

EDC-1051

Easy Digital

Conference System

User Manual

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Overview

Thank you for purchasing EDC 1000 conference system from BXB Electronics Co.

EDC1000 is the easiest digital conference system with superb performance and elegant design which can be used in various conference rooms.

EDC1051 main control unit has the latest built-in digital control module which can control up to 10 chairman units and 127 delegate units. What's more, the digital volume control module and communication control module can definitely meet your requirements for any occasion.

The main control unit runs auto-detection to check if all the units work properly when turning on, facilitating timely system detection.

High reliability is our utmost purpose when developing EDC1000 conference system. Each main control unit and its fittings have all gone through careful assembly and strict test in our ISO 9001 approved factory. The excellent performance, high reliability and reasonable price make it the indispensable conference system for you.

System Features

Main Control Unit

1. Auto-detect connection
2. Digital control capability: 10 chairman units and 127 delegate units
3. 1(20*4) LCD screen and 3 conference mode setting buttons: MODE, UP, DN
4. built-in digital volume control module
5. built-in software control module

Chairman Unit

1. Types: Tabletop and flush-mounted
2. Microphone on/off button, control button
3. built-in conference digital volume control module
4. Pliable in anywhere within circuit
5. A maximum of 10 units can be installed
6. ID code setting: 7-bit DIP switch

Delegate Unit

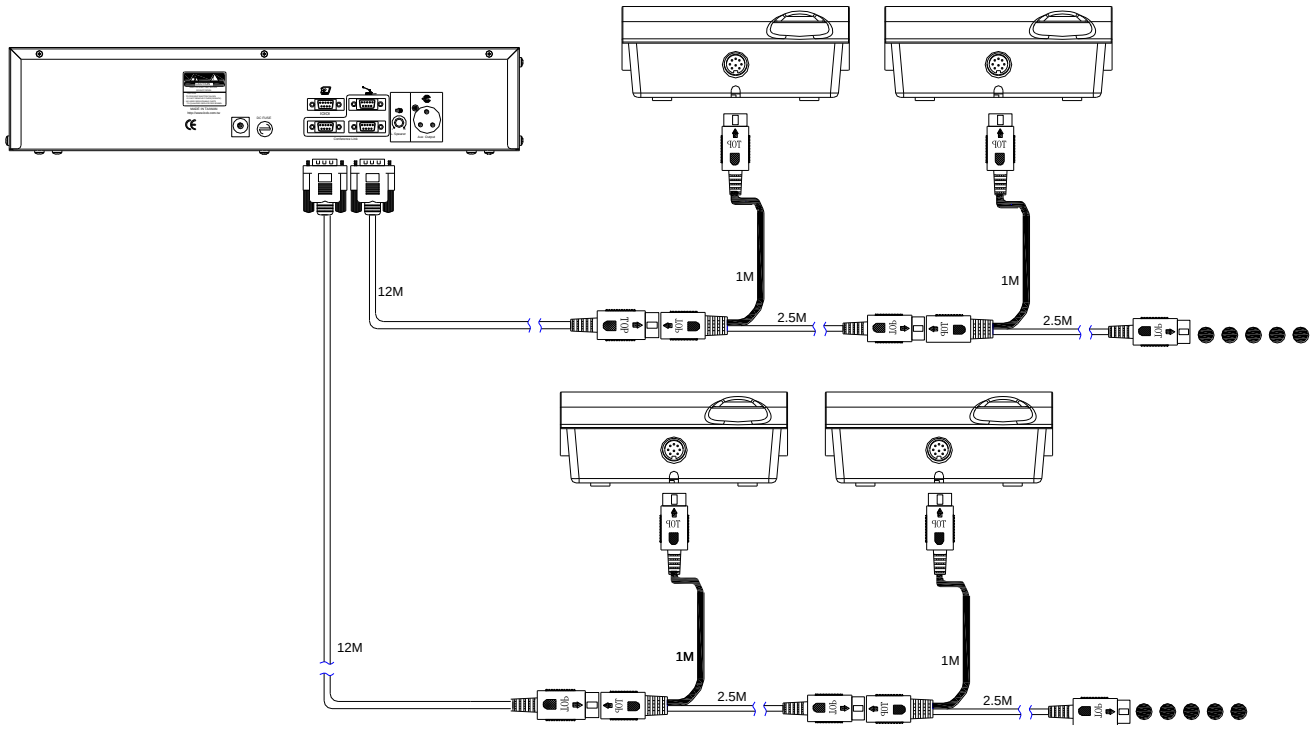
1. Types: Tabletop, flush-mounted and hand-held
2. Microphone on/off button
3. A maximum of 127 units can be installed
4. ID code setting: 7-bit DIP switch

Safety Instructions

1. Please read and observe these instructions before installing and using the apparatus.
2. Use only accessories specified by the manufacturer. The manufacturer is not liable for damage caused by the use of non-specified accessories.
3. Install the apparatus and its accessories carefully. Strike and fierce shaking may damage the apparatus.
4. Make sure the power cord is fixed properly.
5. Do not overload wall outlets and extension cords as this can result in a risk of fire or short circuit.
6. To reduce the risk of damage from lightning strikes, it is important that all electric cables should be bonded to the same grounding point.
7. Do not block any ventilation openings to prevent overheating and malfunction.
8. Do not expose the apparatus to rain or moisture.
   Humidity may lead inside components to damage. Appropriate shelter is necessary when placing it outside (Best working environment: Temperature 0°C ~ 40°C <32°F ~ 104°F>, humidity below 90%).
9. Please do not switch on and off the apparatus rapidly.
   Rapid switch on and off the apparatus should be avoided all the time to prevent inside sensitive electronic circuits from being damaged by surges.
10. Do not clean the apparatus and its accessories with chemical solvents. Use only a clean, dry/dampish cloth.
11. Refer to maintenance technician when the apparatus has been damaged in any way, such as:
    A• power-supply cord or plug is damaged
    B• liquid has been spilled in
    C• has been exposed to rain or moisture
    D• has been dropped
    E• objects have fallen into the apparatus
    F• does not operate normally
12. Note: When the printed circuit board is going through electric static treatment, correct ESD safety precaution and grounding should be assured.
13. Note: Before connecting the apparatus to main AC, please select the supply voltage in accordance with the wall voltage in your country to prevent damage. Refer to Installation and Setting (Page 8) for selecting.
14. Warning: Do not disassemble or remodel the product, as these actions may lead to electrical shock or damage. The guarantee on the product will become null if the product is ever disassembled.

