FCS-6300

Full-Function Conference System

User Manual



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Quick Start

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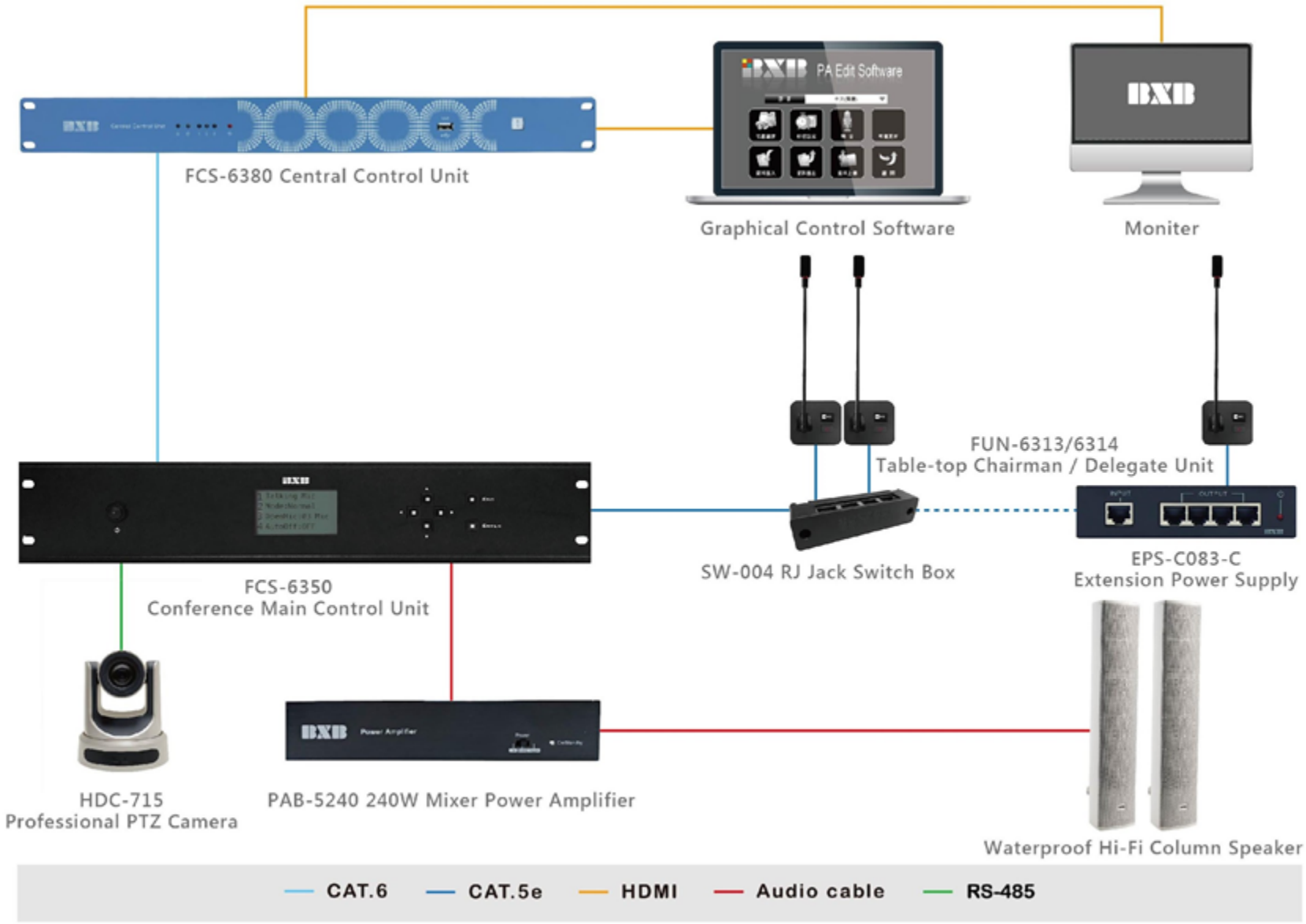
Safety Instructions

1. Please preserve this manual properly.
2. Please follow instructions in this manual and pay attention to the warning indications.
3. Never use accessories not recommended by the dealers. Please use provided parts for fixing only. Manufacturer would not bear the responsibility for compensation of any damage due to improper fixing.
4. Ensure that power cord is properly and safely fixed. Never use three-pronged plugs or extension cord to avoid fire or short circuit.
5. Never insert any objects into the machine or splash any liquid on it to avoid short circuit.
6. Contact maintenance technician if the conditions occur: A. Power cord or plug is damaged. B. Liquid is spilled into the apparatus. C. Not operate normally even when the instructions are followed. D. The apparatus drops or the enclosure damaged. E. Other equipment issues.
7. As the cable system from outdoor is connected to the unit, it must be ensured that the cable is well grounded to avoid lightning strike.
8. Install the equipment and other peripheral appliances carefully and avoid conditions such as impact, fierce shaking etc. The MCU and other peripheral appliances may be damaged due to these improper conditions.
9. Never disassemble the apparatus and other peripheral appliances by yourself.
   A. There are high voltage and sensitive electrical circuit inside of the apparatus. Never disassemble the apparatus by yourself to avoid electric shock. B. When the dealer replaces parts as necessary, the specification of that part must be approved by the original manufacturer. Unauthorized action of replacing parts may cause fire due to short circuit.
10. Never operate the equipment in the environment which exceeds temperature, humidity or power rating. The operation temperature for this equipment should be 0°C ~ 40°C (32°F ~ 104°F) and the humidity should be lower than 90%.
11. Never expose the equipment to rain and moisture; avoid using this product in humid place. The humidity or vapor can lead to damage of internal parts. There should be proper shield if placed outdoors.
12. Do not clean this unit and its accessories with liquid or chemical detergent. It is only proper to use slightly dampened cloth.
13. No mater the equipment is running or already shut down, it should always avoid switching on/off the equipment power rapidly to ensure that the sensitive electrical circuit inside of the apparatus will not be damaged due to power surge and thus lead to malfunction.

Note: When the print circuit board is processed for electrostatic treatment, it should follow ESD safety measures and must be well grounded.
Note: Before plug into power outlet, please adjust the power input correctly based on the local power specification.
Warning: The enclosure of this apparatus is only allowed to be removed by qualified maintenance technician. Nowhere inside of the apparatus can be maintained by the owner themselves.

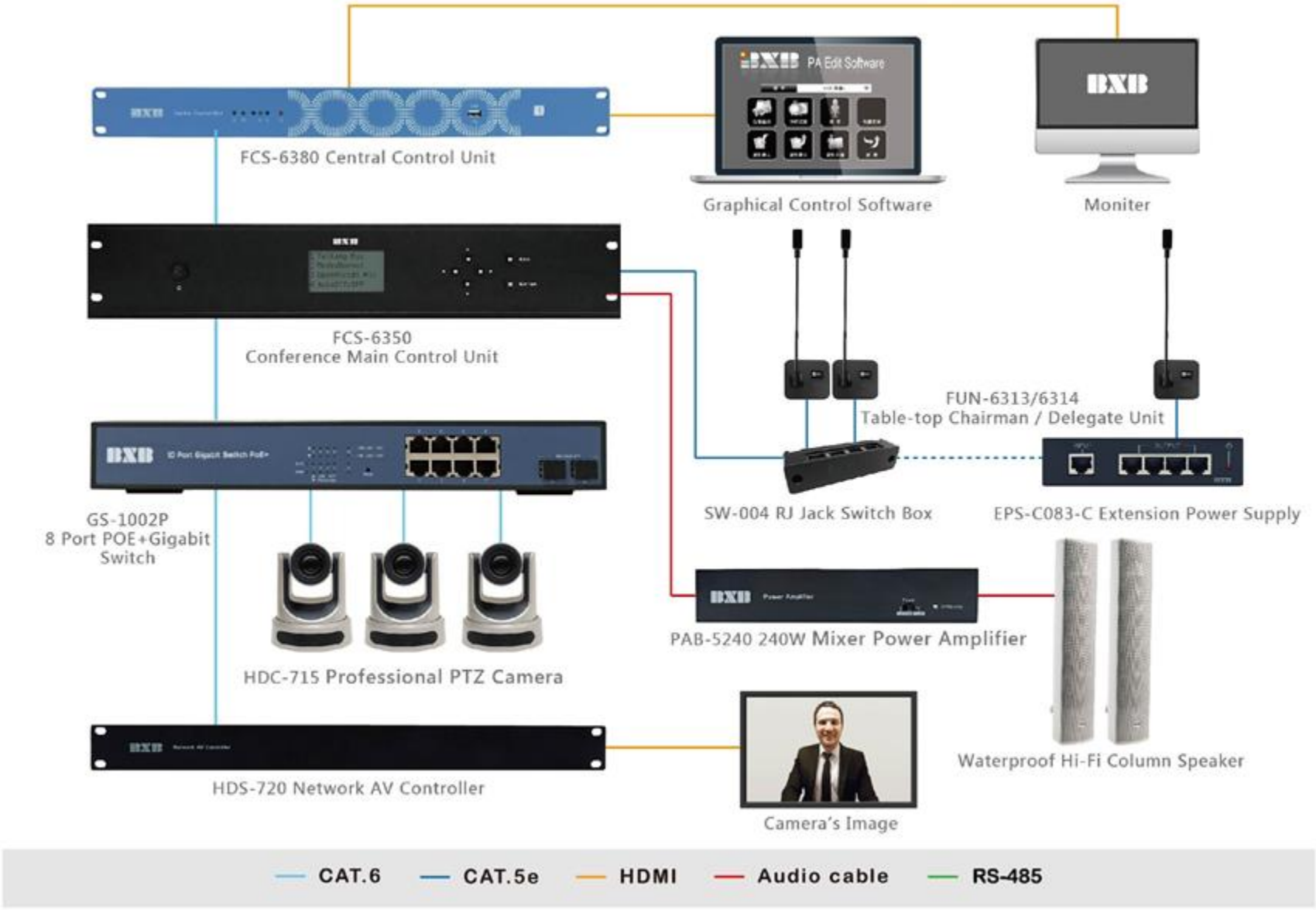
System Diagram

Standard System



System Diagram

Integration with Image-tracking System



Description of MCU Panel

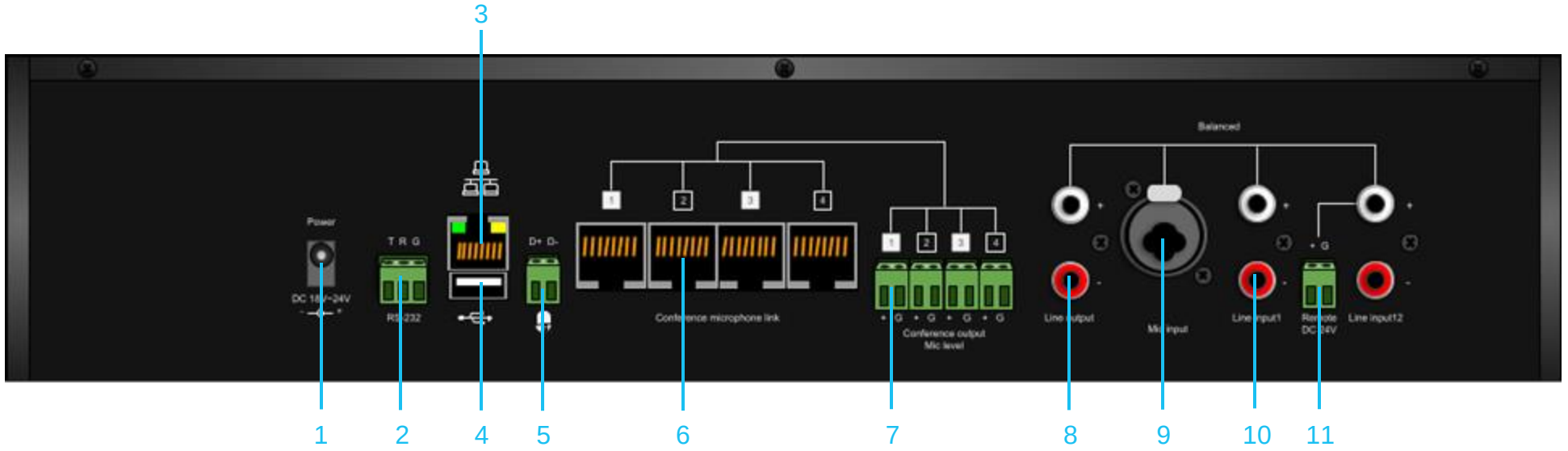
Front Panel



1. Power switch button: Turn on/off the power of the conference main control unit.
2. LCD screen: Display of system information.
3. Navigation buttons: Button for up / down / left / right navigation.
4. ESC button: Button to exit function menu or cancel function.
5. Enter button: Button to enter function menu or confirm to save.

Description of MCU Panel

Rear Panel



1. Power socket: for connecting DC24V / 5A power supply.
2. RS-232: for connecting environmental control equipment
3. Network port: for connecting local network via network communication operating setting.
4. USB: connects PC for bidirectional audio transmission.
5. Camera port: RS-485 port for image-tracking.
6. Conference microphone ports: connects with conference units via BXB-CAT5E cable.
7. Conference output: for audio output of microphone unit signal.
8. Line output: for balanced audio output of audio mixing.
9. Mic input: connecting microphone signal equipment for audio mixing.
10. Line input: connecting linear audio source equipment for audio mixing.
11. Emergency trigger port: connects DC voltage to trigger signal and line audio source for emergent broadcasting.

MCU Operation

Getting Started

FCS-6350 can be used with FUN, UFO, and FCS series microphones. With power switch button to turn on the FCS-6350, related functions can thus begin to be used.

1



2



After completion of wiring, shortly press ”Power Switch Button” to turn on the FCS-6350.

When the FCS-6350 turns on, the screen will display the firmware version, and starts the detection of microphone units. At this time, the indicator ring of gooseneck microphone and the push-button of the unit will keep illuminated.

MCU Operation

Getting Started

3



Select your language in the information menu.

4



After completing detection of microphone units, the indicator ring and push-button of the units will extinguish. Meanwhile, the FCS-6350 will automatically enter the function menu.

MCU Operation

Talking Mic

All the microphone units of FUN, UFO, and FCS series have ID Set function. When a unit is turned on for speaking, the “Talking Mic” list will show its ID number.

1



Operating ▲/▼ buttons to select ”Talking Mic”, then press “Enter” button to enter the list.

2



“Talking Mic” list shows the current speaking unit ID. Delegate ID is from 001 to 999; chairman ID is from *01 to *10 (For ID setting , please refer to Page 28)

MCU Operation

Conference Mode

FCS-6350 has four conference modes: “Normal mode”, “Chairman mode”, “Override mode”, and “FIFO mode” available for the management of delegate speaking.

1



Operate ▲/▼ buttons to select ”Mode”.
The preset mode of FCS-6350 is “Normal mode”.
Delegate unit can talk freely based on the limitation of Open Mic Qty.

2



Operate ◀ / ▶ buttons to select “Mode”. This example is “Chairman”. Based on the limitation of Open Mic Qty, delegate presses the “talk button” on the unit to ask for speaking in order. After the chairman presses “chairman function button” on the unit to agree on speaking, delegate is then permitted to speak.

MCU Operation

Conference Mode

3



Operate ◀ / ▶ buttons to select “Mode”. This example is “Override”. Delegate presses “Talk” button to talk in order under the limitation of Open Mic Qty. In case of fully occupied Mic Qty, if any delegate intends to speak, it will prioritize to turn off the speaking delegate of first rank.

4



Operate ◀ / ▶ buttons to select “Mode”. This example is “FIFO”. Delegate presses “Talk” button to speak in order under the limitation of Open Mic Qty. In case of fully occupied Mic Qty, if any delegate intends to speak, it is necessary to wait until the speaking delegate finishes the speaking. After that, the delegate can enter speaking status according to its queuing order.

MCU Operation

Open Mic Qty

Open Mic Qty available for delegates to speak at the same time is limited; chairman is free from this limitation.

1



Operate ▲/▼ buttons to select ”OpenMic”.
The preset quantity is 03. It indicates that 3 delegates are permitted to speak simultaneously. Rest of the delegates are not able to speak temporarily; chairman is free from this limitation.

2



Under “OpenMic”, operate ◄ button to reduce open mic quantity; press ► button to increase open mic quantity. Open Mic can be configured to let 1 to 30 delegates to speak simultaneously, or ”All Mic” to let all delegates to speak freely.

MCU Operation

Mic Auto-off

After starting to speak with the talk button of the delegate unit, if no more person speaks with that unit within the preset time, FCS-6350 will turn off that delegate unit ; chairman is free from this limitation.

1



2



Operate ▲/▼ buttons to select ”AutoOff”. The preset “AutoOff” is 30 seconds. After starting to speak with the talk button of delegate unit, if no more voice input within 30 seconds, that delegate unit will be turned off; chairman is free from this limitation.

Under “AutoOff” function, operate ◄ button to reduce seconds for turning off; press ► button to increase seconds for turning off. ”Auto-Off” can configure 10 to 99 seconds. If no more voice input within the preset time, that delegate unit will be turned off; if “OFF” is set, the delegate unit will not be automatically turned off.

MCU Operation

Advanced Menu

It is necessary to enter password for entering the ”Advanced Menu” to operate options such as “Speed Dome Set”.

1



Operate ▲/▼ buttons to select ”Advanced Menu” and then short press “ENTER” to request to enter “Advanced Menu” menu.

2



Operate navigation buttons ▲▼◄ ► sequentially and then short press ”ENTER” button to enter the “Advanced Menu”.

MCU Operation

Advanced Menu_Speed Dome Set

You can configure functions such as “Dome mode” and “Set Preset” for image tracking based on the used camera.

1



Operate ▲/▼ buttons to select ”Speed Dome Set” and then short press “ENTER” to enter “Speed Dome Set” menu.

2



Operate ◄ or ► button to change tracking mode in the option “DomeMode”. There are “BTN” (button), “Voice” , and “OFF” available. If it is configured as “BTN” tracking mode, image is tracked while the delegate operates Talk button to start speaking. If it is configured as “Voice” tracking mode, image is tracked while there is voice input during the speaking of the delegate unit.

MCU Operation

Advanced Menu_Speed Dome Set

3



Operate ▲/▼ buttons to select ”Video SW” in the Speed Dome Set menu, operate ◀ or ▶ buttons to configure turn on/off video override function.

You can perform video tracking function with HDS-725 / 825 video controller.

4



Operate ▲/▼ buttons to select ”Dome HGO” in the Speed Dome Set menu, operate ◀ or ▶ buttons to turn on/off “back to home point” function. When the function is on, the tracking camera will switch to the Home point image when all speaking delegate units are turned off.

MCU Operation

Advanced Menu_Speed Dome Set

5



Operate ▲/▼ buttons to select ”Mic position” in the Speed Dome Set menu, operate “ENTER” button to enter Mic position menu.

6



Operate ▲/▼ buttons to select ”Mic No.” in the Mic position menu and then operate ◄ or ► buttons to select the ID of microphone unit.

MCU Operation

Advanced Menu_Speed Dome Set

7



Operate ▲/▼ buttons to select ”Camera” in the Mic position menu, operate ◄ or ► buttons to select camera No. to be bound with the selected delegate unit.

8



Operate ▲/▼ buttons to select ”Preset” in the Mic position menu, operate ◄ or ► buttons to select camera preset point No. to be bound with the selected delegate ID.

MCU Operation

Advanced Menu_Speed Dome Set

9



After completion of microphone position setting, short press “ENTER” button to save the setting of this delegate ID.

10



After configuring and saving one by one, short press “ESC” button to exit microphone position menu and return to previous Speed Dome Set menu.

MCU Operation

Advanced Menu_Speed Dome Set

11



Operate ▲/▼ buttons to select ”Dome type” in the Speed Dome Set menu, then operate ◄ or ► buttons to select camera type. There are two available types:

- SD (standard): BXB HDC-811, HDC-812 camera.
- HD (High Resolution): BXB HDC-711, HDC-712 camera.

12



When “Dome type” is set to “SD”, you can operate ▲/▼ buttons to select “Go Preset”, “Set Preset” in the Speed Dome Set menu and short press “ENTER” to enter related menus to configure / call camera preset point.

MCU Operation

Advanced Menu_Volume Set

You can adjust the volume including FCS-6315 / 6316 unit's built-in speaker, conference main control unit audio output, external line / microphone audio source input, and loop audio output, etc.

1



Operate ▲/▼ buttons to select "Volume Set" in the Advanced Menu, short press "ENTER" button to enter "Volume Set" menu.

2



Operate ◄ or ► buttons to change volume in the option "SubSPK" (built-in speaker of units). The preset volume is 10, and the maximal volume is 15. When the volume is set to 01, it turns off the volume of the unit's built-in speaker.

MCU Operation

Advanced Menu_Volume Set

3



Operate ◄ or ► buttons to change volume of FCS-6350 Lineout in the option “PA In”. The preset volume is 40, the maximal volume is 50. When the volume is set to 01, it turns off the volume of FCS-6350 Lineout.

4



Operate ◄ or ► buttons in the option “Aux In” to change the volume of FCS-6350 Line In. The preset volume is 01, the maximal volume is 50. When the volume is set to 01, it turns off “Line audio source Input” mixing.

MCU Operation

Advanced Menu_Volume Set

5



Operate ◄ or ► buttons in the option “Mic In” to change the volume of Mic In which connects FCS-6350. The preset volume is 01, the maximal volume is 50. When the volume is set to 01, it turns off “Mic In” mixing.

6



Operate ▼ to ”Mic P1” in the “Volume Set” menu. Operate ◄ or ► buttons in the option “Mic P1” to change the volume of loop audio output which connects FCS-6350. The preset and maximal volume are both 15. When the volume is set to 01, it turns off “Loop audio output” volume.

MCU Operation

Advanced Menu_Volume Set

7



8



Operate ▼ to ”Mic P2” in the “Volume Set” menu. Operate ◄ or ► buttons in the option “Mic P2” to change the volume of loop audio output which connects FCS-6350. The preset and maximal volume are both 15. When the volume is set to 01, it turns off “Loop audio output” volume. You can configure other loop outputs sequentially.

After completion of volume setting, short press “ESC” button to exit “Volume Set” menu and return to “Advanced Menu”.

MCU Operation

Advanced Menu_Mic Checking

You can perform “Scan” or “Test” for the connected microphone units to confirm if the connected units can be used normally.

1



Operate ▲/▼ buttons to select ”Mic Checking” in the Advanced Menu, short press “ENTER” button to enter “Mic Checking” menu.

2



Operate ▲/▼ buttons to select ”Test” or “Scan” in the Mic Checking menu, short press “ENTER” button to perform “Test” or “Scan”.

- Scan: scan all units to see if they are in each loop.
- Test: perform test for the saved unit No.

Advanced Menu_ Mic Checking

3



During “Scan” or “Test”, the system will report the quantity of normal units in each loop sequentially.
If “Scan” or “Test” finishes or needs to finish earlier, you can press “ESC” to exit the work and then return to the previous “Mic Checking” menu.

MCU Operation

Advanced Menu_Mic ID Set

You can perform microphone unit ID setting. Enter the setting mode for microphone unit ID setting. Delegate ID is from 001 to 999; Chairman ID is from *01 to *10.

1



Operate ▲/▼ buttons to select ”Mic ID Set” in the Advanced Menu menu, short press “ENTER” button to enter “Mic ID Set” menu.

2



After entering the “Mic ID Set” menu, the preset ID is delegate 001.

MCU Operation

Advanced Menu_Mic ID Set

3



4



Operate ◀ or ▶ buttons in the “Mic ID Set” to change the ID, short press “ENTER” button to “Mic ID Set” mode. Meanwhile, short press the “Talk” button on the preset delegate unit to be configured to apply Mic ID.

After setting the Mic ID, FCS-6350 will increase Mic ID in order automatically. You can short press “Talk” button of other delegate units sequentially to perform ID Set.
If ID Set is completed, short press “ESC” button to exit setting mode, press “ESC” again to return to Advanced Menu.

MCU Operation

Advanced Menu_Voice Set

Configure the audio related function options such as auto-gain, voice-activation, clear sound effect, etc.

1



Operate ▲/▼ buttons to select ”Voice Set” in the Advanced Menu, press “ENTER” button shortly to enter “Voice Set” menu.

2



”AGC Mode” is set to “OFF” by default. Operate ◄ or ► buttons to turn on/off auto-gain function. After turning on auto-gain function, FCS-6350 will adjust the volume level of the delegate units averagely when delegate starts speaking.

MCU Operation

Advanced Menu_Voice Set

3



”ClrSound” is set to “ON” by default. Operate ▶ or ◀ buttons to turn on/off clear sound effect. When Clear Sound function is ON, FCS-6350 will have audio alert when the chairman presses the function button on the chairman unit to turn off all speaking delegates or change the conference mode.

4



”Voice SW” is set to “OFF” by default. Operate ◀ or ▶ buttons to turn on/off the voice-activation function. If the function is ON, FCS-6350 will automatically turn on the delegate unit as it detects the voice input from human speaking.

MCU Operation

Advanced Menu_Voice Set

5



”S_CtrSPK” (speaker sub-control) is set to “ON” by default. Operate ◄ or ► buttons to turn on/off the function. If the function is ON, when FCS-6315 / 6316 unit is used, the volume of the built-in speaker is configured through the operation button on the unit itself; meanwhile, FCS-6350 main control unit will not be able to control the volume via the Volume Set menu.

6



”S_CtrVol” (volume sub-control) is set to “ON” by default. Operate ◄ or ► buttons to turn on / off the function. If the function is ON, when FCS-6315 / 6316 unit is used, the loop output volume is configured through the operation button on the unit itself; meanwhile, FCS-6350 main control unit will not be able to control the loop output volume via the Volume Set menu.

MCU Operation

Advanced Menu_Display Set

Configure the display language of FCS-6350 menu and display style on FUN-6313 / 6314 OLED screen.

1



Operate ▲/▼ buttons to select ”Display Set” in the advanced menu, short press “ENTER” button to enter “Display Set” menu.

2



The display language is set to “Chinese” by default. Operate ◄ or ► buttons to select “CHN” for Chinese display or “ENG” for English display.

MCU Operation

Advanced Menu_Display Set

3



4



”FUN IMG” is the function of FUN microphone units. Preset setting is “Type 01”. Operate ◀ or ▶ buttons to select “Type 01” or “Type 02”.

- Type 01: Display microphone ID on OLED screen of FUN units.
- Type 02: Display identity icon on OLED screen of FUN units.

After completion of configuration, short press “ESC” to exit Display Set menu and return to advanced menu.

MCU Operation

Advanced Menu_Lift Control

When lifting system and BXB VDM network distributed system are used, you can operate and configure the related commands.

1



Operate ▲/▼ buttons to select ”Lift Control” in the advanced menu, short press “ENTER” button to enter “Lift Control” menu.

2



Operate ◀ or ▶ buttons to select “Up”, “Down” or “Stop” in the options of “Mic”, “Monitor” or “Monitor & Mic” to deliver commands to control the lifting system. After the control, the option will return to “Up” and waits for next operation.

MCU Operation

Advanced Menu_Lift Control

3



In the option “Signal SW”, operate ◀ or ▶ buttons to select “HDMI”, “VGA” or “DVI” to deliver commands to control the VDM network distributed system and switch to the selected signal source. After switching, the option will return to “HDMI” and waits for next operation.

4



After operation, short press “ESC” button to exit Lift Control menu.

MCU Operation

Advanced Menu_Network Set

You can check the current IP address and MAC of FCS-6350. The preset is “DHCP” to acquire IP address automatically in local network. You can check IP address in the menu; If automatic acquisition of IP address is not possible, the preset fixed IP address is “192.168.168.100”.

1



2



Operate ▲/▼ buttons to select ”Network Set” in the advanced menu, short press “ENTER” button to enter “Network Set” menu.

The network is set to “DHCP” to be acquired automatically. You can check current IP and MAC address in the menu; If it fails to acquire IP automatically, the preset fixed IP address is “192.168.168.100”.

To exit this menu, short press “ESC” to return to previous advanced menu.

MCU Operation

Advanced Menu_Chairman BTN

You can configure the respective function of ”Long Press” and “Short press” chairman function button on the chairman unit.

1



Operate ▲/▼ buttons to select ”Chairman BTN” in the advanced menu, short press “ENTER” button to enter “Chairman BTN” menu.

2



Operate ▲/▼ buttons to select ”Short Press” in the ” Chairman BTN” menu, short press “ENTER” button to enter the setting menu.

MCU Operation

Advanced Menu_Chairman BTN

3



4



If “ENTER” button is short pressed to check “Chairman BTN”, the corresponding function will be activated by short pressing the control button on the chairman unit. If “ENTER” button is short pressed to uncheck the “Chairman BTN”, there will be no function in operation by short pressing the control button of chairman unit.

After completing the setting, short press “ESC” to return to previous menu.

MCU Operation

Advanced Menu_Chairman BTN

5



6



Operate ▲/▼ buttons to select “Long Press” in the ” Chairman BTN” menu, short press “ENTER” button to enter the setting menu.

You can select multiple long press function settings. Long press chairman control button can switch functions sequentially. The preset is “Normal” and “Chairman”. You can operate ▲/▼ buttons to select other corresponding functions in the menu; short press “ENTER” button on the checked option will uncheck that function.

MCU Operation

Advanced Menu_Chairman BTN

7



8



Operate ▲/▼ buttons to select corresponding functions in the menu, short press “ENTER” button on the unchecked options will check that function. When long press the chairman function button on chairman unit, the checked functions will be performed sequentially.

After completing setting, short press “ESC” button to return to previous menu.

MCU Operation

Advanced Menu_Unit Activation Settings

The FCS-6350 can be configured to enable the speaking functionality of chairperson and participant units upon startup.

1



2



Operate ▲/▼ buttons to select “Reset Settings” in the advanced menu, short press “ENTER” button to enter “Reset Setting” menu

During the "Startup" process, use the ◄ or ► buttons to set the system to "Enable" or "Disable."

When "Enable" is selected, the FCS-6350 will activate its individual units upon startup. The number of active units will match the "Open Unit Count" setting.

For example, if the "Open Unit Count" is set to 3, the FCS-6350 will automatically activate units 001, 002, and 003 upon startup.

MCU Operation

Advanced Menu_Unit Activation Settings

3



4



In the "Chairperson Activation Count" setting, use the ◄ or ► buttons to configure the number of chairperson units to activate.

For example, if the "Chairperson Activation Count" is set to 2, the FCS-6350 will activate chairperson units *01 and *02 upon startup.

When "Power-On Activation" is enabled, the FCS-6350 will activate the configured number of chairperson and participant units upon startup.

To keep participant units continuously active, set the "Auto-Off" timer to "Unlimited" to prevent participant units from automatically turning off when no speech is detected.

Conference Unit

FUN-6313 / FUN-6314 Panel Description

FUN-6313



1. Indicator ring: lights up red when chairman talks; extinguished when the microphone is switched off.
2. Screw-lock socket: connects a gooseneck mic.
3. LED display: shows conference modes and microphone ID.
4. Speaking push button: activate/deactivate the unit.
5. Chairman control push-button: short/long press to perform the corresponding functions.

FUN-6314



1. Indicator ring: lights up red when chairman talks; extinguished when the microphone is switched off.
2. Screw-lock socket: connects a gooseneck mic.
3. LED display: shows conference modes and microphone ID.
4. Request-to-speak push button: activate/deactivate the unit.

Conference Unit

FUN-6313 Request-to-speak Operation





Press the speaking push button to activate the speaking status.

After the unit turns on to talk, the indicator ring of gooseneck microphone and the signaling LED of push button are illuminated. You can then talk to the gooseneck microphone; after speaking, press the speaking push button again to turn off the unit.

Conference Unit

FUN-6313 Chairman Control Button Operation





Short press “Chairman control button” for one second to perform short press function. The preset function is “Clear all”, which turns off all the current speaking delegate units.

