

WIRELESS CONFERENCE SYSTEM

WiFi Wireless Touch Screen Discussion Unit & Accessories

Five-product technical reference covering the BR-DWTS-BU base unit, the BR-MDM-22 shotgun microphone, the BR-HL professional cable family, the BR-DWTS-BTY battery pack and the BR-DCU-DWTS-CASE flying case.

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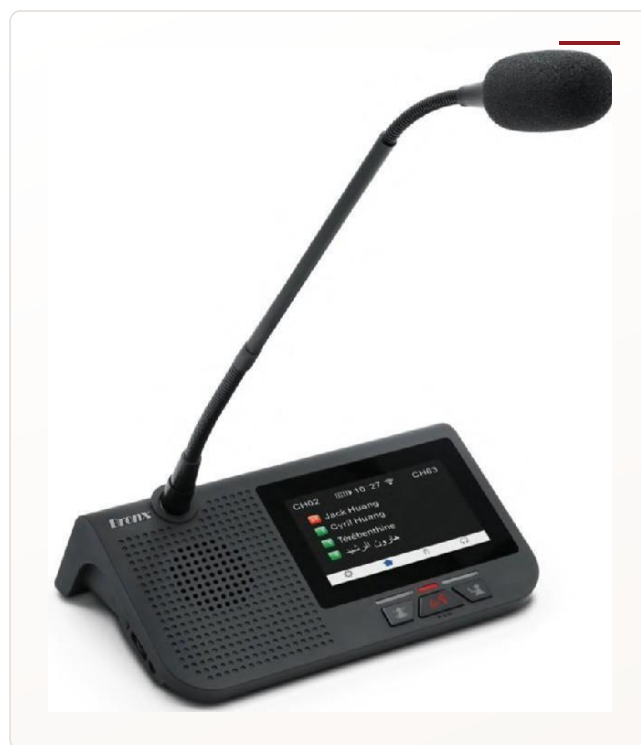
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01 · DISCUSSION UNIT

WiFi Wireless Touch Screen Unit

All-in-one chairman / delegate / VIP / dual-delegate platform with 4.3-inch capacitive colour touch screen.

Stylish low-profile design with built-in NFC card reader, 5 GHz / 2.4 GHz WiFi plus wired CAT5/6 redundancy, replaceable 24-hour battery and pluggable gooseneck microphone — configurable into a chairman unit, delegate unit, VIP unit or dual-delegate unit per meeting.



TOUCH SCREEN 4.3 inch	BATTERY RUNTIME 24 hours	WIFI 2.4 / 5 GHz	CONCURRENT SPEAKERS 8 units
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HEADLINE CAPABILITIES

- Stylish, low profile design with touchable interface
- Easily expand functions by setting software modules
- 2 Headphone Jack
- Hindi / Devnagri language support
- Microphone locking mechanism

01.1 Features

16 CAPABILITIES

- 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
- Supports star and loop through connections
- Internal high-fidelity loudspeaker.
- Hindi/Devnagri language support (Displaying multiple user interface languages in original characters)

01.2 Functions

WIRELESS · AUDIO · VOTING · CAMERA

- Standard Wi-Fi technology is compatible with other Wi-Fi networks, support 2.4 GHz and 5 GHz on all channels.
- Full-digital transmission and processing technology in uncompressed audio, professional microphone to achieve perfect sound quality at 20 Hz ~ 20 KHz.
- 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 (AutoMix) technology.
- Build-in functions for intercom.
- Contains five 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.
- 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 standby 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.

01.3 Control & Indicators

8 ELEMENTS

- 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.
- Power ON/OFF button is hiding on the left side
- Individual EQ setting on discussion unit (8-band)

01.4 Interfaces

CONNECTIVITY

- Pluggable gooseneck microphone base
- 2x 3.5 mm stereo headphone jack
- 1x 3.5 mm stereo input jack
- 2x RJ 45 connectors
- Contactor for battery pack
- DC Connector for power adaptor
- Microphone Input Impedance 1K

01.5 Technical Parameters

DISPLAY · NETWORK · PICKUP

Screen size	109.22 mm (4.3 inches)
Resolution	800 × 480
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

