

**9000M2 Series**  
**Quick Start Guide**  
*- Auto-mixing -*

Conference/Courtroom Using Simultaneous Mode

## **System Overview**

This application is composed of a Main room and an AUX conference room. MIC 1, used by a chairperson every time, has the priority over the other inputs. Audio source is always output to Main Room Zone 1 , Main Room Zone2 , Aux Conference Room, Webcast, phone and recording device. Level of microphones can be controlled by remote controller and output volume of each area is also adjustable by remote controller when needed.

## **System Components**

1. A-9120DHM2 x 1
2. ZM-9012 x 4
3. ZM-9013 x 1
4. D-001T x 4
5. T-001T x 2
6. RC-001T x 1 (with AD-246)
  
7. DM-1300US x 6
8. PC Audio x 1
9. Phone x 1
10. Recording device x 1
11. P-912MK2 x 1
12. F-122CU2

## **Setting**

Input 1 (D-001T): DM-1300US (Priority 1)

Input 2 (D-001T): DM-1300US (Priority 2)

Input 3 (D-001T): DM-1300US

Input 4 (D-001T): DM-1300US

Input 5 (D-001T): DM-1300US

Input 6 (D-001T): DM-1300US

Input 7 (D-001T): PBX (Priority 2)

Input 8 (D-001T): PC Audio

Output 1 (A-9120DHM2): Main Room Zone 1  
Output 2 (A-9120DHM2): Main Room Zone 2  
Output 3 (T-001T - P-912MK2): Aux Conference Room 1  
Output 4 (T-001T): Webcast  
Output 5 (T-001T): Phone  
Output 6 (T-001T): Recording device

Remote out (RC-001T) : ZM-9013[0] >> ZM-9012[1] >> ZM-9012[2] >>  
ZM-9012[3] >> ZM-9012[4]

### **Button Configuration**

#### **ZM-9013[0]: Main room**

Button 1: Input 3 on/off  
Button 2: Input 4 on/off  
Button 3: Input 5 on/off  
Button 4: Input 6 on/off  
Button 5: Input 8 on/off

#### **ZM-9012[1]: Rack room**

Changing the input volume.

#### **ZM-9012[2]: Main room 1**

Changing the output volume.