Long press ”Chairman control button” for three seconds to perform long press function. The preset function is to switch between “Chairman mode” and “Normal mode”.

Conference Unit

FUN-6314 Request-to-speak Operation





Press the speaking push button to activate the speaking status.

After the unit turns on to talk, the indicator ring of gooseneck microphone and the signaling LED of push button are illuminated. You can then talk to the gooseneck microphone; after speaking, press the speaking push button again to turn off the unit.

Conference Unit

UFO-6311 / UFO-6312 Panel Description

UFO-6311



1. Indicator ring: lights up red when chairman talks; extinguished when the microphone is switched off.
2. Screw-lock socket: connects a gooseneck mic.
3. LED display: shows conference modes and microphone ID.
4. Speaking push button: activate/deactivate the unit.
5. Chairman control push-button: short/long press to perform the corresponding functions.

UFO-6312



1. Indicator ring: lights up red when chairman talks; extinguished when the microphone is switched off.
2. Screw-lock socket: connects a gooseneck mic.
3. LED display: shows conference modes and microphone ID.
4. Request-to-speak push button: activate/deactivate the unit.

UFO-6311 Request-to-speak Operation





Press the speaking push button to activate the speaking status.

After the unit turns on to talk, the indicator ring of gooseneck microphone and the signaling LED of push button are illuminated. You can then talk to the gooseneck microphone; after speaking, press the speaking push button again to turn off the unit.

Conference Unit

UFO-6311 Chairman Control Button Operation





Short press “Chairman control button” for one second to perform short press function. The preset function is “Clear all”, which turns off all the current speaking delegate units.

Long press ”Chairman control button” for three seconds to perform long press function. The preset function is to switch between “Chairman mode” and “Normal mode”.

UFO-6312 Request-to-speak Operation





Press the speaking push button to activate the speaking status.

After the unit turns on to talk, the indicator ring of gooseneck microphone and the signaling LED of push button are illuminated. You can then talk to the gooseneck microphone; after speaking, press the speaking push button again to turn off the unit.

Conference Unit

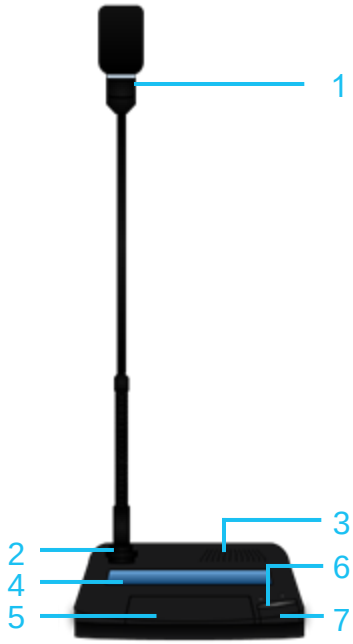
FCS-6315 / FCS-6316 Panel Description

FCS-6315



1. Indicator ring: lights up red when chairman talks; extinguished when the microphone is switched off.
2. Screw-lock socket: connects a gooseneck mic.
3. Built-in loudspeaker: can output sound when the unit is deactivated.
4. LCD display: shows information of system settings.
5. Function buttons: for conference system setting and voting operation.
6. Signaling LED: indicator for conference mode and talk status.
7. Speaking push button: activate/deactivate the unit.
8. Chairman control push-button: short/long press to perform the corresponding function.

FCS-6316



1. Indicator ring: lights up red when chairman talks; extinguished when the microphone is switched off.
2. Screw-lock socket: connects a gooseneck mic.
3. Built-in loudspeaker: can output sound when the unit is deactivated.
4. LCD display: shows information of system settings.
5. Function buttons: for conference system setting and voting operation.
6. Signaling LED: indicator for conference mode and talk status.
7. Request-to-speak push button: activate/deactivate the unit.

FCS-6315 Request-to-speak Operation





Press the speaking push button to activate the speaking status.

After the unit turns on to talk, the indicator ring of gooseneck microphone and the signaling LED of push button are illuminated. You can then talk to the gooseneck microphone; after speaking, press the speaking push button again to turn off the unit.

FCS-6315 Chairman Control Button Operation





Short press “Chairman control button” for one second to perform short press function. The preset function is “Clear all”, which turns off all the current speaking delegate units.

Long press ”Chairman control button” for three seconds to perform long press function. The preset function is to switch between “Chairman mode” and “Normal mode”.

FCS-6316 Request-to-speak Operation





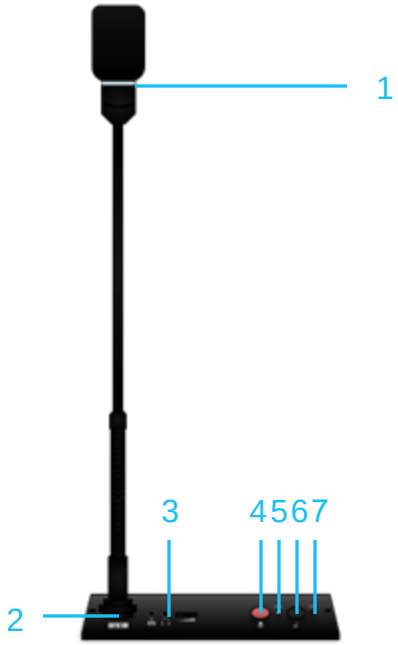
Press the speaking push button to activate the speaking status.

After the unit turns on to talk, the indicator ring of gooseneck microphone and the signaling LED of push button are illuminated. You can then talk to the gooseneck microphone; after speaking, press the speaking push button again to turn off the unit.

Conference Unit

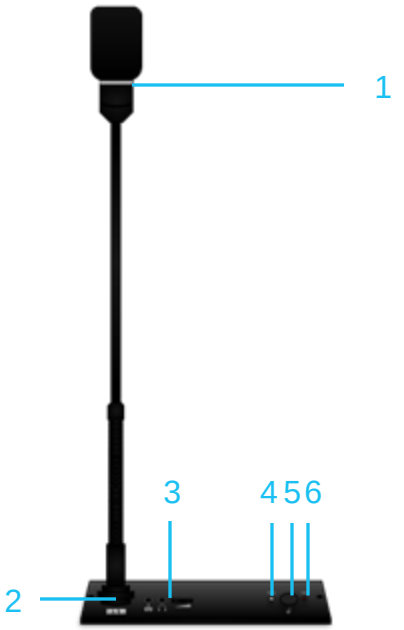
FCS-6321 / FCS-6322 Panel Description

FCS-6321



1. Indicator ring: lights up red when chairman talks; extinguished when the microphone is switched off.
2. Screw-lock socket: connects a gooseneck mic.
3. Line Out: connects headphone or recording equipment.
4. Chairman control push-button: short/long press to perform the corresponding function.
5. Signaling LED: indicator for conference modes.
6. Speaking push button: activate/deactivate the unit.
7. Speaking status LED: indicator for talk status.

FCS-6322



1. Indicator ring: lights up red when chairman talks; extinguished when the microphone is switched off.
2. Screw-lock socket: connects a gooseneck mic.
3. Line Out: connects headphone or recording equipment.
4. Signaling LED: indicator for conference modes.
5. Speaking push button: activate/deactivate the unit.
6. Speaking status LED: indicator for talk status.

Conference Unit

FCS-6321 Request-to-speak Operation





Press the speaking push button to activate the speaking status.

After the unit turns on to talk, the indicator ring of gooseneck microphone and the signaling LED of push button are illuminated. You can then talk to the gooseneck microphone; after speaking, press the speaking push button again to turn off the unit.

FCS-6321 Chairman Control Button Operation





Short press “Chairman control button” for one second to perform short press function. The preset function is “Clear all”, which turns off all the current speaking delegate units.

Long press ”Chairman control button” for three seconds to perform long press function. The preset function is to switch between “Chairman mode” and “Normal mode”.

Conference Unit

FCS-6322 Request-to-speak Operation





Press the speaking push button to activate the speaking status.

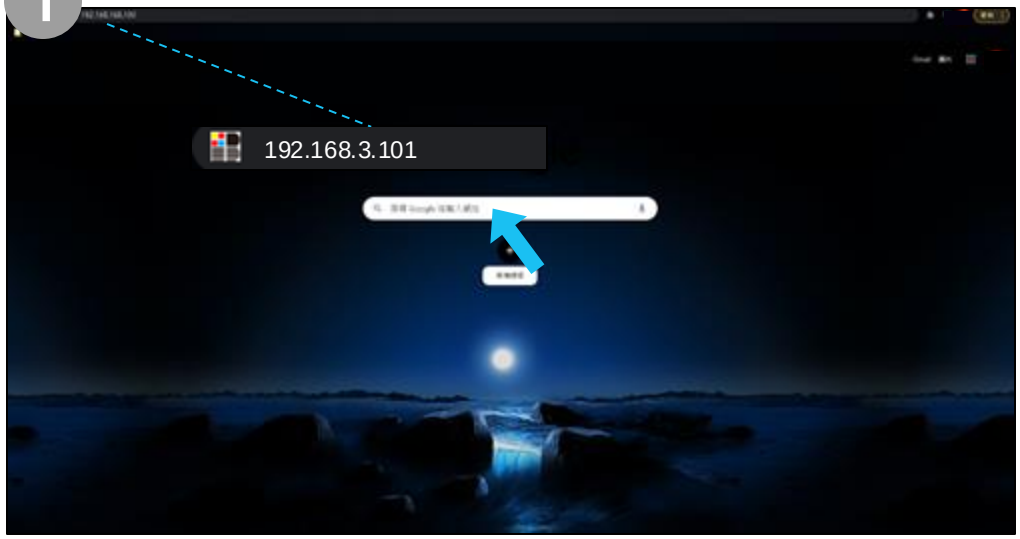
After the unit turns on to talk, the indicator ring of gooseneck microphone and the signaling LED of push button are illuminated. You can then talk to the gooseneck microphone; after speaking, press the speaking push button again to turn off the unit.

Web UI Interface

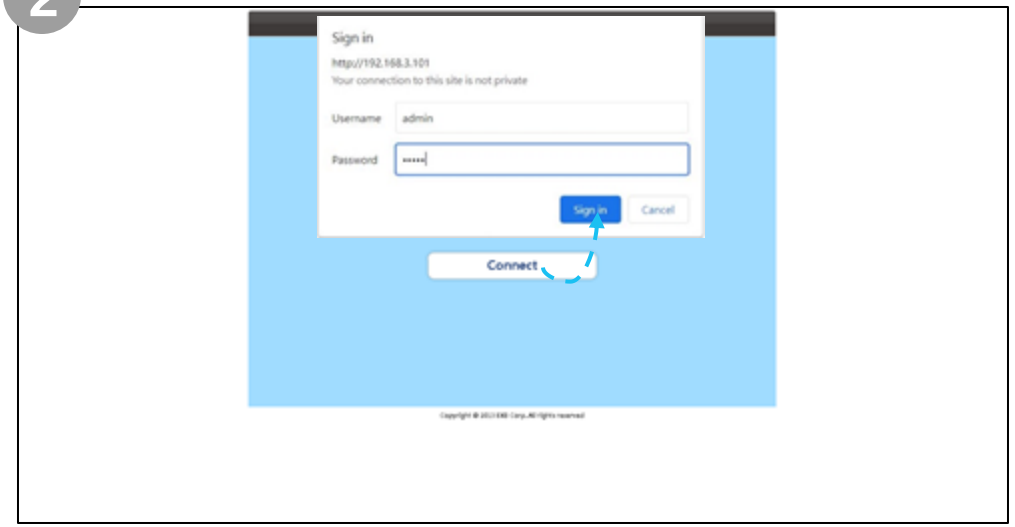
Login

Under the same local network, you can use a PC to connect FCS-6350 Web UI interface through web browser to configure settings of related functions.

1



2



Configure through commonly-known web browsers, such as Chrome, Microsoft Edge, and Firefox. Enter IP address of FCS-6350 first. IP address can be found under “Advanced Menu” > “Network Set”. After entering the IP address, you can remotely manage the conference system.

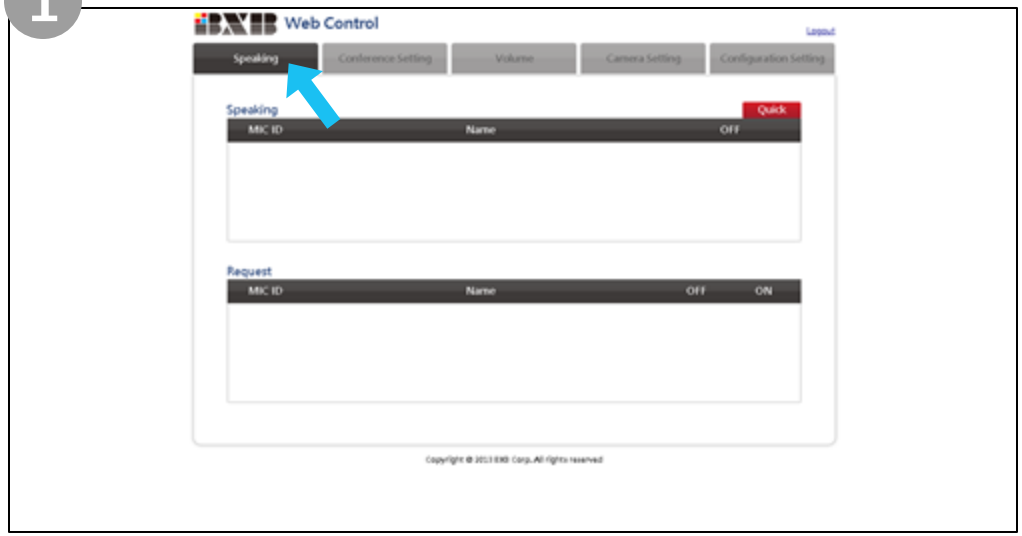
Click “Connect” on the Log In page to open the verification page. Enter the account and password. The default account is “admin”; the password is “00000”.

Web UI Interface

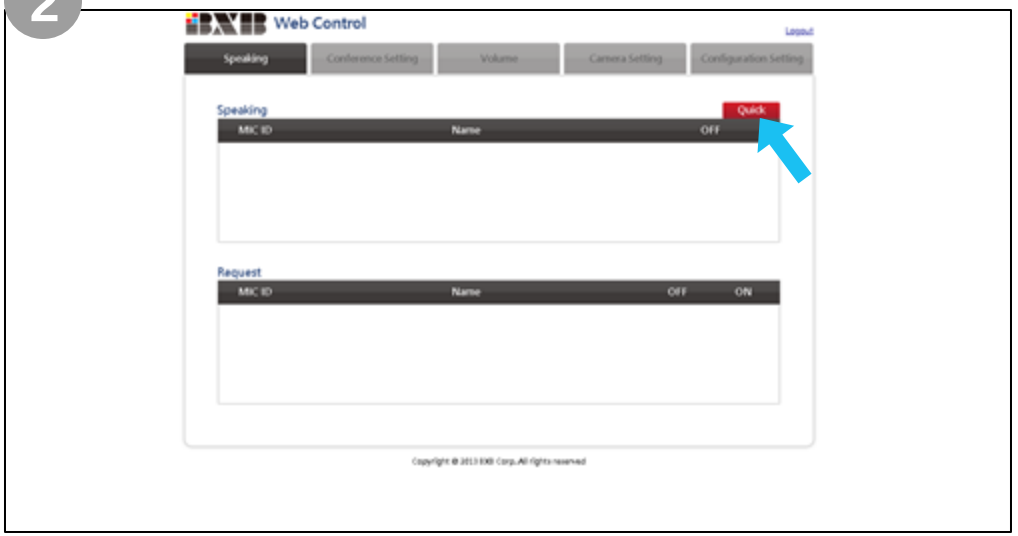
Speaking

You can manage and control the speaking status of conference microphones.

1



2



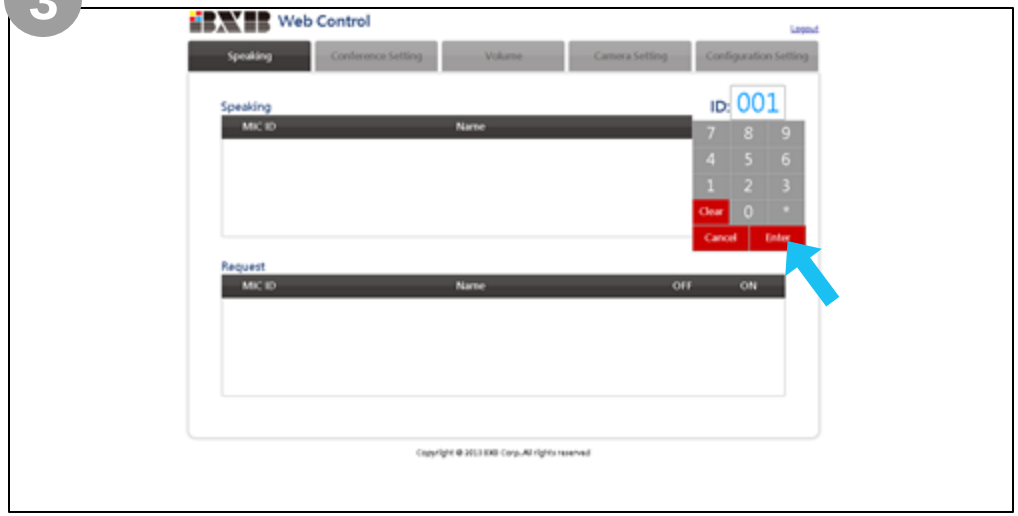
Click “Speaking” to enter the speaking management page.
Click “Speaking” to enter the speaking mic management page.

Click “Quick” under the “Speaking” list to open the speaking mic control menu.

Web UI Interface

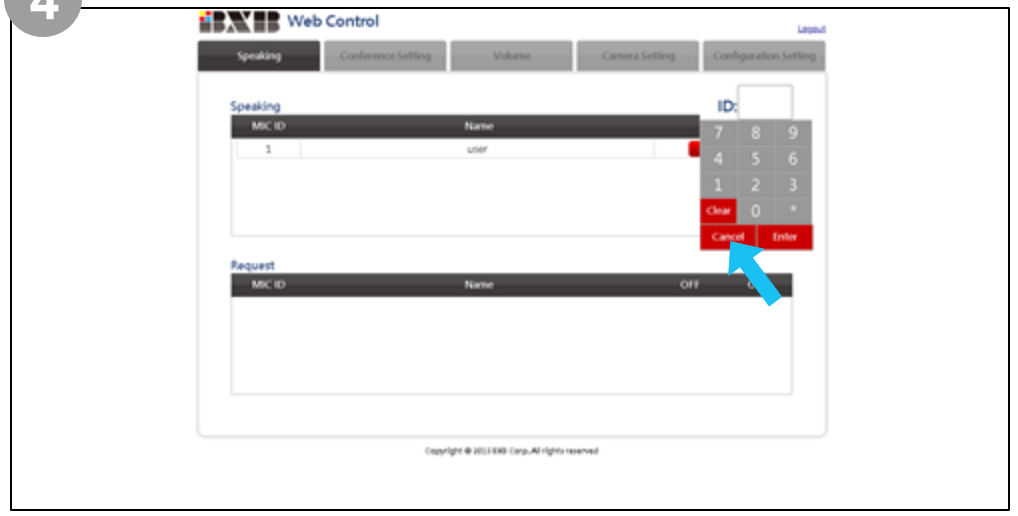
Speaking

3



Enter the microphone unit ID and then click “ENTER” to activate that unit’s speaking.

4

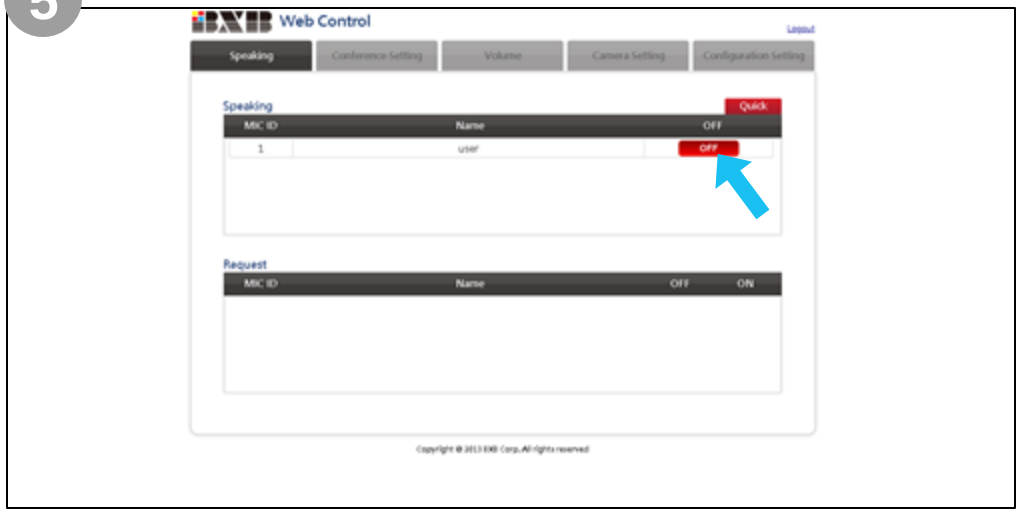


Click “Cancel” to close the control menu.

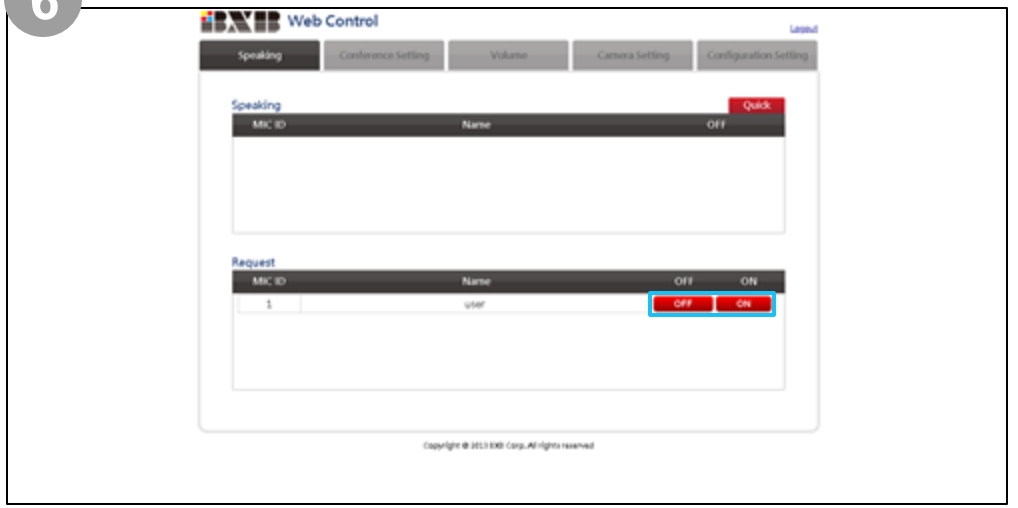
Web UI Interface

Speaking

5



6



The ”Speaking” list shows the speaking unit’s ID. To turn off the speaking status of that unit, just click “OFF”.

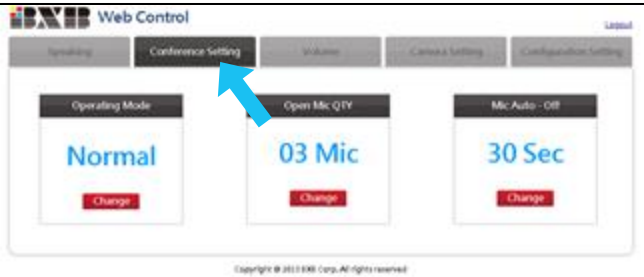
Under “Chairman mode”, if delegate short presses the Talk button on the unit to request for speaking, the “Request” field will show the waiting list. To agree that delegate to speak, click “ON” to permit. If that delegate is not agreed to speak, click “OFF” to cancel the speaking request of that delegate unit.

Web UI Interface

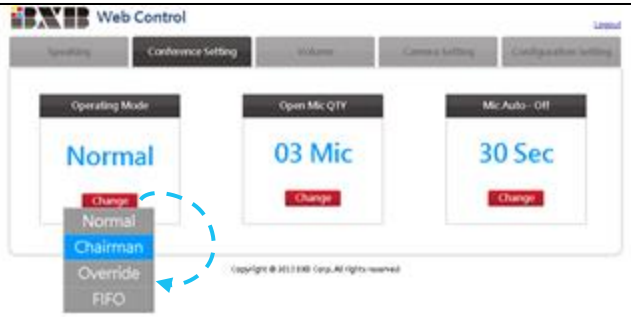
Conference Setting

You can configure “Operating Mode”, “Open Mic Qty” and “Mic Auto-Off”.

1



2



Click “Conference Setting” to enter the operating mode management page.

Click “Change” in the “Conference Setting” field to open the menu and select an operating mode: “Normal”, “Chairman”, “Override”, or “FIFO”.

Web UI Interface

Conference Setting

3



4



Click “Change” under the “Open Mic QTY” list to open the menu. You can enter a number from “01” to “30” to configure the number of delegate units which are permitted to speak simultaneously.

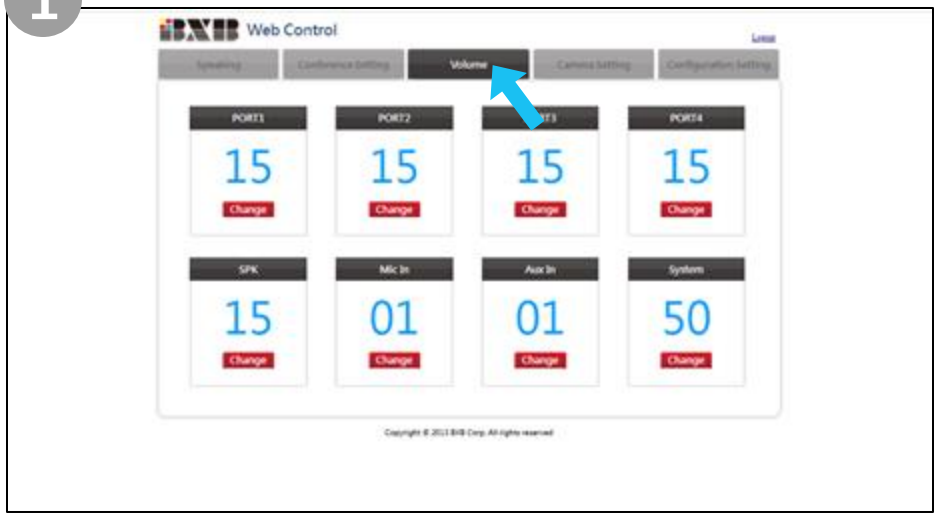
Click “Change” under “Mic Auto-Off” to open the menu. Enter a number from ”01” to “99” to configure the time after no voice inputting to the unit so that the unit would be turned off automatically; or enter “0” for not turning off.

Web UI Interface

Volume

You can configure the volume of the loop output, FCS-6350 audio source output, and other related audio sources.

1



2



Click “Volume” to enter volume setting page.

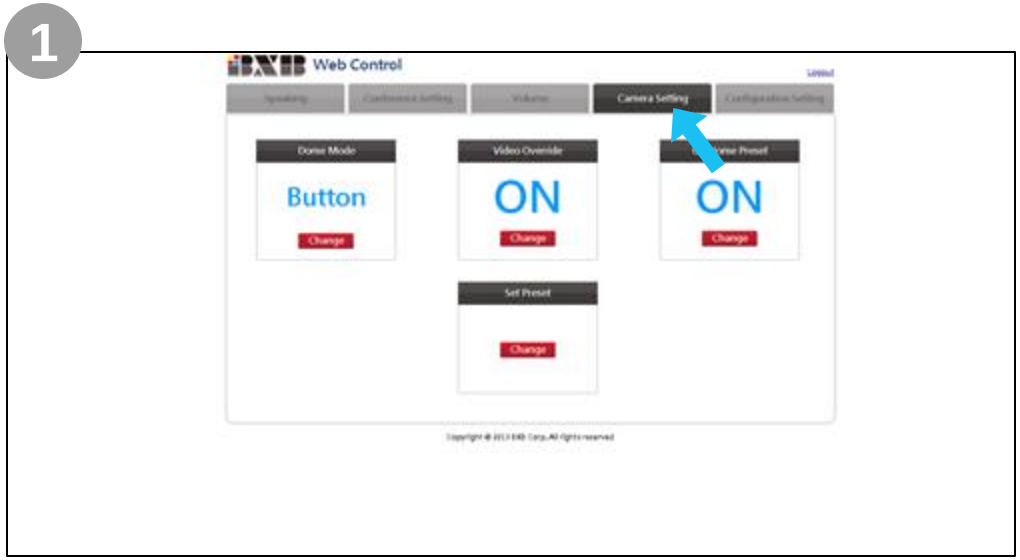
Click “Change” on the items to be configured. Enter the value to change the volume of that audio source channel.

Web UI Interface

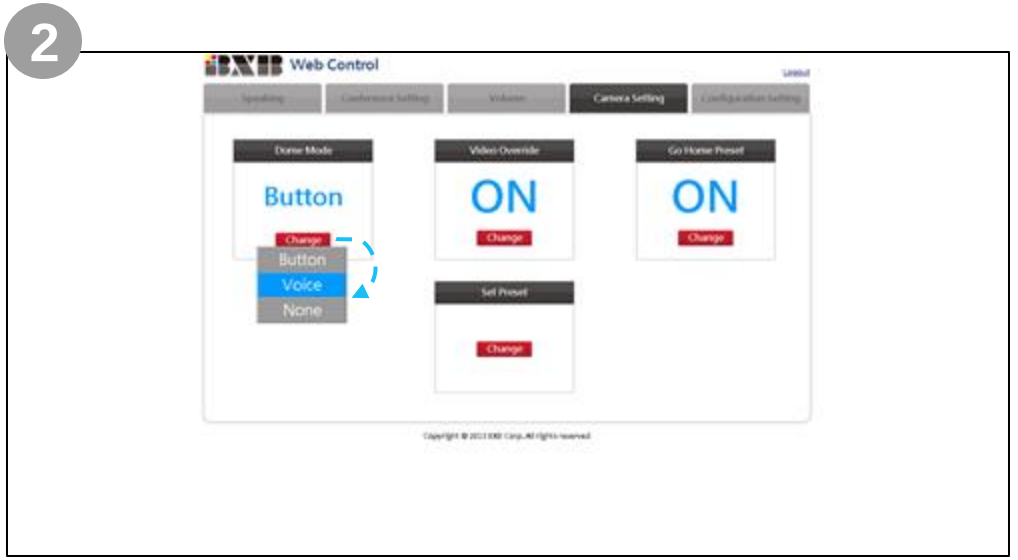
Camera Setting

You can configure camera tracking mode, video override, and back to home preset. When camera type is set to “Standard”, you can select “Set Preset” to perform preset point setting.

1



2



Click “Camera Setting” to enter video tracking setting page.

Click “Change” under “Dome Mode”. Select “Button” for button tracking, “Voice” for voice tracking or “None” to turn off video tracking function.

