- Maximum power consumption 150W
- Frequency Response 20Hz ~ 20KHz
- Noise ratio (S / N) >96dBA
- Total harmonic distortion <0.05%
- Channel Crosstalk> 85dB
- Dynamic range >94dB
- RS-232 control: 1×9-pole Sub-D female socket 1×9-pole Sub-D male socket
- Ethernet control: RJ45 connected to PC
- Mounting: 19" standard rack
- Dimensions (mm) 483L x 260W x43.6H
- Weight: 3kg
- Black color
- Max. audio inputs
- LINE IN 1: +10dBu
- LINE IN 2: +10dBu

- Max. audio outputs
- LINE OUT 1: +12dBu BAL.
- LINE OUT 2: +12dBu BAL.
- LINE OUT 3: +12dBu BAL.
- LINE OUT 4: +12dBu BAL.
- Transmission technology: WIFI 802.1n
- Encryption technology: WPA2-PSK AES
- Working frequency: 5.2-5.8 GHZ
- Output impedance: >1kΩ
- PC communication method: TCP/IP
- Camera control method: RS-232/UDP
- Network Interface: RJ45
- Display: LCD1602
- Limit on the number of speakers: 1/2/4, max in 6 persons
- Camera Tracking Protocol: PELCO-P/PELCO-D/ VISCA
- Operating temperature: 0~45℃
- Storage temperature: 20~50℃

# BR-DCU-AP

## 2.4GHz/5GHz Conference Access Point

✓ Typical coverage range 30m

✓ Install on ceiling, wall or with stand rack mount

✓ Password protection to connect to the conference

## Features

- Connect with the Wi-fi conference processor, or with the switch to extend more conference AP in the same system.

- 128 bits AES digital encryption technology, with WAP2 secure connection, MAC address filtering, SSIDhiding to prevent wiretapping and unauthorized access from delegate unit.

- Network/Web based application

## Functions

- LED indicator for signal/power.

- 5GHz dual band communication

- LAN support POE- 802.3af power supply

- RJ45 for LAN connection

## Technical Parameters

| RF | |
|---|---|
| WLAN Standard | IEEE802.11ac, IEEE802.11a, IEEE802.11g, IEEE802.11b |
| RF Frequency Bands | 2.4GHz ISM / 5GHz UNII |
| Max Transmission Power | 27dBm |
| Antenna Type | Four built-in 5dBi antennas |
| **POWER** | |
| Supply Type | Power Over Ethernet, 802.3at, DC 12V 1.5A |
| Supply Voltage (at Power Consumption) | ≤13W |

| NETWORK | |
|---|---|
| Interface | 1×Gigabit WAN/POE Port, 1×Gigabit LAN Port |
| Link Speed | 1200Mbps |
| Networking Addressing Capability | DHCP or Manual IP address |
| Cable Length | 100m (max) |
| Cable Type | ≥ Cat5e (shielded / unshielded) |
| Connector Type | 1× RJ45 |
| Connector LED | WAN/POE Port (UP LED), LAN Port (Down LED) |
| **USER INTERFACE** | |
| LED StatusIndication | Power, Network Audio, Wireless (Yellow / Blue) |
| Reset | Push button for Factory Reset |
| **MECHANICAL** | |
| Dimensions | 220L×220W×45H(mm) |
| Color | White |
| Weight | 0.3KG |
| Mounting Type | Ceiling, Wall or Stand Rack |

# BR-DWTS-BTY

## Rechargeable Battery pack for wireless touchscreen unit

✓ Long life and lasting stability of charging performance

✓ After fully charged it can use 24 hours

## Features

- Three hours needed to fully charge
- Efficient lithium batteries

## Functions

- Contactor by pop-up pins
- Buckle housing to prevent poor contact or dropping

## Technical Parameters

- Battery capacity: 5000mAh/ 6500mAh
- Output voltage: 7.2VDC
- Weight: 240g
- Operation temperature: -20°C~60°C