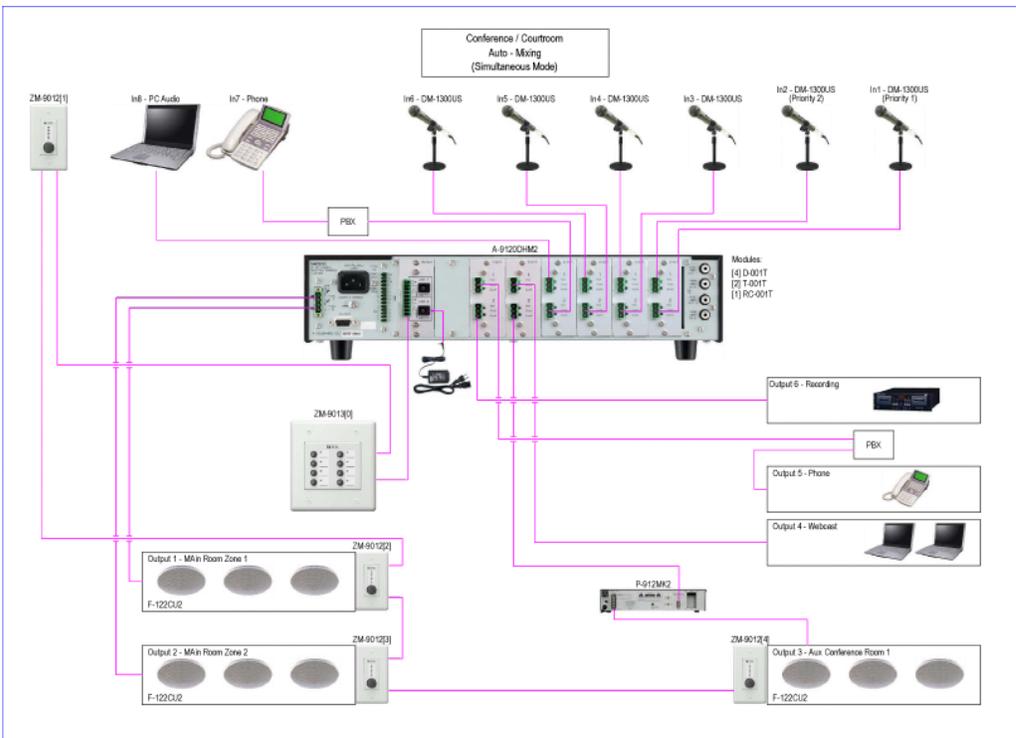
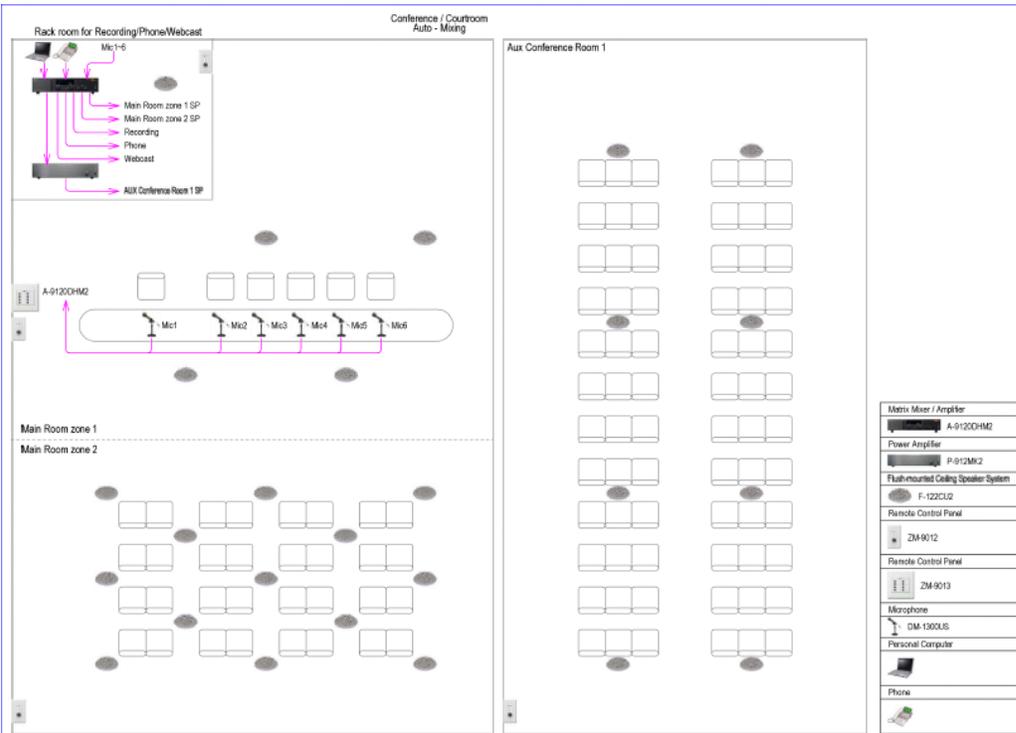
#### **ZM-9012[3]: Main room 2**

Changing the output volume.

