UFO-2050

# Conference Main Control Unit

## User Manual




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# Safety Instructions



1. Before installation and use of this unit, please read the user manual carefully.
2. Please keep this user manual in a safe place.
3. Follow the instructions in the manual and pay attention to warning messages.
4. Do not use accessories not recommended by the dealer.
5. Use the original factory accessories. BXB will not be liable for damages caused by improper fixation methods.
6. Please ensure that the power cord is properly and safely secured.
7. Do not use multi-plug adapters or extension cords to prevent fire or short circuit.
8. Do not insert any objects into the machine or spill liquids on it to prevent short circuits.
9. Please contact a technician in the following situations:

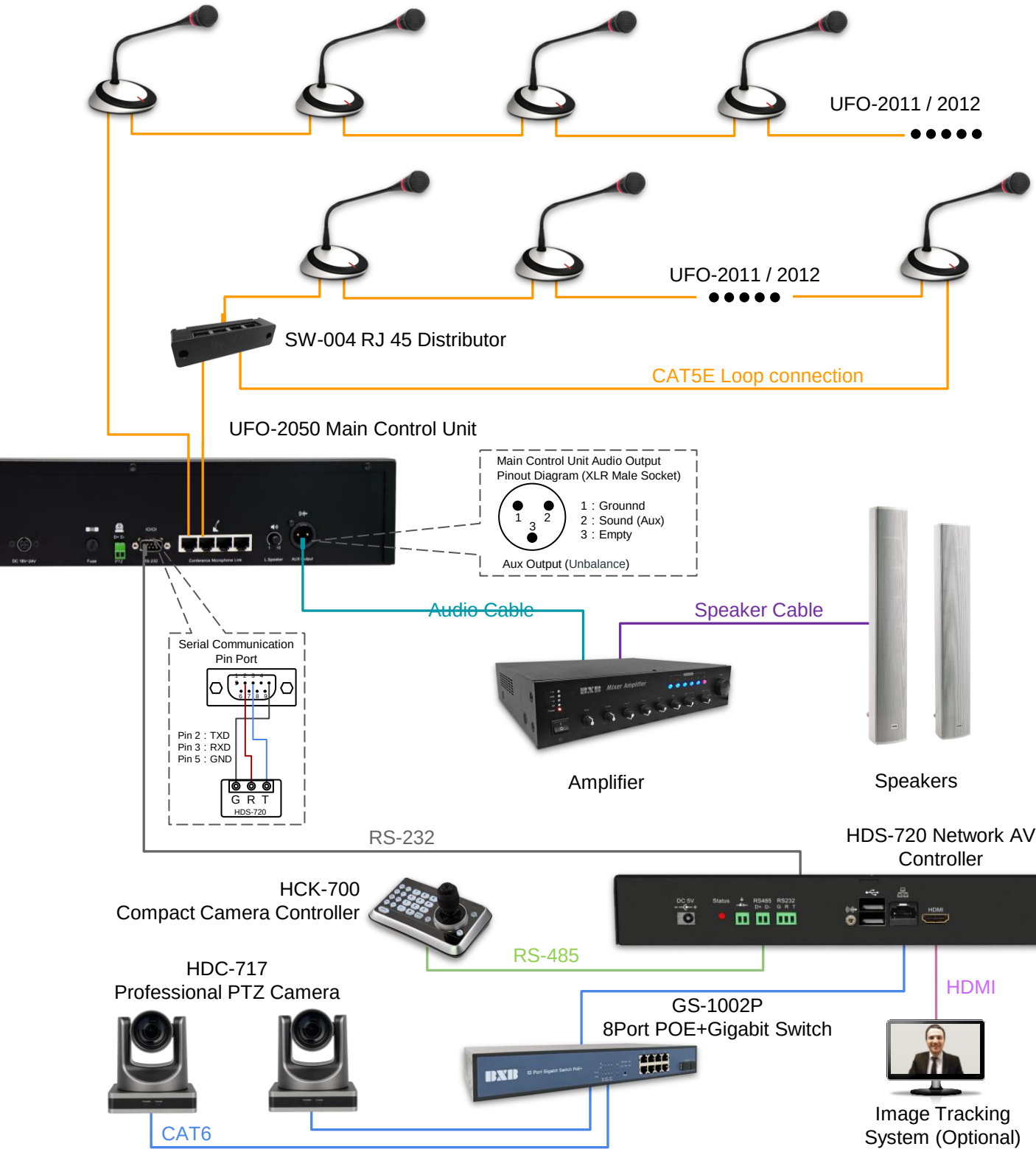
   A. Damaged power cord or plug. B. Water enters the machine. C. Unable to operate normally following the instructions. D. The unit falls or the casing is damaged. E. Other issues that may require repair. ◦
10. When connecting cables from outdoor cable systems, ensure that the cable is well grounded to prevent lightning strikes.
11. Install the unit carefully to avoid impact or strong shaking.
12. Do not disassemble the unit and other peripheral devices yourself.

    A. The machine has high voltage and sensitive electronic circuits inside. To avoid the electric shock, do not disassemble the unit yourself.