Installation

Connection between main control unit & microphone units

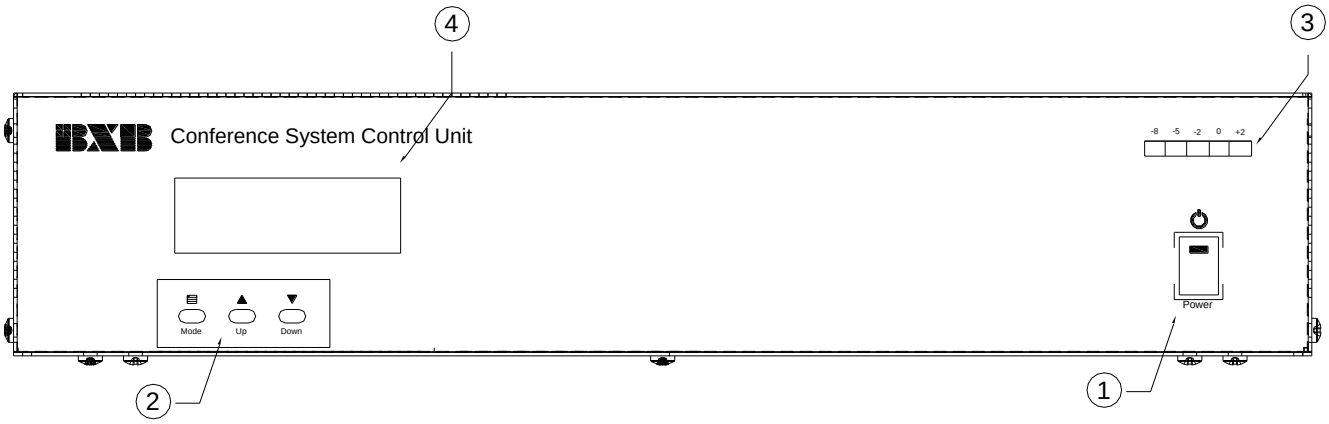


- There are three groups of microphone port on the main control unit, which can be connected randomly.
- Chairman/delegate unit is equipped with hidden connecting terminal. While connecting, BXB Advanced Y shape fast cord is adopted to form hidden wiring with simple and beauty effect.
- The chairman microphone can be plugged at any place without order limitation.
- **Please make sure the power is off before unplugging the unit.**

EDC 1051 Operation and Function

Front Panel Description

Video



1. Power switch

2. Conference mode setting buttons

   MODE Mode select button

   UP Mode parameter increase / volume up

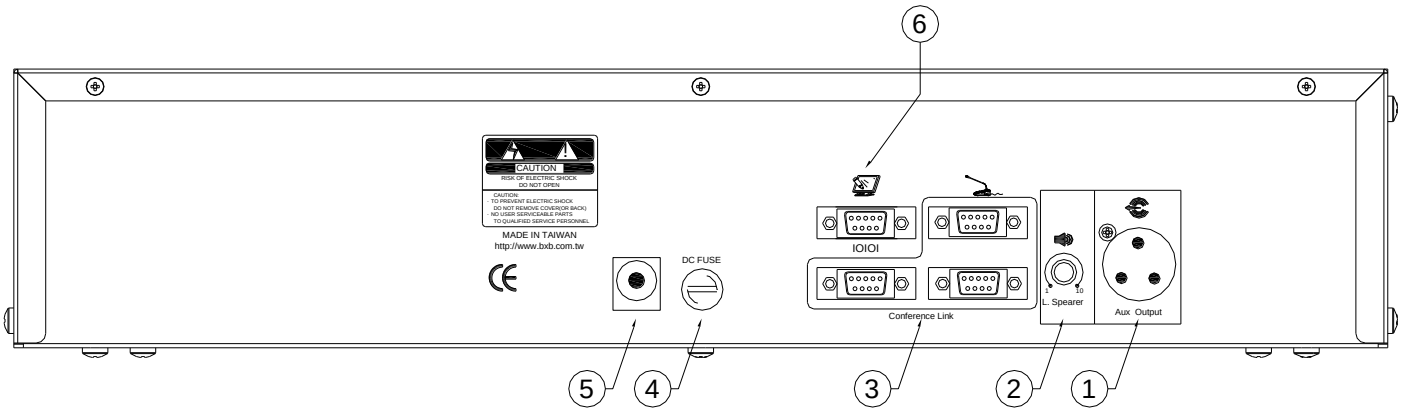
   DN Mode parameter decrease/ volume down

3. Volume output LED indicator

4. Control mode 20×4 LCD screen

Rear Panel Description

Video

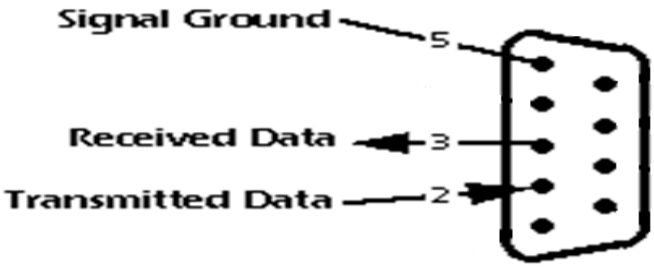


1. Aux output terminal (XLR).
2. L. speaker volume control – for conference unit built-in loudspeaker
3. Link 1~3 – Conference unit connectors
4. DC fuse (DC 250V/8A).
5. Power input 100V ~ 240V.
6. RS-232 port

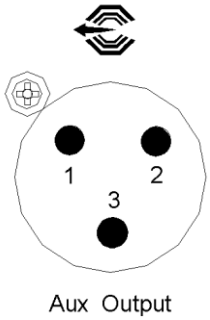
   2nd foot: Transmitted Data (Tx)

   3rd foot: Received Data (Rx)

   5th foot: Signal Ground(G)