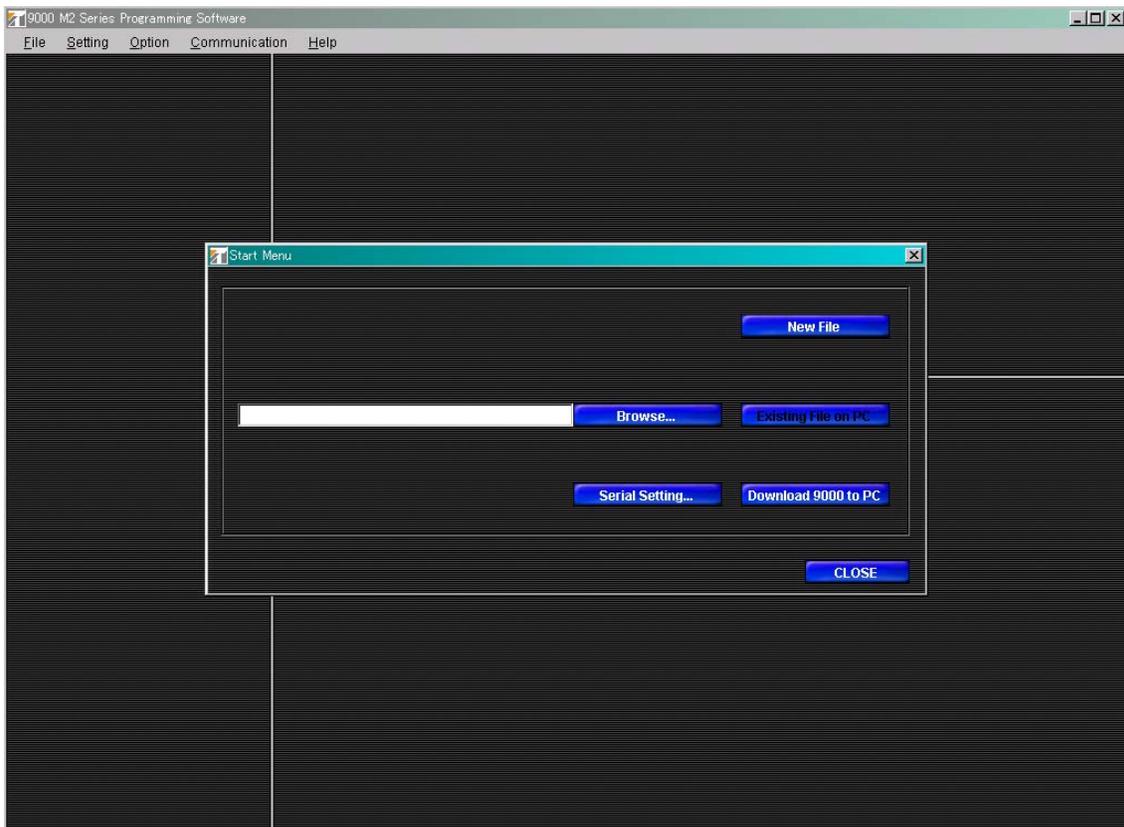
#### **ZM-9012[4]: Aux Conference Room 1**

Changing the output volume.

# Configuration



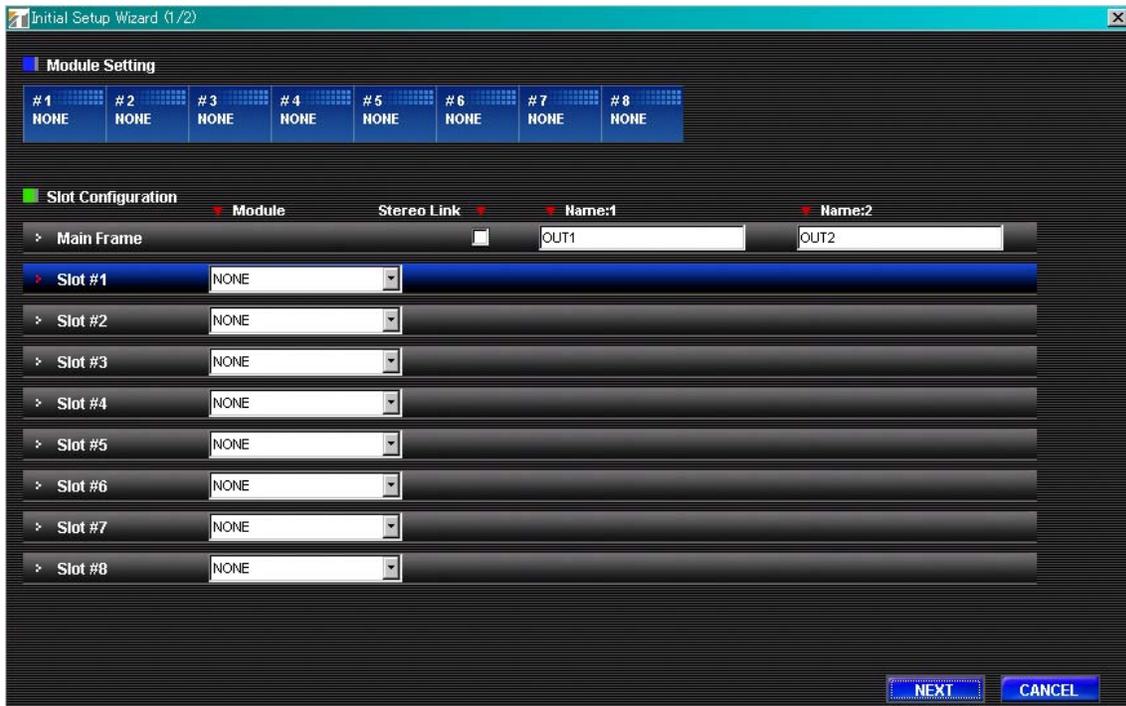
1. The following is the initial setting wizard screen.