Web UI Interface

Camera Setting

3



4



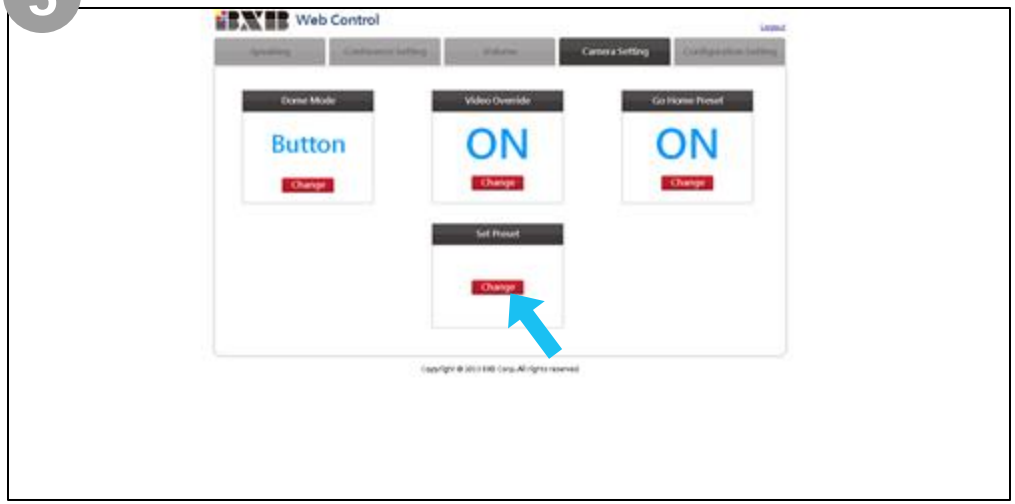
Click “Change” under “Video Override” to turn on / off video override function during video tracking for the speaking microphone units.

Click “Change” under “Go Home Preset” to turn on / off Go Home Preset function when all speaking units are turned off.

Web UI Interface

Camera Setting

5



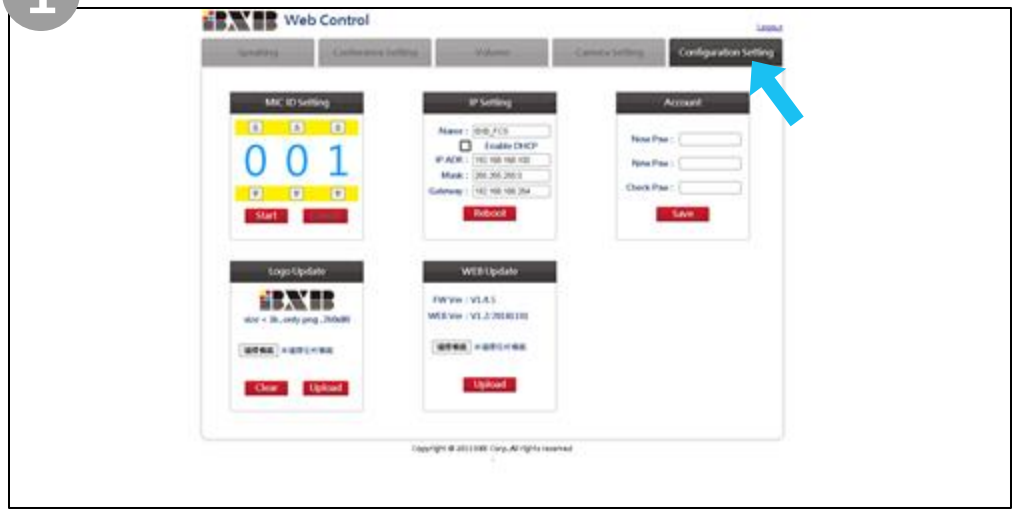
Click “Change” under “Set Preset” to open the preset point setting menu. When the present camera type is set to “Standard”, you can change the setting in the menu.

Web UI Interface

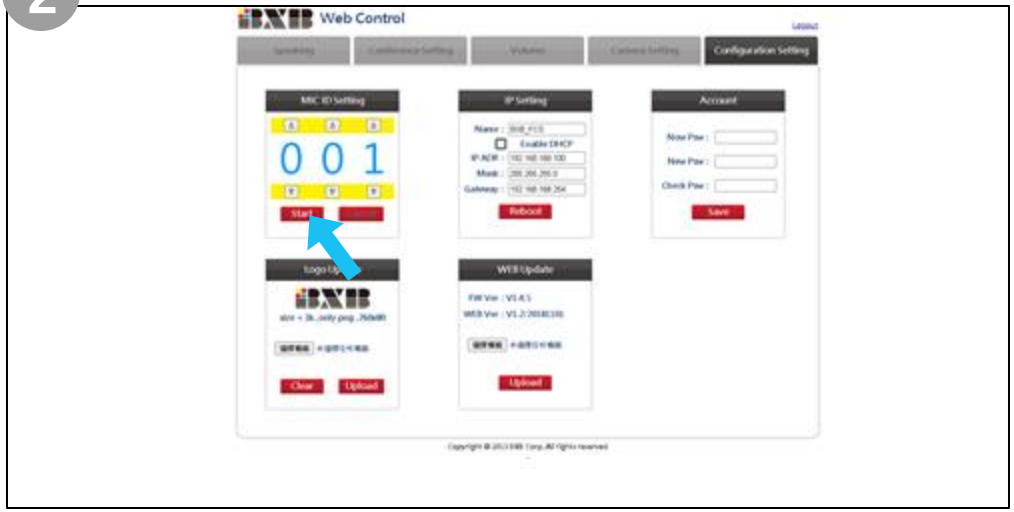
Configuration Setting

You can change settings such as ”MIC ID Setting”, “IP Setting”, “Account” etc.

1



2



Click “Configuration Setting” to enter the advanced setting page.

Adjust the “Initial number” of the unit to be configured under ”MIC ID Setting”. Click “Start” to enter the setting mode.

Web UI Interface

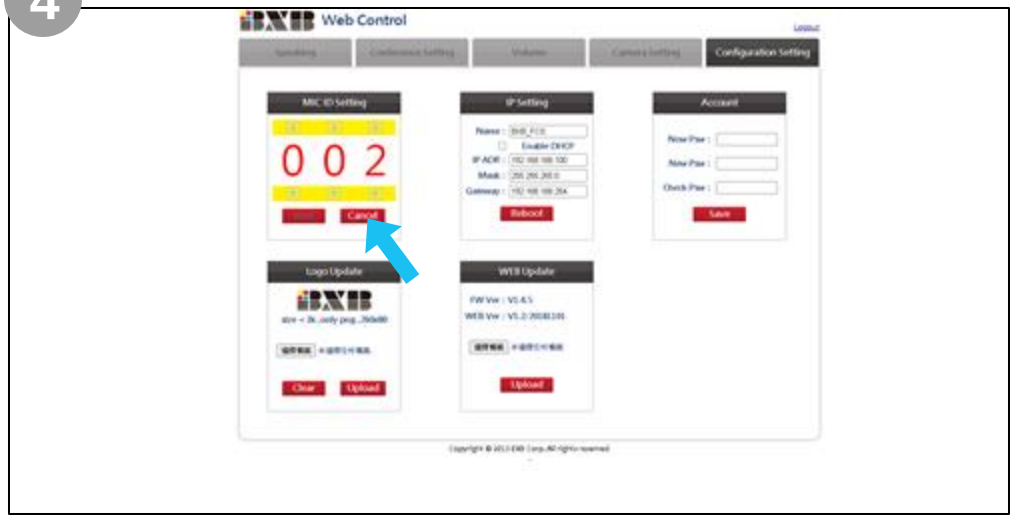
Configuration Setting

3



Short press the talk button on the microphone unit to be configured to apply that Mic ID. The system will increase the applicable Mic IDs automatically to configure other units.

4



After completing setting, you can click “Cancel” to exit Mic ID setting mode.

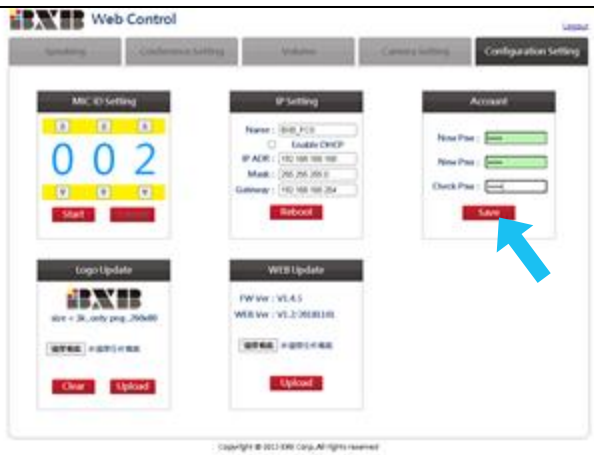
Web UI Interface

Configuration Setting

5



6



You can configure the way of acquiring FCS-6350 IP address under “IP Setting”. It is preset as “DHCP” to acquire IP automatically; if it is necessary to configure fixed IP, you can uncheck “DHCP” and enter related information. After then, click “Reboot” to apply the setting. FCS-6350 will reboot and apply the network information.

Enter the current password under “Account”, then enter the new password to change the login password for web page and graphical control software.

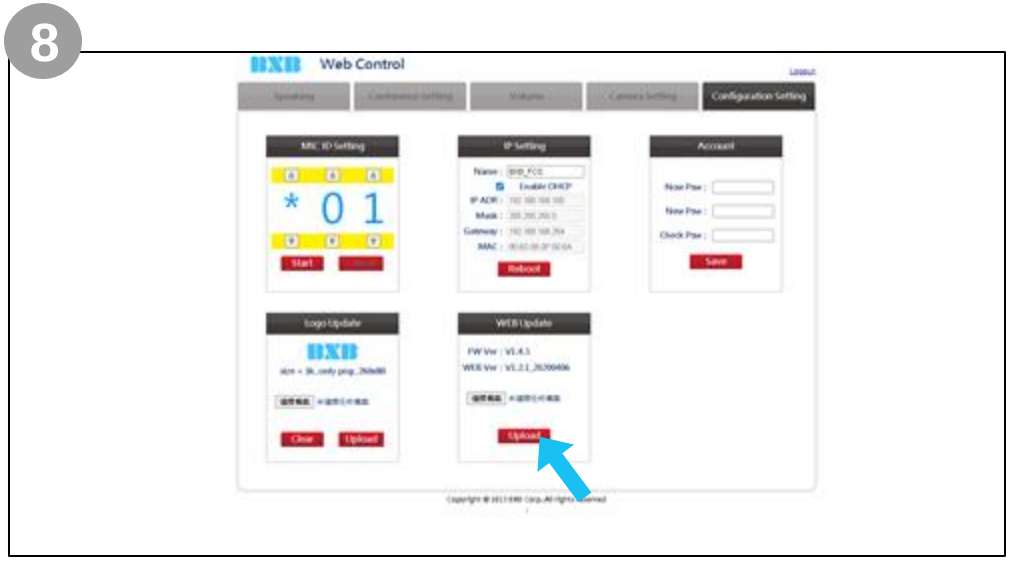
Web UI Interface

Configuration Setting

7



8



You can configure the PNG file with 260*80 pixels for uploading under “Logo Update”. The file size must be lower than 3KB.

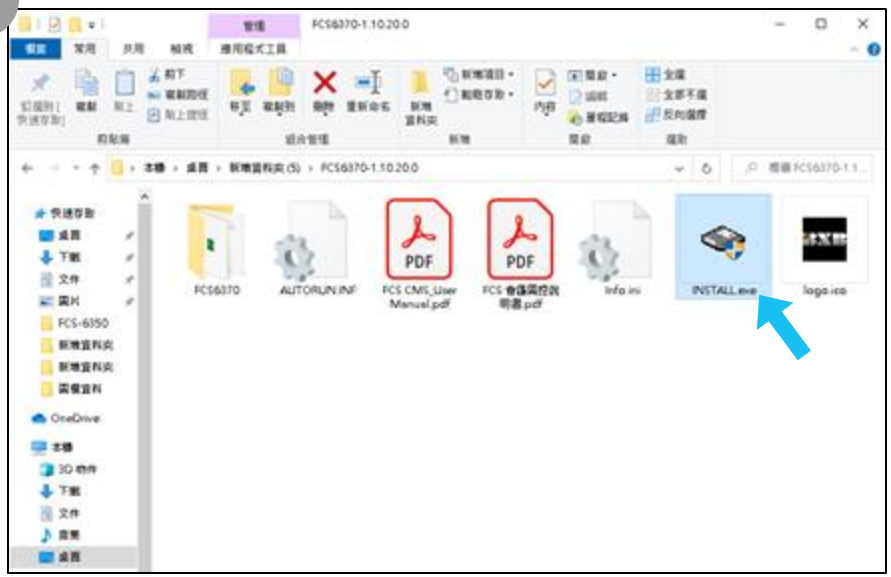
Apply BXB FCS-6350 WEB version file under “WEB Update” to perform version update.

Graphical Control Software

Software Installation

FCS-6370 graphic control software includes “EDIT” version and “OPERATE” version. You need to use “EDIT” to edit data, then import them to “Operate” (server) to perform related functions.

1



2



Click “FCS6370 EDIT” to open EDIT Software graphical control program.

Select the display language” under “Language” on the main page and then click “Install Operate Software” and “Install Edit Software” for installation.

EDIT Software

Start Editing

FCS-6370 graphical control software doesn't have related data initially, so you need to use "EDIT Software" to edit data such as "Attendee Data", "Agenda" etc., then import them to "Operate Software" for performing related functions.

1



2



Click "FCS6370 Edit" to open EDIT Software graphical control program.

Select the display language under "Language" on the main page. The related options of "EDIT Software" will be displayed based on the selected language.

EDIT Software

Attendee Data

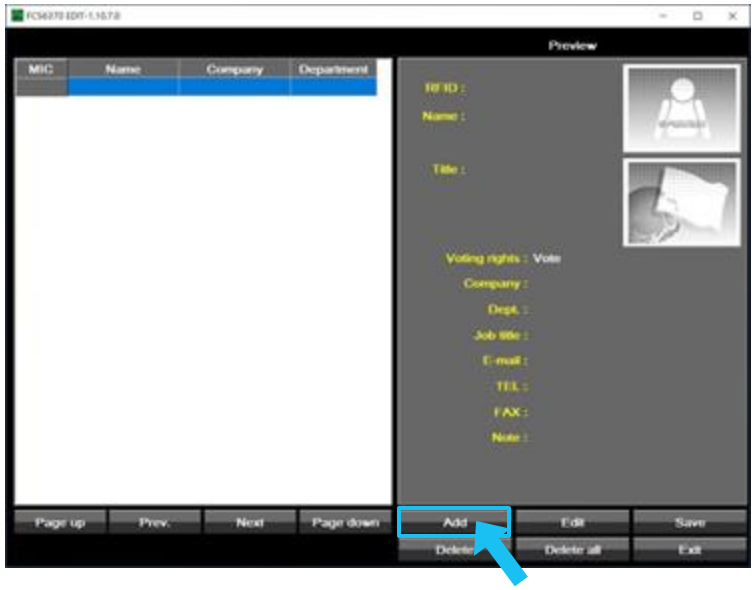
Edit the data of the attendee corresponding to the microphone unit under “Attendee Data”, then import them to “Operate Software” for easy management of microphone speaking status or vote etc.

1



Click “Attendee Data” to enter the edit page for attendee data.

2

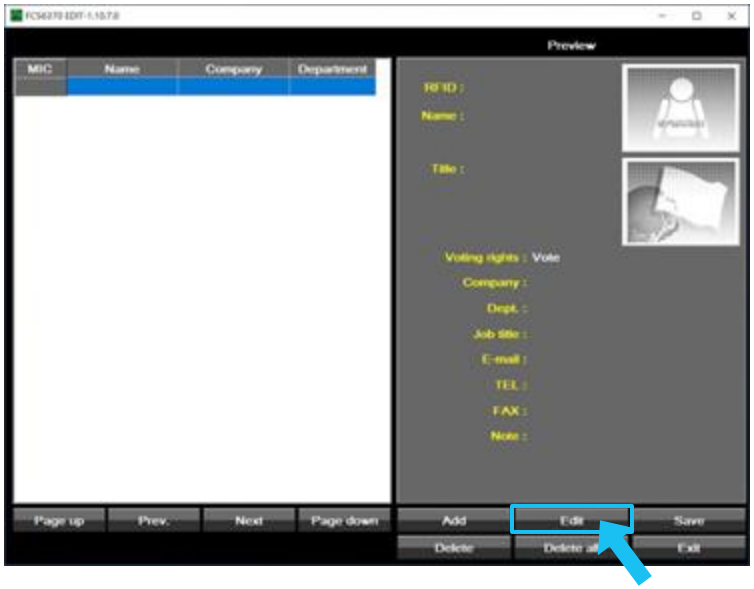


Click “Add” to add a field of attendee data.

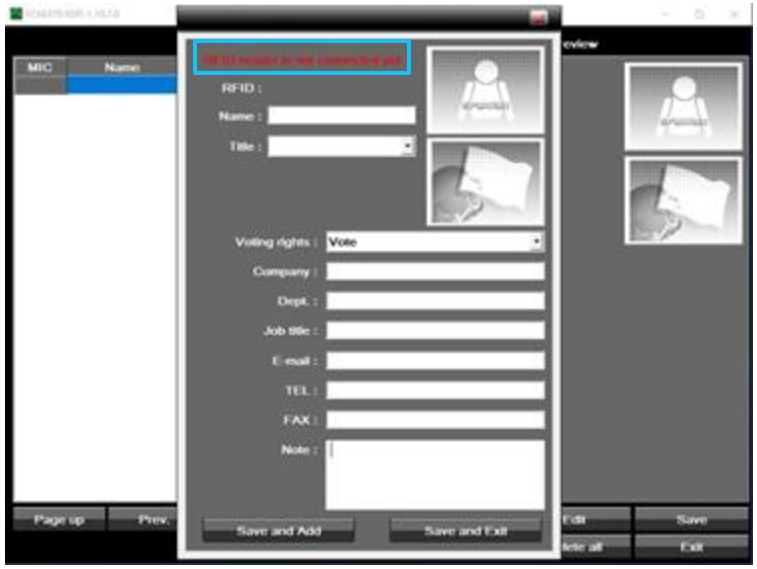
EDIT Software

Attendee Data

3



4



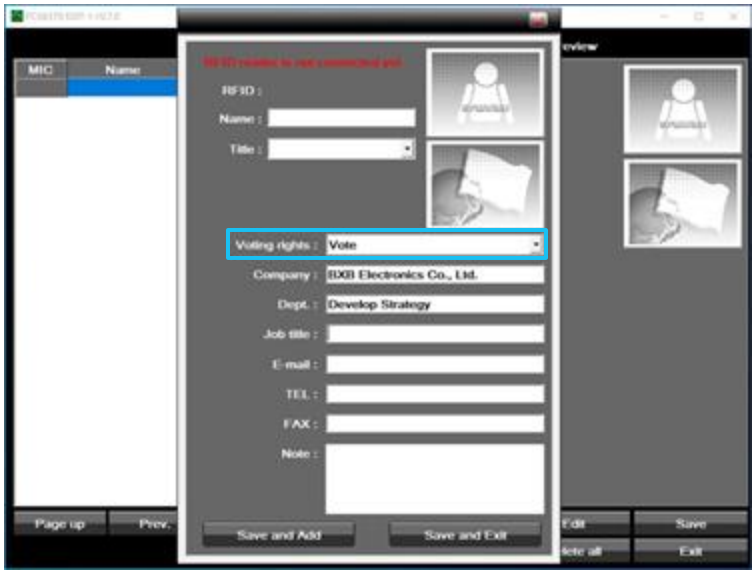
Double click the field of attendee data or click “Edit” to open the attendee data editing window.

If the conference system is equipped with RFID module, USB reader can be connected to the PC with EDIT Software to perform RFID card binding through tapping with USB card reader; this step can be ignored if it is not equipped.

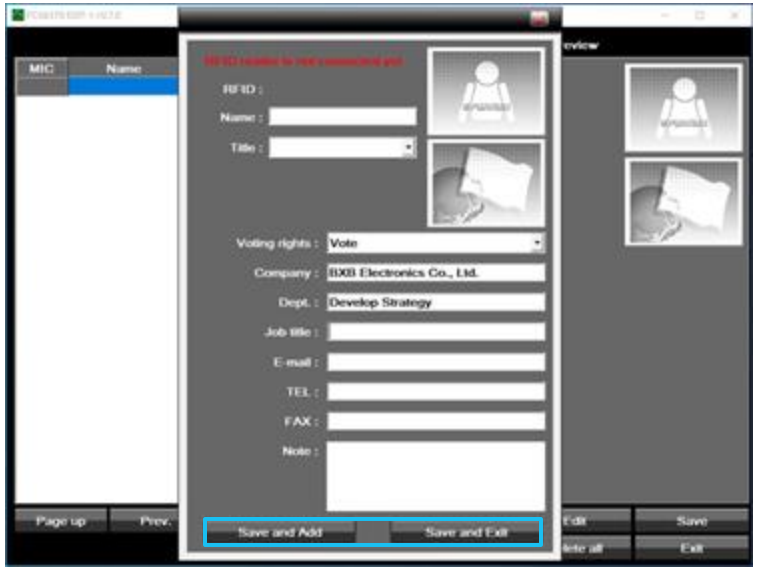
EDIT Software

Attendee Data

5



6



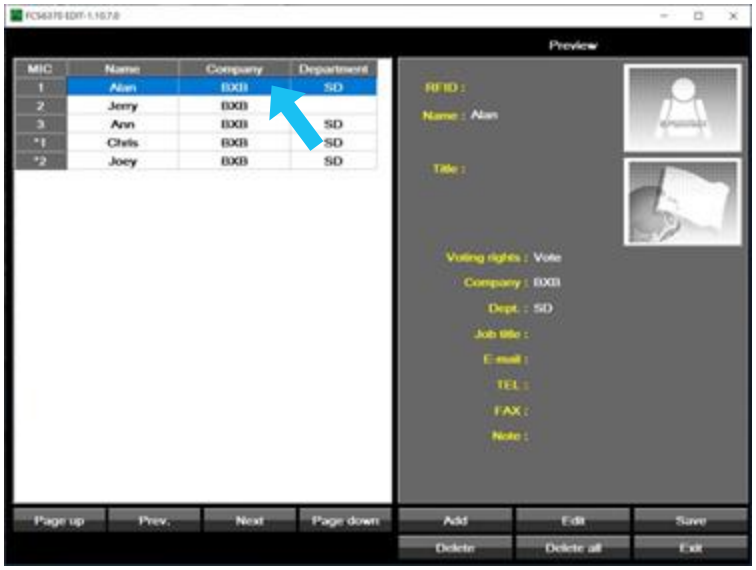
Enter information related to the attendee sequentially (no need to fill all fields) or upload a picture of the attendee for identification. Voting is permitted if the conference system is equipped with a voting module, such as FCS-6315, FCS-6316 or FCS-6341 etc. and ”Voting rights” is set to “Vote”.

If it is necessary to create attendee data continuously, you can click “Save and Add” to create attendee data of further attendee; if editing is completed, click “Save and Exit” to finish editing.

EDIT Software

Attendee Data

7



8



Click a person under attendee data list to show the related attendee data which is entered previously. If “Edit” or “Delete” is needed, you can click the person at first, then click related buttons for operation.

After completing editing, click “Save” to finish data editing, then click “Exit” to return to main menu page.

EDIT Software

Seat Arrangement

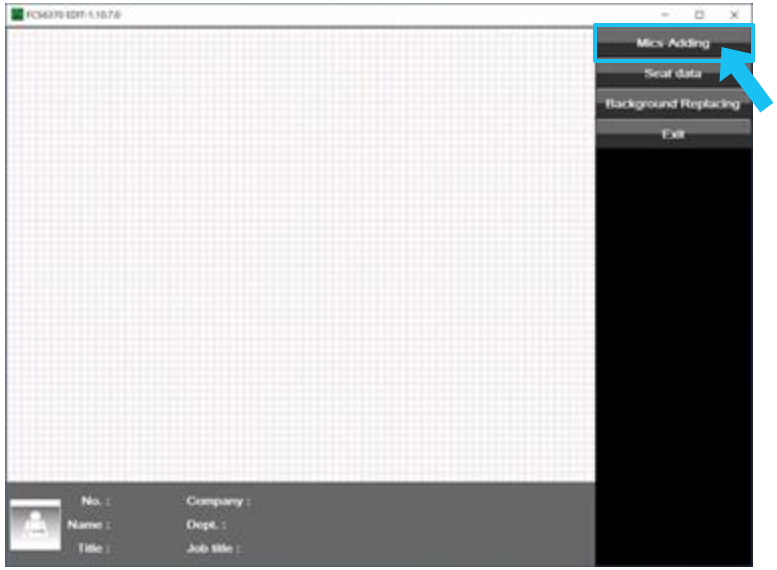
Edit the position and distribution of conference units and the corresponding binding of conference unit and attendee data.

1



Click “Seat Arrangement” to enter the editing page for conference unit management page.

2

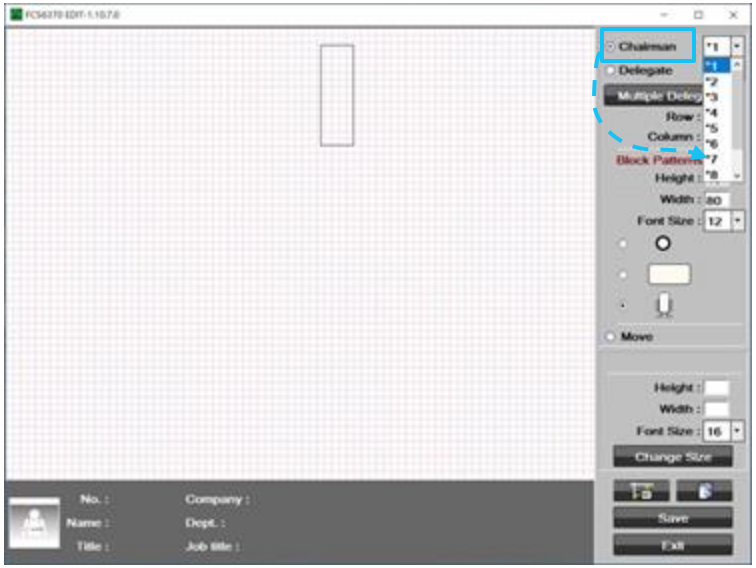


Click “Mics-Adding” to add new microphone unit block.

EDIT Software

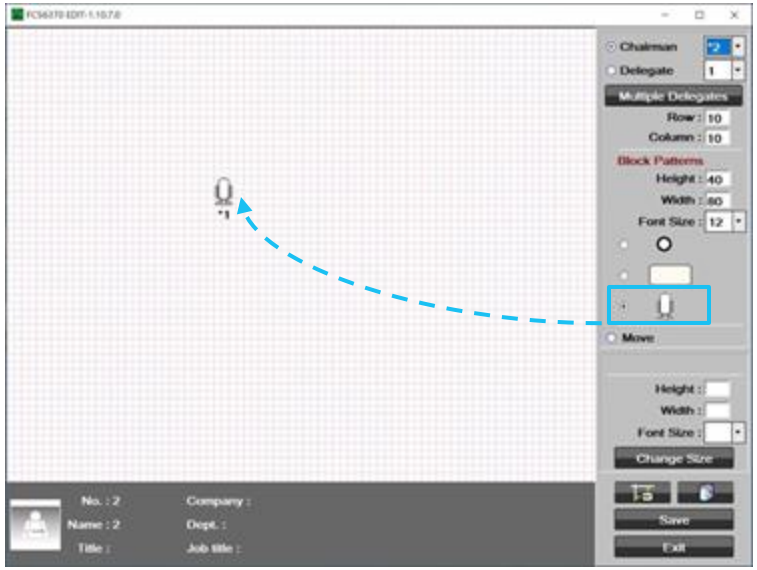
Seat Arrangement

3



To add a chairman unit block, click “Chairman” and select the corresponding unit ID in the list.

4

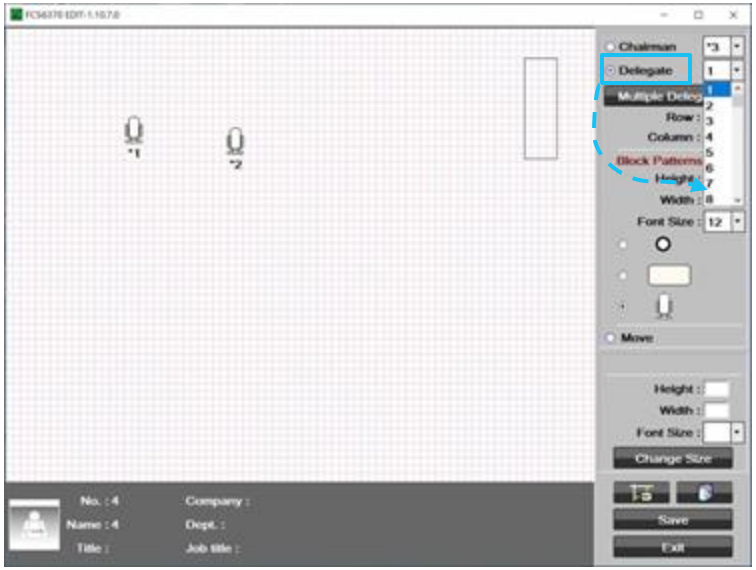


After selecting the block pattern, click left button at the wished position on the page to add a unit block. You can click at different positions sequentially to add other chairman unit blocks.

EDIT Software

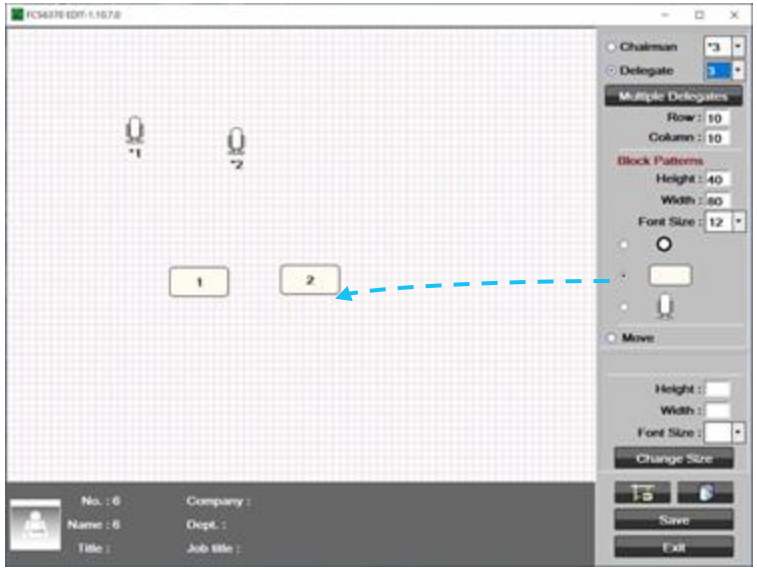
Seat Arrangement

5



To add a delegate unit block, click “Delegate”, and select the corresponding unit ID in the list.

6

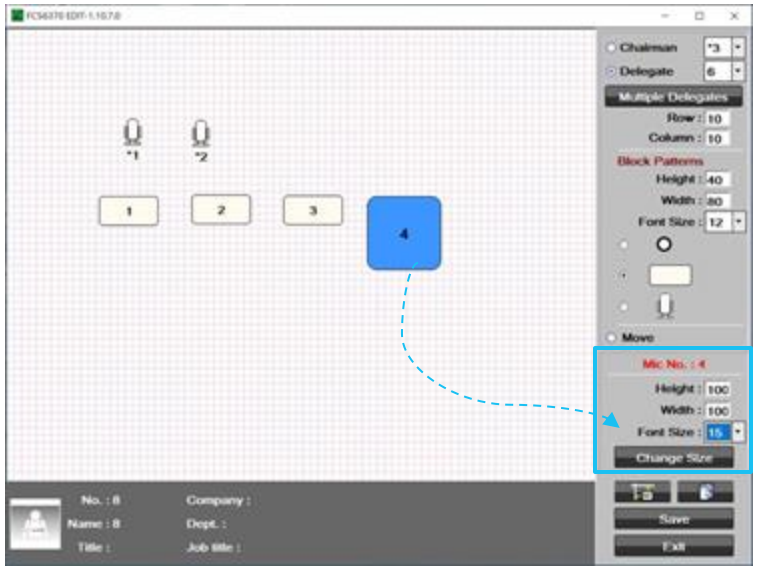


After selecting the block pattern, click left button at the wished position on the page to add a unit block. You can click at different positions sequentially to add other delegate unit blocks.