※Aux output terminal pin diagram

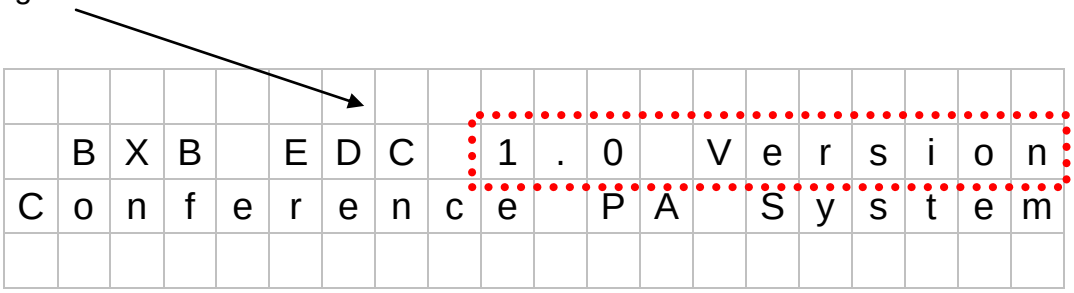


1:Ground
2:Sound (Aux)
3:Empty

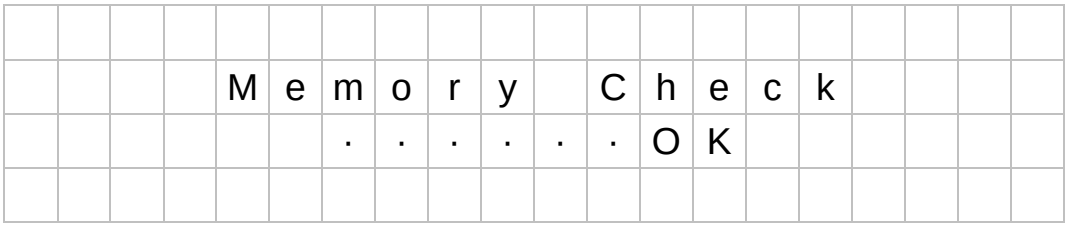
1. Turn On

Video

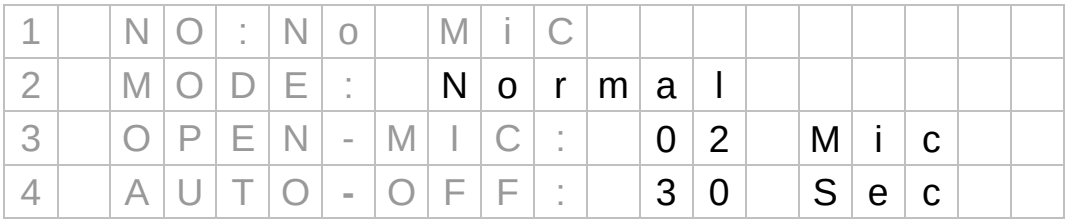
1.1 After confirming all the wiring is done, switch on the main controller and the LCD will display following information:



1.2 Later, the system will start auto-scanning all connected conference microphones; LCD will display following information:



1.3 After scanning completes, LCD will display following information (default page).



NOTE：

1. When the main controller is turned on, the system start auto-scanning if all the microphones work properly. Red light ring on normal microphone stays on while flashing ones mean connection failure.
2. In this case, turn off the unit and check whether the microphone connection is correct or not. Switch it on and check again.
3. Press any of the microphone unit or wait for 30 seconds, light ring on microphones will be turned off, the conference is ready to go.

2. LCD Instructions

Video

1		N	O	:														
2		M	O	D	E	:		N	o	r	m	a	l					
3		O	P	E	N	-	M	I	C	:		0	2		M	i	c	
4		A	U	T	O	-	O	F	F	:		3	0		S	e	c	

→①
→②
→③
→④

5		S	Y	S	T	E	M		L	E	V	E	L					
		P	A		V	O	I	C	E		:				8	0	%	

→⑤

1.➝ NO: Shows speaking microphone ID code: **3** groups of ID code per page.

i. Chairman microphone ID code:✳✳**1 ~ ✳10**

ii. Delegate microphone ID code:**001 ~ 127**

2.➝ MODE:

i. **Normal**：Normal Mode

ii. **Override**：Override Mode

iii. **Chairman**：Chairman Mode

3.➝ OPEN-MIC: Give limit to the number of talking microphones: **1~9** or all.

4.➝ AUTO-OFF (Automatic Mic-off): **30/45** seconds & and manual turn off.

5.➝ Adjust volume by pressing "UP" button ▲ or "Down" button ▼.

※ When stop pressing buttons for 30 seconds, the system will save the setting automatically and goes back to default page.

3. System Operations & Settings

3.1 Talking Microphones Display

Video

3.1.1 When conference microphone is using, the red light ring on it will be on. Meanwhile, its ID code will be displayed on the LCD on main control unit.

3.1.2 Three using microphones codes can be shown on the preset menu.

1		N	O	:		0	0	1		0	0	2		0	0	3			
2		M	O	D	E	:		N	o	r	m	a	l						
3		O	P	E	N	-	M	I	C	:		0	2		M	i	c		
4		A	U	T	O	-	O	F	F	:		3	0		S	e	c		

3.1.3 If more than 3 microphones are in use, "🡐 🡒" icon will be displayed on the up-right of the LCD. Pressing MODE button → LCD screen will show " ▫" → press "UP" and "DN" button to check codes of using microphone.

1	▫	N	O	:		0	0	1		0	0	2		0	0	3		🡐	🡒
2		M	O	D	E	:		N	o	r	m	a	l						
3		O	P	E	N	-	M	I	C	:		0	2		M	i	c		
4		A	U	T	O	-	O	F	F	:		3	0		S	e	c		

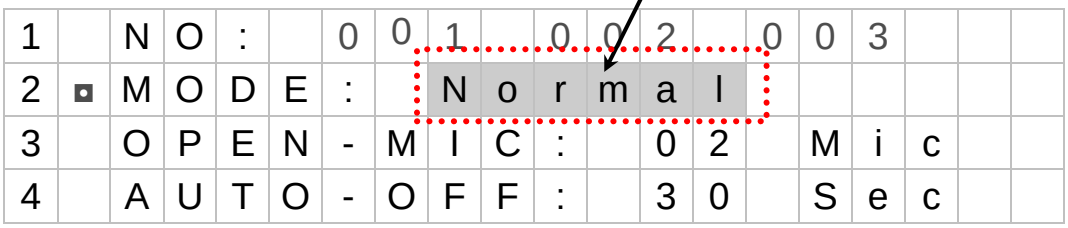
3.1.4 The symbol of "▫" icon indicates function is selected. Press MODE to switch items to setup conference modes.

Note: All figures shown on this manual is only for examples. Each main control unit has been through a series of QC test before leaving factory. Default values are not identical, users can change settings simply followed by the instructions below.

3.2 Conference Mode Setting

Video

3.2.1 Press MODE button → move "▫" icon to 2. MODE → **Normal** (flashing) → press "UP" or "DN" to change the conference mode.



3.2.2 Following are all the conference modes:

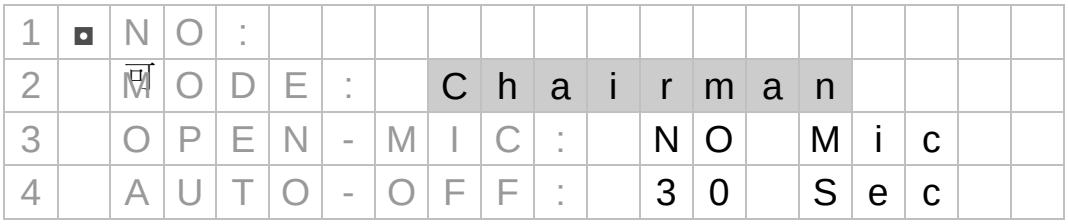
※All setting will not restrict chairman microphones.