    B. When the dealer needs to replace parts, the parts must meet the specifications approved by BXB. Unauthorized replacement of parts may cause electrical short circuits and fires.
13. Do not operate the unit under conditions exceeding the temperature, humidity, or power level. The operating temperature should be 0°C to 40°C (32°F to 104°F), and the relative humidity should be 45% to 70% (non-condensing).
14. Do not expose the unit to rain or a humid environment; also, avoid using the product in damp places as moisture or water vapor may damage internal components. If placed outdoors, proper shelter is necessary.
15. When the surface of the unit is dirty, do not clean it with liquid or spray cleaners. Use a slightly damp cloth for cleaning.
16. Regardless of whether the unit is in operation or shut down, avoid rapid power switching to ensure that the sensitive electronic circuits inside are not damaged due to power surges, leading to functional issues.

# System Diagram

- The main unit has four sets of microphone RJ45 ports, and you can freely select any port for connection without a specific priority order.
- The chairman/delegate units are equipped with two RJ45 ports. It is recommended to use BXB Cat5e (Shielded STP) Ethernet cables for connection.
- When connecting, the microphone units can be placed in any position without specific sequence.
- Before disconnecting the microphone units, make sure to turn off the main unit's power. After confirming the installation is correct, you can then turn on the main unit's power for re-detection.



# Description of MCU Panel



## Front Panel

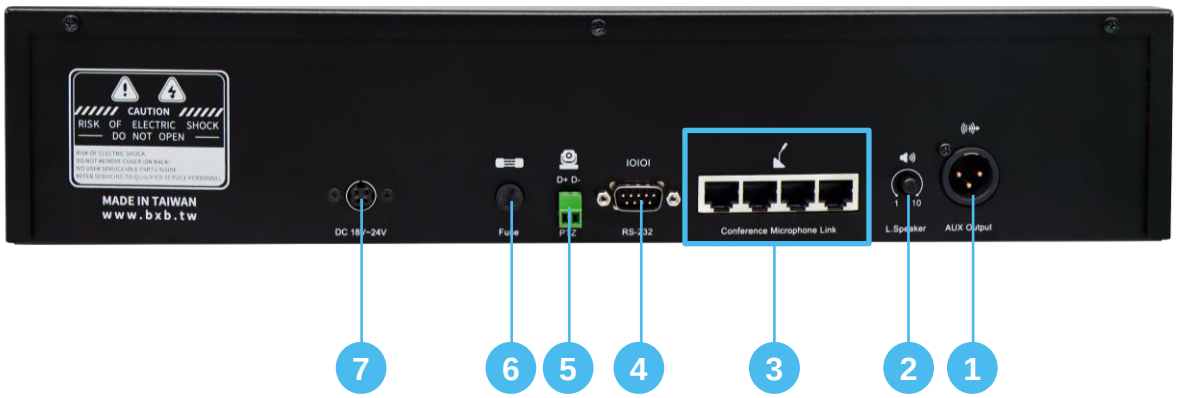



1. POWER: Power switch。
2. Conference function control button
   - MODE Conference mode selection
   - UP Parameter change, increment control / increase volume
   - DOWN Parameter change, decrement control / decrease volume
   - STEP Camera parameter settings, rightward shift control button
   - SAVE Save the parameter settings
3. Volume output gain LED indicator
4. 4x20 LCD display screen

# Description of MCU Panel



## Rear Panel



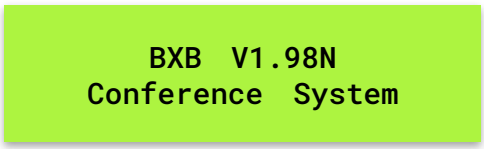

1. AUX Output (Unbalanced) Audio Output Terminal (XLR Male)
   Pin 1：Grounnd
   Pin 2：Sound(Aux)
   Pin 3：Empty
2. Volume control knob of the chairman/delegate unit’s built-in speaker.
3. LINK 1~4 conference microphone output ports (RJ45).
   ※ Conference Unit Port: Connects to BXB microphone unit only; do not connect other network cables.
4. RS-232 control port (refer to the appendix for communication protocol).
   Pin 2：TXD
   Pin 3：RXD
   Pin 5：GND
5. RS-485 control port
6. DC power fuse holder (DC 24V/8A).
7. Power input DC 24V/6A (please use the transformer provided by BXB).

Warning: The conference unit port (highlighted in the blue box) is a non-standard network port and should not be connected to other devices to prevent damage.

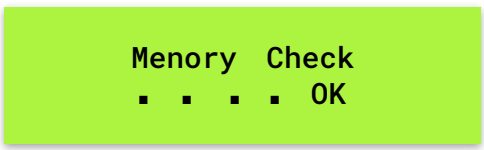
# Basic Operation

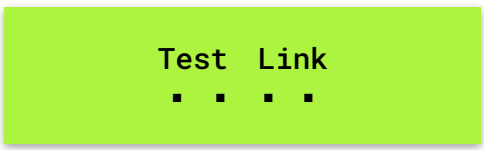
## Turn-on

1. After confirming all the adjustments and connection, plug in the AC power, and turn on the power switch. The system will start, and the LCD panel will display the firmware version number:

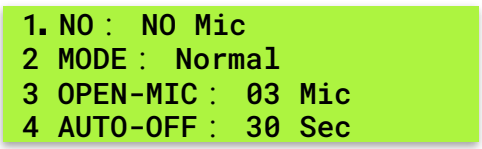



2. The system enters the connection test mode. The system begins to confirm the memory capacity, scan the connected conference units, and the LCD panel then displays the following message:




3. After completing the connection test, the LCD panel immediately displays the following message and enters the default system screen:

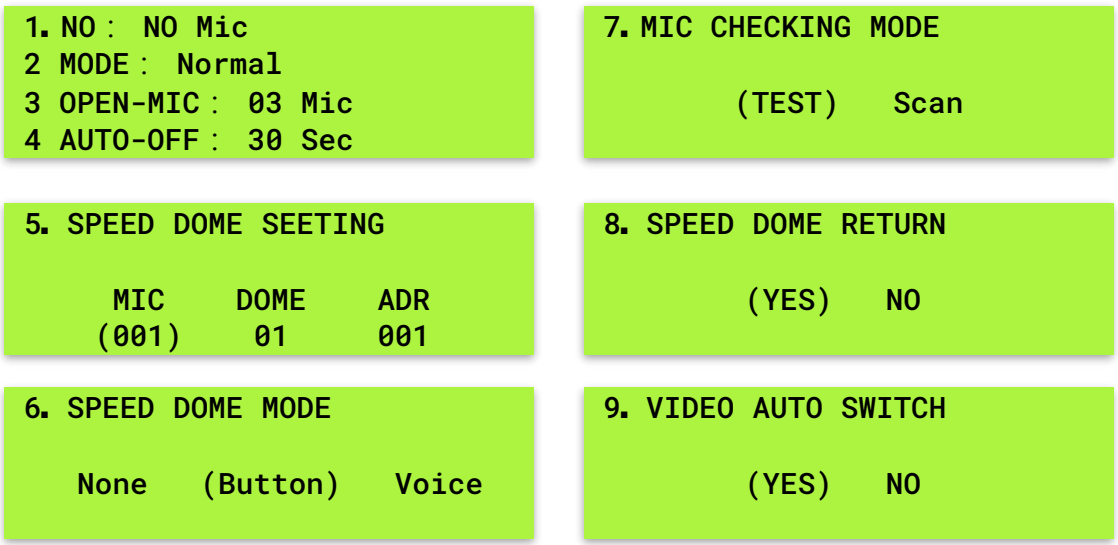



### Remarks

1. When powering on the main control unit, the system will perform microphone connection tests. During this time, the speaking button and the microphone ring of the connected units will have a constant red light. If there are connection issues, the red light will flash after approximately 5 seconds, indicating a failed connection.
2. In such cases, please turn off the main unit, check the microphone connections for errors, and then power on the main unit again. If the microphone ring remains red light for more than 5 seconds, it indicates a successful connection.
3. Pressing the speaking button on the chairman or any delegate unit will clear the constant red light of the microphone ring, or you can wait for 30 seconds, after which the system's testing will automatically deactivate, the system can be used.

# Basic Operation

## LCD Panel Display Instructions




1. The speaking unit number: Each set of 3 numbers represents the "ID number" of the speaking conference unit. Chairman unit numbers: 01~10; delegate unit numbers: 001~999.
2. Conference mode settings: Normal/Override/Chairman/FIFO
3. The qty of simultaneous speaking units allowed, limited to 1~30 units, with options for full access and chairman mode.
4. The waiting time of auto-off when a delegate unit stop speaking, configurable between 10~99 seconds for auto-off and manual off.
5. Configuration of the camera preset positions of the chairman/delegate units.
6. Configuration of the camera preset positions of the chairman/delegate units.
   None: Stop camera auto-tracking.
   Button: Camera auto-tracking mode triggered by pressing the speaking button on the microphone unit.
   Voice：Automatically detects sound when two or more microphones are speaking and executes camera automatic camera tracking.
7. Microphone unit scanning or testing.
8. ON/OFF of returning to the HOME point.
9. ON/OFF of image override.

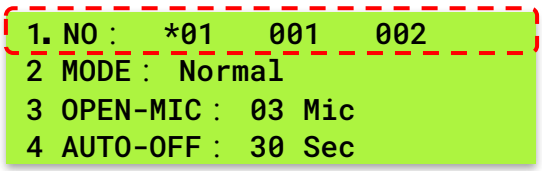
**※ The system will automatically return to the default menu screen and save the settings after approximately 30 seconds of inactivity, without the need to press any buttons to save or exit.**

# Advanced Settings

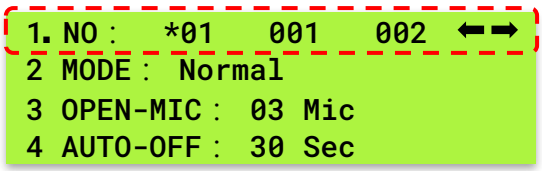


## Check the ID of the Speaking Unit

❑ When the conference unit is in speaking mode, the LED ring staying lit, the LCD display screen will also show the ID of the active unit. If there are three or fewer active units, you can find out their IDs from the default screen.




❑ When there are more than three active units, the LCD display screen will show the "← →" symbol in the upper right corner. Simply press the "MODE" button on the main unit, and the LCD screen will display "◘". Then, use the "UP" and "DOWN" buttons to navigate left and right to view the IDs of the active units.