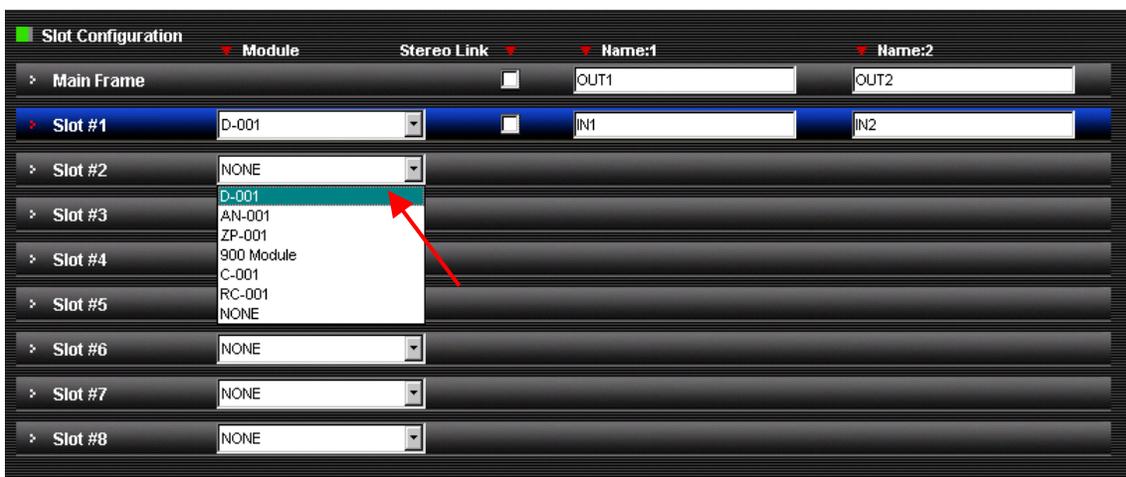
2. Click "New File" on the Start Menu window.



### 3. Set module configurations.



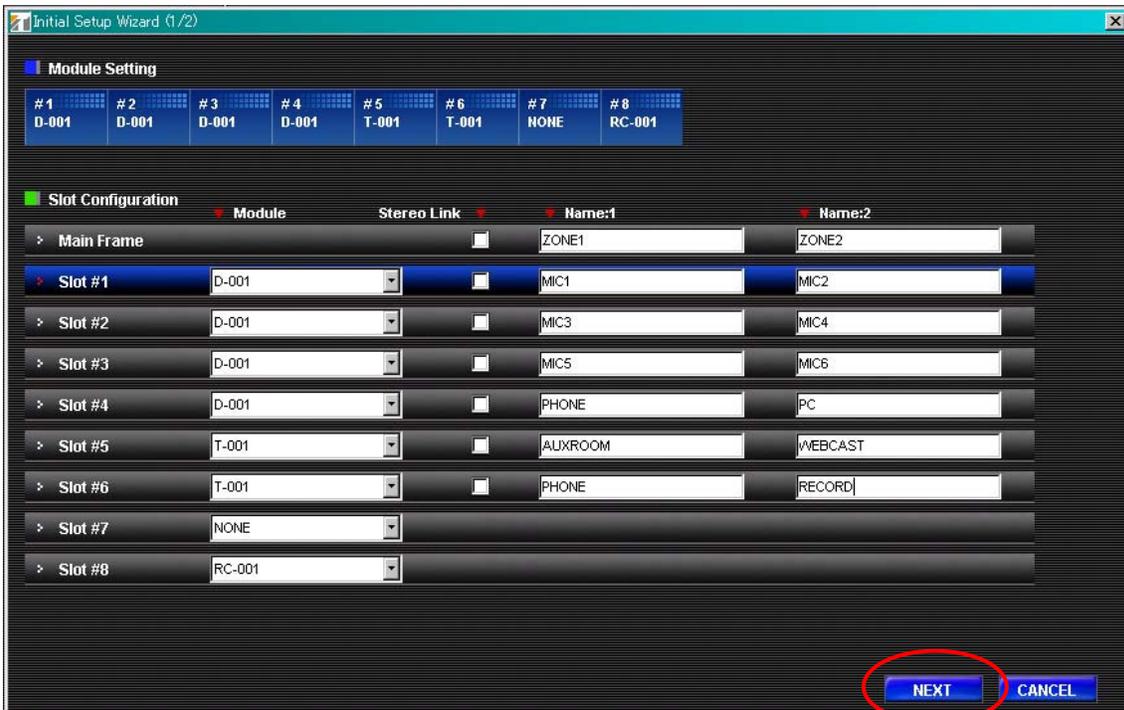
### 4. Select the modules to be inserted into the amplifier's slots from the pull-down menu in the Module field.