Normal:

Delegate microphones can press the talk button and speak freely (within open mics limit). Press talk button again to turn off after speaking.

Chairman:

Only chairman microphone can speak. Other delegate mics become invalid.



Override:

Example 1: If you limit only **1** delegate microphone can be on, while the 2nd delegate press **TALK** button, the 1st microphone will be switched off automatically.

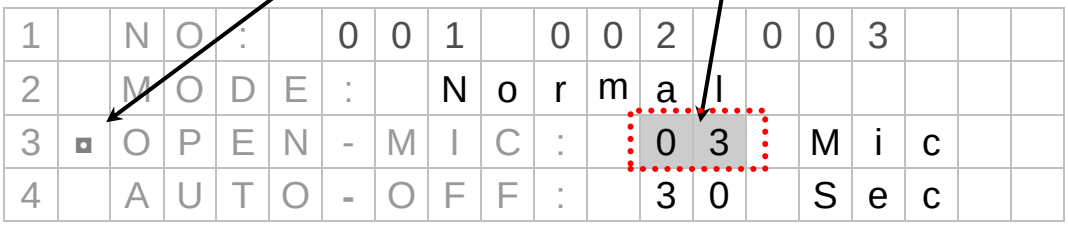
Example 2: If you limit **3** delegate microphones**,** turning on the 4th delegate unit will turn off the 1st talking delegate unit; turning on the 5th will turn off the 2nd, in a word, only 3 microphones can be on at a time. **1~9** microphones can be setup and chairman unit won't be limit in any of the modes.

3.3 Open Microphone Number Setup

Video

3.3.1 Select “Open- Mic”: ALL Mic/ 1-9 microphones.

3.3.2 Press MODE button ➝ move” ◘” to OPEN - MIC ➝ **03 Mic** will be flashing ➝press UP or DN to change numbers.



3.3.3 Limit number of open delegate microphones from 1~9.

4.3.3.1 OPEN –MIC：1 Mic ⇨ Only **1** delegate microphone can talk at a time.

4.3.3.2 OPEN –MIC：9 Mic ⇨ Up to **9** delegate microphones can talk at a time.

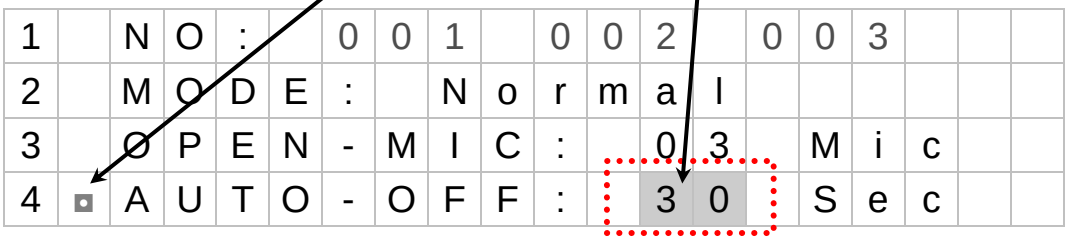
4.3.3.3 OPEN –MIC：ALL Mic ⇨ All the delegates can talk.

3.4 Automatic Turn Off Mic Time Setup

Video

3.4.1 Automatic mic off time (30/45 sec) could be set up. Delegate unit will be automatically switched off when receiving no sound input for 30/45 sec.

3.4.2 Press MODE button ➝ move “◘” to AUTO –OFF➝ **30 Sec** will be flashing ➝ press UP or DN button to switch 30/45 sec.



3.4.3 After finish talking in 30/45 secs, delegate microphones will be turned off automatically.

3.4.3.1 AUTO –OFF：30 Sec ⇨ Delegate microphones will be turned off in **30** sec.

3.4.3.2 AUTO –OFF：45 Sec ⇨ Delegate microphones will be turned off in **45** sec.

3.5 Volume Setting

Video

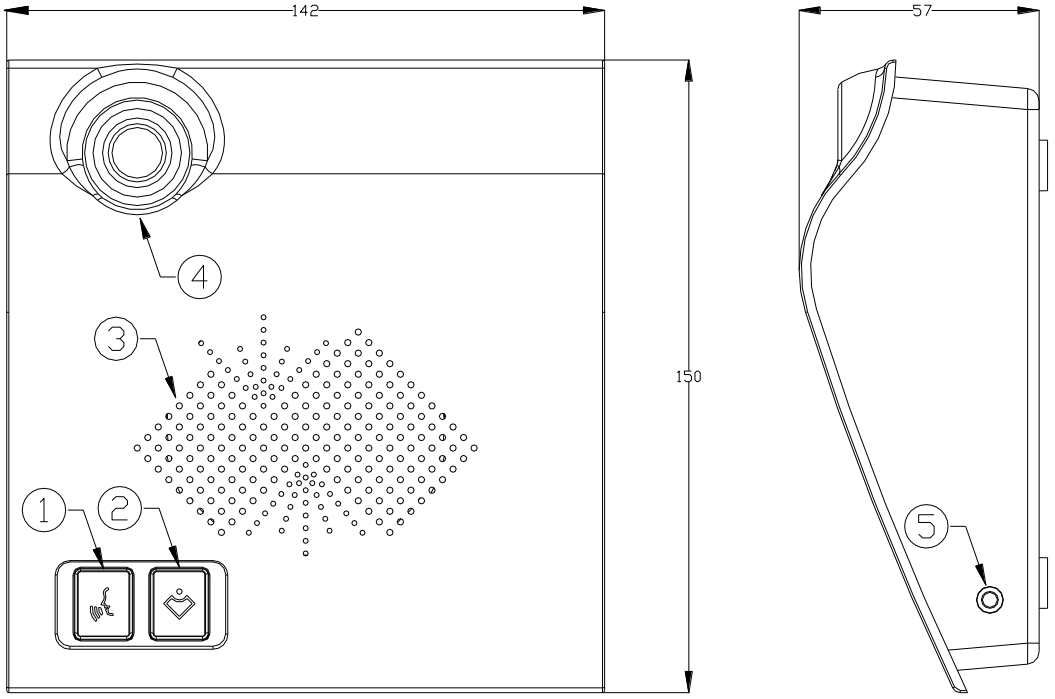
To adjust system volume, please press UP button▲ or Down button▼ on the main control unit, the LCD will be shown as follow:

		P	A		V	O	I	C	E		:				6	0	%		

※ When stop pressing buttons for 30 seconds, the system will save the setting automatically and goes back to default page.