EDIT Software

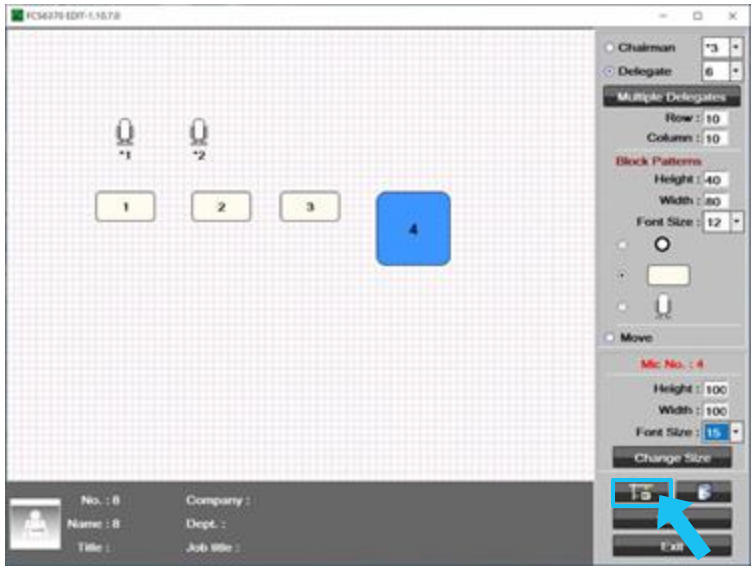
Seat Arrangement

7



Select the unit block added on the page. After modifying the value in the block size modification field, click “Change Size” to modify that unit block.

8

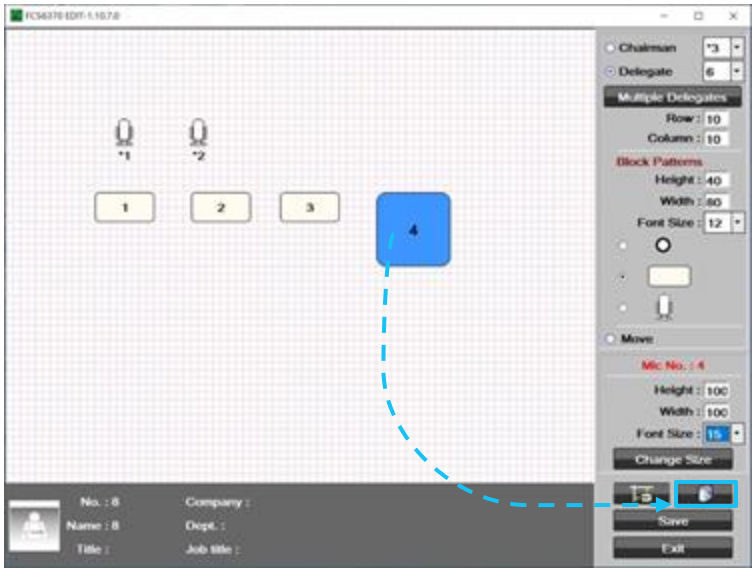


Click “Align to grid” icon, the unit blocks added on the page will align to adjacent grid lines.

EDIT Software

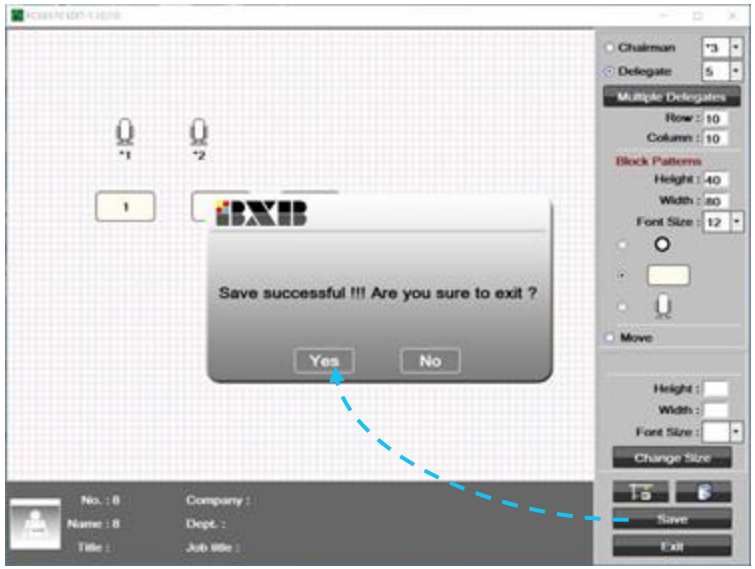
Seat Arrangement

9



Select blocks to delete, click ”Recycle Can” icon to delete that block.

10

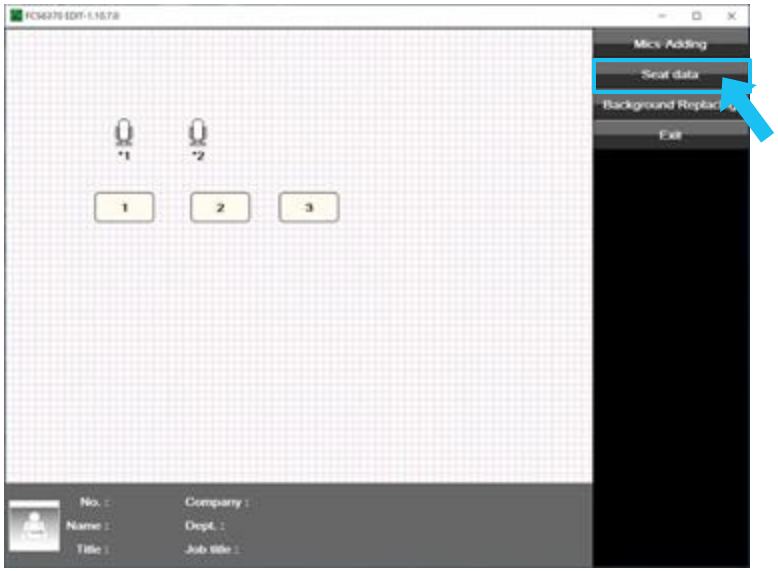


Click “Save”, then click “Yes” to complete editing and save data. After then, click “Exit” to return to previous menu.

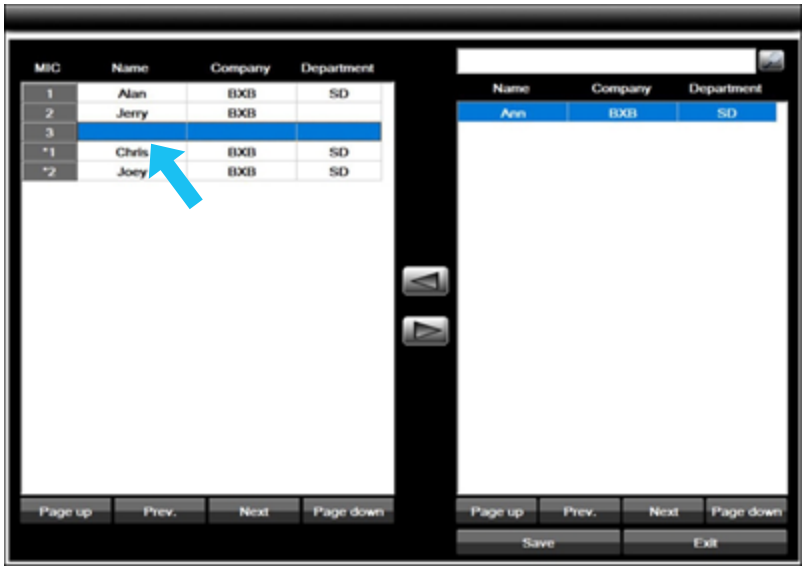
EDIT Software

Seat Arrangement

11



12



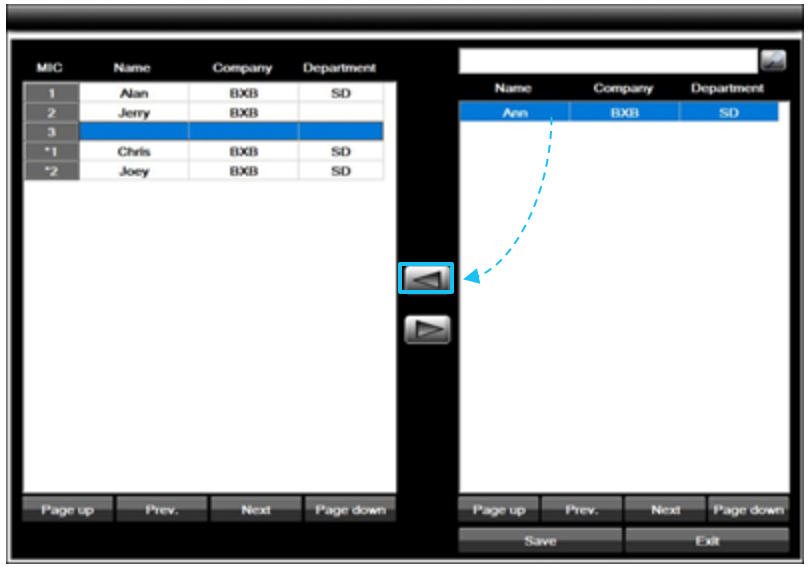
Click “Seat Data” to edit the corresponding data of conference unit and attendee data.

Select the No. of the microphone unit in the unit list.

EDIT Software

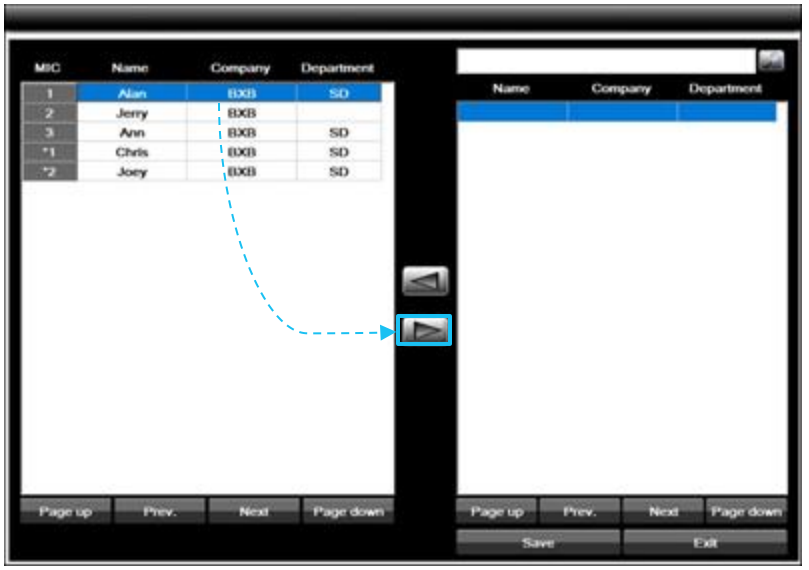
Seat Arrangement

13



Select the corresponding data under the “Attendee Data” list, then click ◀ to add the data.

14



To cancel the corresponding data, click the conference unit at first, then click ▶ to cancel the data.

EDIT Software

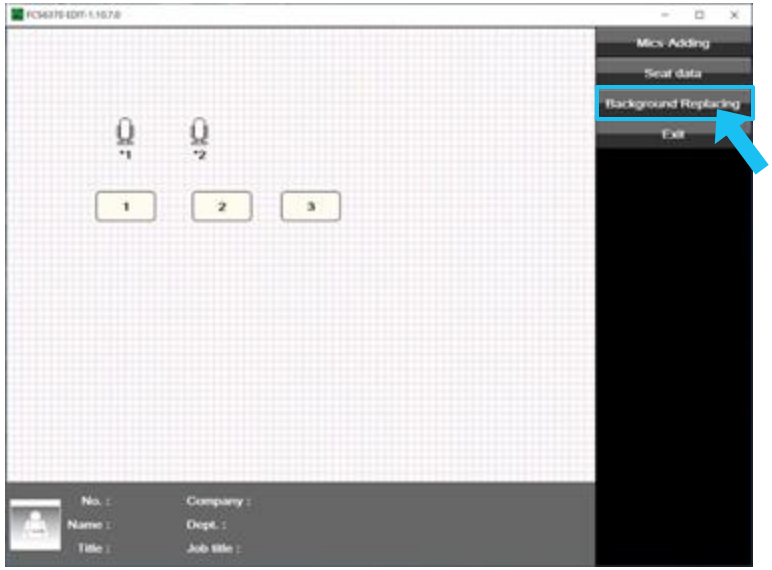
Seat Arrangement

15



Click “Save” then click “Yes” to complete data setting and save them. After then, click “Exit” to return to previous menu.

16

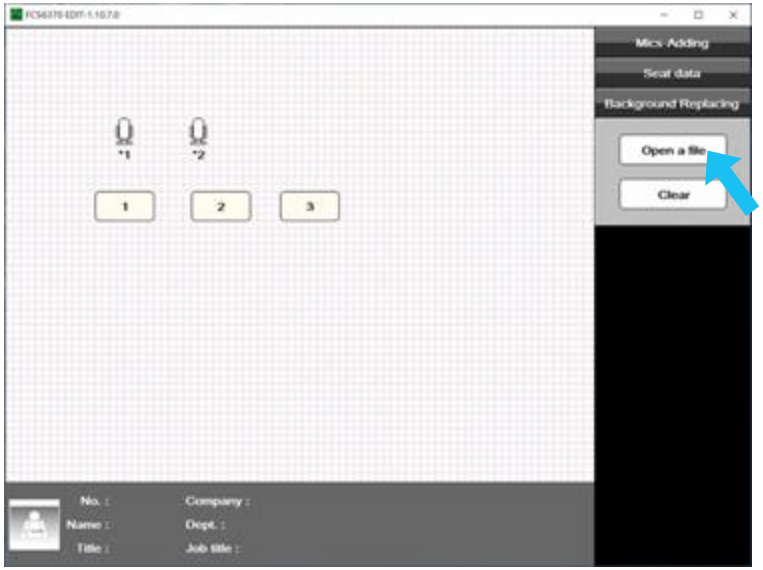


Click “Background Replacing” to enter the background replacing menu.

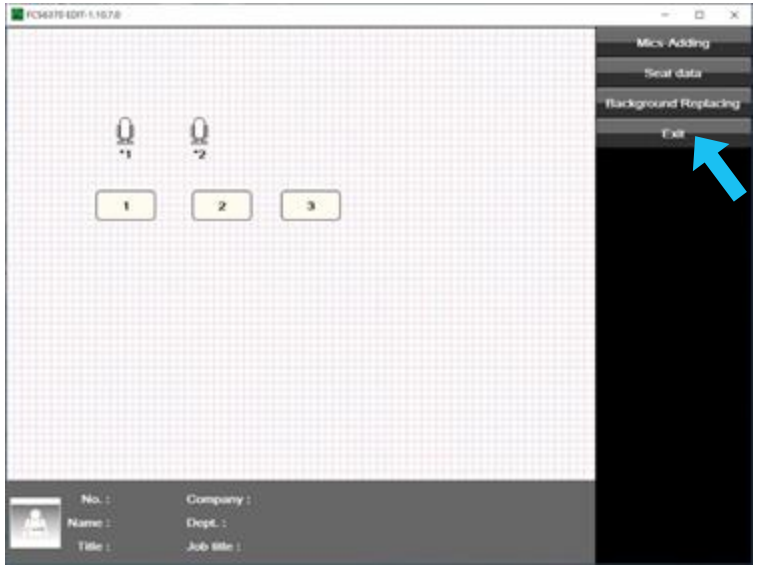
EDIT Software

Seat Arrangement

17



18



Click “Open a file” to upload background graphics in JPG or BMP format; or click “Clear” to clear background file uploaded before. Click “Background Replacing” again to close the menu.

After editing, click “Exit” to return to the main menu.

EDIT Software

Agenda

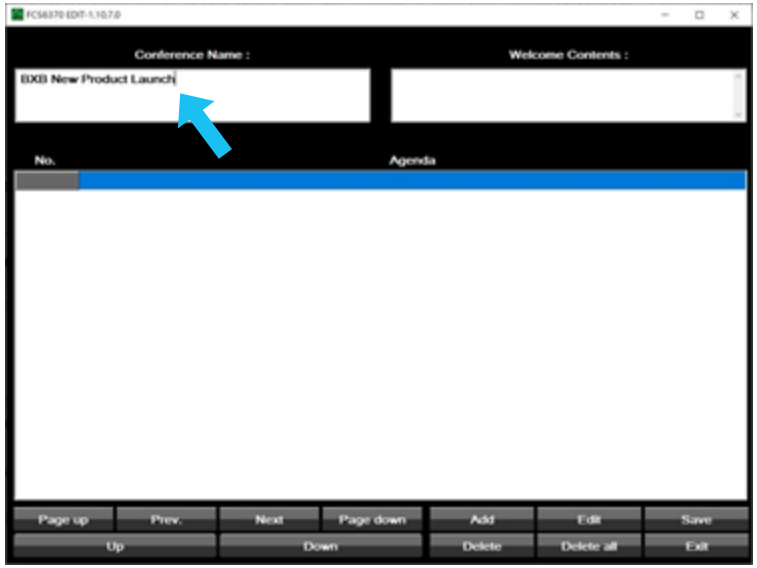
Edit displayed information of agenda. If the “Operate Software” server is connected to a monitor, it can show the related information during the conference.

1



Click “Agenda” to enter the editing page of agenda.

2

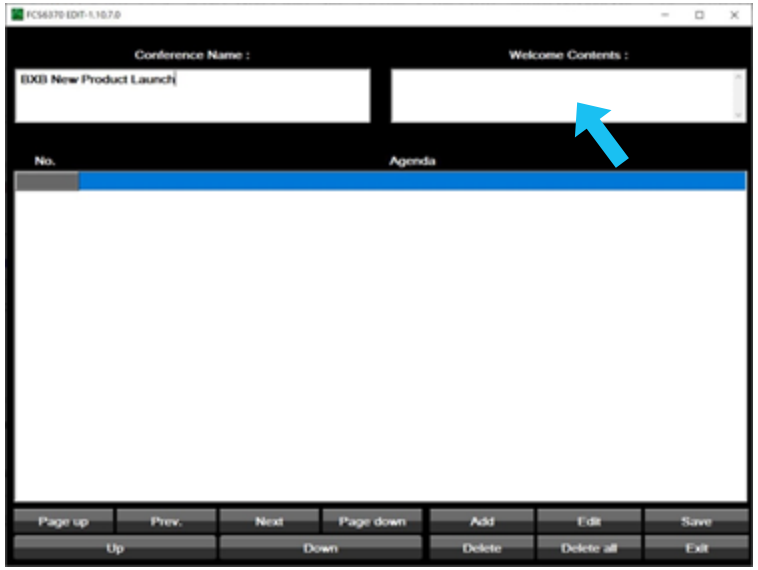


Enter the name of this conference in “Conference Name”

EDIT Software

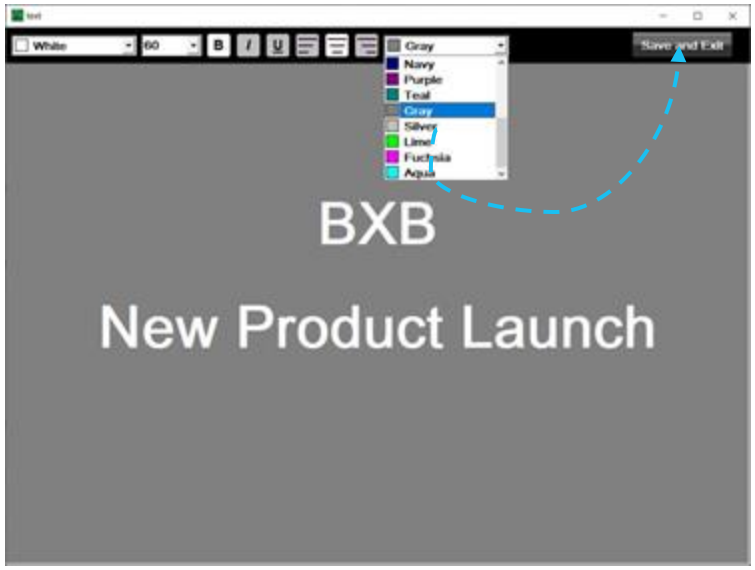
Agenda

3



Click “Welcome Contents” to open the editing window.

4

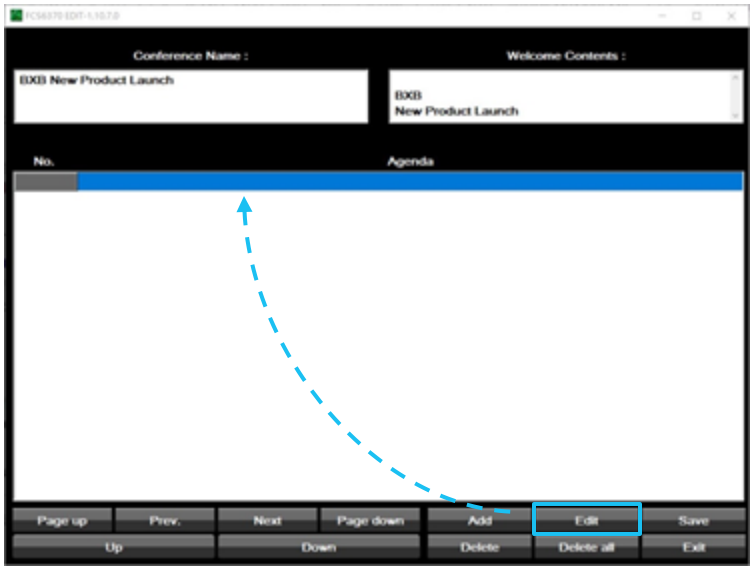


Enter the related information sequentially and adjust font color, font size, background color etc. After completing editing, you can click “Save and Exit”.

EDIT Software

Agenda

5



6



Click “Add” to add agenda, then double click in the agenda list; or click “Edit” to open agenda editing window.

Enter related information sequentially and adjust font color, font size, background color, etc. After competing editing, you can click “Save and Exit”.

EDIT Software

Agenda

7



After completing editing, click “Save”, then click “Yes”.

EDIT Software

Voting

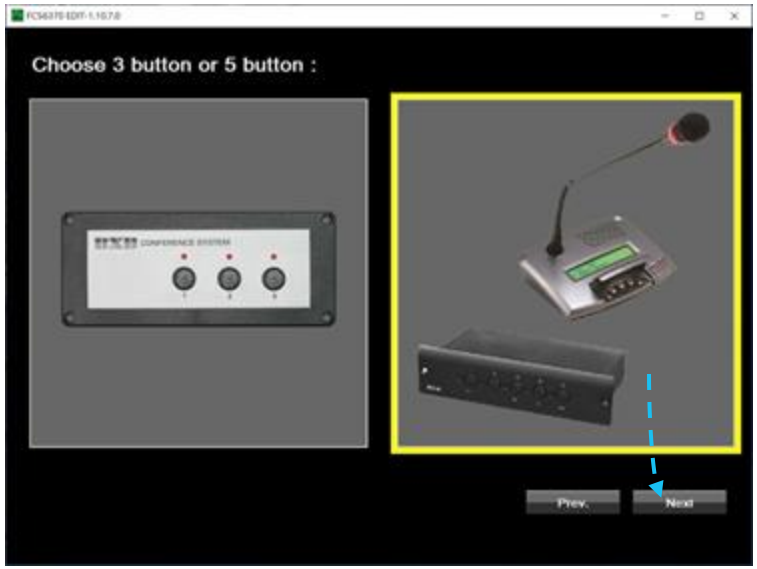
You can edit voting processes and perform voting function when the conference system is used along with voting units.

1



Click “Voting” to enter the editing page for voting agenda.

2

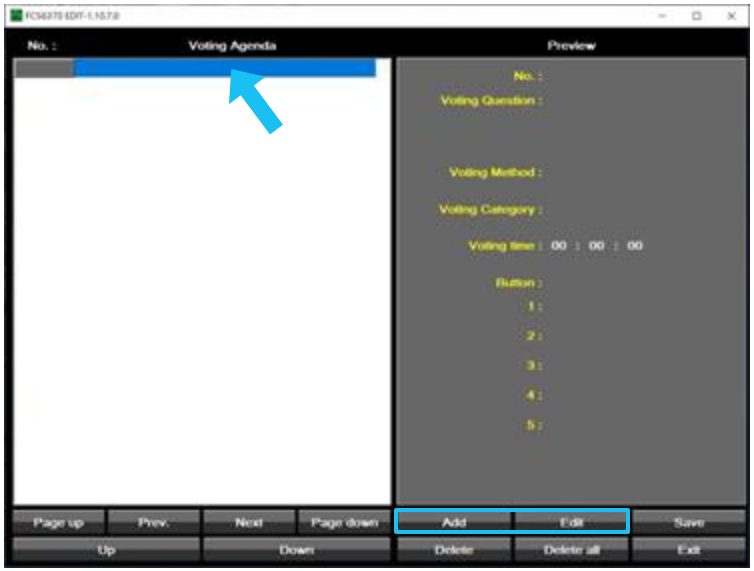


Choose the voting module used along with the conference system.

EDIT Software

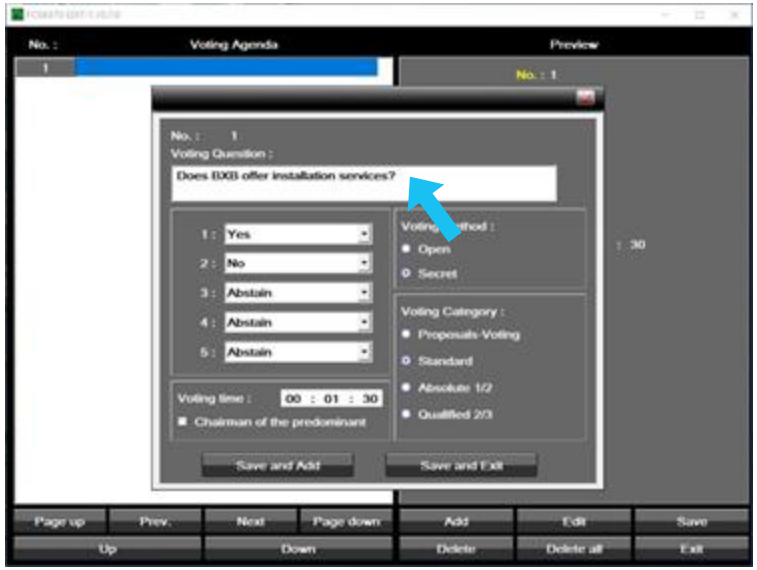
Voting

3



Double click the voting list or click “Add” then click “Edit” to enter editing page.

4

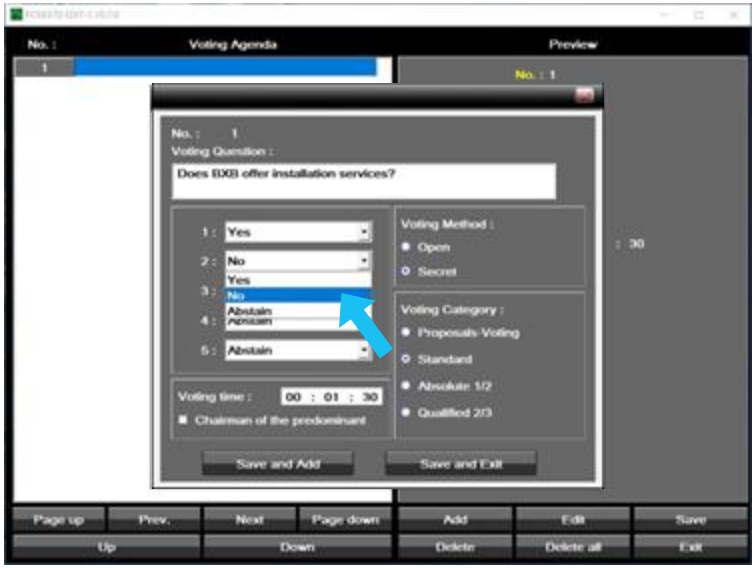


Key in the name of voting agenda.

EDIT Software

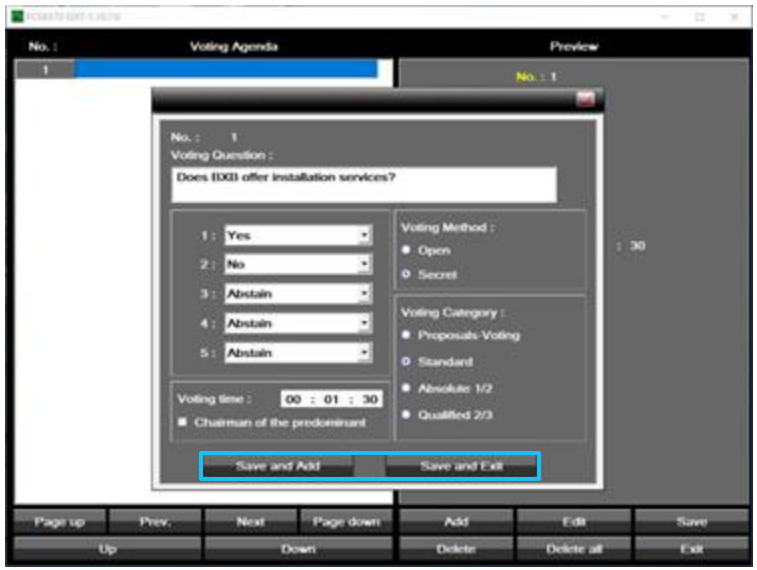
Voting

5



Set up the voting definition for each button of the voting unit module sequentially.

6



Enter settings such as “Voting time”, “Voting Method”, “Voting Category” etc. After completion, click “Save and Add” to add other agendas continuously; or click ”Save and Exit” to finish editing.

EDIT Software

Voting

7



To modify or delete voting agenda, select the agenda first and then click “Edit”, “Delete” for changing.

8



After editing, click “Save” then click “Yes” to save the voting agendas.

EDIT Software

Camera Setting

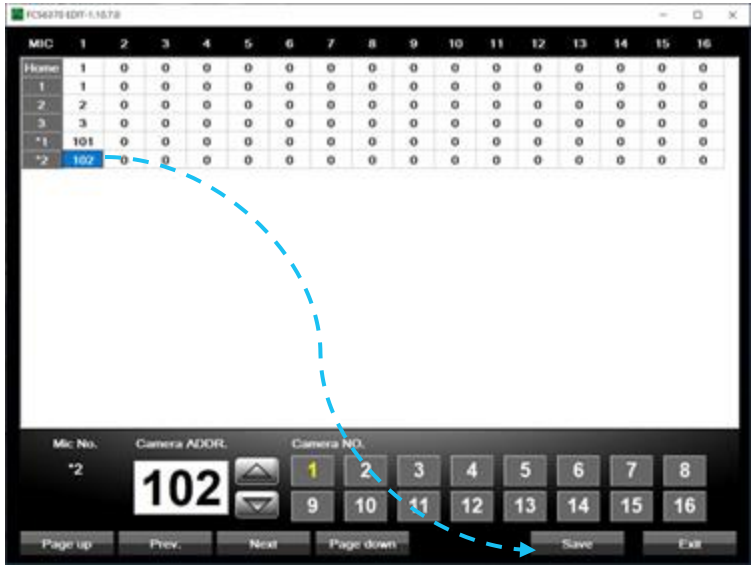
You can configure the camera which connects the conference main control through RS-485 to perform video tracking function and the corresponding data of microphone unit ID and camera preset point.

1



Click ”Camera Setting” to enter the editing page.

2



Set up the camera preset point No. corresponding to the microphone unit sequentially. After completion, click “Save”.

EDIT Software

Data Export

Export the data to the configuration file as backup, or use ”Data Import” in the “Operate Software” to perform conference functions.

1



Click “Data Export” to create the configuration file.