# BR-WCH1

## Charger for battery

✓ Contactor by pop-up pins

✓ Buckle housing to prevent poor contact or dropping



## Features

- 3 hours needed to fully charge
- MAX 10 pcs battery charging at one time
- Wide range power input: 100V~240V AC
- Buckle housing to prevent poor contact or dropping, light in weight for easy moving
- LED indicators for battery monitoring
- Software based monitoring for capacity and testing

## Functions

- Contactor by pop-up pins
- Buckle housing to prevent poor contact or dropping

## Technical Parameters

- Input: 100 ~ 240VAC 50 ~ 60HZ
- Output: 7.2V/1000mA
- Power consumption: 20W
- Size: 530Lx200Wx52H(mm)
- Weight: 2KG

# BR-DCU-G485

## Pluggable Gooseneck Microphone

✓ Precise directional microphone head with Mini design

✓ Two color LED ring indicator

✓ Anti-wind microphone foam cover

✓ Strong audio collection ability to work with different length of microphone

## Features

- Precise directional microphone head with Mini design
- Two color LED ring indicator
- anti-wind microphone foam cover
- Strong audio collection ability to work with different length of microphone

## Functions

- Two-color LED indicator on microphone, red for speaking, green means need acceptance from chairman to speak
- Screw lock socket to connect removable microphone

## Technical Parameters

| Item | G600 | G485 | G410 | G220 | |
|---|---|---|---|---|---|
| Directivity | Cardioid | | | | |
| Sensitivity | -46dBV/Pa | | | | |
| Frequency response | 30Hz~20KHz | | | | |
| Equivalent noise | 20dBA (SPL) | | | | |
| Signal-To-Noise Ratio Ref | ≥96dB | | | | |
| Microphone Type | Condenser | | | | |
| Dynamic Range | > 96 dB | | | | |
| Maximum SPL (1 kHz at 1% THD, 1 kΩ load) | 125dB (THD<3%), Nominal input- 80 dB SPL, Maximum input- 110 dB SPL | | | | |
| Conference unit connection | Mini 6 pin. | | | | |
| Input impedance | 2 kΩ | | | | |
| Working temperature | 0~45°C | | | | |
| Storage temperature | -20~50°C | | | | |
| Weight | 80g | 80g | 60g | 60g | 60g |
| Length | 600mm | 485mm | 410mm | 330mm | 220mm |
| Color | black | | | | |

# BR-MDM-22

## CAT5 Wired Digital Basic Discussion Chairman/Delegate Unit

✓ Short Square Shape with modern design

✓ Low profile in front of speaking person

✓ Long distance voice pickup

✓ Mic ON/OFF Light indicators on both sides.

✓ 4-direction angle adjustable

## Features

- Short Square Shape with modern design, low profile in front of speaking person
- Long distance voice pickup up to 80cm
- Mic ON/OFF Light indicators on both sides.
- 4-direction angle adjustable, 100° from left to right. 120° from up to down

## Functions

- Designed for high quality sound reproduction in venues such as boardrooms, conference rooms, courtrooms and other such venues.
- The effective sound reception angle of 90° can prevent interference from adjacent microphones and suppress howling.

## Technical Parameters

| | |
|---|---|
| Directivity | Cardioid |
| Frequency response | 60Hz~17KHz |
| Mic Capsule | 2 |
| Sensitivity | -37dB+/-3dB@1KHz (0dB=1V/Pa) |
| Input impedance | 200 Ohms |
| SNR | 69dB (A) |
| Dynamic Range | 91dB |
| The maximum sound pressure | 125dB at 1KHz 1% T.H.D. with C.M.R. of 45dB |
| Power supply | 9-48V Phantom Power |
| External interface | 6-pin/XLR |
| Weight | 180g |
| Size | 36*24*216 (mm) WxHxL |
| Color | Matte black |

**Conference Hall**



**Lecture Hall**



**Auditoriums**



**Board Rooms**

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