❑ When the "◘" symbol appears, it indicates that the operational and setting functions are activated. From now on, simply press the "MODE" button to move this "◘" symbol to the desired conference mode, allowing you to operate and modify settings for all conference modes.

**Note: The numbers shown in this manual are purely for explanatory convenience. Each main unit undergoes a series of tests before leaving the factory. Therefore, the internal settings of the main unit at the time of shipment may differ from those in this manual. Simply follow the above instructions to complete the setup process.**

# Advanced Settings



## Meeting Mode Setting

1. Press the "MODE" button to shift the "▫" to the "MODE" mode. At this time, the "Normal" will flash, then press the "UP" or "DOWN" button to change the meeting mode.

```
1 NO :  *01  001  002
2. MODE :  Normal
3 OPEN-MIC :  03 Mic
4 AUTO-OFF :  30 Sec
```

2. You can set the meeting mode with the following options:

※Chairperson is not restricted by the meeting order management modes described below and can speak freely.

**Normal：** Attendees can freely press the button to speak within the specified number of open microphone speaking slots. After speaking, they can manually turn off the microphone by pressing the button again.

**Chairman：** In this mode, only the chairman's microphone is allowed to speak. Attendees must seek permission from the chairman to speak.

```
1 NO :  *01  001  002
2. MODE :  Chairman
3 OPEN-MIC :  REQUEST
4 AUTO-OFF :  30 Sec
```

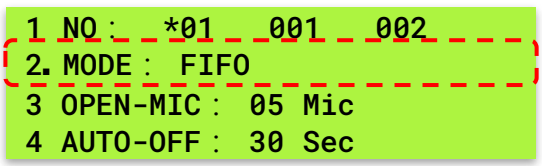
**Override：** In this mode, if the number of open attendee speaking channels is set to 1, it means that only one attendee microphone can be activated at a time. If the second attendee microphone's "TALK" button is pressed, the microphone of the previous speaker will be automatically muted. If set to rotate and override between 3 speaking channels, opening the fourth channel will mute the first one, and opening the fifth channel will mute the second one, ensuring that there are always 3 attendee microphones active for speaking. This sequence can be set to rotate and override between 1 to 30 channels, but the chairman's microphone is not subject to this restriction.

```
1 NO :  *01  001  002
2. MODE :  Override
3 OPEN-MIC :  05 Mic
4 AUTO-OFF :  30 Sec
```

# Advanced Settings



**FIFO：** If the number of allowed attendee speaking channels is limited to 1, it means that only one attendee microphone can be activated at a time. If the second attendee microphone's "TALK" button is pressed, it becomes the standby speaker. In this case, the indicator light and microphone ring of the microphone will flash red. If the "TALK" button of the third and subsequent attendee microphones is pressed, the status indicator light will flash orange. After the first speaker finishes speaking, the second attendee microphone will automatically activate, and the third attendee microphone will automatically become the standby speaker. This sequence can be set to allow queuing for speaking between 1 to 30 channels, but the chairman's microphone is not subject to this restriction.

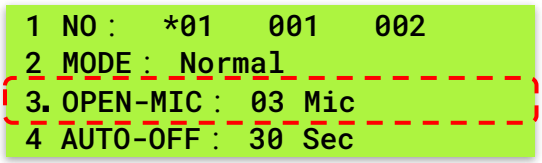


# Advanced Settings



## Open Mic Qty Setting

You can configure the system to allow unlimited open-key speaking for individual attendees, or you can set the number of microphones that can speak simultaneously, with options ranging from 1 to 30 microphones. Press the "MODE" key to shift the indicator to the "OPEN MIC" mode. At this point, the indicator for the 03 Mic will flash. Press the "UP" or "DOWN" key to change the number of microphones allowed to speak.




The open microphone setting ranges from 1 to 30, with each number representing the number of microphones allowed to speak simultaneously.

OPEN-MIC: 1 Mic → Only 1 attendee microphone can be open for speaking at the same time.

OPEN-MIC: 30 Mic → Up to 30 attendee microphones can be open for speaking simultaneously.

OPEN-MIC: ALL Mic → No limit on the number of attendee microphones for speaking; all microphones are open for speaking freely.

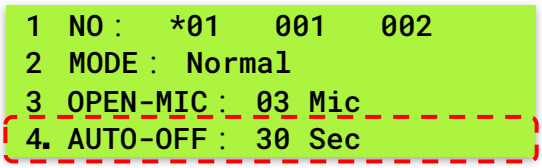
OPEN-MIC: REQUEST → In Chairman mode, this setting automatically displays as "REQUEST," allowing attendees to request to speak instead of freely activating their microphones.

# Advanced Settings



## Auto-off Time

- ❏ You can set the individual mic to automatically turn off after a pause in speech for 10 to 99 seconds, or allow the speaker to manually deactivate the mic.
- ❏ Press the "MODE" button and move the cursor to the "AUTO OFF" mode. At this point, the "30 Sec" indicator will flash. Then, press the "UP" or "DOWN" button to adjust the waiting time for automatic microphone shutdown when speech is interrupted.




When speech is interrupted, the microphone will automatically shut off after a waiting time of 10 to 99 seconds.

AUTO–OFF: 30Sec

→ Indicates that the microphone will automatically shut off if there is no speech detected for 30 seconds.