2



Select the storage space and enter the file name, after then, click “Save” to create the configuration file.

EDIT Software

Data Import

You can import the configuration data generated before into “EDIT Software” to perform modifications of related information.

1



2



Click “Data Export” to apply the configuration file.

Select the storage space and enter the file name, after then, click “Save” to apply the configuration file.

EDIT Software

Software Update

You can update software version through “Manually Update” or “Online Update”.

1



Click “Software Update” to open the menu.

2



Click “Manually Update” and select the BXB FCS graphical control software update file to perform manual update. For “Online Update”, you need the normal connection with external network. The graphical control software will download files from cloud space by itself to upgrade the software version.

EDIT Software

Exit

After completing editing, close “EDIT Software”.



Click “Exit” to close “EDIT software”.

OPERATE Software

Start Using

Operate Software operates related conference functions through importing configuration file created by “EDIT software”.

1



2



Click “FCS6370 Operate” to open SERVER graphical control software.

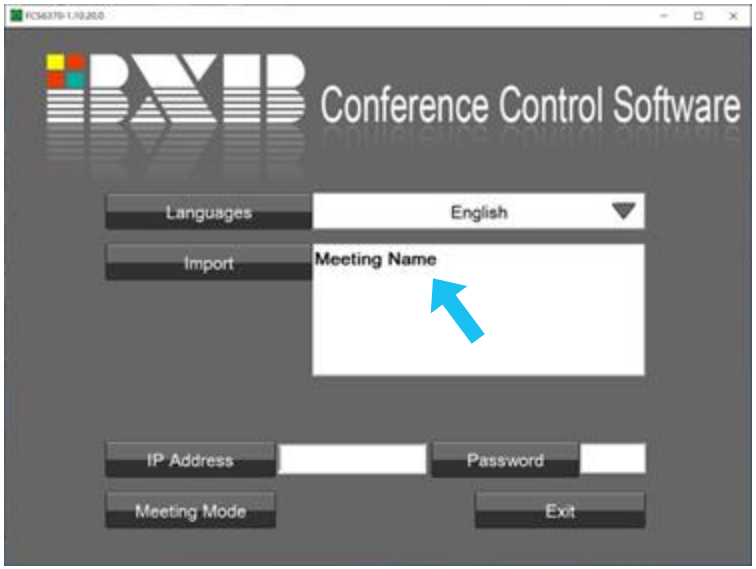
Select the display language under “Language”.

OPERATE Software

Data Import

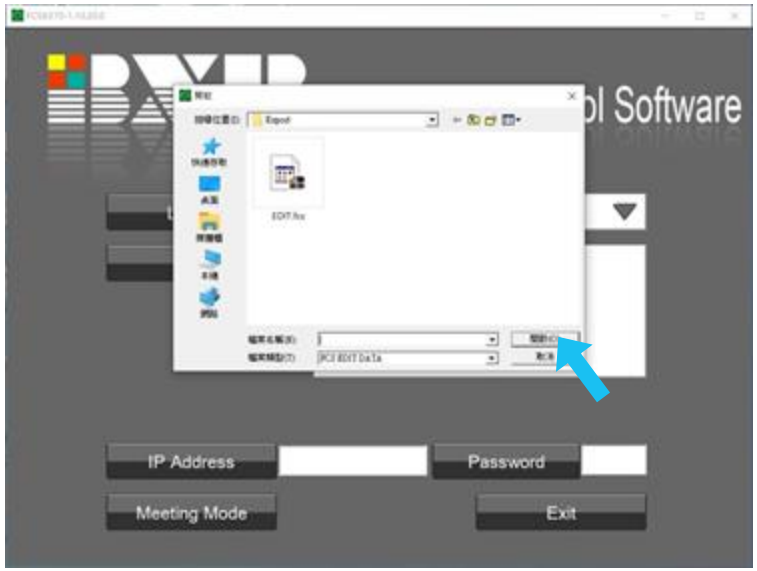
Operate Software operates related conference functions through importing configuration file created by “EDIT Software”.

1



Click the meeting name to apply the configuration file.

2



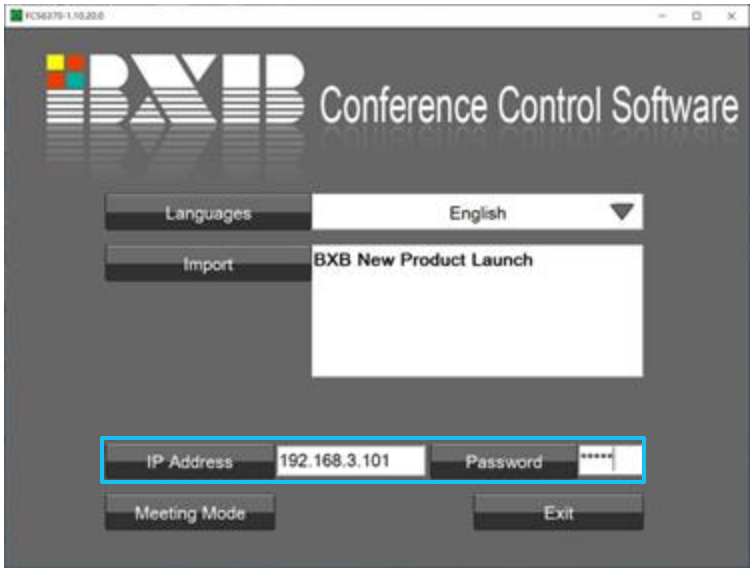
Select the configuration file created by EDIT Software and then apply. There will be a reminding message after successful importing.

OPERATE Software

Login via Network

Conference main control unit performs the verification for login to the graphical control software through network.

1



2



Enter FCS-6350 IP Address. The IP address can be found under “Advanced Menu” > “Network Set”; then enter the password (default is 00000).

Click “Meeting Mode” to enter the graphical control software page of Operate Software.

OPERATE Software

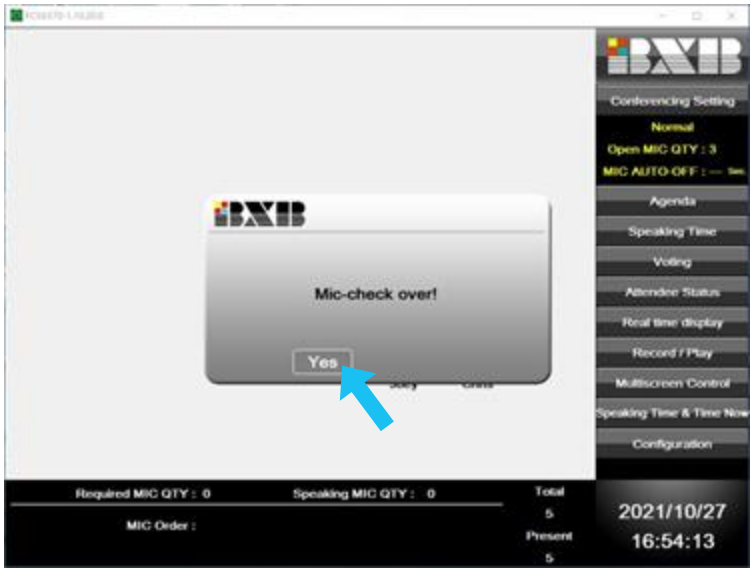
Status Synchronization

This is for the initial verification of Operate Software. The data such as “Unit Speaking Status” will be synchronized with FCS-6350 main control unit.

1



2



After successful verification, Operate Software will perform the status synchronization with FCS-6350.

After completing status synchronization, the reminding message of “Mic-check over!” will appear. Click “Yes” to close the reminding window.

OPERATE Software

Speaking Control

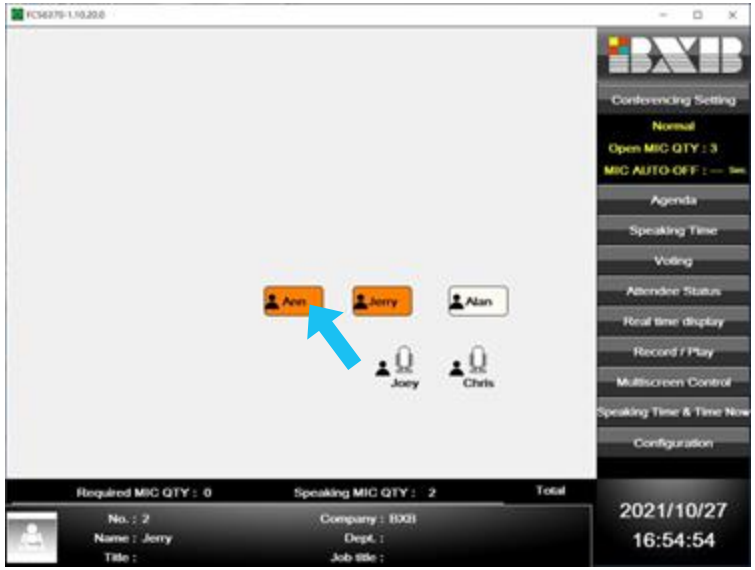
Perform speaking status control for the conference units that have applied in the unit control page.

1



Click the unspeaking unit block (white) to activate the speaking.

2



Click the speaking unit block (orange) to deactivate the speaking.

OPERATE Software

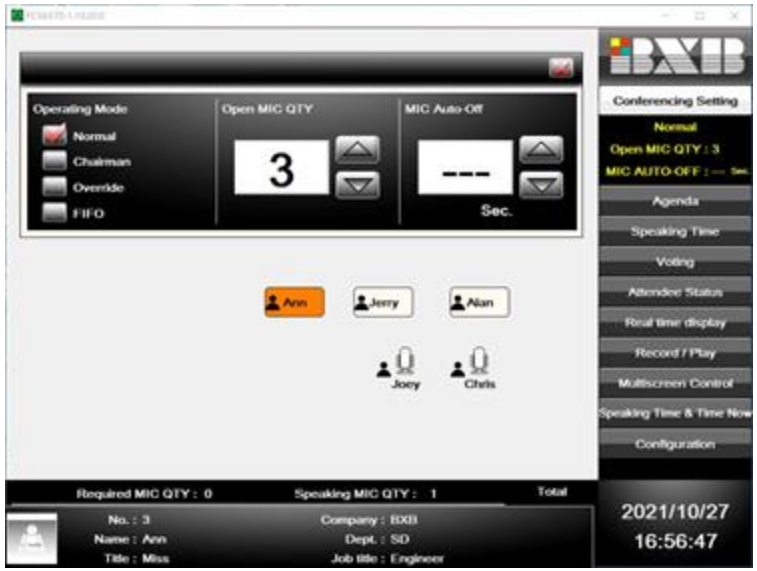
Conferencing Setting

Modify FCS-6350's operating mode, Open MIC Qty, MIC Auto-Off etc.

1



2



Click "Conferencing Setting" to open the management menu.

You can check "Operating Mode" or configure the value of "Open MIC QTY" and "MIC Auto-Off" under the management menu.

OPERATE Software

Agenda

Apply the configuration file of EDIT Software. You can click sequentially to show the reminding information pages of related agenda.

1



Click “Agenda” to open the management menu.

2



Click “Welcome Contents” to call out the information edited before.

OPERATE Software

Agenda

3



4



You can drag the welcome contents to the monitor of the meeting room to show the message.

Click “Agenda” to call out the information edited before.

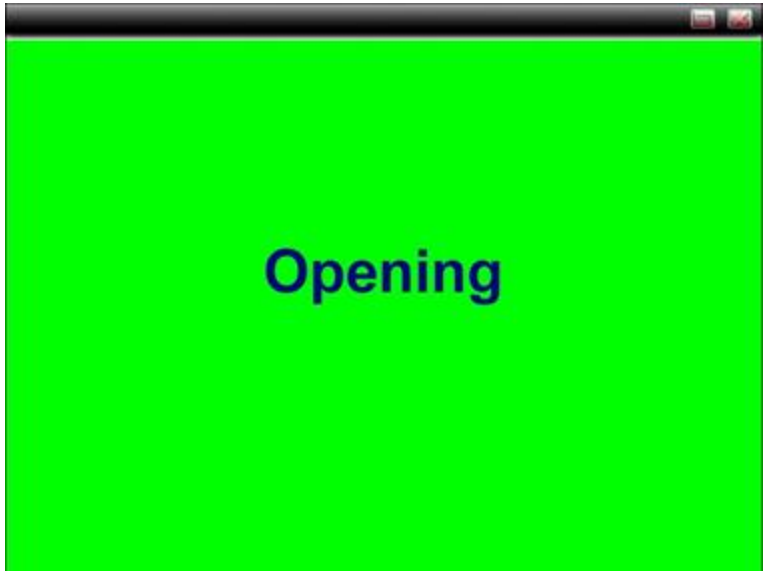
OPERATE Software

Agenda

5



6



Click related agenda to project the agenda information edited before.

The screen of agenda will be projected to the monitor connected with Operate Software.

OPERATE Software

Agenda

7



Show the speaking order on the monitor of Operate Software to remind the attendee preparing for speaking.

OPERATE Software

Speaking Time

Configure the timer to remind the speaking delegate for the speaking time.

1



Click “Speaking Time” to open the setting menu.

2



After setting the speaking time, click “Start” to start count-down.

OPERATE Software

Speaking Time

3



4



During the count-down, the remaining speaking time will be shown. You can add time, pause count-down, or stop count-down.

After time is up, all the speaking units will be turned off.

OPERATE Software

Voting

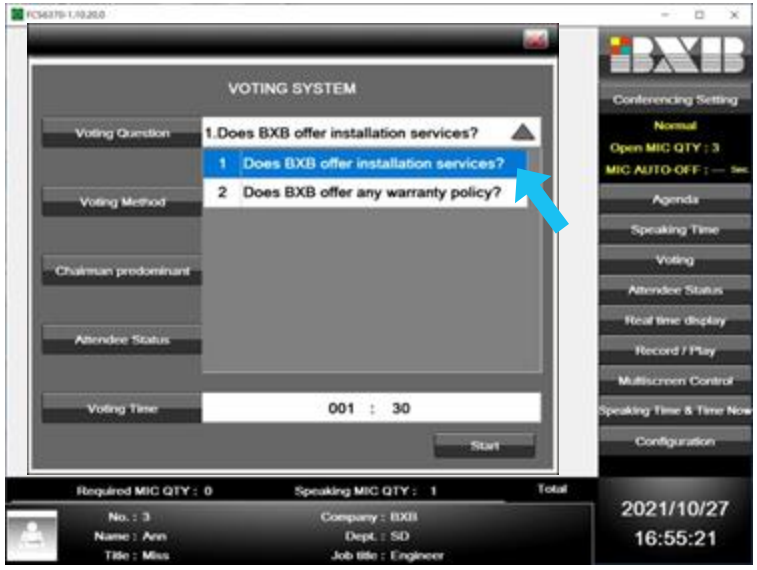
Operate Software can be used along with voting module such as FCS-6315 to perform voting process.

1



Click “Voting” to open the management menu.

2

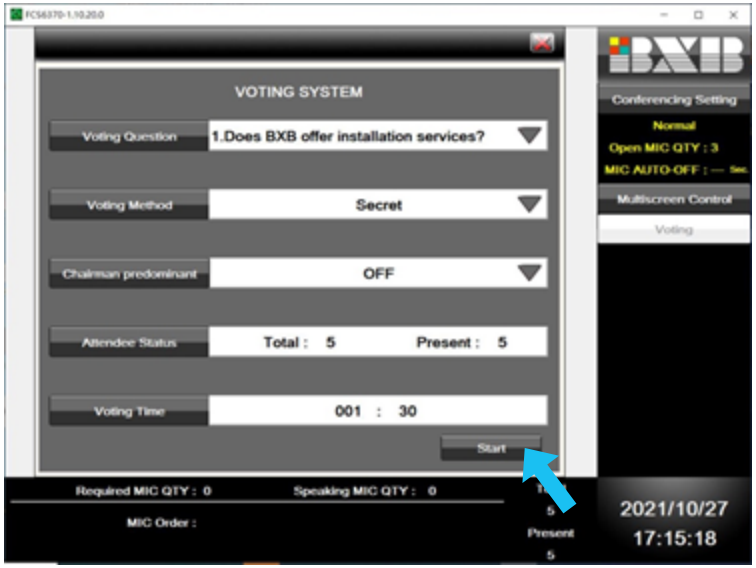


Select the voting question edited before.

OPERATE Software

Voting

3



Click “Start” to start voting.

4

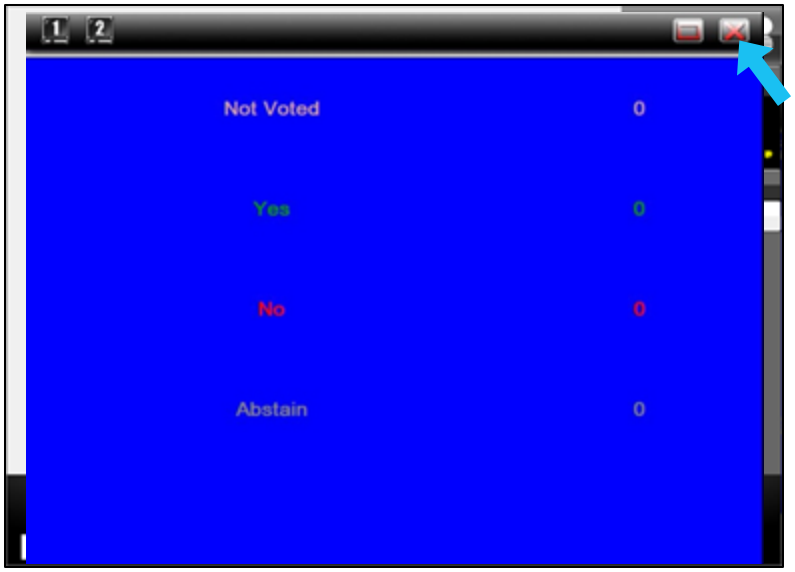


During the voting, the remaining voting time will be shown along with reminding audio effect.

OPERATE Software

Voting

5



6



After the voting time finished, the voting result will be shown. Click “X” to close the window.

You can “Save” the voting result or create report of the voting result on the Operate Software page. Click ”End voting mode” to finish voting function.

OPERATE Software

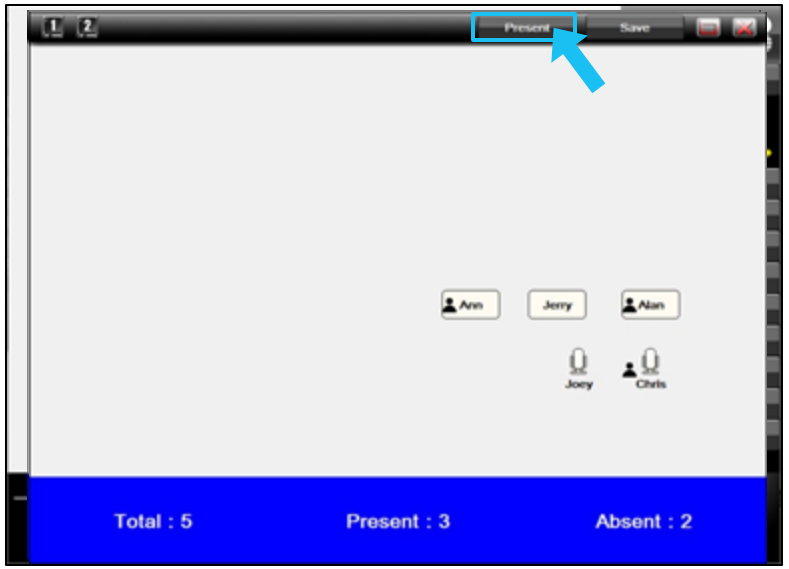
Attendee Status

RFID module or voting module can be used for roll call of attendee, counting the attendee number, and calculating for voting.

1



2



Click “Attendee Status” to open the management menu.

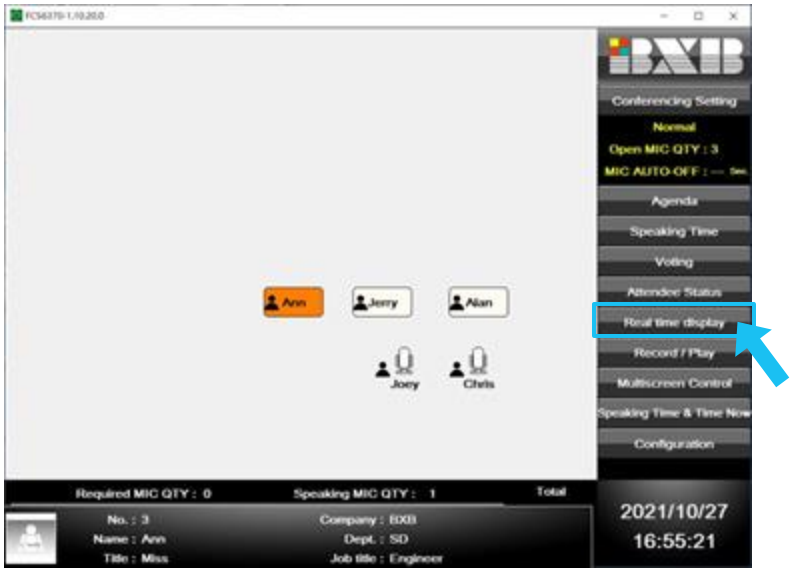
Click ”Present” and set the time, then start to perform the roll call for the attendees. Attendees can take attendance through the insertion of RFID card or pressing the function button of the voting module FCS-6315 / 6316.

OPERATE Software

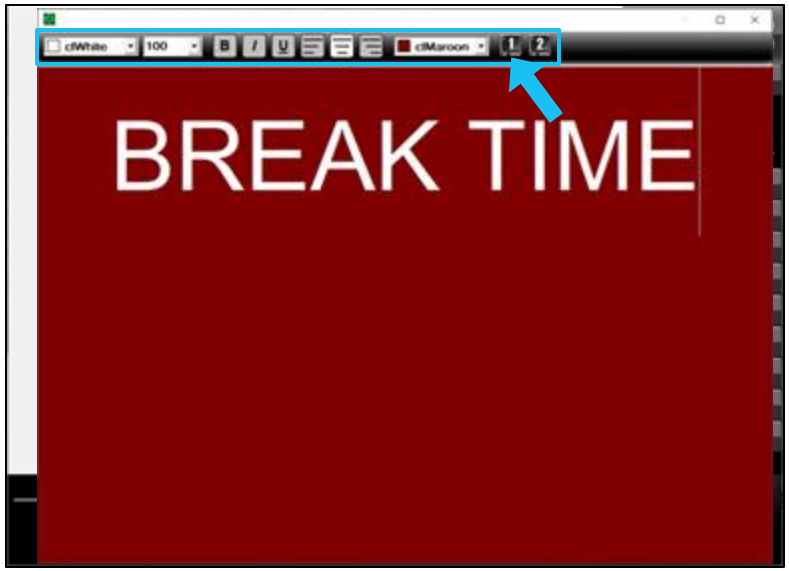
Real Time Display

Open “Real time display” window, enter text messages and adjust the font color, font size etc. to project the real-time message.

1



2



Click “Real time display” to open the editing window.

Enter text message sequentially and adjust the font size, font color etc. You can select to project them on the monitor for display.

OPERATE Software

Record / Play

Start / stop recording or play recording file by connecting FCS-6350 through USB.

1



2



Click “Record / Play” to open the management window.

You can click “Record” icon to start recording and click “Stop” icon to stop recording. You can also manage the previous recording files for playback as well.

OPERATE Software

Multiscreen Control

You can manage the projected information.

1



2



Click “Multiscreen Control” to open the management window.

If there are messages under projection, the icon will be highlighted with color and show the projection monitor number. Click to change its projection monitor.

OPERATE Software

Speaking Time / Time Now

Display the speaking time and current time.

1



2



Click “Speaking Time / Time Now” to open the management window.

Along with the speaking time function menu, the information about current time and speaking time will be shown on the management window at the same time.

OPERATE Software

Configuration

Perform advanced settings of related function such as video tracking mode and meeting volume.

1



2



Click “Configuration” to open the management menu.

”Video Tracing Mode”” can configure the camera connected with FCS-6350 through RS-485.

- Button: start tracking once the talk button of the microphone unit is pressed.
- Voice: start tracking once the microphone unit detects voice input.
- None: video tracking function is not performed.

OPERATE Software

Configuration

3



4



Seat Info Display: configure the display style of the unit block.

- Name: show the attendee's name applied with the corresponding configuration file.
- ID: show the ID of that unit block.
- RFID: register with the RFID module and show the attendee data.
- Seats reverse: flip the position of the edited unit block.

Attendee Info: configure the display mode of the applied corresponding attendee data.

- ON: show data when click the unit block on the operation page.
- OFF: doesn't show data when click unit block on the operation page.
- Two Pictures: whether to show the icon uploaded in the attendee data.

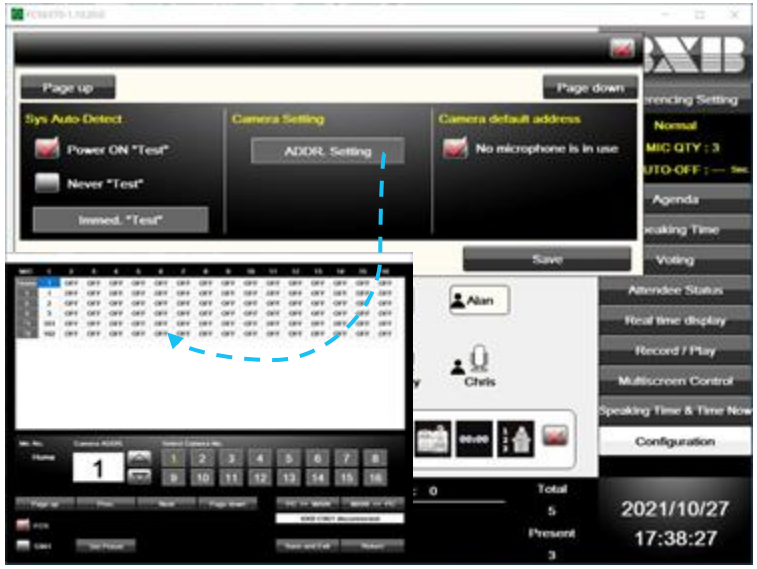
OPERATE Software

Configuration

5



6



Sys Auto-Detect: configure if the conference units will be detected after login.

- Power On “Test”: detects after logging in Operate Software.
- Never “Test”: detection is not performed from next login.
- Immed. “Test”: detects and scans the moment you click the function.

Camera Setting: configure the corresponding data of microphone unit and camera preset point to perform video tracking.

Configuration

7



Check “No microphone is in use”. The video tracking image will be switched back to HOME point when all units are turned off.

8



”Volume Adjustment” configures the volume level of the audio source channels of FCS-6350.

- Conference: system Lineout volume of FCS-6350.
- Microphone: volume of FCS-6350 MIC in.
- Aux: volume of FCS-6350 AUX in.

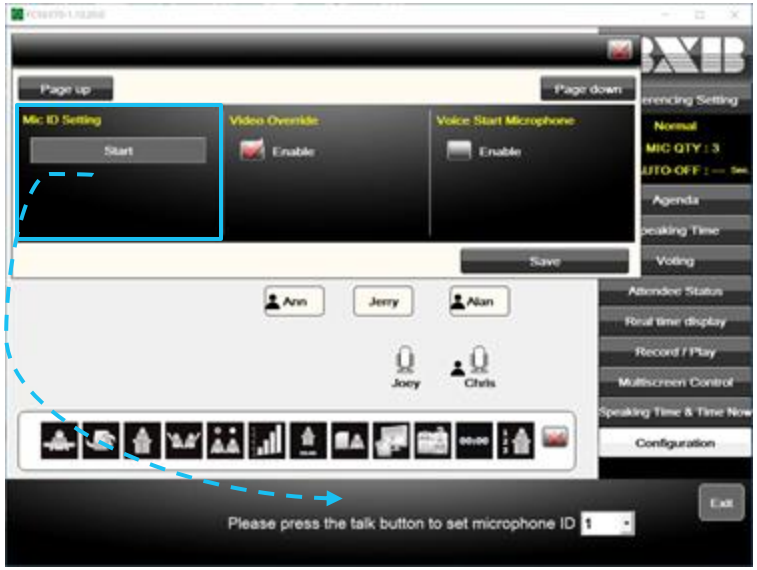
OPERATE Software

Configuration

9



10



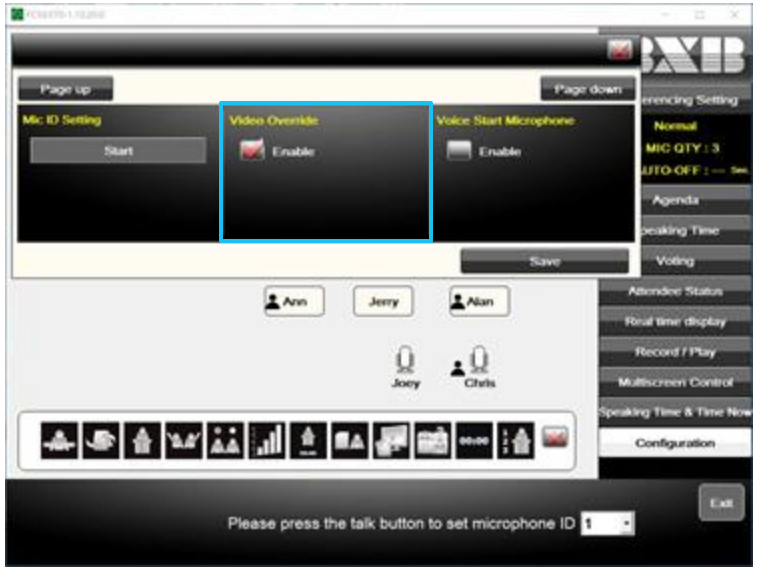
”Recording”: Operate Software connects FCS-6350 through USB and performs bidirectional audio source transmission. When microphone units turns on / off, the system would record automatically.

”Mic ID Setting”: click “Start” to enter the unit ID setting mode. After setting the unit ID, click the “Talk button” on the microphone unit to apply the ID. You can apply the ID incrementally. To finish setting, click “Exit” to finish the setting mode.

OPERATE Software

Configuration

11



12



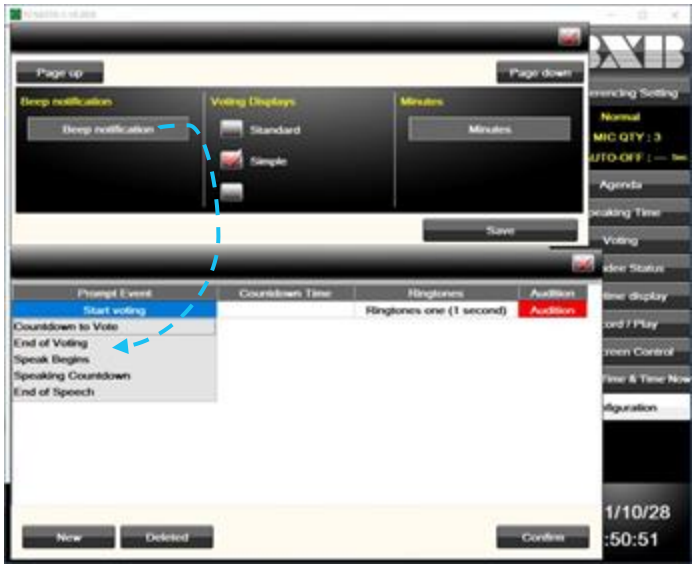
”Video Override” can configure whether camera performs video override function when FCS-6350 is used with video controller. You can check it to activate or deactivate.

”Voice Start Microphone” can configure whether the microphone unit automatically turns on / off microphone unit as receiving voice input.