Microphone Description

Tabletop Chairman Unit - EDC 1011



① → Talk button（with backlight indication）

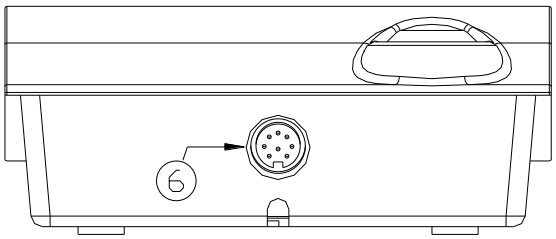
② → Chairman Control Button（with backlight indication）

③ → Build-in speaker for decentralized sound

④ → Built-in socket for DIN type microphone

⑤ → Recorder output plug

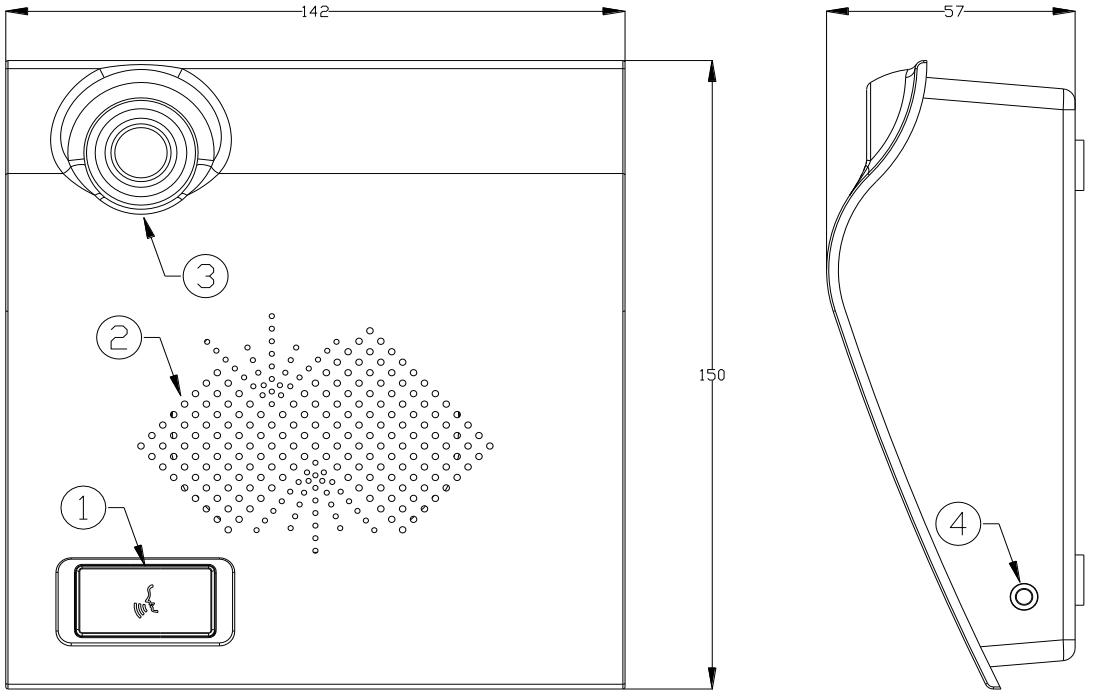
⑥ → Built-in socket for connection cable



Operation：

1. Press “Talk” button to turn on microphone. Both the button and the light ring on microphone will light up.
2. When turn on the microphone, build-in speaker on the unit will be silent to prevent echo.
3. Press “Control” button to turn off all delegate microphones. Delegate can press “Talk” button again to continue talking.
4. DIN type microphone and the base can be separated. It is not only easy to install and maintain for fixed areas, but also easy to transport and store for mobile areas.
5. Single Y-shaped connection cable and the built-in socket make the conference area tidy and neat.

Tabletop Delegate Unit - EDC 1012



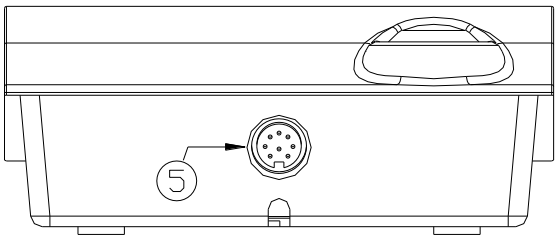
① → Talk button（with backlight indication）

② → Build-in speaker for decentralized sound

③ → Built-in socket for DIN type microphone

④ → Recorder output plug

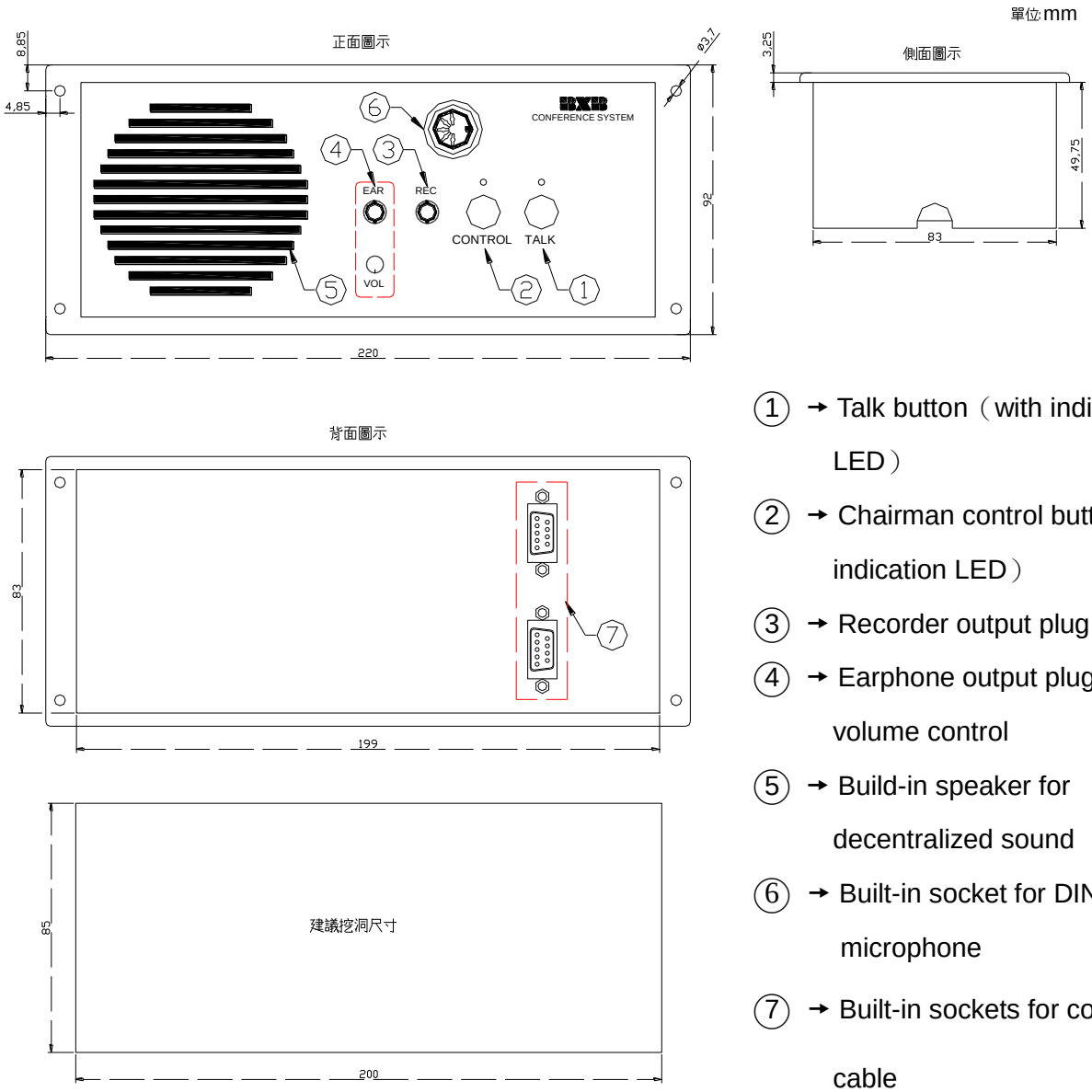
⑤ → Built-in socket for connection cable