AUTO–OFF: 99 Sec

→ Indicates that the microphone will automatically shut off if there is no speech detected for 99 seconds.

AUTO–OFF: Invalid

→ Indicates that the microphone will not automatically shut off. The microphone needs to be manually deactivated by pressing the speech button after speaking.

**Notes:**

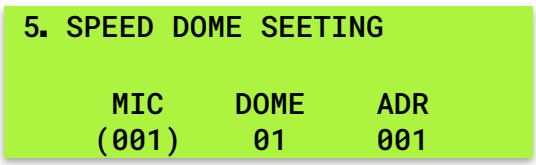
1. The microphone is cardioid, meaning it is most sensitive to sound coming from the front and attenuates sound from other directions.
2. There should be adequate audio signal and distance between the speaker and the microphone to ensure the microphone fully captures the speaker's audio signal without creating another pickup direction due to insufficient signal, which could lead to phase cancellation.

# Advanced Settings

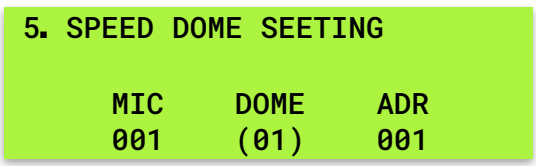
## Preset Point Setting

You can set up the automatic camera tracking function, where each conference unit can simultaneously preset 16 cameras to perform automatic tracking, with each camera having 128 preset points.

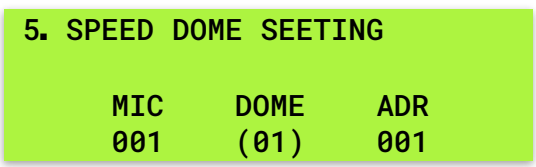
1 Press the "MODE" key to shift to the "SPEED DOME SETTING" mode (requires flipping to the second display page). At this point, brackets will appear on both sides of "001" below the MIC field. Press the "UP" or "DOWN" key to select the ID position code for the microphone preset for image tracking.




2 The system microphone has a total of 1009 sets of ID positions:
ID position codes for conference units: from 001 to 999, a total of 999 sets of numbers. ID position codes for chairman units: *1 to *10, a total of 10 sets of numbers. Once you have selected the microphone's "ID position code," press the "STEP" key to move to the "DOME" field under the MIC field and select "01." Brackets will appear on both sides of "01" below the DOME field. Press the "UP" or "DOWN" key to set the ID code for selecting the fast-rotation camera.



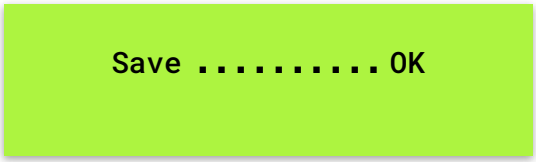

3 After selecting the ID code for the fast-rotation camera, press the "STEP" key to move to the "ADR" field and select "001." Brackets will appear on both sides of "001" below the ADR field. Press the "UP" or "DOWN" key to set the tracking preset point for the fast-rotation camera.



# Advanced Settings



4 Each of the rapid-rotation cameras used in this system has 128 preset points for image tracking. When the number under the ADR field is 001, it represents the first positioning point set for that camera. When the number under the ADR field is OFF, it means the image positioning function for that camera is not activated. After setting all three fields, you need to immediately press the "SAVE" button to save the camera settings. At this point, the LCD display screen will show the following message, indicating the completion of the storage settings for automatic tracking of the conference unit's speech.




5 Once the image tracking points are saved, you can sequentially repeat the above settings to set up the automatic tracking camera function for other conference units.

# Advanced Settings



## Tracking Mode Setting

❏ The image automatic tracking mode can be set as follows:

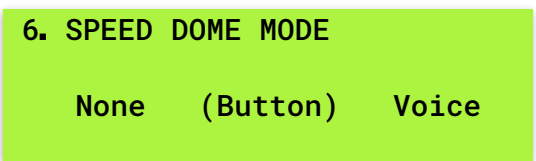
When set to "None" mode, the camera will not perform speech image tracking.

When set to "Button" mode, the camera will only perform one-time image tracking when the microphone button is pressed.

When set to "Voice" mode, the camera not only performs image tracking when the microphone button is pressed for the first time, but also automatically detects the microphone audio status after subsequent microphone button presses, enabling voice-controlled rapid camera image automatic tracking.

❏ Operating instructions:

Press the "MODE" button to shift the "▪" to the SPEED DOME MODE mode (requires flipping to the third display page). At this time, the last saved mode setting will appear. Press the "STEP" button to select the image automatic tracking mode for the rapid rotation camera.



# Advanced Settings



## Self-scan Setting

❏ After the system installation is completed, it is necessary to perform the Scan function first. The system will automatically scan and detect all microphones on the entire system, allowing for the tallying of the total number of microphones and microphone ID codes, which will be recorded in the main control unit, and complete the first self-diagnostic action.