OPERATE Software

Configuration

13



14



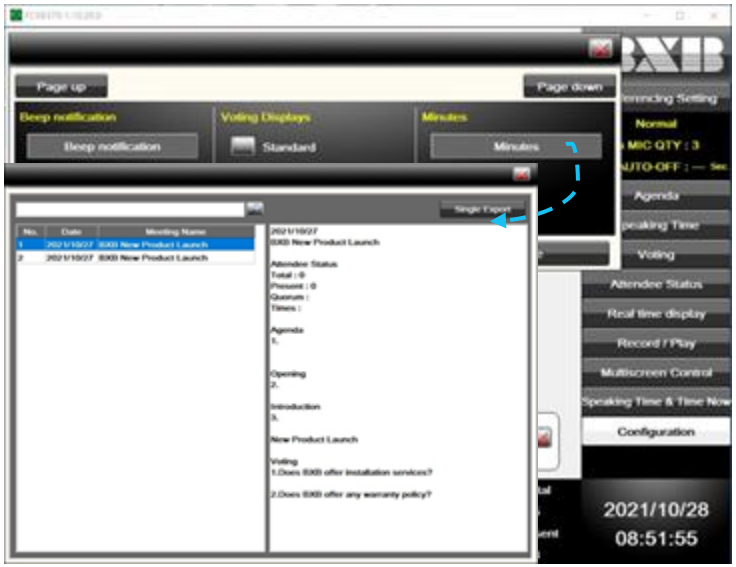
”Beep notification”: open the alert ringing menu, including “Countdown to Vote”, “End of Voting”, “Speak Begins” etc.

”Voting Displays”: select the display mode of the related voting information.

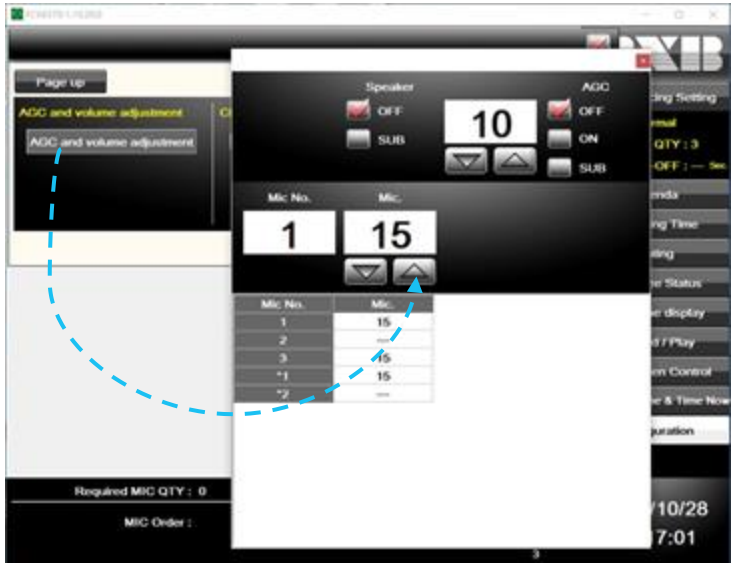
OPERATE Software

Configuration

15



16



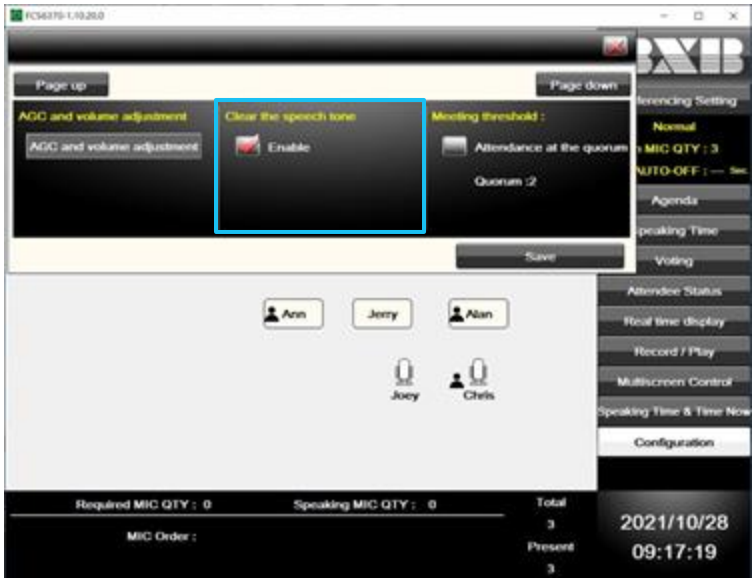
”Minutes” is configured to save meeting minutes when finishing Operate Software. You can click it to open the historic record and export the minutes as RTF file.

”AGC and volume adjustment”: opens the setting menu which can configure the volume respectively for each microphone unit.

OPERATE Software

Configuration

17



To configure whether the alert audio effect turns on / off when the chairman operates the chairman function button to change conference mode or clear the current speaking unit status.

18



”Meeting threshold” is configured along with attendance roll call function as the judgement criteria for voting and alike.

OPERATE Software

Configuration

19



20

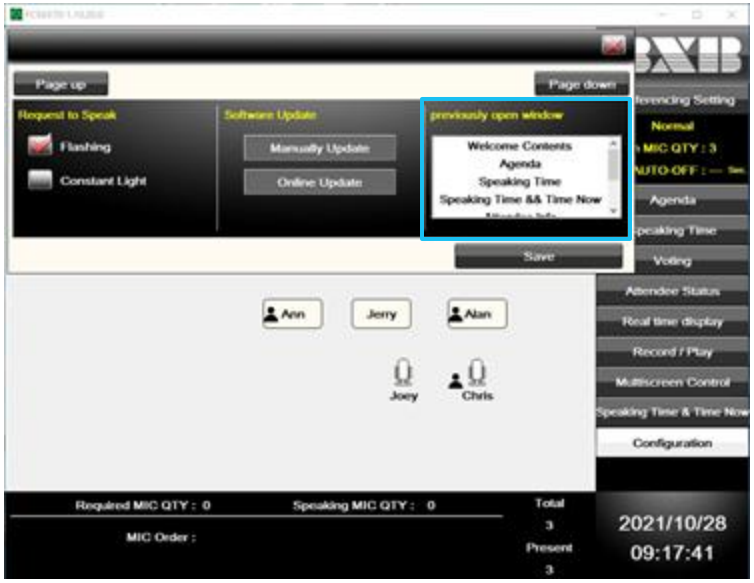


”Request to Speak” is operated under the chairman mode. When the delegate short presses the speaking button to request for speaking, the indicator ring of the gooseneck microphone is flashing or being constant light.

For ”Software Update”, you can click “Manually Update” and select BXB FCS graphical control software update file to perform manual update. For “Online Update”, you need the normal connection with external network. The graphical control software will download files from cloud space by itself to upgrade the software version.

Configuration

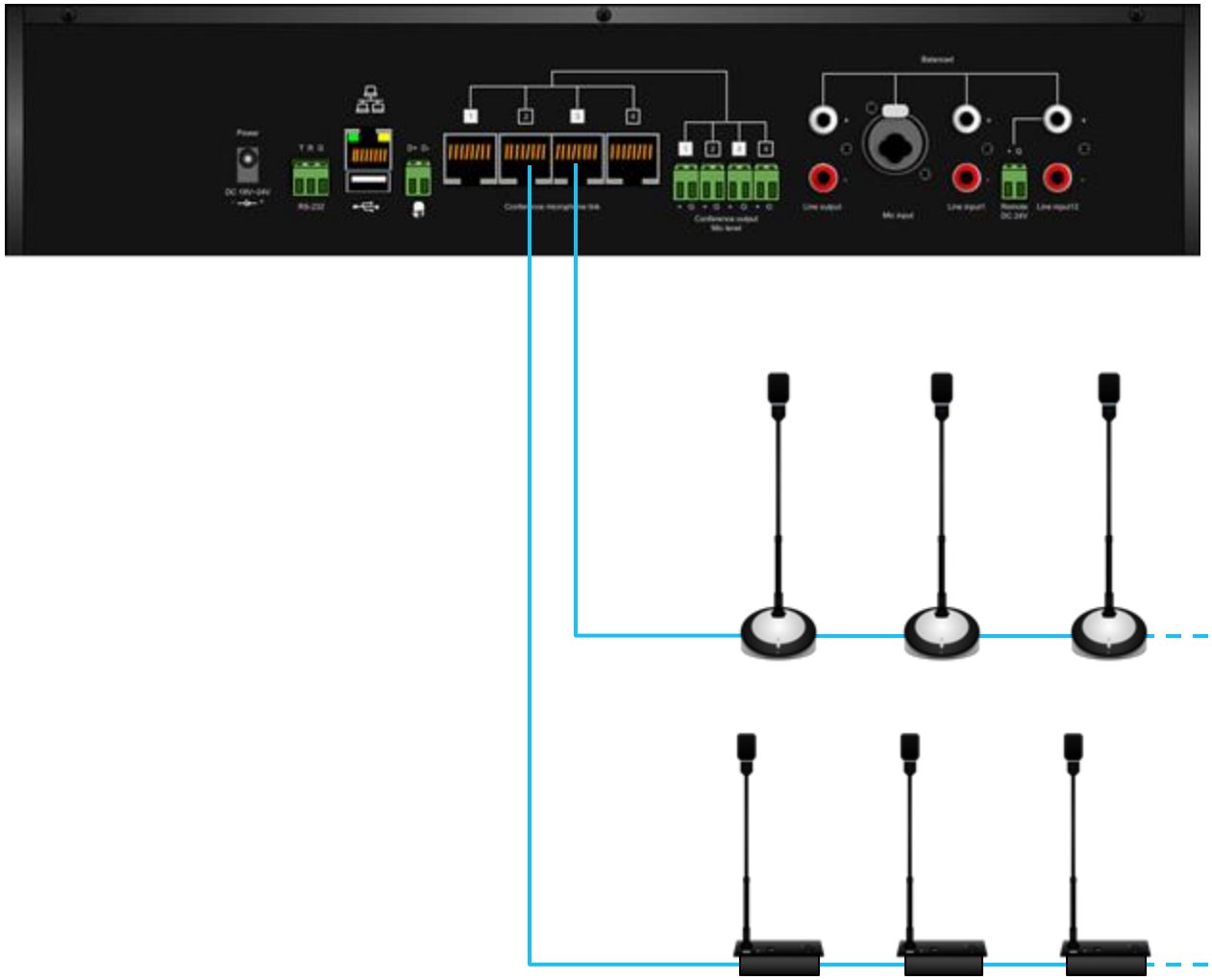
21



”Previously open window”: after selection the displayed item, Operate Software will open the window of the selected item beforehand after next login.

Appendix

Cabling- Daisy-chain Topology

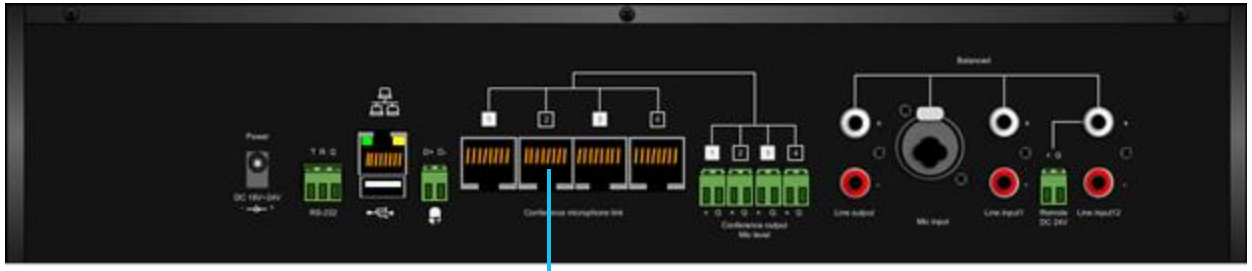


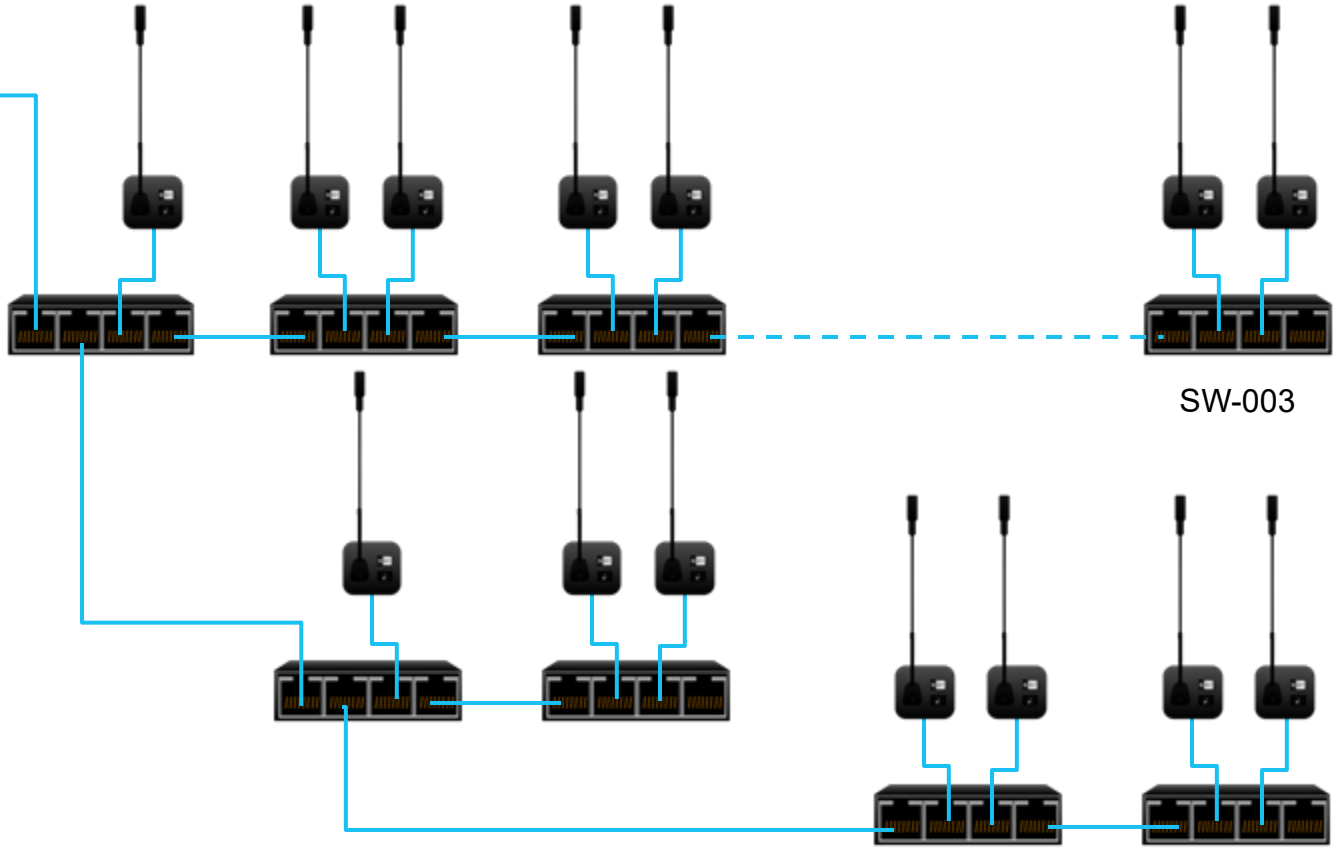
For UFO series unit, the recommended max. number of connection is 20 for each loop. It is necessary to connect EPS-C083-C Extension Power Supply once exceeding this number.

For FCS-6321 / 6322 units, the recommended max. number is 20 for each loop. It is necessary to connect EPS-C083-C Extension Power Supply once exceeding this number.

Appendix

Cabling- Tree Topology

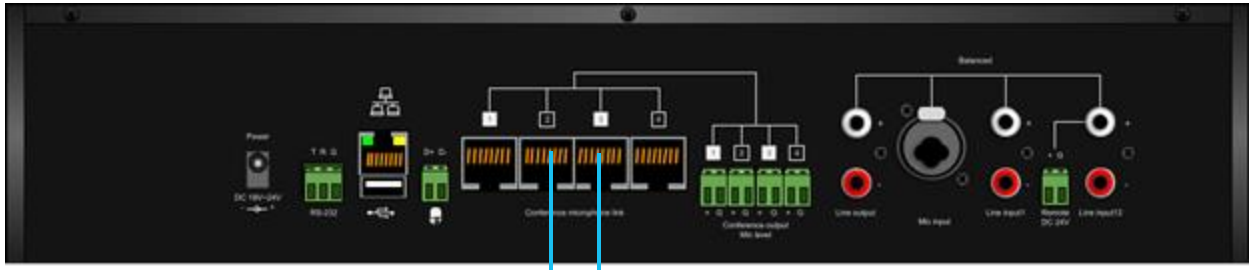




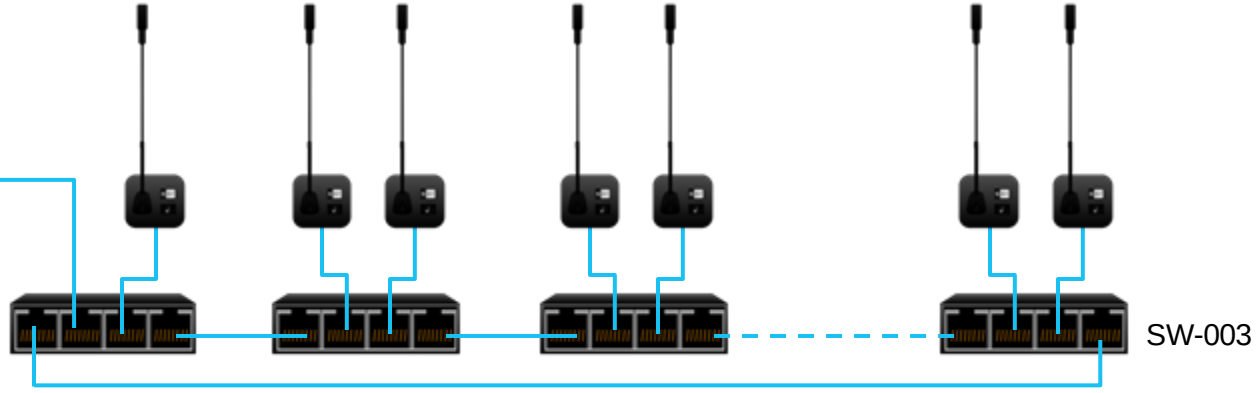
For FUN series unit, the recommended max. number of connection is 15 for each loop. It is necessary to connect EPS-C083-C Extension Power Supply once exceeding this number.

Appendix

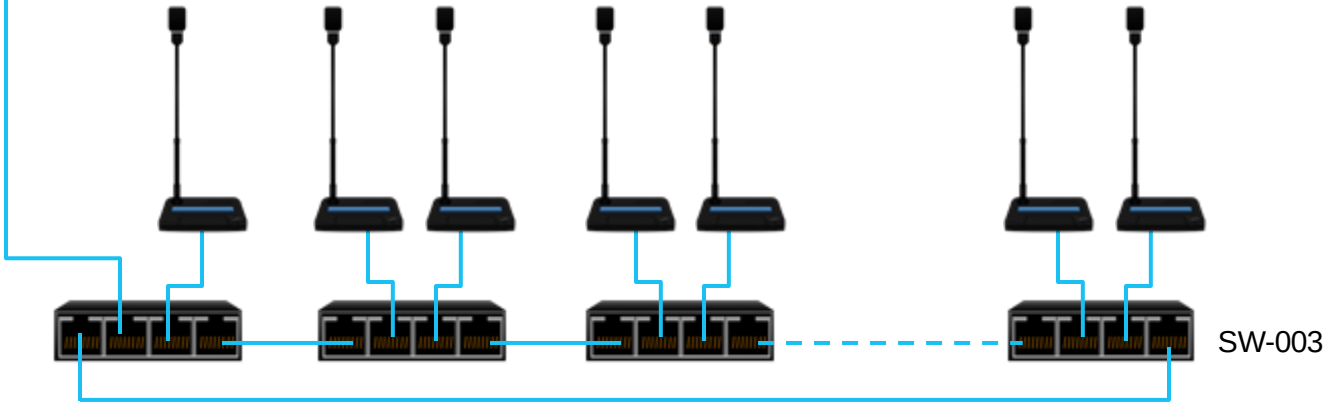
Cabling- Ring Topology



For FUN series units, the recommended max. number of connection is 15 for each loop. It is necessary to connect EPS-C083-C Extension Power Supply once exceeding this number.



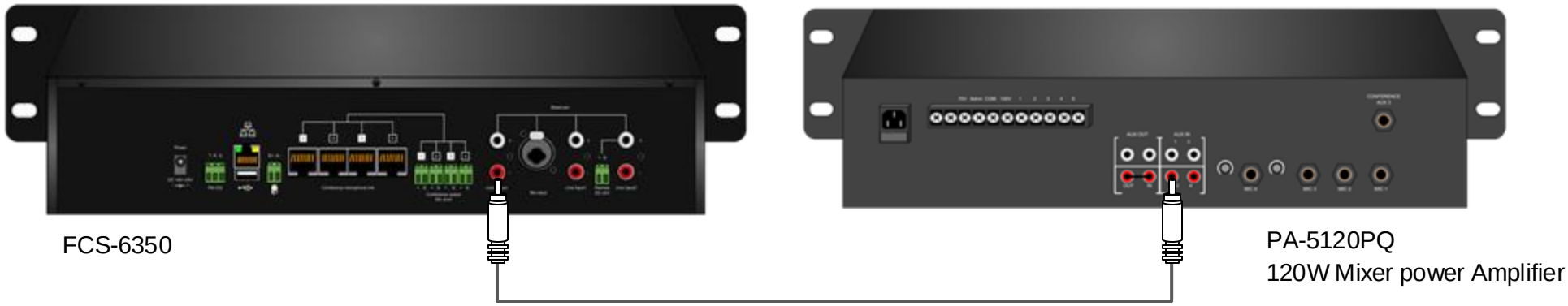
For FCS-6315 / 6316 units, the recommended max. connection number is 8 for each loop. It is necessary to connect EPS-C083-C Extension Power Supply once exceeding this number.



Appendix

Conference Audio Output

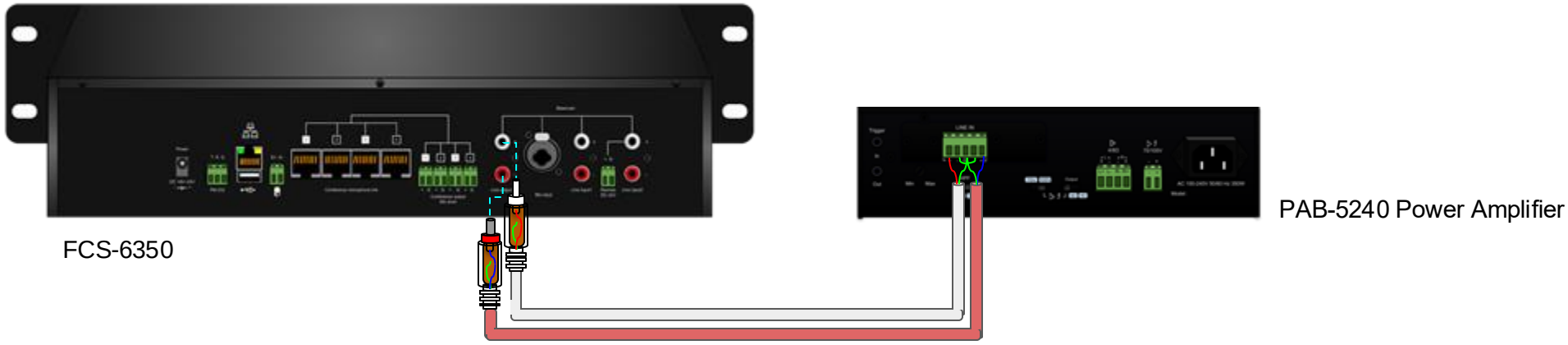
1 Unbalanced output: select single port for output and then connect to the unbalanced line input of an amplifier.



FCS-6350

PA-5120PQ
120W Mixer power Amplifier

2 Balanced output: select two ports for output and then connect to the balanced line input of an amplifier.

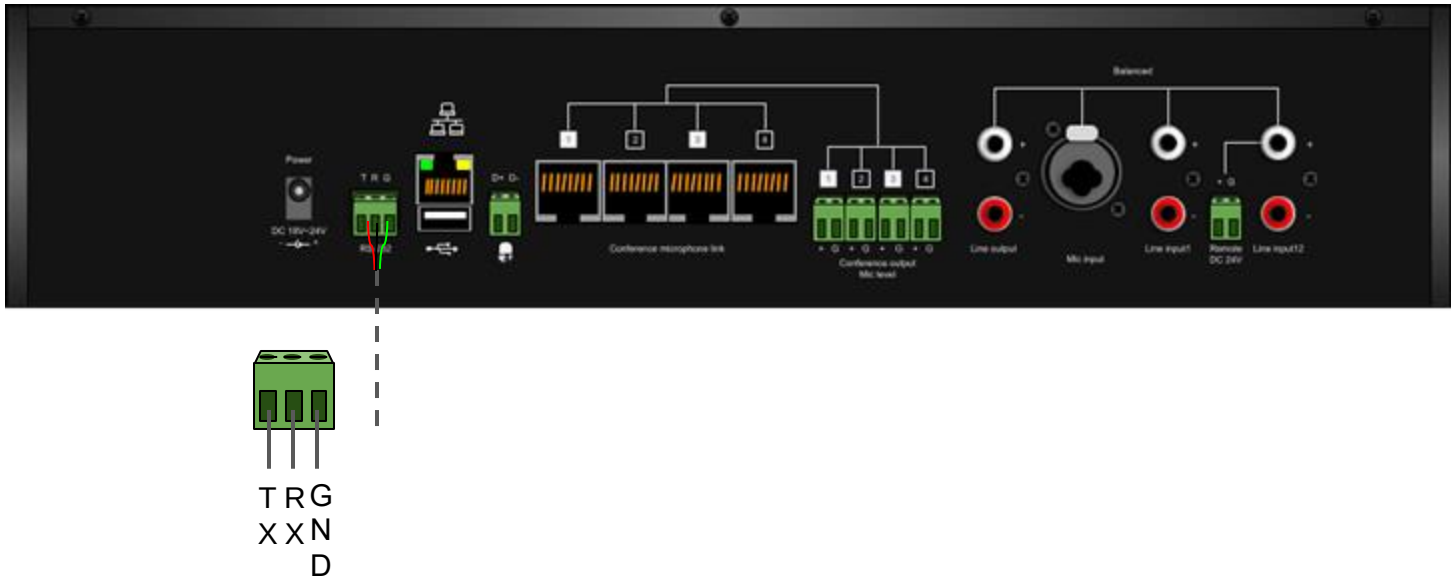


FCS-6350

PAB-5240 Power Amplifier

Appendix

RS-232 Communication Control



Control protocol	RS-232
Baud rate	9600
Data length	8
Parity	None
Stop bit	1
Flow control	None

Appendix

RS-232 Control Command

Description	Byte1	Byte2	Byte3	Byte4
Switch operating mode	BA	00 ~ 03 (2)	55	End_Code (1)
Open Mic Qty	BB	00 ~ 30 (3)	55	End_Code (1)
Mic Auto-off	BC	AA	10 ~ 63 (4)	End_Code (1)
Turn on microphone unit	BD	00 ~ 03 (5)	00 ~ FF (5)	End_Code (1)
Turn off microphone unit	BE	00 ~ 03 (5)	00 ~ FF (5)	End_Code (1)
Button tracking mode	CA	AA	55	35
Voice tracking mode	CB	AA	55	34
Turn off video tracking function	CD	AA	55	32

1) End_Code = Byte1 xor Byte2 xor Byte3
2) Operating mode: 0 = Normal; 1 = Chairman; 2 = Override; 3 = FIFO
3) Open Mic Qty: 01~1E = 1~30; 00 = unlimited
4) Mic Auto-off time: 10~63 = 10 sec. ~ 99 sec.; 00 = unlimited
5) Microphone unit ID = Byte2 + Byte3

Appendix

RS-232 Status Response

Description	Byte1	Byte2	Byte3	Byte4
Switch operating mode	04	00 ~ 03 (2)	00 ~ 02 (3)	End_Code (1)
Turn on microphone unit	05	00 ~ 03 (4)	00 ~ FF (4)	End_Code (1)
Turn off microphone unit	06	00 ~ 03 (4)	00 ~ FF (4)	End_Code (1)
Turn off all microphone units	0B	AA	55	F4
Back to Home point	0A	33	00 ~ 02 (3)	End_Code (1)

1) End_Code = Byte1 xor Byte2 xor Byte3
2) Operating mode: 0 = Normal; 1 = Chairman; 2 = Override; 3 = FIFO
3) Video tracking mode: 0 = Button; 1 = Voice; 2 = OFF
4) Microphone unit ID = Byte2 + Byte3

Appendix

RS-232 Command Chart

Description	Byte1	Byte2	Byte3	Byte4	備註
Normal mode	BA	00	55	EF	
Chairman mode	BA	01	55	EE	
Override mode	BA	02	55	ED	
FIFO mode	BA	03	55	EC	
Video tracking: button	CA	AA	55	35	Video tracking: button
Video tracking: voice	CB	AA	55	34	Video tracking: voice
Video tracking: OFF	CD	AA	55	32	Video tracking: OFF

Chairman ID	Unit ON				Unit OFF			
Chairman 1	BD	03	E8	56	BE	03	E8	55
Chairman 2	BD	03	E9	57	BE	03	E9	54
Chairman 3	BD	03	EA	54	BE	03	EA	57
Chairman 4	BD	03	EB	55	BE	03	EB	56
Chairman 5	BD	03	EC	52	BE	03	EC	51
Chairman 6	BD	03	ED	53	BE	03	ED	50
Chairman 7	BD	03	EE	50	BE	03	EE	53
Chairman 8	BD	03	EF	51	BE	03	EF	52
Chairman 9	BD	03	F0	4E	BE	03	F0	4D
Chairman 10	BD	03	F1	4F	BE	03	F1	4C

Appendix

RS-232 Command Chart

Delegate ID	Unit ON				Unit OFF			
001	BD	00	01	BC	BE	00	01	BF
002	BD	00	02	BF	BE	00	02	BC
003	BD	00	03	BE	BE	00	03	BD
004	BD	00	04	B9	BE	00	04	BA
005	BD	00	05	B8	BE	00	05	BB
006	BD	00	06	BB	BE	00	06	B8
007	BD	00	07	BA	BE	00	07	B9
008	BD	00	08	B5	BE	00	08	B6
009	BD	00	09	B4	BE	00	09	B7
010	BD	00	0A	B7	BE	00	0A	B4
011	BD	00	0B	B6	BE	00	0B	B5
012	BD	00	0C	B1	BE	00	0C	B2
013	BD	00	0D	B0	BE	00	0D	B3
014	BD	00	0E	B3	BE	00	0E	B0
015	BD	00	0F	B2	BE	00	0F	B1
016	BD	00	10	AD	BE	00	10	AE
017	BD	00	11	AC	BE	00	11	AF
018	BD	00	12	AF	BE	00	12	AC
019	BD	00	13	AE	BE	00	13	AD
020	BD	00	14	A9	BE	00	14	AA
021	BD	00	15	A8	BE	00	15	AB
022	BD	00	16	AB	BE	00	16	A8
023	BD	00	17	AA	BE	00	17	A9