Operation：

1. Press “Talk” button to turn on microphone. Both the button and the light ring on microphone will light up.
2. When turn on the microphone, build-in speaker on the unit will be silent to prevent echo.
3. DIN type microphone and the base can be separated. It is not only easy to install and maintain in fixed areas, but also easy to transport and store in mobile areas.
4. Single Y-shaped connection cable and the built-in socket make the conference area tidy and neat.

Flush-mounted Chairman Unit - EDC 1021



① → Talk button（with indication LED）

② → Chairman control button（with indication LED）

③ → Recorder output plug

④ → Earphone output plug and volume control

⑤ → Build-in speaker for decentralized sound

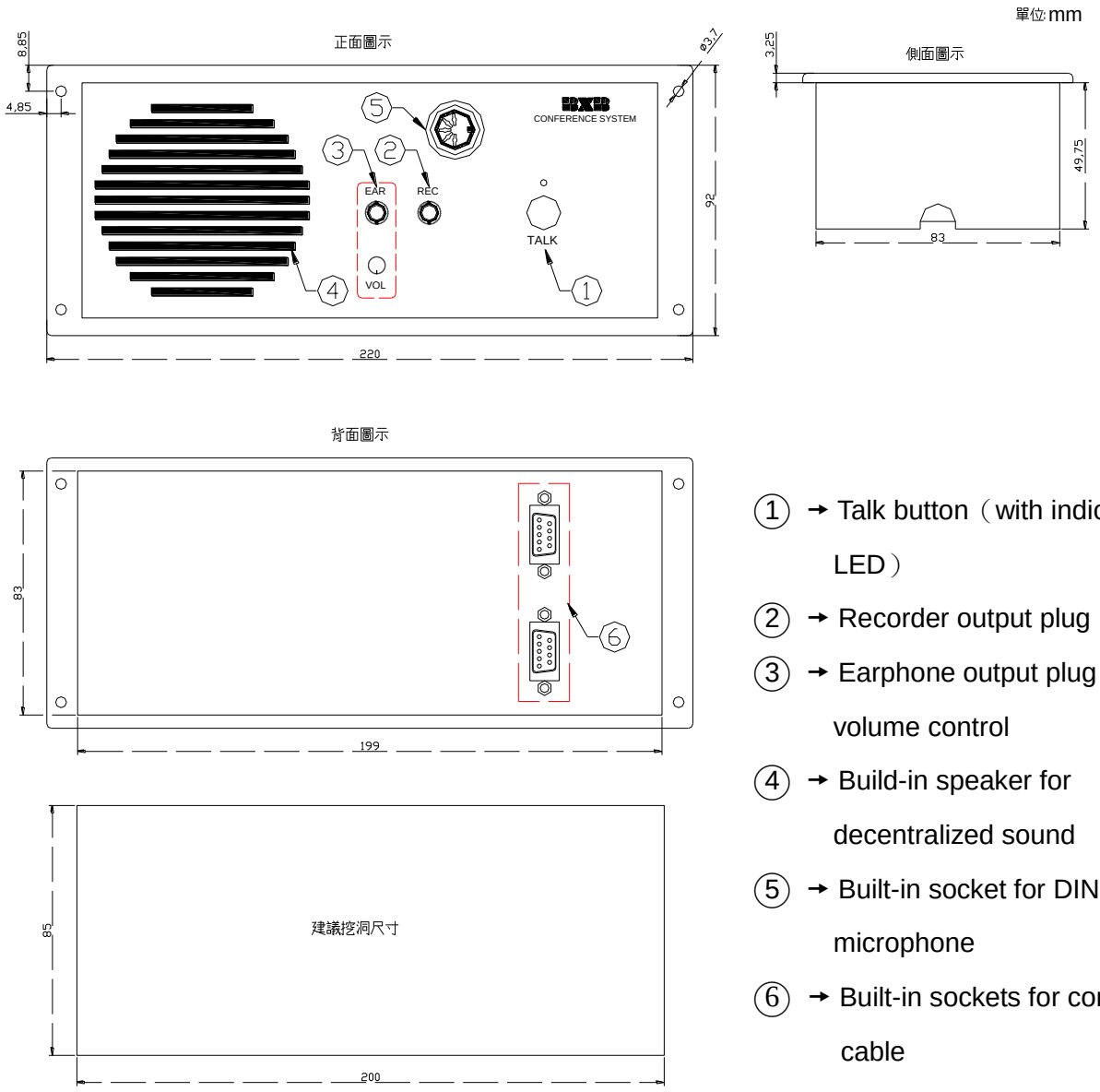
⑥ → Built-in socket for DIN type microphone

⑦ → Built-in sockets for connection cable

Operation：

1. Press “Talk” button to turn on microphone. Both LED above it and the light ring on microphone will light up.
2. When turn on the microphone, build-in speaker on the unit will be silent to prevent echo.
3. Press “Control” button to turn off all delegate microphones. Delegate can press “Talk” button again to continue talking.
4. DIN type microphone and the base can be separated. It is easy to install, maintain and store.
5. Single Y-shaped connection cable and the built-in sockets make the conference room tidy and neat.