1 Operating instructions:

Press the "MODE" button to shift the "▫" to the MIC CHECKING MODE mode (requires flipping to the fourth display page), and the following screen will appear.

```
7. MIC CHECKING MODE

        (TEST)   Scan
```

2 Press the "STEP" button again to move the cursor ( ) to "Scan", then press the "SAVE" button.

```
7. MIC CHECKING MODE

        TEST   (Scan)
```

3 The following screen will appear, which takes about 30 seconds.

```
        ERASE MEMORY
        PLEASE WAIT.
```

4 After that, the following screen will appear, and the checking time is approximately 60 seconds.

```
CHECKING MIC  :          999
MIC COUNT  :             028
ERROR  :
```

CHECKING MIC (Diagnosing microphone numbers): Attendee 000999, Chairman *01*10.

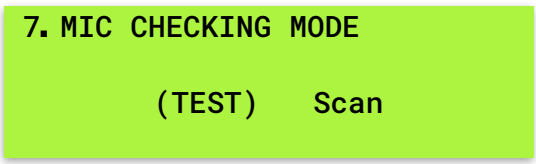
MIC COUNTER (Number of connected microphones): 000~1009.

ERROR (Microphone numbers with abnormal connections): No numbers will be displayed in Scan mode. At this time, the main and attendee microphones will also

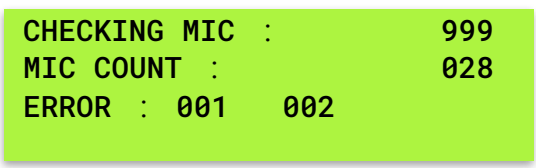
# Advanced Settings



5 After performing the aforementioned operations correctly, for the second system diagnosis, press the "MODE" button to shift the "▪" to the MIC CHECKING MODE mode (requires flipping to the fourth display page), and the following screen will appear.




6 After pressing the "SAVE" button again, the following screen will appear. The checking time may vary depending on the number of microphones online.




CHECKING MIC (Diagnosing microphone numbers): It will display the microphone ID codes recorded after the Scan.

MIC COUNT (Number of connected microphones): It will display the number of microphones connected normally after the Scan.

ERROR (Microphone numbers with abnormal connections): It will display the microphone ID codes with abnormal connections detected after the Scan.

※ If there are changes in the number of microphones in the system, it is necessary to perform the SCAN step to automatically scan and detect all microphones on the entire system, record the increased/decreased quantity and microphone ID codes in the main control unit.

# Advanced Settings

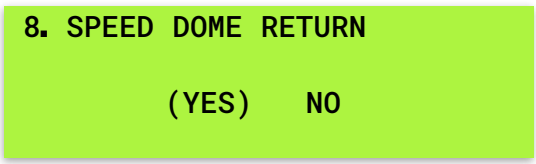


## Automatic Camera Reset

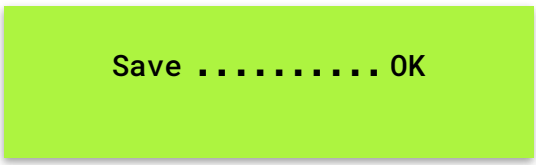
❏ Enable or disable the automatic camera reset function (must be used in conjunction with 4.6.11 Automatic Reset Point Setting (HGO)).

❏ Operation method:

Press the "MODE" button to move the "▪" to the SPEED DOME RETURN mode (requires flipping to the fifth display page). The "NO" column will have brackets on both sides. Press the "STEP" button to select the YES or NO position.




❏ After selection, immediately press the "SAVE" button to save the settings. The LCD display screen will show the following screen, indicating the completion of the automatic reset switch storage settings.



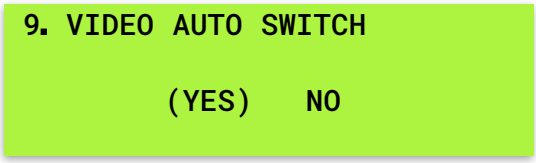
# Advanced Settings



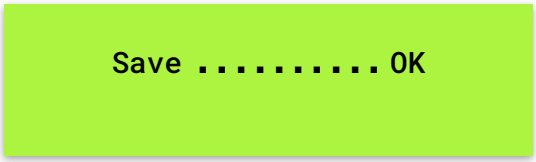
## Automatic Image Override Switch

- Speaker Single Screen Override Switching, which needs to be used with the BXB Multi-screen Processor, allows for the execution of multiple sets of rotating cameras to automatically switch the overriding output display function.

- Operation Method:
  Press the "MODE" button to move the indicator to the VIDEO AUTO SWITCH mode (requires flipping to the sixth display page). At this point, the YES field will appear with brackets on both sides. Press the "STEP" button to select YES (execute) or NO (do not execute, display as split screen).




- Once the selection is complete, immediately press the "SAVE" button to save the settings. The LCD display screen will then show the following screen, indicating the completion of the automatic override switch setting.



# Advanced Settings



## Volume Adjustment

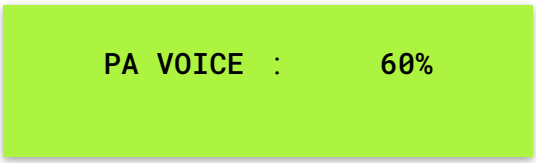
To adjust the volume of the conference sound:

While in standby mode on the Mode 1 screen, press the "UP ▲" or "DOWN ▼" button on the left side of the main unit once to display the conference volume adjustment screen.