Appendix

RS-232 Command Chart

Delegate ID	Unit ON				Unit OFF			
024	BD	00	18	A5	BE	00	18	A6
025	BD	00	19	A4	BE	00	19	A7
026	BD	00	1A	A7	BE	00	1A	A4
027	BD	00	1B	A6	BE	00	1B	A5
028	BD	00	1C	A1	BE	00	1C	A2
029	BD	00	1D	A0	BE	00	1D	A3
030	BD	00	1E	A3	BE	00	1E	A0
031	BD	00	1F	A2	BE	00	1F	A1
032	BD	00	20	9D	BE	00	20	9E
033	BD	00	21	9C	BE	00	21	9F
034	BD	00	22	9F	BE	00	22	9C
035	BD	00	23	9E	BE	00	23	9D
036	BD	00	24	99	BE	00	24	9A
037	BD	00	25	98	BE	00	25	9B
038	BD	00	26	9B	BE	00	26	98
039	BD	00	27	9A	BE	00	27	99
040	BD	00	28	95	BE	00	28	96
041	BD	00	29	94	BE	00	29	97
042	BD	00	2A	97	BE	00	2A	94
043	BD	00	2B	96	BE	00	2B	95
044	BD	00	2C	91	BE	00	2C	92
045	BD	00	2D	90	BE	00	2D	93
046	BD	00	2E	93	BE	00	2E	90

Appendix

RS-232 Command Chart

Delegate ID	Unit ON				Unit OFF			
047	BD	00	2F	92	BE	00	2F	91
048	BD	00	30	8D	BE	00	30	8E
049	BD	00	31	8C	BE	00	31	8F
050	BD	00	32	8F	BE	00	32	8C
051	BD	00	33	8E	BE	00	33	8D
052	BD	00	34	89	BE	00	34	8A
053	BD	00	35	88	BE	00	35	8B
054	BD	00	36	8B	BE	00	36	88
055	BD	00	37	8A	BE	00	37	89
056	BD	00	38	85	BE	00	38	86
057	BD	00	39	84	BE	00	39	87
058	BD	00	3A	87	BE	00	3A	84
059	BD	00	3B	86	BE	00	3B	85
060	BD	00	3C	81	BE	00	3C	82
061	BD	00	3D	80	BE	00	3D	83
062	BD	00	3E	83	BE	00	3E	80
063	BD	00	3F	82	BE	00	3F	81
064	BD	00	40	FD	BE	00	40	FE
065	BD	00	41	FC	BE	00	41	FF
066	BD	00	42	FF	BE	00	42	FC
067	BD	00	43	FE	BE	00	43	FD
068	BD	00	44	F9	BE	00	44	FA
069	BD	00	45	F8	BE	00	45	FB

Appendix

RS-232 Command Chart

Delegate ID	Unit ON				Unit OFF			
070	BD	00	46	FB	BE	00	46	F8
071	BD	00	47	FA	BE	00	47	F9
072	BD	00	48	F5	BE	00	48	F6
073	BD	00	49	F4	BE	00	49	F7
074	BD	00	4A	F7	BE	00	4A	F4
075	BD	00	4B	F6	BE	00	4B	F5
076	BD	00	4C	F1	BE	00	4C	F2
077	BD	00	4D	F0	BE	00	4D	F3
078	BD	00	4E	F3	BE	00	4E	F0
079	BD	00	4F	F2	BE	00	4F	F1
080	BD	00	50	ED	BE	00	50	EE
081	BD	00	51	EC	BE	00	51	EF
082	BD	00	52	EF	BE	00	52	EC
083	BD	00	53	EE	BE	00	53	ED
084	BD	00	54	E9	BE	00	54	EA
085	BD	00	55	E8	BE	00	55	EB
086	BD	00	56	EB	BE	00	56	E8
087	BD	00	57	EA	BE	00	57	E9
088	BD	00	58	E5	BE	00	58	E6
089	BD	00	59	E4	BE	00	59	E7
090	BD	00	5A	E7	BE	00	5A	E4
091	BD	00	5B	E6	BE	00	5B	E5
092	BD	00	5C	E1	BE	00	5C	E2

Appendix

RS-232 Command Chart

Delegate ID	Unit ON				Unit OFF			
093	BD	00	5D	E0	BE	00	5D	E3
094	BD	00	5E	E3	BE	00	5E	E0
095	BD	00	5F	E2	BE	00	5F	E1
096	BD	00	60	DD	BE	00	60	DE
097	BD	00	61	DC	BE	00	61	DF
098	BD	00	62	DF	BE	00	62	DC
099	BD	00	63	DE	BE	00	63	DD
100	BD	00	64	D9	BE	00	64	DA
101	BD	00	65	D8	BE	00	65	DB
102	BD	00	66	DB	BE	00	66	D8
103	BD	00	67	DA	BE	00	67	D9
104	BD	00	68	D5	BE	00	68	D6
105	BD	00	69	D4	BE	00	69	D7
106	BD	00	6A	D7	BE	00	6A	D4
107	BD	00	6B	D6	BE	00	6B	D5
108	BD	00	6C	D1	BE	00	6C	D2
109	BD	00	6D	D0	BE	00	6D	D3
110	BD	00	6E	D3	BE	00	6E	D0
111	BD	00	6F	D2	BE	00	6F	D1
112	BD	00	70	CD	BE	00	70	CE
113	BD	00	71	CC	BE	00	71	CF
114	BD	00	72	CF	BE	00	72	CC
115	BD	00	73	CE	BE	00	73	CD

Appendix

RS-232 Command Chart

Delegate ID	Unit ON				Unit OFF			
116	BD	00	74	C9	BE	00	74	CA
117	BD	00	75	C8	BE	00	75	CB
118	BD	00	76	CB	BE	00	76	C8
119	BD	00	77	CA	BE	00	77	C9
120	BD	00	78	C5	BE	00	78	C6
121	BD	00	79	C4	BE	00	79	C7
122	BD	00	7A	C7	BE	00	7A	C4
123	BD	00	7B	C6	BE	00	7B	C5
124	BD	00	7C	C1	BE	00	7C	C2
125	BD	00	7D	C0	BE	00	7D	C3
126	BD	00	7E	C3	BE	00	7E	C0
127	BD	00	7F	C2	BE	00	7F	C1
128	BD	00	80	3D	BE	00	80	3E
129	BD	00	81	3C	BE	00	81	3F
130	BD	00	82	3F	BE	00	82	3C
131	BD	00	83	3E	BE	00	83	3D
132	BD	00	84	39	BE	00	84	3A
133	BD	00	85	38	BE	00	85	3B
134	BD	00	86	3B	BE	00	86	38
135	BD	00	87	3A	BE	00	87	39
136	BD	00	88	35	BE	00	88	36
137	BD	00	89	34	BE	00	89	37
138	BD	00	8A	37	BE	00	8A	34

Appendix

RS-232 Command Chart

Delegate ID	Unit ON				Unit OFF			
139	BD	00	8B	36	BE	00	8B	35
140	BD	00	8C	31	BE	00	8C	32
141	BD	00	8D	30	BE	00	8D	33
142	BD	00	8E	33	BE	00	8E	30
143	BD	00	8F	32	BE	00	8F	31
144	BD	00	90	2D	BE	00	90	2E
145	BD	00	91	2C	BE	00	91	2F
146	BD	00	92	2F	BE	00	92	2C
147	BD	00	93	2E	BE	00	93	2D
148	BD	00	94	29	BE	00	94	2A
149	BD	00	95	28	BE	00	95	2B
150	BD	00	96	2B	BE	00	96	28
151	BD	00	97	2A	BE	00	97	29
152	BD	00	98	25	BE	00	98	26
153	BD	00	99	24	BE	00	99	27
154	BD	00	9A	27	BE	00	9A	24
155	BD	00	9B	26	BE	00	9B	25
156	BD	00	9C	21	BE	00	9C	22
157	BD	00	9D	20	BE	00	9D	23
158	BD	00	9E	23	BE	00	9E	20
159	BD	00	9F	22	BE	00	9F	21
160	BD	00	A0	1D	BE	00	A0	1E
161	BD	00	A1	1C	BE	00	A1	1F

Appendix

RS-232 Command Chart

Delegate ID	Unit ON				Unit OFF			
162	BD	00	A2	1F	BE	00	A2	1C
163	BD	00	A3	1E	BE	00	A3	1D
164	BD	00	A4	19	BE	00	A4	1A
165	BD	00	A5	18	BE	00	A5	1B
166	BD	00	A6	1B	BE	00	A6	18
167	BD	00	A7	1A	BE	00	A7	19
168	BD	00	A8	15	BE	00	A8	16
169	BD	00	A9	14	BE	00	A9	17
170	BD	00	AA	17	BE	00	AA	14
171	BD	00	AB	16	BE	00	AB	15
172	BD	00	AC	11	BE	00	AC	12
173	BD	00	AD	10	BE	00	AD	13
174	BD	00	AE	13	BE	00	AE	10
175	BD	00	AF	12	BE	00	AF	11
176	BD	00	B0	D	BE	00	B0	E
177	BD	00	B1	C	BE	00	B1	F
178	BD	00	B2	F	BE	00	B2	C
179	BD	00	B3	E	BE	00	B3	D
180	BD	00	B4	9	BE	00	B4	A
181	BD	00	B5	8	BE	00	B5	B
182	BD	00	B6	B	BE	00	B6	8
183	BD	00	B7	A	BE	00	B7	9
184	BD	00	B8	5	BE	00	B8	6

Appendix

RS-232 Command Chart

Delegate ID	Unit ON				Unit OFF			
185	BD	00	B9	4	BE	00	B9	7
186	BD	00	BA	7	BE	00	BA	4
187	BD	00	BB	6	BE	00	BB	5
188	BD	00	BC	1	BE	00	BC	2
189	BD	00	BD	0	BE	00	BD	3
190	BD	00	BE	3	BE	00	BE	0
191	BD	00	BF	2	BE	00	BF	1
192	BD	00	C0	7D	BE	00	C0	7E
193	BD	00	C1	7C	BE	00	C1	7F
194	BD	00	C2	7F	BE	00	C2	7C
195	BD	00	C3	7E	BE	00	C3	7D
196	BD	00	C4	79	BE	00	C4	7A
197	BD	00	C5	78	BE	00	C5	7B
198	BD	00	C6	7B	BE	00	C6	78
199	BD	00	C7	7A	BE	00	C7	79
200	BD	00	C8	75	BE	00	C8	76
201	BD	00	C9	74	BE	00	C9	77
202	BD	00	CA	77	BE	00	CA	74
203	BD	00	CB	76	BE	00	CB	75
204	BD	00	CC	71	BE	00	CC	72
205	BD	00	CD	70	BE	00	CD	73
206	BD	00	CE	73	BE	00	CE	70
207	BD	00	CF	72	BE	00	CF	71

Appendix

RS-232 Command Chart

Delegate ID	Unit ON				Unit OFF			
208	BD	00	D0	6D	BE	00	D0	6E
209	BD	00	D1	6C	BE	00	D1	6F
210	BD	00	D2	6F	BE	00	D2	6C
211	BD	00	D3	6E	BE	00	D3	6D
212	BD	00	D4	69	BE	00	D4	6A
213	BD	00	D5	68	BE	00	D5	6B
214	BD	00	D6	6B	BE	00	D6	68
215	BD	00	D7	6A	BE	00	D7	69
216	BD	00	D8	65	BE	00	D8	66
217	BD	00	D9	64	BE	00	D9	67
218	BD	00	DA	67	BE	00	DA	64
219	BD	00	DB	66	BE	00	DB	65
220	BD	00	DC	61	BE	00	DC	62
221	BD	00	DD	60	BE	00	DD	63
222	BD	00	DE	63	BE	00	DE	60
223	BD	00	DF	62	BE	00	DF	61
224	BD	00	E0	5D	BE	00	E0	5E
225	BD	00	E1	5C	BE	00	E1	5F
226	BD	00	E2	5F	BE	00	E2	5C
227	BD	00	E3	5E	BE	00	E3	5D
228	BD	00	E4	59	BE	00	E4	5A
229	BD	00	E5	58	BE	00	E5	5B
230	BD	00	E6	5B	BE	00	E6	58

Appendix

RS-232 Command Chart

Delegate ID	Unit ON				Unit OFF			
231	BD	00	E7	5A	BE	00	E7	59
232	BD	00	E8	55	BE	00	E8	56
233	BD	00	E9	54	BE	00	E9	57
234	BD	00	EA	57	BE	00	EA	54
235	BD	00	EB	56	BE	00	EB	55
236	BD	00	EC	51	BE	00	EC	52
237	BD	00	ED	50	BE	00	ED	53
238	BD	00	EE	53	BE	00	EE	50
239	BD	00	EF	52	BE	00	EF	51
240	BD	00	F0	4D	BE	00	F0	4E
241	BD	00	F1	4C	BE	00	F1	4F
242	BD	00	F2	4F	BE	00	F2	4C
243	BD	00	F3	4E	BE	00	F3	4D
244	BD	00	F4	49	BE	00	F4	4A
245	BD	00	F5	48	BE	00	F5	4B
246	BD	00	F6	4B	BE	00	F6	48
247	BD	00	F7	4A	BE	00	F7	49
248	BD	00	F8	45	BE	00	F8	46
249	BD	00	F9	44	BE	00	F9	47
250	BD	00	FA	47	BE	00	FA	44
251	BD	00	FB	46	BE	00	FB	45
252	BD	00	FC	41	BE	00	FC	42
253	BD	00	FD	40	BE	00	FD	43

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RS-232 Command Chart

Delegate ID	Unit ON				Unit OFF			
254	BD	00	FE	43	BE	00	FE	40
255	BD	00	FF	42	BE	00	FF	41
256	BD	01	00	BC	BE	01	00	BF
257	BD	01	01	BD	BE	01	01	BE
258	BD	01	02	BE	BE	01	02	BD
259	BD	01	03	BF	BE	01	03	BC
260	BD	01	04	B8	BE	01	04	BB
261	BD	01	05	B9	BE	01	05	BA
262	BD	01	06	BA	BE	01	06	B9
263	BD	01	07	BB	BE	01	07	B8
264	BD	01	08	B4	BE	01	08	B7
265	BD	01	09	B5	BE	01	09	B6
266	BD	01	0A	B6	BE	01	0A	B5
267	BD	01	0B	B7	BE	01	0B	B4
268	BD	01	0C	B0	BE	01	0C	B3
269	BD	01	0D	B1	BE	01	0D	B2
270	BD	01	0E	B2	BE	01	0E	B1
271	BD	01	0F	B3	BE	01	0F	B0
272	BD	01	10	AC	BE	01	10	AF
273	BD	01	11	AD	BE	01	11	AE
274	BD	01	12	AE	BE	01	12	AD
275	BD	01	13	AF	BE	01	13	AC
276	BD	01	14	A8	BE	01	14	AB

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RS-232 Command Chart

Delegate ID	Unit ON				Unit OFF			
277	BD	01	15	A9	BE	01	15	AA
278	BD	01	16	AA	BE	01	16	A9
279	BD	01	17	AB	BE	01	17	A8
280	BD	01	18	A4	BE	01	18	A7
281	BD	01	19	A5	BE	01	19	A6
282	BD	01	1A	A6	BE	01	1A	A5
283	BD	01	1B	A7	BE	01	1B	A4
284	BD	01	1C	A0	BE	01	1C	A3
285	BD	01	1D	A1	BE	01	1D	A2
286	BD	01	1E	A2	BE	01	1E	A1
287	BD	01	1F	A3	BE	01	1F	A0
288	BD	01	20	9C	BE	01	20	9F
289	BD	01	21	9D	BE	01	21	9E
290	BD	01	22	9E	BE	01	22	9D
291	BD	01	23	9F	BE	01	23	9C
292	BD	01	24	98	BE	01	24	9B
293	BD	01	25	99	BE	01	25	9A
294	BD	01	26	9A	BE	01	26	99
295	BD	01	27	9B	BE	01	27	98
296	BD	01	28	94	BE	01	28	97
297	BD	01	29	95	BE	01	29	96
298	BD	01	2A	96	BE	01	2A	95
299	BD	01	2B	97	BE	01	2B	94

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RS-232 Command Chart

Delegate ID	Unit ON				Unit OFF			
300	BD	01	2C	90	BE	01	2C	93
301	BD	01	2D	91	BE	01	2D	92
302	BD	01	2E	92	BE	01	2E	91
303	BD	01	2F	93	BE	01	2F	90
304	BD	01	30	8C	BE	01	30	8F
305	BD	01	31	8D	BE	01	31	8E
306	BD	01	32	8E	BE	01	32	8D
307	BD	01	33	8F	BE	01	33	8C
308	BD	01	34	88	BE	01	34	8B
309	BD	01	35	89	BE	01	35	8A
310	BD	01	36	8A	BE	01	36	89
311	BD	01	37	8B	BE	01	37	88
312	BD	01	38	84	BE	01	38	87
313	BD	01	39	85	BE	01	39	86
314	BD	01	3A	86	BE	01	3A	85
315	BD	01	3B	87	BE	01	3B	84
316	BD	01	3C	80	BE	01	3C	83
317	BD	01	3D	81	BE	01	3D	82
318	BD	01	3E	82	BE	01	3E	81
319	BD	01	3F	83	BE	01	3F	80
320	BD	01	40	FC	BE	01	40	FF
321	BD	01	41	FD	BE	01	41	FE
322	BD	01	42	FE	BE	01	42	FD

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RS-232 Command Chart

Delegate ID	Unit ON				Unit OFF			
323	BD	01	43	FF	BE	01	43	FC
324	BD	01	44	F8	BE	01	44	FB
325	BD	01	45	F9	BE	01	45	FA
326	BD	01	46	FA	BE	01	46	F9
327	BD	01	47	FB	BE	01	47	F8
328	BD	01	48	F4	BE	01	48	F7
329	BD	01	49	F5	BE	01	49	F6
330	BD	01	4A	F6	BE	01	4A	F5
331	BD	01	4B	F7	BE	01	4B	F4
332	BD	01	4C	F0	BE	01	4C	F3
333	BD	01	4D	F1	BE	01	4D	F2
334	BD	01	4E	F2	BE	01	4E	F1
335	BD	01	4F	F3	BE	01	4F	F0
336	BD	01	50	EC	BE	01	50	EF
337	BD	01	51	ED	BE	01	51	EE
338	BD	01	52	EE	BE	01	52	ED
339	BD	01	53	EF	BE	01	53	EC
340	BD	01	54	E8	BE	01	54	EB
341	BD	01	55	E9	BE	01	55	EA
342	BD	01	56	EA	BE	01	56	E9
343	BD	01	57	EB	BE	01	57	E8
344	BD	01	58	E4	BE	01	58	E7
345	BD	01	59	E5	BE	01	59	E6

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RS-232 Command Chart

Delegate ID	Unit ON				Unit OFF			
346	BD	01	5A	E6	BE	01	5A	E5
347	BD	01	5B	E7	BE	01	5B	E4
348	BD	01	5C	E0	BE	01	5C	E3
349	BD	01	5D	E1	BE	01	5D	E2
350	BD	01	5E	E2	BE	01	5E	E1
351	BD	01	5F	E3	BE	01	5F	E0
352	BD	01	60	DC	BE	01	60	DF
353	BD	01	61	DD	BE	01	61	DE
354	BD	01	62	DE	BE	01	62	DD
355	BD	01	63	DF	BE	01	63	DC
356	BD	01	64	D8	BE	01	64	DB
357	BD	01	65	D9	BE	01	65	DA
358	BD	01	66	DA	BE	01	66	D9
359	BD	01	67	DB	BE	01	67	D8
360	BD	01	68	D4	BE	01	68	D7
361	BD	01	69	D5	BE	01	69	D6
362	BD	01	6A	D6	BE	01	6A	D5
363	BD	01	6B	D7	BE	01	6B	D4
364	BD	01	6C	D0	BE	01	6C	D3
365	BD	01	6D	D1	BE	01	6D	D2
366	BD	01	6E	D2	BE	01	6E	D1
367	BD	01	6F	D3	BE	01	6F	D0
368	BD	01	70	CC	BE	01	70	CF

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RS-232 Command Chart

Delegate ID	Unit ON				Unit OFF			
369	BD	01	71	CD	BE	01	71	CE
370	BD	01	72	CE	BE	01	72	CD
371	BD	01	73	CF	BE	01	73	CC
372	BD	01	74	C8	BE	01	74	CB
373	BD	01	75	C9	BE	01	75	CA
374	BD	01	76	CA	BE	01	76	C9
375	BD	01	77	CB	BE	01	77	C8
376	BD	01	78	C4	BE	01	78	C7
377	BD	01	79	C5	BE	01	79	C6
378	BD	01	7A	C6	BE	01	7A	C5
379	BD	01	7B	C7	BE	01	7B	C4
380	BD	01	7C	C0	BE	01	7C	C3
381	BD	01	7D	C1	BE	01	7D	C2
382	BD	01	7E	C2	BE	01	7E	C1
383	BD	01	7F	C3	BE	01	7F	C0
384	BD	01	80	3C	BE	01	80	3F
385	BD	01	81	3D	BE	01	81	3E
386	BD	01	82	3E	BE	01	82	3D
387	BD	01	83	3F	BE	01	83	3C
388	BD	01	84	38	BE	01	84	3B
389	BD	01	85	39	BE	01	85	3A
390	BD	01	86	3A	BE	01	86	39
391	BD	01	87	3B	BE	01	87	38

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RS-232 Command Chart

Delegate ID	Unit ON				Unit OFF			
392	BD	01	88	34	BE	01	88	37
393	BD	01	89	35	BE	01	89	36
394	BD	01	8A	36	BE	01	8A	35
395	BD	01	8B	37	BE	01	8B	34
396	BD	01	8C	30	BE	01	8C	33
397	BD	01	8D	31	BE	01	8D	32
398	BD	01	8E	32	BE	01	8E	31
399	BD	01	8F	33	BE	01	8F	30
400	BD	01	90	2C	BE	01	90	2F
401	BD	01	91	2D	BE	01	91	2E
402	BD	01	92	2E	BE	01	92	2D
403	BD	01	93	2F	BE	01	93	2C
404	BD	01	94	28	BE	01	94	2B
405	BD	01	95	29	BE	01	95	2A
406	BD	01	96	2A	BE	01	96	29
407	BD	01	97	2B	BE	01	97	28
408	BD	01	98	24	BE	01	98	27
409	BD	01	99	25	BE	01	99	26
410	BD	01	9A	26	BE	01	9A	25
411	BD	01	9B	27	BE	01	9B	24
412	BD	01	9C	20	BE	01	9C	23
413	BD	01	9D	21	BE	01	9D	22
414	BD	01	9E	22	BE	01	9E	21

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RS-232 Command Chart

Delegate ID	Unit ON				Unit OFF			
415	BD	01	9F	23	BE	01	9F	20
416	BD	01	A0	1C	BE	01	A0	1F
417	BD	01	A1	1D	BE	01	A1	1E
418	BD	01	A2	1E	BE	01	A2	1D
419	BD	01	A3	1F	BE	01	A3	1C
420	BD	01	A4	18	BE	01	A4	1B
421	BD	01	A5	19	BE	01	A5	1A
422	BD	01	A6	1A	BE	01	A6	19
423	BD	01	A7	1B	BE	01	A7	18
424	BD	01	A8	14	BE	01	A8	17
425	BD	01	A9	15	BE	01	A9	16
426	BD	01	AA	16	BE	01	AA	15
427	BD	01	AB	17	BE	01	AB	14
428	BD	01	AC	10	BE	01	AC	13
429	BD	01	AD	11	BE	01	AD	12
430	BD	01	AE	12	BE	01	AE	11
431	BD	01	AF	13	BE	01	AF	10
432	BD	01	B0	C	BE	01	B0	F
433	BD	01	B1	D	BE	01	B1	E
434	BD	01	B2	E	BE	01	B2	D
435	BD	01	B3	F	BE	01	B3	C
436	BD	01	B4	8	BE	01	B4	B
437	BD	01	B5	9	BE	01	B5	A

Appendix

RS-232 Command Chart

Delegate ID	Unit ON				Unit OFF			
438	BD	01	B6	A	BE	01	B6	9
439	BD	01	B7	B	BE	01	B7	8
440	BD	01	B8	4	BE	01	B8	7
441	BD	01	B9	5	BE	01	B9	6
442	BD	01	BA	6	BE	01	BA	5
443	BD	01	BB	7	BE	01	BB	4
444	BD	01	BC	0	BE	01	BC	3
445	BD	01	BD	1	BE	01	BD	2
446	BD	01	BE	2	BE	01	BE	1
447	BD	01	BF	3	BE	01	BF	0
448	BD	01	C0	7C	BE	01	C0	7F
449	BD	01	C1	7D	BE	01	C1	7E
450	BD	01	C2	7E	BE	01	C2	7D
451	BD	01	C3	7F	BE	01	C3	7C
452	BD	01	C4	78	BE	01	C4	7B
453	BD	01	C5	79	BE	01	C5	7A
454	BD	01	C6	7A	BE	01	C6	79
455	BD	01	C7	7B	BE	01	C7	78
456	BD	01	C8	74	BE	01	C8	77
457	BD	01	C9	75	BE	01	C9	76
458	BD	01	CA	76	BE	01	CA	75
459	BD	01	CB	77	BE	01	CB	74
460	BD	01	CC	70	BE	01	CC	73

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RS-232 Command Chart

Delegate ID	Unit ON				Unit OFF			
461	BD	01	CD	71	BE	01	CD	72
462	BD	01	CE	72	BE	01	CE	71
463	BD	01	CF	73	BE	01	CF	70
464	BD	01	D0	6C	BE	01	D0	6F
465	BD	01	D1	6D	BE	01	D1	6E
466	BD	01	D2	6E	BE	01	D2	6D
467	BD	01	D3	6F	BE	01	D3	6C
468	BD	01	D4	68	BE	01	D4	6B
469	BD	01	D5	69	BE	01	D5	6A
470	BD	01	D6	6A	BE	01	D6	69
471	BD	01	D7	6B	BE	01	D7	68
472	BD	01	D8	64	BE	01	D8	67
473	BD	01	D9	65	BE	01	D9	66
474	BD	01	DA	66	BE	01	DA	65
475	BD	01	DB	67	BE	01	DB	64
476	BD	01	DC	60	BE	01	DC	63
477	BD	01	DD	61	BE	01	DD	62
478	BD	01	DE	62	BE	01	DE	61
479	BD	01	DF	63	BE	01	DF	60
480	BD	01	E0	5C	BE	01	E0	5F
481	BD	01	E1	5D	BE	01	E1	5E
482	BD	01	E2	5E	BE	01	E2	5D
483	BD	01	E3	5F	BE	01	E3	5C

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RS-232 Command Chart

Delegate ID	Unit ON				Unit OFF			
484	BD	01	E4	58	BE	01	E4	5B
485	BD	01	E5	59	BE	01	E5	5A
486	BD	01	E6	5A	BE	01	E6	59
487	BD	01	E7	5B	BE	01	E7	58
488	BD	01	E8	54	BE	01	E8	57
489	BD	01	E9	55	BE	01	E9	56
490	BD	01	EA	56	BE	01	EA	55
491	BD	01	EB	57	BE	01	EB	54
492	BD	01	EC	50	BE	01	EC	53
493	BD	01	ED	51	BE	01	ED	52
494	BD	01	EE	52	BE	01	EE	51
495	BD	01	EF	53	BE	01	EF	50
496	BD	01	F0	4C	BE	01	F0	4F
497	BD	01	F1	4D	BE	01	F1	4E
498	BD	01	F2	4E	BE	01	F2	4D
499	BD	01	F3	4F	BE	01	F3	4C
500	BD	01	F4	48	BE	01	F4	4B
501	BD	01	F5	49	BE	01	F5	4A
502	BD	01	F6	4A	BE	01	F6	49
503	BD	01	F7	4B	BE	01	F7	48
504	BD	01	F8	44	BE	01	F8	47
505	BD	01	F9	45	BE	01	F9	46
506	BD	01	FA	46	BE	01	FA	45

Appendix

RS-232 Command Chart

Delegate ID	Unit ON				Unit OFF			
507	BD	01	FB	47	BE	01	FB	44
508	BD	01	FC	40	BE	01	FC	43
509	BD	01	FD	41	BE	01	FD	42
510	BD	01	FE	42	BE	01	FE	41
511	BD	01	FF	43	BE	01	FF	40
512	BD	02	00	BF	BE	02	00	BC
513	BD	02	01	BE	BE	02	01	BD
514	BD	02	02	BD	BE	02	02	BE
515	BD	02	03	BC	BE	02	03	BF
516	BD	02	04	BB	BE	02	04	B8
517	BD	02	05	BA	BE	02	05	B9
518	BD	02	06	B9	BE	02	06	BA
519	BD	02	07	B8	BE	02	07	BB
520	BD	02	08	B7	BE	02	08	B4
521	BD	02	09	B6	BE	02	09	B5
522	BD	02	0A	B5	BE	02	0A	B6
523	BD	02	0B	B4	BE	02	0B	B7
524	BD	02	0C	B3	BE	02	0C	B0
525	BD	02	0D	B2	BE	02	0D	B1
526	BD	02	0E	B1	BE	02	0E	B2
527	BD	02	0F	B0	BE	02	0F	B3
528	BD	02	10	AF	BE	02	10	AC
529	BD	02	11	AE	BE	02	11	AD

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RS-232 Command Chart

Delegate ID	Unit ON				Unit OFF			
530	BD	02	12	AD	BE	02	12	AE
531	BD	02	13	AC	BE	02	13	AF
532	BD	02	14	AB	BE	02	14	A8
533	BD	02	15	AA	BE	02	15	A9
534	BD	02	16	A9	BE	02	16	AA
535	BD	02	17	A8	BE	02	17	AB
536	BD	02	18	A7	BE	02	18	A4
537	BD	02	19	A6	BE	02	19	A5
538	BD	02	1A	A5	BE	02	1A	A6
539	BD	02	1B	A4	BE	02	1B	A7
540	BD	02	1C	A3	BE	02	1C	A0
541	BD	02	1D	A2	BE	02	1D	A1
542	BD	02	1E	A1	BE	02	1E	A2
543	BD	02	1F	A0	BE	02	1F	A3
544	BD	02	20	9F	BE	02	20	9C
545	BD	02	21	9E	BE	02	21	9D
546	BD	02	22	9D	BE	02	22	9E
547	BD	02	23	9C	BE	02	23	9F
548	BD	02	24	9B	BE	02	24	98
549	BD	02	25	9A	BE	02	25	99
550	BD	02	26	99	BE	02	26	9A
551	BD	02	27	98	BE	02	27	9B
552	BD	02	28	97	BE	02	28	94

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RS-232 Command Chart

Delegate ID	Unit ON				Unit OFF			
553	BD	02	29	96	BE	02	29	95
554	BD	02	2A	95	BE	02	2A	96
555	BD	02	2B	94	BE	02	2B	97
556	BD	02	2C	93	BE	02	2C	90
557	BD	02	2D	92	BE	02	2D	91
558	BD	02	2E	91	BE	02	2E	92
559	BD	02	2F	90	BE	02	2F	93
560	BD	02	30	8F	BE	02	30	8C
561	BD	02	31	8E	BE	02	31	8D
562	BD	02	32	8D	BE	02	32	8E
563	BD	02	33	8C	BE	02	33	8F
564	BD	02	34	8B	BE	02	34	88
565	BD	02	35	8A	BE	02	35	89
566	BD	02	36	89	BE	02	36	8A
567	BD	02	37	88	BE	02	37	8B
568	BD	02	38	87	BE	02	38	84
569	BD	02	39	86	BE	02	39	85
570	BD	02	3A	85	BE	02	3A	86
571	BD	02	3B	84	BE	02	3B	87
572	BD	02	3C	83	BE	02	3C	80
573	BD	02	3D	82	BE	02	3D	81
574	BD	02	3E	81	BE	02	3E	82
575	BD	02	3F	80	BE	02	3F	83