Flush-mounted Delegate Unit - EDC 1022



① → Talk button（with indication LED）

② → Recorder output plug

③ → Earphone output plug and volume control

④ → Build-in speaker for decentralized sound

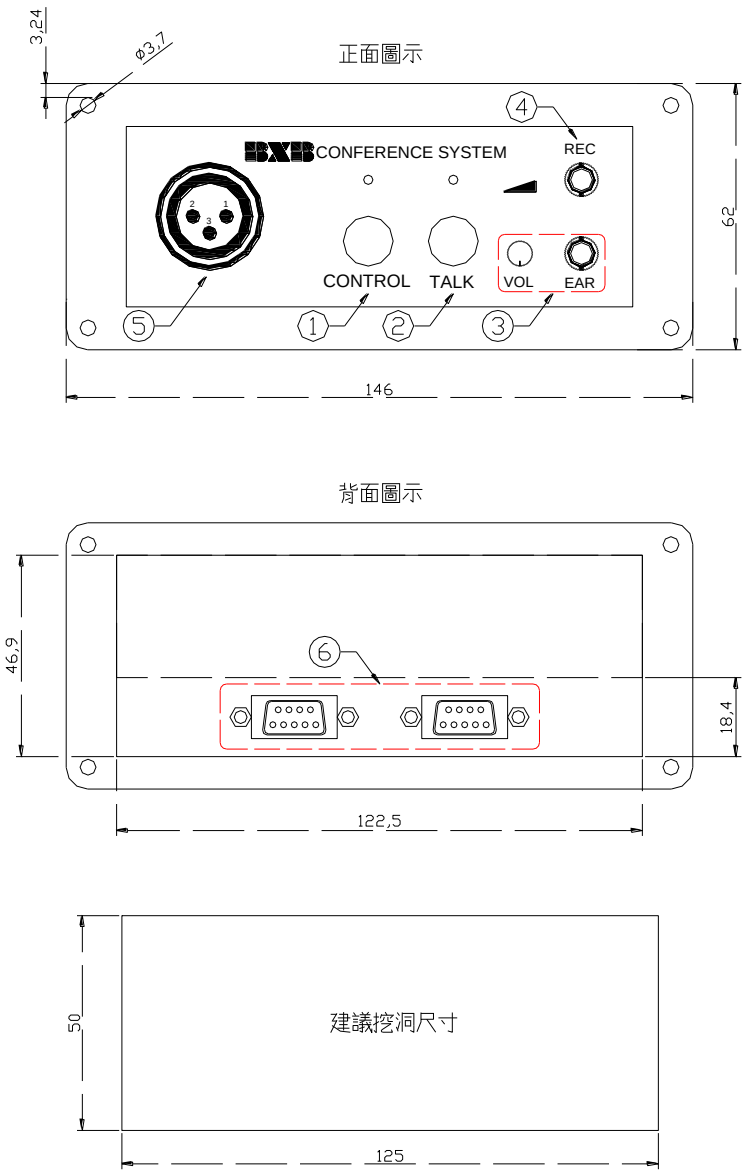
⑤ → Built-in socket for DIN type microphone

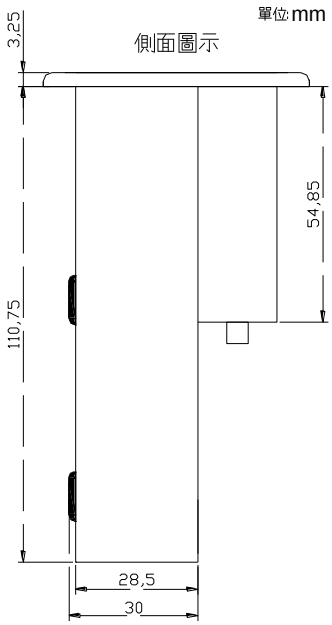
⑥ → Built-in sockets for connection cable

Operation：

1. Press “Talk” button to turn on microphone. Both LED above it and the light ring on microphone will light up.
2. When turn on the microphone, build-in speaker on the unit will be silent to prevent echo.
3. DIN type microphone and the base can be separated. It is easy to install, maintain and store.
4. Single Y-shaped connection cable and the built-in sockets make the conference room tidy and neat.

Flush-mounted Chairman Unit - EDC 1023





① → Chairman control button（with indication LED）

② → Talk button（with indication LED）

③ → Earphone output plug and volume control

④ → Recorder output plug

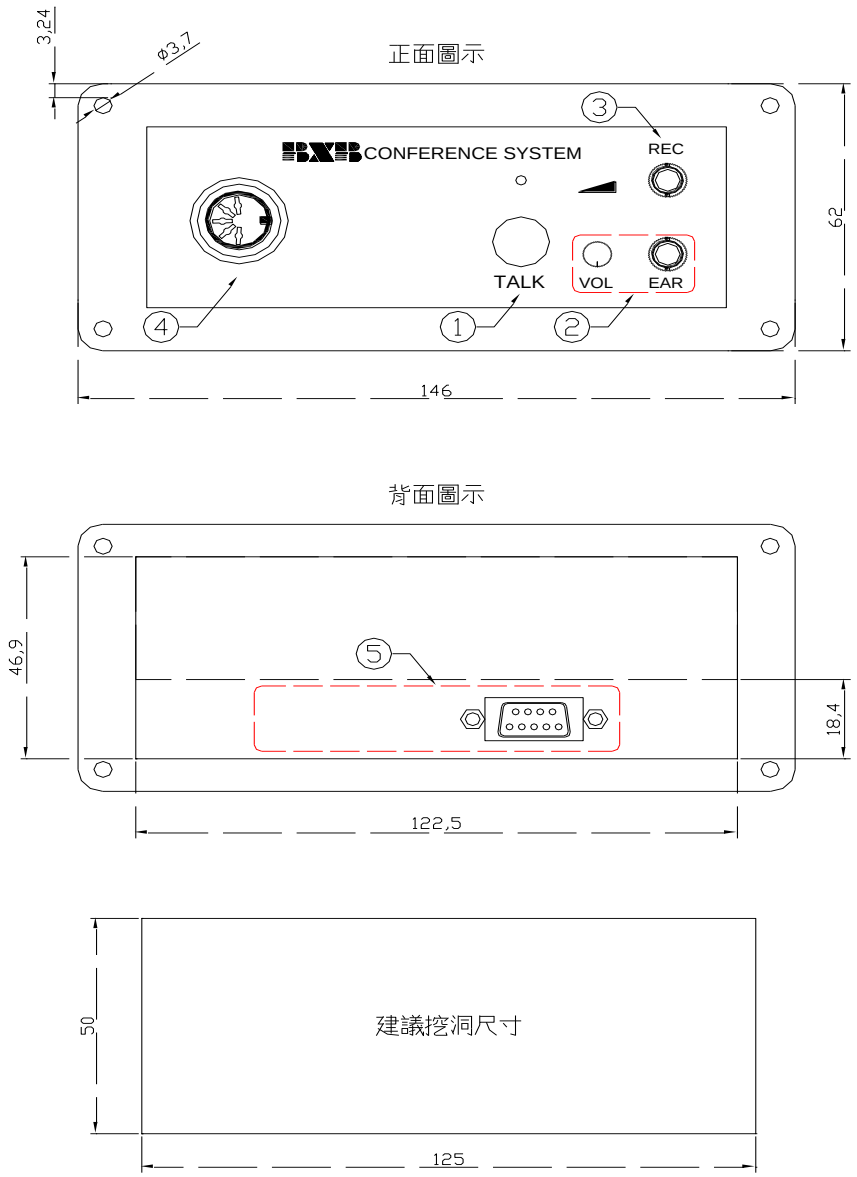
⑤ → Built-in socket for XLR type microphone