Press the "UP ▲" button again to start increasing the conference volume. Each press will increase the volume by one level.

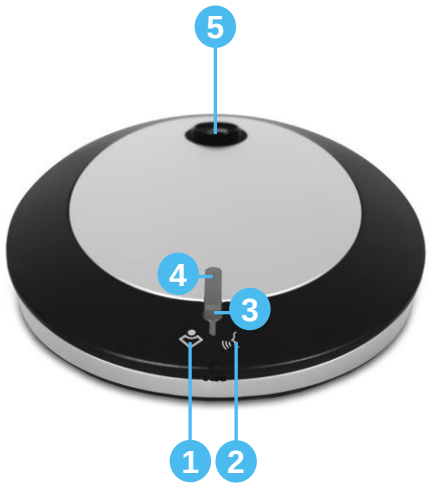
Alternatively, press the "DOWN ▼" button to start decreasing the conference volume. Each press will decrease the volume by one level.

After three seconds of no button presses, the LCD display screen will automatically return to the general function selection screen and will save the volume setting that was just adjusted. There is no need to press any additional buttons to save or exit.



# Chairman Unit UFO-2011






1. Chairman Control Button
2. TALK Speech Button
3. Meeting Mode Indicator Light
4. Speech Status Indicator Light
5. Microphone Socket

## Function Description

1. When speaking, simply press the talk button. Once you see the backlight indicator and the microphone ring light up, you can start speaking.
2. The chairman control button can perform the following functions:

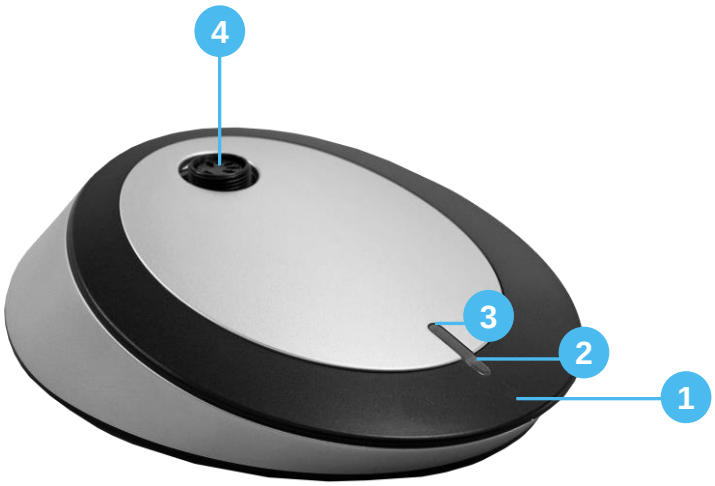
   ■ Clear all attendee speeches: Briefly press the chairman control button to temporarily mute all attendee mics. Attendees can still press their talk buttons to activate their mics afterward. Chairman mode: Press and hold the chairman control button for three seconds until the red backlight indicator lights up to activate chairman mode. Press and hold the button again for three seconds until the red backlight indicator turns off to return to normal speaking mode.

   ■ Chairman mode: Press and hold the chairman control button for three seconds until the red backlight indicator lights up to activate chairman mode. Press and hold the button again for three seconds until the red backlight indicator turns off to return to normal speaking mode.

   ■ In chairman mode, attendees pressing the talk button will automatically request to speak. The chairman can briefly press the chairman control button to allow attendees to speak.
3. The conference mic adopts a gooseneck mic with a separate base design, making it convenient for maintenance and replacement of mic lengths in fixed installation environments, as well as for transportation, storage, and assembly in mobile venues.
4. In terms of wiring, Cat.5E cable wiring is adopted. The unit base is designed with two RJ-45 connectors, allowing for simple and neat wiring installation.

# Delegate Unit UFO-2012






1. TALK button
2. Conference mode indicator light
3. Speech status indicator light
4. Microphone socket

## Function Description

1. When speaking, simply press the speech button. Begin speaking when the speech button backlight and microphone halo light up.
2. In Chairman Mode, when an attendee presses the speech button, it automatically switches to request-to-speak mode.
3. During queued speaking mode, the first prepared speaker's Talk indicator light and microphone halo will flash red. After the previous speaker finishes, it will automatically switch to a steady red light, indicating they may begin speaking.
4. The conference microphone features a gooseneck microphone with a separate base design, facilitating maintenance and microphone length replacement for typical fixed installations, as well as transportation, storage, and assembly in mobile environments.
5. Wiring is done with Cat.5E cable. The microphone unit's base design includes two RJ-45 connectors, allowing for clean wiring installation without compromising the aesthetic appeal of the conference venue.
6. Conference mode status indicator light colors are defined as follows:

   Steady red: Chairman Mode.

   Steady orange: First-In-First-Out (FIFO) Mode.

   Steady green: Override Mode.

# Appendix

## Conference Unit Daisy Chain Quantity

**The total number of conference units connected to four loops of the conference host:**

| Main line of each loop | 20M | 40M | 60M | 80M | 120M |
|---|---|---|---|---|---|
| Suggested total connection for 4-port | 50 | 50 | 50 | 44 | 36 |

**Note：**

1. Within a single loop, the maximum number of units that can be connected within 100 meters is 20. If the distance exceeds 120 meters, the number of units will decrease.
2. To connect more than 20 units within a single loop, it is necessary to add a relay (EPS-C083-C)."