Appendix

RS-232 Command Chart

Delegate ID	Unit ON				Unit OFF			
576	BD	02	40	FF	BE	02	40	FC
577	BD	02	41	FE	BE	02	41	FD
578	BD	02	42	FD	BE	02	42	FE
579	BD	02	43	FC	BE	02	43	FF
580	BD	02	44	FB	BE	02	44	F8
581	BD	02	45	FA	BE	02	45	F9
582	BD	02	46	F9	BE	02	46	FA
583	BD	02	47	F8	BE	02	47	FB
584	BD	02	48	F7	BE	02	48	F4
585	BD	02	49	F6	BE	02	49	F5
586	BD	02	4A	F5	BE	02	4A	F6
587	BD	02	4B	F4	BE	02	4B	F7
588	BD	02	4C	F3	BE	02	4C	F0
589	BD	02	4D	F2	BE	02	4D	F1
590	BD	02	4E	F1	BE	02	4E	F2
591	BD	02	4F	F0	BE	02	4F	F3
592	BD	02	50	EF	BE	02	50	EC
593	BD	02	51	EE	BE	02	51	ED
594	BD	02	52	ED	BE	02	52	EE
595	BD	02	53	EC	BE	02	53	EF
596	BD	02	54	EB	BE	02	54	E8
597	BD	02	55	EA	BE	02	55	E9
598	BD	02	56	E9	BE	02	56	EA

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RS-232 Command Chart

Delegate ID	Unit ON				Unit OFF			
599	BD	02	57	E8	BE	02	57	EB
600	BD	02	58	E7	BE	02	58	E4
601	BD	02	59	E6	BE	02	59	E5
602	BD	02	5A	E5	BE	02	5A	E6
603	BD	02	5B	E4	BE	02	5B	E7
604	BD	02	5C	E3	BE	02	5C	E0
605	BD	02	5D	E2	BE	02	5D	E1
606	BD	02	5E	E1	BE	02	5E	E2
607	BD	02	5F	E0	BE	02	5F	E3
608	BD	02	60	DF	BE	02	60	DC
609	BD	02	61	DE	BE	02	61	DD
610	BD	02	62	DD	BE	02	62	DE
611	BD	02	63	DC	BE	02	63	DF
612	BD	02	64	DB	BE	02	64	D8
613	BD	02	65	DA	BE	02	65	D9
614	BD	02	66	D9	BE	02	66	DA
615	BD	02	67	D8	BE	02	67	DB
616	BD	02	68	D7	BE	02	68	D4
617	BD	02	69	D6	BE	02	69	D5
618	BD	02	6A	D5	BE	02	6A	D6
619	BD	02	6B	D4	BE	02	6B	D7
620	BD	02	6C	D3	BE	02	6C	D0
621	BD	02	6D	D2	BE	02	6D	D1

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RS-232 Command Chart

Delegate ID	Unit ON				Unit OFF			
622	BD	02	6E	D1	BE	02	6E	D2
623	BD	02	6F	D0	BE	02	6F	D3
624	BD	02	70	CF	BE	02	70	CC
625	BD	02	71	CE	BE	02	71	CD
626	BD	02	72	CD	BE	02	72	CE
627	BD	02	73	CC	BE	02	73	CF
628	BD	02	74	CB	BE	02	74	C8
629	BD	02	75	CA	BE	02	75	C9
630	BD	02	76	C9	BE	02	76	CA
631	BD	02	77	C8	BE	02	77	CB
632	BD	02	78	C7	BE	02	78	C4
633	BD	02	79	C6	BE	02	79	C5
634	BD	02	7A	C5	BE	02	7A	C6
635	BD	02	7B	C4	BE	02	7B	C7
636	BD	02	7C	C3	BE	02	7C	C0
637	BD	02	7D	C2	BE	02	7D	C1
638	BD	02	7E	C1	BE	02	7E	C2
639	BD	02	7F	C0	BE	02	7F	C3
640	BD	02	80	3F	BE	02	80	3C
641	BD	02	81	3E	BE	02	81	3D
642	BD	02	82	3D	BE	02	82	3E
643	BD	02	83	3C	BE	02	83	3F
644	BD	02	84	3B	BE	02	84	38

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RS-232 Command Chart

Delegate ID	Unit ON				Unit OFF			
645	BD	02	85	3A	BE	02	85	39
646	BD	02	86	39	BE	02	86	3A
647	BD	02	87	38	BE	02	87	3B
648	BD	02	88	37	BE	02	88	34
649	BD	02	89	36	BE	02	89	35
650	BD	02	8A	35	BE	02	8A	36
651	BD	02	8B	34	BE	02	8B	37
652	BD	02	8C	33	BE	02	8C	30
653	BD	02	8D	32	BE	02	8D	31
654	BD	02	8E	31	BE	02	8E	32
655	BD	02	8F	30	BE	02	8F	33
656	BD	02	90	2F	BE	02	90	2C
657	BD	02	91	2E	BE	02	91	2D
658	BD	02	92	2D	BE	02	92	2E
659	BD	02	93	2C	BE	02	93	2F
660	BD	02	94	2B	BE	02	94	28
661	BD	02	95	2A	BE	02	95	29
662	BD	02	96	29	BE	02	96	2A
663	BD	02	97	28	BE	02	97	2B
664	BD	02	98	27	BE	02	98	24
665	BD	02	99	26	BE	02	99	25
666	BD	02	9A	25	BE	02	9A	26
667	BD	02	9B	24	BE	02	9B	27

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RS-232 Command Chart

Delegate ID	Unit ON				Unit OFF			
668	BD	02	9C	23	BE	02	9C	20
669	BD	02	9D	22	BE	02	9D	21
670	BD	02	9E	21	BE	02	9E	22
671	BD	02	9F	20	BE	02	9F	23
672	BD	02	A0	1F	BE	02	A0	1C
673	BD	02	A1	1E	BE	02	A1	1D
674	BD	02	A2	1D	BE	02	A2	1E
675	BD	02	A3	1C	BE	02	A3	1F
676	BD	02	A4	1B	BE	02	A4	18
677	BD	02	A5	1A	BE	02	A5	19
678	BD	02	A6	19	BE	02	A6	1A
679	BD	02	A7	18	BE	02	A7	1B
680	BD	02	A8	17	BE	02	A8	14
681	BD	02	A9	16	BE	02	A9	15
682	BD	02	AA	15	BE	02	AA	16
683	BD	02	AB	14	BE	02	AB	17
684	BD	02	AC	13	BE	02	AC	10
685	BD	02	AD	12	BE	02	AD	11
686	BD	02	AE	11	BE	02	AE	12
687	BD	02	AF	10	BE	02	AF	13
688	BD	02	B0	F	BE	02	B0	C
689	BD	02	B1	E	BE	02	B1	D
690	BD	02	B2	D	BE	02	B2	E

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RS-232 Command Chart

Delegate ID	Unit ON				Unit OFF			
691	BD	02	B3	C	BE	02	B3	F
692	BD	02	B4	B	BE	02	B4	8
693	BD	02	B5	A	BE	02	B5	9
694	BD	02	B6	9	BE	02	B6	A
695	BD	02	B7	8	BE	02	B7	B
696	BD	02	B8	7	BE	02	B8	4
697	BD	02	B9	6	BE	02	B9	5
698	BD	02	BA	5	BE	02	BA	6
699	BD	02	BB	4	BE	02	BB	7
700	BD	02	BC	3	BE	02	BC	0
701	BD	02	BD	2	BE	02	BD	1
702	BD	02	BE	1	BE	02	BE	2
703	BD	02	BF	0	BE	02	BF	3
704	BD	02	C0	7F	BE	02	C0	7C
705	BD	02	C1	7E	BE	02	C1	7D
706	BD	02	C2	7D	BE	02	C2	7E
707	BD	02	C3	7C	BE	02	C3	7F
708	BD	02	C4	7B	BE	02	C4	78
709	BD	02	C5	7A	BE	02	C5	79
710	BD	02	C6	79	BE	02	C6	7A
711	BD	02	C7	78	BE	02	C7	7B
712	BD	02	C8	77	BE	02	C8	74
713	BD	02	C9	76	BE	02	C9	75

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RS-232 Command Chart

Delegate ID	Unit ON				Unit OFF			
714	BD	02	CA	75	BE	02	CA	76
715	BD	02	CB	74	BE	02	CB	77
716	BD	02	CC	73	BE	02	CC	70
717	BD	02	CD	72	BE	02	CD	71
718	BD	02	CE	71	BE	02	CE	72
719	BD	02	CF	70	BE	02	CF	73
720	BD	02	D0	6F	BE	02	D0	6C
721	BD	02	D1	6E	BE	02	D1	6D
722	BD	02	D2	6D	BE	02	D2	6E
723	BD	02	D3	6C	BE	02	D3	6F
724	BD	02	D4	6B	BE	02	D4	68
725	BD	02	D5	6A	BE	02	D5	69
726	BD	02	D6	69	BE	02	D6	6A
727	BD	02	D7	68	BE	02	D7	6B
728	BD	02	D8	67	BE	02	D8	64
729	BD	02	D9	66	BE	02	D9	65
730	BD	02	DA	65	BE	02	DA	66
731	BD	02	DB	64	BE	02	DB	67
732	BD	02	DC	63	BE	02	DC	60
733	BD	02	DD	62	BE	02	DD	61
734	BD	02	DE	61	BE	02	DE	62
735	BD	02	DF	60	BE	02	DF	63
736	BD	02	E0	5F	BE	02	E0	5C

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RS-232 Command Chart

Delegate ID	Unit ON				Unit OFF			
737	BD	02	E1	5E	BE	02	E1	5D
738	BD	02	E2	5D	BE	02	E2	5E
739	BD	02	E3	5C	BE	02	E3	5F
740	BD	02	E4	5B	BE	02	E4	58
741	BD	02	E5	5A	BE	02	E5	59
742	BD	02	E6	59	BE	02	E6	5A
743	BD	02	E7	58	BE	02	E7	5B
744	BD	02	E8	57	BE	02	E8	54
745	BD	02	E9	56	BE	02	E9	55
746	BD	02	EA	55	BE	02	EA	56
747	BD	02	EB	54	BE	02	EB	57
748	BD	02	EC	53	BE	02	EC	50
749	BD	02	ED	52	BE	02	ED	51
750	BD	02	EE	51	BE	02	EE	52
751	BD	02	EF	50	BE	02	EF	53
752	BD	02	F0	4F	BE	02	F0	4C
753	BD	02	F1	4E	BE	02	F1	4D
754	BD	02	F2	4D	BE	02	F2	4E
755	BD	02	F3	4C	BE	02	F3	4F
756	BD	02	F4	4B	BE	02	F4	48
757	BD	02	F5	4A	BE	02	F5	49
758	BD	02	F6	49	BE	02	F6	4A
759	BD	02	F7	48	BE	02	F7	4B

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RS-232 Command Chart

Delegate ID	Unit ON				Unit OFF			
760	BD	02	F8	47	BE	02	F8	44
761	BD	02	F9	46	BE	02	F9	45
762	BD	02	FA	45	BE	02	FA	46
763	BD	02	FB	44	BE	02	FB	47
764	BD	02	FC	43	BE	02	FC	40
765	BD	02	FD	42	BE	02	FD	41
766	BD	02	FE	41	BE	02	FE	42
767	BD	02	FF	40	BE	02	FF	43
768	BD	03	00	BE	BE	03	00	BD
769	BD	03	01	BF	BE	03	01	BC
770	BD	03	02	BC	BE	03	02	BF
771	BD	03	03	BD	BE	03	03	BE
772	BD	03	04	BA	BE	03	04	B9
773	BD	03	05	BB	BE	03	05	B8
774	BD	03	06	B8	BE	03	06	BB
775	BD	03	07	B9	BE	03	07	BA
776	BD	03	08	B6	BE	03	08	B5
777	BD	03	09	B7	BE	03	09	B4
778	BD	03	0A	B4	BE	03	0A	B7
779	BD	03	0B	B5	BE	03	0B	B6
780	BD	03	0C	B2	BE	03	0C	B1
781	BD	03	0D	B3	BE	03	0D	B0
782	BD	03	0E	B0	BE	03	0E	B3

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RS-232 Command Chart

Delegate ID	Unit ON				Unit OFF			
783	BD	03	0F	B1	BE	03	0F	B2
784	BD	03	10	AE	BE	03	10	AD
785	BD	03	11	AF	BE	03	11	AC
786	BD	03	12	AC	BE	03	12	AF
787	BD	03	13	AD	BE	03	13	AE
788	BD	03	14	AA	BE	03	14	A9
789	BD	03	15	AB	BE	03	15	A8
790	BD	03	16	A8	BE	03	16	AB
791	BD	03	17	A9	BE	03	17	AA
792	BD	03	18	A6	BE	03	18	A5
793	BD	03	19	A7	BE	03	19	A4
794	BD	03	1A	A4	BE	03	1A	A7
795	BD	03	1B	A5	BE	03	1B	A6
796	BD	03	1C	A2	BE	03	1C	A1
797	BD	03	1D	A3	BE	03	1D	A0
798	BD	03	1E	A0	BE	03	1E	A3
799	BD	03	1F	A1	BE	03	1F	A2
800	BD	03	20	9E	BE	03	20	9D
801	BD	03	21	9F	BE	03	21	9C
802	BD	03	22	9C	BE	03	22	9F
803	BD	03	23	9D	BE	03	23	9E
804	BD	03	24	9A	BE	03	24	99
805	BD	03	25	9B	BE	03	25	98

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RS-232 Command Chart

Delegate ID	Unit ON				Unit OFF			
806	BD	03	26	98	BE	03	26	9B
807	BD	03	27	99	BE	03	27	9A
808	BD	03	28	96	BE	03	28	95
809	BD	03	29	97	BE	03	29	94
810	BD	03	2A	94	BE	03	2A	97
811	BD	03	2B	95	BE	03	2B	96
812	BD	03	2C	92	BE	03	2C	91
813	BD	03	2D	93	BE	03	2D	90
814	BD	03	2E	90	BE	03	2E	93
815	BD	03	2F	91	BE	03	2F	92
816	BD	03	30	8E	BE	03	30	8D
817	BD	03	31	8F	BE	03	31	8C
818	BD	03	32	8C	BE	03	32	8F
819	BD	03	33	8D	BE	03	33	8E
820	BD	03	34	8A	BE	03	34	89
821	BD	03	35	8B	BE	03	35	88
822	BD	03	36	88	BE	03	36	8B
823	BD	03	37	89	BE	03	37	8A
824	BD	03	38	86	BE	03	38	85
825	BD	03	39	87	BE	03	39	84
826	BD	03	3A	84	BE	03	3A	87
827	BD	03	3B	85	BE	03	3B	86
828	BD	03	3C	82	BE	03	3C	81

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RS-232 Command Chart

Delegate ID	Unit ON				Unit OFF			
829	BD	03	3D	83	BE	03	3D	80
830	BD	03	3E	80	BE	03	3E	83
831	BD	03	3F	81	BE	03	3F	82
832	BD	03	40	FE	BE	03	40	FD
833	BD	03	41	FF	BE	03	41	FC
834	BD	03	42	FC	BE	03	42	FF
835	BD	03	43	FD	BE	03	43	FE
836	BD	03	44	FA	BE	03	44	F9
837	BD	03	45	FB	BE	03	45	F8
838	BD	03	46	F8	BE	03	46	FB
839	BD	03	47	F9	BE	03	47	FA
840	BD	03	48	F6	BE	03	48	F5
841	BD	03	49	F7	BE	03	49	F4
842	BD	03	4A	F4	BE	03	4A	F7
843	BD	03	4B	F5	BE	03	4B	F6
844	BD	03	4C	F2	BE	03	4C	F1
845	BD	03	4D	F3	BE	03	4D	F0
846	BD	03	4E	F0	BE	03	4E	F3
847	BD	03	4F	F1	BE	03	4F	F2
848	BD	03	50	EE	BE	03	50	ED
849	BD	03	51	EF	BE	03	51	EC
850	BD	03	52	EC	BE	03	52	EF
851	BD	03	53	ED	BE	03	53	EE

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RS-232 Command Chart

Delegate ID	Unit ON				Unit OFF			
852	BD	03	54	EA	BE	03	54	E9
853	BD	03	55	EB	BE	03	55	E8
854	BD	03	56	E8	BE	03	56	EB
855	BD	03	57	E9	BE	03	57	EA
856	BD	03	58	E6	BE	03	58	E5
857	BD	03	59	E7	BE	03	59	E4
858	BD	03	5A	E4	BE	03	5A	E7
859	BD	03	5B	E5	BE	03	5B	E6
860	BD	03	5C	E2	BE	03	5C	E1
861	BD	03	5D	E3	BE	03	5D	E0
862	BD	03	5E	E0	BE	03	5E	E3
863	BD	03	5F	E1	BE	03	5F	E2
864	BD	03	60	DE	BE	03	60	DD
865	BD	03	61	DF	BE	03	61	DC
866	BD	03	62	DC	BE	03	62	DF
867	BD	03	63	DD	BE	03	63	DE
868	BD	03	64	DA	BE	03	64	D9
869	BD	03	65	DB	BE	03	65	D8
870	BD	03	66	D8	BE	03	66	DB
871	BD	03	67	D9	BE	03	67	DA
872	BD	03	68	D6	BE	03	68	D5
873	BD	03	69	D7	BE	03	69	D4
874	BD	03	6A	D4	BE	03	6A	D7

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RS-232 Command Chart

Delegate ID	Unit ON				Unit OFF			
875	BD	03	6B	D5	BE	03	6B	D6
876	BD	03	6C	D2	BE	03	6C	D1
877	BD	03	6D	D3	BE	03	6D	D0
878	BD	03	6E	D0	BE	03	6E	D3
879	BD	03	6F	D1	BE	03	6F	D2
880	BD	03	70	CE	BE	03	70	CD
881	BD	03	71	CF	BE	03	71	CC
882	BD	03	72	CC	BE	03	72	CF
883	BD	03	73	CD	BE	03	73	CE
884	BD	03	74	CA	BE	03	74	C9
885	BD	03	75	CB	BE	03	75	C8
886	BD	03	76	C8	BE	03	76	CB
887	BD	03	77	C9	BE	03	77	CA
888	BD	03	78	C6	BE	03	78	C5
889	BD	03	79	C7	BE	03	79	C4
890	BD	03	7A	C4	BE	03	7A	C7
891	BD	03	7B	C5	BE	03	7B	C6
892	BD	03	7C	C2	BE	03	7C	C1
893	BD	03	7D	C3	BE	03	7D	C0
894	BD	03	7E	C0	BE	03	7E	C3
895	BD	03	7F	C1	BE	03	7F	C2
896	BD	03	80	3E	BE	03	80	3D
897	BD	03	81	3F	BE	03	81	3C

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RS-232 Command Chart

Delegate ID	Unit ON				Unit OFF			
898	BD	03	82	3C	BE	03	82	3F
899	BD	03	83	3D	BE	03	83	3E
900	BD	03	84	3A	BE	03	84	39
901	BD	03	85	3B	BE	03	85	38
902	BD	03	86	38	BE	03	86	3B
903	BD	03	87	39	BE	03	87	3A
904	BD	03	88	36	BE	03	88	35
905	BD	03	89	37	BE	03	89	34
906	BD	03	8A	34	BE	03	8A	37
907	BD	03	8B	35	BE	03	8B	36
908	BD	03	8C	32	BE	03	8C	31
909	BD	03	8D	33	BE	03	8D	30
910	BD	03	8E	30	BE	03	8E	33
911	BD	03	8F	31	BE	03	8F	32
912	BD	03	90	2E	BE	03	90	2D
913	BD	03	91	2F	BE	03	91	2C
914	BD	03	92	2C	BE	03	92	2F
915	BD	03	93	2D	BE	03	93	2E
916	BD	03	94	2A	BE	03	94	29
917	BD	03	95	2B	BE	03	95	28
918	BD	03	96	28	BE	03	96	2B
919	BD	03	97	29	BE	03	97	2A
920	BD	03	98	26	BE	03	98	25

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RS-232 Command Chart

Delegate ID	Unit ON				Unit OFF			
921	BD	03	99	27	BE	03	99	24
922	BD	03	9A	24	BE	03	9A	27
923	BD	03	9B	25	BE	03	9B	26
924	BD	03	9C	22	BE	03	9C	21
925	BD	03	9D	23	BE	03	9D	20
926	BD	03	9E	20	BE	03	9E	23
927	BD	03	9F	21	BE	03	9F	22
928	BD	03	A0	1E	BE	03	A0	1D
929	BD	03	A1	1F	BE	03	A1	1C
930	BD	03	A2	1C	BE	03	A2	1F
931	BD	03	A3	1D	BE	03	A3	1E
932	BD	03	A4	1A	BE	03	A4	19
933	BD	03	A5	1B	BE	03	A5	18
934	BD	03	A6	18	BE	03	A6	1B
935	BD	03	A7	19	BE	03	A7	1A
936	BD	03	A8	16	BE	03	A8	15
937	BD	03	A9	17	BE	03	A9	14
938	BD	03	AA	14	BE	03	AA	17
939	BD	03	AB	15	BE	03	AB	16
940	BD	03	AC	12	BE	03	AC	11
941	BD	03	AD	13	BE	03	AD	10
942	BD	03	AE	10	BE	03	AE	13
943	BD	03	AF	11	BE	03	AF	12

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RS-232 Command Chart

Delegate ID	Unit ON				Unit OFF			
944	BD	03	B0	E	BE	03	B0	D
945	BD	03	B1	F	BE	03	B1	C
946	BD	03	B2	C	BE	03	B2	F
947	BD	03	B3	D	BE	03	B3	E
948	BD	03	B4	A	BE	03	B4	9
949	BD	03	B5	B	BE	03	B5	8
950	BD	03	B6	8	BE	03	B6	B
951	BD	03	B7	9	BE	03	B7	A
952	BD	03	B8	6	BE	03	B8	5
953	BD	03	B9	7	BE	03	B9	4
954	BD	03	BA	4	BE	03	BA	7
955	BD	03	BB	5	BE	03	BB	6
956	BD	03	BC	2	BE	03	BC	1
957	BD	03	BD	3	BE	03	BD	0
958	BD	03	BE	0	BE	03	BE	3
959	BD	03	BF	1	BE	03	BF	2
960	BD	03	C0	7E	BE	03	C0	7D
961	BD	03	C1	7F	BE	03	C1	7C
962	BD	03	C2	7C	BE	03	C2	7F
963	BD	03	C3	7D	BE	03	C3	7E
964	BD	03	C4	7A	BE	03	C4	79
965	BD	03	C5	7B	BE	03	C5	78
966	BD	03	C6	78	BE	03	C6	7B

Appendix

RS-232 Command Chart

Delegate ID	Unit ON				Unit OFF			
967	BD	03	C7	79	BE	03	C7	7A
968	BD	03	C8	76	BE	03	C8	75
969	BD	03	C9	77	BE	03	C9	74
970	BD	03	CA	74	BE	03	CA	77
971	BD	03	CB	75	BE	03	CB	76
972	BD	03	CC	72	BE	03	CC	71
973	BD	03	CD	73	BE	03	CD	70
974	BD	03	CE	70	BE	03	CE	73
975	BD	03	CF	71	BE	03	CF	72
976	BD	03	D0	6E	BE	03	D0	6D
977	BD	03	D1	6F	BE	03	D1	6C
978	BD	03	D2	6C	BE	03	D2	6F
979	BD	03	D3	6D	BE	03	D3	6E
980	BD	03	D4	6A	BE	03	D4	69
981	BD	03	D5	6B	BE	03	D5	68
982	BD	03	D6	68	BE	03	D6	6B
983	BD	03	D7	69	BE	03	D7	6A
984	BD	03	D8	66	BE	03	D8	65
985	BD	03	D9	67	BE	03	D9	64
986	BD	03	DA	64	BE	03	DA	67
987	BD	03	DB	65	BE	03	DB	66
988	BD	03	DC	62	BE	03	DC	61
989	BD	03	DD	63	BE	03	DD	60

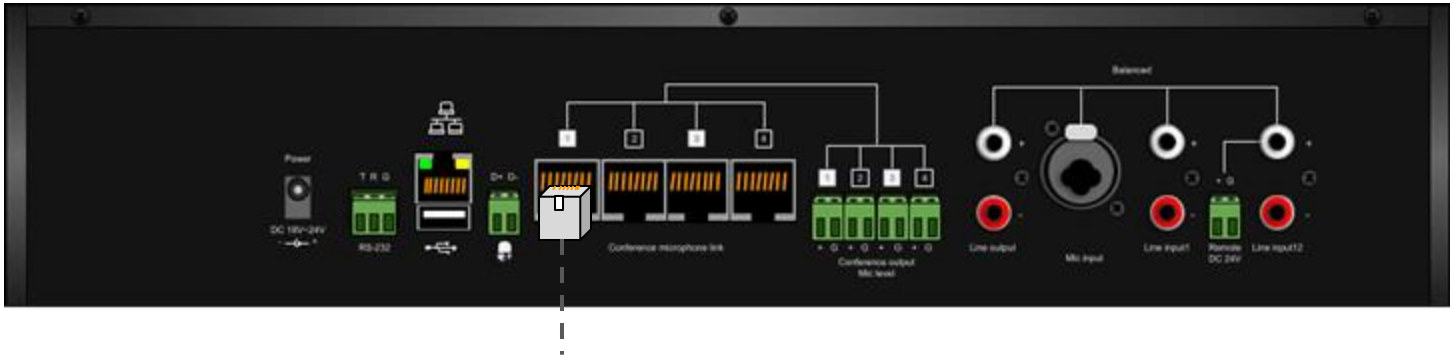
Appendix

RS-232 Command Chart

Delegate ID	Unit ON				Unit OFF			
990	BD	03	DE	60	BE	03	DE	63
991	BD	03	DF	61	BE	03	DF	62
992	BD	03	E0	5E	BE	03	E0	5D
993	BD	03	E1	5F	BE	03	E1	5C
994	BD	03	E2	5C	BE	03	E2	5F
995	BD	03	E3	5D	BE	03	E3	5E
996	BD	03	E4	5A	BE	03	E4	59
997	BD	03	E5	5B	BE	03	E5	58
998	BD	03	E6	58	BE	03	E6	5B
999	BD	03	E7	59	BE	03	E7	5A

Appendix

TCP / IP Control



Control protocol	TCP / IP
Receiver port	6667
Return port	6668
Communication protocol	ASCII
Split byte	,
Stop Byte	\r\n
Default password	00000

Appendix

Communication Verification Flow

Environmental Control Equipment	Direction	Conference Main Control Unit	Description
GetID	→		Get the serial number of the main control unit
	←	ID,1	
CheckPSW,00000	→		**Confirm password of the main control unit (give this command after every new connection; after then, FCS-6350 will proceed the following commands)**
	←	PSW,1	
GetVer,Hwd	→		Get the version of the main control unit
	←	Ver,Hwd,0000	
Init	→		
	←	Init,Start	Start synchronization of the main control unit setting
	←	Mode,1,5,30	Current mode, open mic qty., mic auto-off
	←	Vol,0,5	Main control unit volume
	←	Vol,1,5	Aux volume
	←	Vol,2,5	Mic volume
	←	Vol,3,1	USB volume
	←	Dome,Mode,1	Video tracking mode
	←	Dome,Config,1,1	
	←	Voice,Mode,1	
	←	Voice,AGCMode,1	
	←	Init,Over	Enter the operation screen after finishing synchronization
	←	Mic,On,1	Send current talking MIC and MIC under request after synchronization
	←	Mic,Req,2	

Appendix ASCII Command Code

Verify login password : Establish bidirectional communication. Verification of login password is necessary beforehand. Data transmission will be permitted after it is verified as correct.

Action	ASCII command
Transmit command	CheckPSW,$1
Response	PSW,$2
Remark	$1 Login password: Preset is 00000 $2 Verification result: 1 = Correct, 0 = Error

Configure data synchronization : Get the current status and related settings of FCS-6350.

Action	ASCII command
Transmit command	Init
Response	Init,$1
Remark	$1 Execution condition: Start (Data synchronization starts), Over (Data synchronization finishes)

Switch conference mode : Switch FCS-6350 conference mode.

Action	ASCII command
Transmit command	SetMode,Mode,$1
Response	Mode,Changed,$1
Remark	$1 Conference mode: 0 = Normal mode, 1 = Chairman mode, 2 = Override, 3 = FIFO

Appendix

ASCII Command Code

Get system information : Get the information about current conference mode, OPEN MIC QTY, Mic Auto-Off setting of FCS-6350.

Action	ASCII command
Transmit command	GetMode
Response	Mode,$1,$2,$3
Remark	$1 Conference mode: 0 = Normal mode, 1 = Chairman mode, 2 = Override, 3 = FIFO $2 Open MIC QTY：01~1E = 1~30; 00 = Unlimited $3 Mic Auto-Off：10~63=10~99 sec.， 00 = Unlimited

Turn on microphone unit : Enter unit ID to turn on the corresponding unit.

Action	ASCII command
Transmit command	Set,On,$1
Response	Mic,On,$1
Remark	$1 Number of microphone unit: 001~999 = Delegate 001~999; 1000~1009 = Chairman 01~10

Turn off microphone unit : Enter unit ID to turn of the corresponding unit.

Action	ASCII command
Transmit command	Set,Off,$1
Response	Mic,Off,$1
Remark	$1 Number of microphone unit: 001~999 = Delegate 001~999; 1000~1009 = Chairman 01~10

Appendix ASCII Command Code

Turn off all microphone units : Turn off all the speaking units.

Action	ASCII command
Transmit command	SetMic,All,Clear
Response	Mic,All,Clear

Get microphone unit status : Check the current speaking status of the unit.

Action	ASCII command
Transmit command	GetMIC
Response	Mic,$1,$2
Remark	$1 Unit speaking status: On = Speaking on, Off = Speaking off. $2 Number of microphone unit: 001~999 = Delegate 001~999; 1000~1009 = Chairman 01~10

Open MIC QTY : Set the simultaneous Open MIC QTY for units.

Action	ASCII command
Transmit command	SetMode,Count,$1
Response	SetMode,Count,$1
Remark	$1 Open MIC QTY: 01~1E = 1~30, 00 = Unlimited

Appendix ASCII Command Code

Set auto-off time : : Configure how long the unit will be off automatically after there is no voice input.

Action	ASCII command
Transmit command	SetMode,AOT,$1
Response	SetMode,AOT,$1
Remark	$1 Auto off time: 10~63 = 10~99 sec., 00 = Unlimited

Set microphone unit volume : Configure microphone unit volume.

Action	ASCII command
Transmit command	SetMic,Vol,$1
Response	Mic,Vol,$1
Remark	$1 Unit volume：2~15 = Level 1~Level 14, 1 = Volume off

Get microphone unit volume : get unit volume.

Action	ASCII command
Transmit command	GetMic,Vol,$1
Response	Mic,Vol,$1
Remark	$1 Unit volume：2~15 = Level 1~Level 14, 1 = Volume off

Appendix

ASCII Command Code

Set system volume : Configure the volume of the audio source related to FCS-6350.

Action	ASCII command
Transmit command	SetVol,$1,$2
Response	Vol,$1,$2
Remark	$1 Related audio source: 0 = All microphone units, 1 = Line input, 2 = MIC input $2 Volume: 2~50 = Level 1~Level 49, 1= Volume off.

Set Auto Gain : Turn on / off Auto Gain function

Action	ASCII command
Transmit command	SetMic,AGC,$1,$2
Response	Mic,Vol,AGC,$1,$2
Remark	$1 Number of microphone unit: 001~999 = Delegate 001~999; 1000~1009 = Chairman 01~10 $2 Auto Gain function: 0 Turn off Auto Gain, 1 Turn on Auto Gain

Set unit loudspeaker volume : Configure the output volume of the built-in loudspeaker of FCS-6315 / 6316.

Action	ASCII command
Transmit command	SetMic,SPK,$1,$2
Response	Mic,SPK,$1,$2
Remark	$1 Number of microphone unit: 001~999 = Delegate 001~999; 1000~1009 = Chairman 01~10 $2 Loudspeaker volume: 2~15 = Level 1~Level 14, 0 = Volume off



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