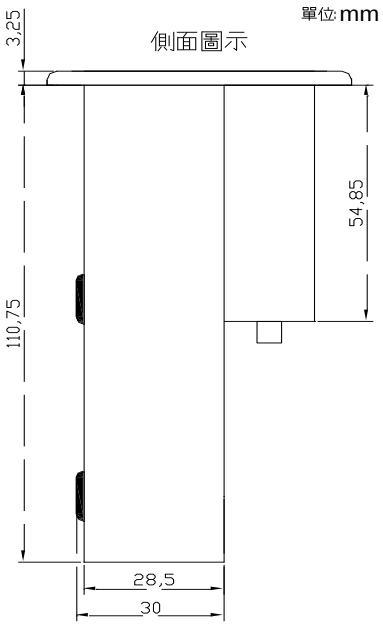
⑥ → Built-in sockets for connection cable

Operation：

1. Press “Talk” button to turn on microphone. Both LED above it and the light ring on microphone will light up.
2. Press “Control” button to turn off all delegate microphones. Delegate can press “Talk” button again to continue talking.
3. XLR type microphone and the base can be separated. It is easy to install, maintain and store.
4. Single Y-shaped connection cable and the built-in sockets make the conference room tidy and neat.

Flush-mounted Delegate Unit - EDC 1024





① → Talk button（with indication LED）

② → Earphone output plug and volume control

③ → Recorder output plug

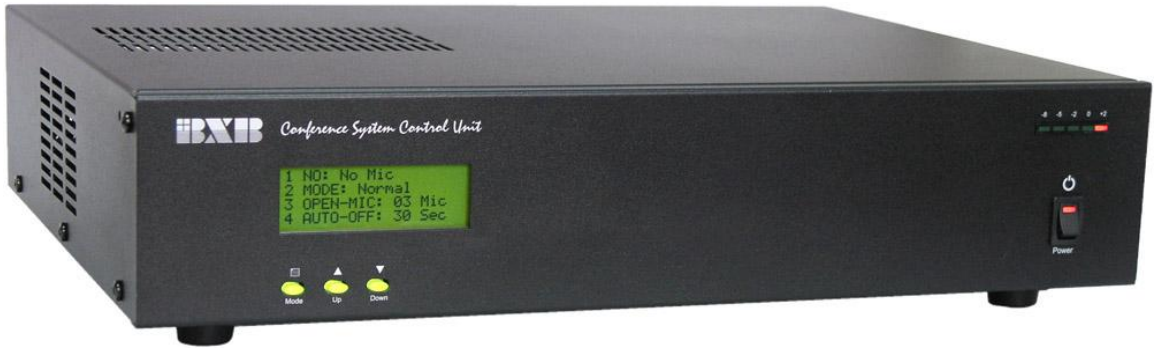
④ → Built-in sockets for XLR type microphone

⑤ → Built-in socket for connection cable

Operation：

1. Press “Talk” button to turn on microphone. Both LED above it and the light ring on microphone will light up.
2. XLR type microphone and the base can be separated. It is easy to install, maintain and store.
3. Single Y-shaped connection cable and the built-in sockets make the conference room tidy and neat.

EDC1051 Main Control Unit Technical Specification



TECHNICAL DATA

◎ Frequency response：100HZ~16KHZ

◎ Sensitivity：-60dB

◎ Total Harmonic distortion：≦0.5%

◎ S/N：90dB

◎ Conference microphone connection：D type express port x 3 sets

◎ 5 LED level display

◎ Power：AC110/220，50/60Hz，Power LED light

PHYSICAL DATA

◎ Dimension and weight

Height： 100（mm）

Wide： 430（mm）

Depth： 230（mm）

Accessory：19" brackets are included

Surface：Black, against rusty pain

Microphone Unit Technical Specification

◎ Type: Heart type capacitance
◎ Frequency response: 100 Hz~ 16 KHz
◎ Sensitivity: -23 dBv/PaMax.
◎ Sound Voltage: 126 dB (3% THD)
◎ S/N ratio: >20 dB (1 kHz)
◎ Dimensions: 66 mm (2.5inch)
◎ Frequency response: 120 Hz - 16 kHz
◎ Rated input: 0.5W RMS
◎ Voltage: DC12~18V
◎ Connections: DIN8 — DIN8（Y Type）
◎ Earphone/REC plug:3.5Ø，stereo

Appearance:

EDC 1011 & EDC1012



◎ Base dimensions: 140 x 48 x 150mm (W x H x D)
◎ Mounting: Table-top
◎ Microphone length: 48 cm (length)
◎ Net Weight: 0.82kg (Including Mic)

EDC 1021 & EDC1022



◎ Base dimensions: 220 x 92 x 50mm (W x H x D)
◎ Mounting: Flush-mounted type
◎ Hole size: 200 x 85 x 50mm (W x H x D)
◎ Microphone length: 48 cm (length)
◎ Net Weight: 0.6kg (Including Mic)

EDC 1023 & EDC1024

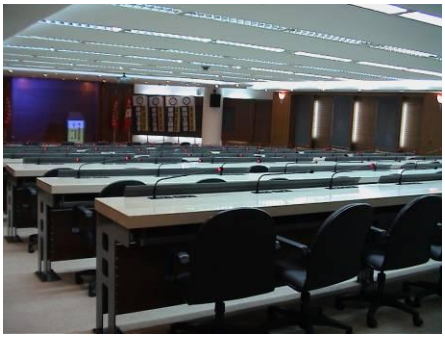


◎ Base dimensions: 146 x 62 x 110mm (W x H x D)
◎ Mounting: Flush-mounted type
◎ Hole size: 125 x 50 x 110mm (W x H x D)
◎ Microphone length: 48 cm (length)
◎ Net Weight: 0.35kg (Including Mic)

Optional

Microphone

BXB provides various 4 lengths of gooseneck microphone for choice: 43, 48, 56 and 70 cm.











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