# Appendix

## Unit ID Setting

- ❏ Each microphone unit of UFO-2011/2012 comes preconfigured with a set of ID codes, which are located on the product model label at the bottom of the unit.
- ❏ If there's a need to change the ID code, it can be done through the DIP SWITCH selector switch located at the bottom of the unit.
- ❏ Ensure that the main power of the host device is turned off before making any adjustments or modifications.
- ❏ The ten-position DIP SWITCH represents a binary combination. It is essential not to arbitrarily change the role of the chairman and delegate units.
- ❏ Delegate IDs range from 001 to 999, while chairman IDs range from 1000 to 1009.

| DIP | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| ID | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 | 256 | 512 |

Note: When the DIP SWITCH is set to a value outside the specified range, the unit indicator lights will flash after the host device is powered on, indicating an error.

- ❏ For example, to set the ID to 011 for a delegate unit.

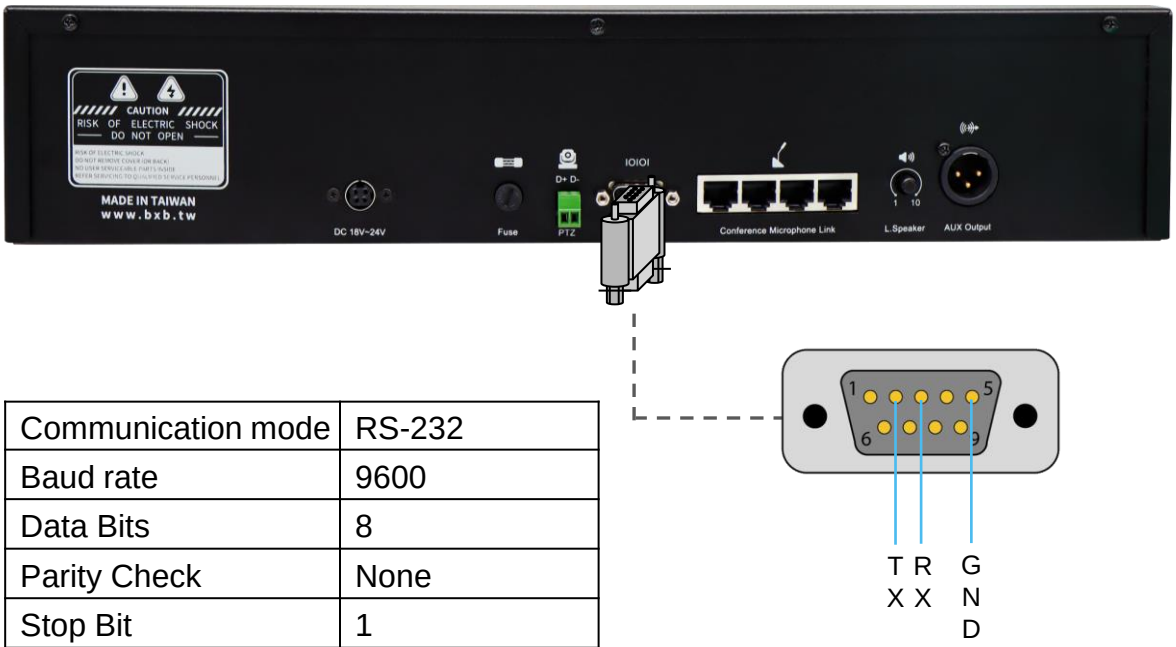
| DIP | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| ID | ON | ON | OFF | ON | OFF | OFF | OFF | OFF | OFF | OFF |

- ❏ For example, to set the ID to *1(1000) for a chairman unit.

| DIP | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| ID | OFF | OFF | OFF | ON | OFF | ON | ON | ON | ON | ON |

# Appendix

## Hex command




| | |
|---|---|
| Communication mode | RS-232 |
| Baud rate | 9600 |
| Data Bits | 8 |
| Parity Check | None |
| Stop Bit | 1 |
| Flow Control | None |

| Function | Byte1 | Byte2 | Byte3 | Byte4 |
|---|---|---|---|---|
| Switch Conference Mode | BA | 00 ~ 03(2) | 55 | End_Code(1) |
| Open Mic Qty | BB | 01 ~ 1F(3) | 55 | End_Code(1) |
| Auto-off Time | BC | AA | 10 ~ 63(4) | End_Code(1) |
| Mic On | BD | 00 ~ 03(5) | 00 ~ FF(5) | End_Code(1) |
| Mic Off | BE | 00 ~ 03(5) | 00 ~ FF(5) | End_Code(1) |
| Button Tracking | CA | AA | 55 | 35 |
| Voice Tracking | CB | AA | 55 | 34 |
| Image-tracking Off | CD | AA | 55 | 32 |

1：End_Code = Byte1 xor Byte2 xor Byte3。

2：Conference speaking mode: 0 Normal mode, 1 Chairman mode, 2 Round-robin speaking, 3 First in, first out (FIFO).

3：Open speaking slots: 011E = 130 slots, 1F = Unlimited.

4：Auto-off time in seconds: 10~63 = 10 seconds to 99 seconds, 00 = No limit.

5：Conference unit number: Byte2 + Byte3.

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