01.6 Electrical Parameters

POWER · AUDIO SIGNAL

Power	48 V DC
Power saving mode consumption	1.4 W
Maximum power consumption	3.8 W (connection with wireless and wired together)
Frequency response	20 - 20000 Hz
THD at rated level	< 0.03%
Sound Pickup	Heart type capacitance
Dynamic range	> 114 dB A Weighted, 112 dB Unweighted
S / N ratio	≥ 96 dB

01.7 Audio Output

HEADPHONE PATH

Headphone Max Output Level	2.2 dBV
Frequency Response	80 Hz - 20 KHz
THD + Noise	< 0.03%
Dynamic Range	102 dB
Load Impedance	> 8 ohm
Configuration	Dual Mono
Type	TRRS 3.5 mm Female Socket

01.8 Audio Input

MICROPHONE PATH

Nominal Mic Input	80 dB SPL
Maximum sound Pressure	125 dB
Sensitivity	-46 dBV / Pa
Microphone Pickup Area	100-degree pickup area, narrower than a super cardioid or cardioid

01.9 Environmental

OPERATING CONDITIONS & COMPLIANCE

Operating Temperature	0 degree C to 40 degree C
Charging Temperature	0 degree C to 35 degree C
Storage Temperature	-20 degree C to 50 degree C
Relative Humidity	< 95 %
Speaker and Microphone Simultaneity	Loudspeaker and Microphone can be active simultaneously for face to face meetings
Hot Plug-and-Play	Hot Plug-and-Play Feature
Customization	Custom logo on touchscreen

REFERENCE · SYSTEM PAIRING

- BR-MDM-22 — shotgun microphone for delegate / chairman position.
- BR-HL series — 2 m to 100 m wired CAT5e backbone cabling.
- BR-DWTS-BTY — replaceable 7.2 V / 12800 mAh lithium battery pack.
- BR-DCU-DWTS-CASE — 10-unit charging & storage flying case.

All specifications subject to revision without notice. Custom finish, colour and software modules available on request through your authorised Bronx Systems distributor.

02 · MICROPHONE UNIT

CAT5 Wired Digital Basic Discussion Chairman / Delegate Unit, Shotgun Microphone

Short square-shape body, low profile, long-distance voice pickup up to 80 cm.

- ✓ 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



02.1 Features

FORM & PICKUP

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

02.2 Functions

APPLICATION NOTES

- 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.

02.3 Technical Parameters

ACOUSTIC · ELECTRICAL · MECHANICAL

Directivity	Cardioid
Frequency response	60 Hz ~ 17 KHz
Mic Capsule	2
Sensitivity	-37 dB +/- 3 dB @ 1 KHz (0 dB = 1 V/Pa)
Input impedance	200 Ohms
SNR	69 dB (A)

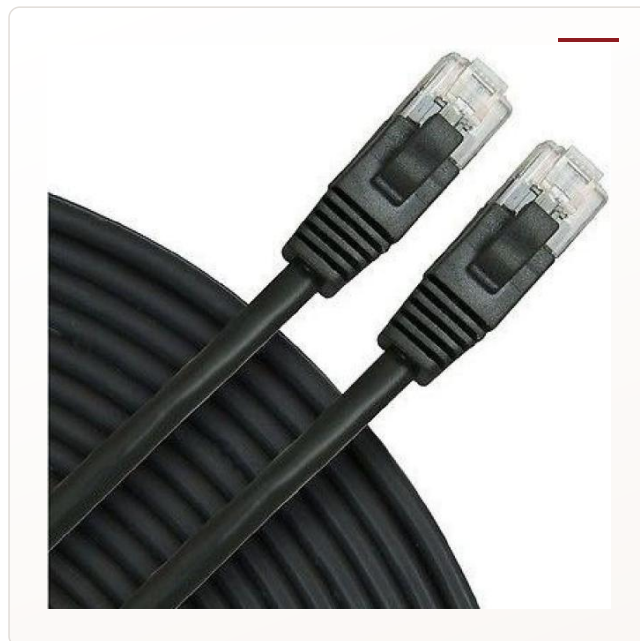
Dynamic Range	91 dB
The maximum sound pressure	125 dB at 1 KHz 1% T.H.D. with C.M.R. of 45 dB
Power supply	9 - 48 V Phantom Power
External interface	6-pin / XLR
Weight	180 g
Size; Length of microphone	36 × 24 × 216 (mm) W × H × L; > 8.5"
Color	Matte black

03 · SYSTEM CABLE

Professional Conference Cable for Bronx Dialogue Systems

Extension cable for main unit to CU/DU unit, carrying 48 V DC power and signal across the dialogue chain.

- ✓ Extension cable for main unit to CU/DU unit
- ✓ Carry 48 V DC power and signals
- ✓ Male to Male cable
- ✓ Size from 2 m to 100 m
- ✓ Tested for Bronx dialogue conference systems (All models of Dialogue series only)



03.1 Technical Specifications

CONSTRUCTION & PERFORMANCE

Connector	2x male RJ45 — Shielded RJ45
Shielding	F/UTP
Resistance	100 ohm $\pm$ 15%, 1 MHz to 100 MHz
Delay skew	25 ns / 100 m max

Gauge	24 AWG solid bare copper
Flame retardant rating	Yes
Storage Temperature	-20 °C ~ 80 °C
Operation temperature	-20 °C ~ 60 °C

03.2 Ordering Codes 7 LENGTH VARIANTS — ALL BLACK SHIELDED CAT5E U/FTP, SHIELDED RJ45

SKU	LENGTH	DESCRIPTION
BR-HL002	2 m	Black shielded Cat5e U/FTP cable (shielded RJ45)
BR-HL003	3 m	Black shielded Cat5e U/FTP cable (shielded RJ45)
BR-HL005	5 m	Black shielded Cat5e U/FTP cable (shielded RJ45)
BR-HL010	10 m	Black shielded Cat5e U/FTP cable (shielded RJ45)
BR-HL020	20 m	Black shielded Cat5e U/FTP cable (shielded RJ45)
BR-HL050	50 m	Black shielded Cat5e U/FTP cable (shielded RJ45)
BR-HL100	100 m	Black shielded Cat5e U/FTP cable (shielded RJ45)

04 · BATTERY PACK

Detachable Lithium Battery Pack

Buckle-housed pop-up contactor pack for the BR-DWTS-BU touch screen unit.

Long life and lasting stability of charging performance. Three-hour fast charge gives up to twenty-four hours of run-time in power-save mode using efficient lithium chemistry.



CAPACITY	OUTPUT VOLTAGE	WEIGHT	CHARGE TIME
12800 mAh	7.2 V DC	240 g	3 hours

04.1 Features

CHARGING · CHEMISTRY

- Long life and lasting stability of charging performance
- After Fully Charged it can use 24 Hours (with power save mode)
- Three Hours needed to fully charge
- Efficient lithium batteries

04.2 Functions

MECHANICAL INTERFACE

- Contactor by Pop-up pins
- Buckle Housing to prevent poor contact or dropping

04.3 Technical Parameters

ELECTRICAL · MECHANICAL · ENVIRONMENTAL

Battery Capacity	12800 mAh
Output Voltage	7.2 V DC
Weight	240 g
Operation Temperature	-20 degree C ~ 60 degree C

05 • FLYING CASE

Flying Case for Charging and Storage

10-bay charging & transport case for BR-DWTS-BU base units and BR-DCU-Gxxx gooseneck microphones.

- Charge and store
- For 10 BR-DWTS-BTY units
- Available for air transport
- This case is designed to charge and store BR-DWTS-BU, BR-DCU-Gxxx series gooseneck microphone units while on-the-go.
- Each case can accommodate up to 10 wireless base units.
- The case is constructed with sturdy yet lightweight materials, making it convenient to transport.
- Additionally, it is equipped with a secure locking mechanism to ensure the safe transport of your units.



BAYS	AIR TRANSPORT	LOCKING	COMPATIBILITY
10 units	Yes	Secure	DWTS-BU + DCU-G

05.1 Inside the Case

CONFIGURATION DETAIL



Pairs with the BR-DWTS-BU touch screen unit and BR-DCU-Gxxx gooseneck microphone family. Internal foam routing fits ten base units plus their gooseneck microphones in the lid tray.

BRONX

Engineered for Indian boardrooms, ministries, courtrooms and broadcast halls – wireless conference systems built around the BR-DWTS family.

ABOUT BRONX SYSTEMS

An Indian Original Equipment Manufacturer. ISO certified · MSME · Make in India · NSIC. Bronx Systems supplies professional audio-visual, conference, control-room and signage solutions to government, defence, broadcast and enterprise customers across India.

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DOCUMENT

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REVISION

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