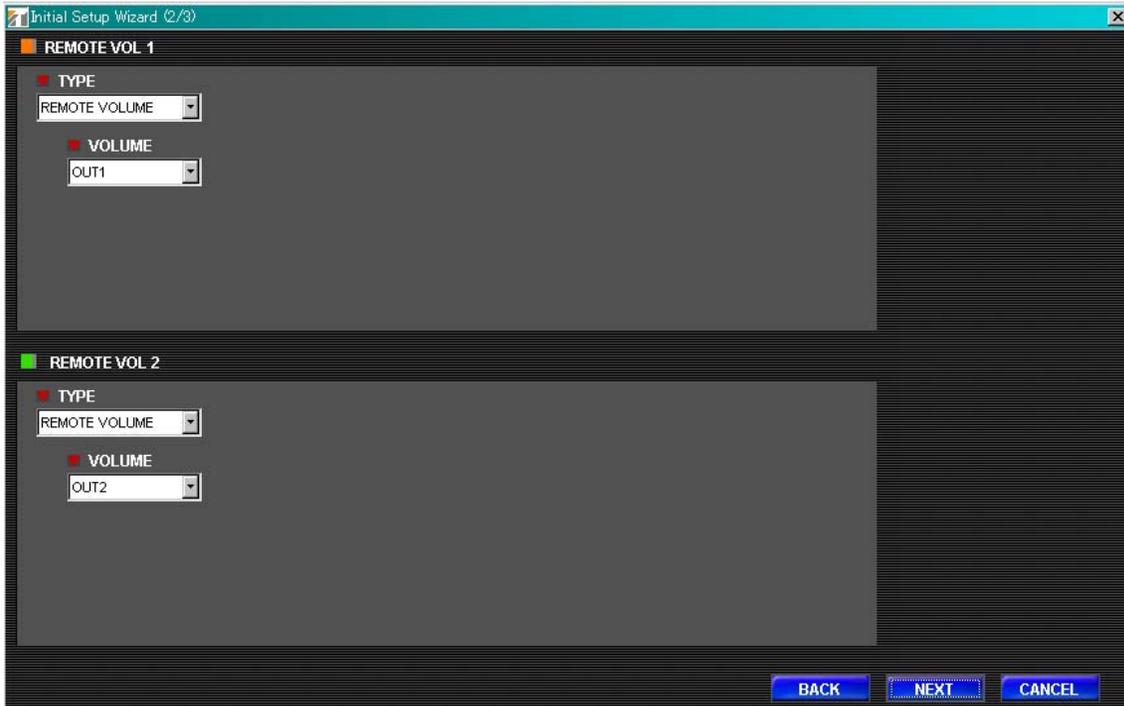
5. Select a module for each slot. At the same time, please name each channel (ex. "MIC 1").

Main Frame	Name 1 >> "ZONE1"	Name 2 >> "ZONE2"
Slot #1 >> D-001	Name 1 >> "MIC1"	Name 2 >> "MIC2"
Slot #2 >> D-001	Name 1 >> "MIC3"	Name 2 >> "MIC4"
Slot #3 >> D-001	Name 1 >> "MIC5"	Name 2 >> "MIC6"
Slot #4 >> D-001	Name 1 >> "PHONE"	Name 2 >> "PC"
Slot #5 >> T-001	Name 1 >> "AUXROOM"	Name 2 >> "WEBCAST"
Slot #6 >> T-001	Name 1 >> "PHONE"	Name 2 >> "RECORD"
Slot #7 >> None		
Slot #8 >> RC-001		

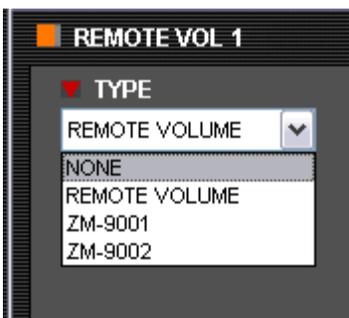
6. Click the "NEXT" button when finished.



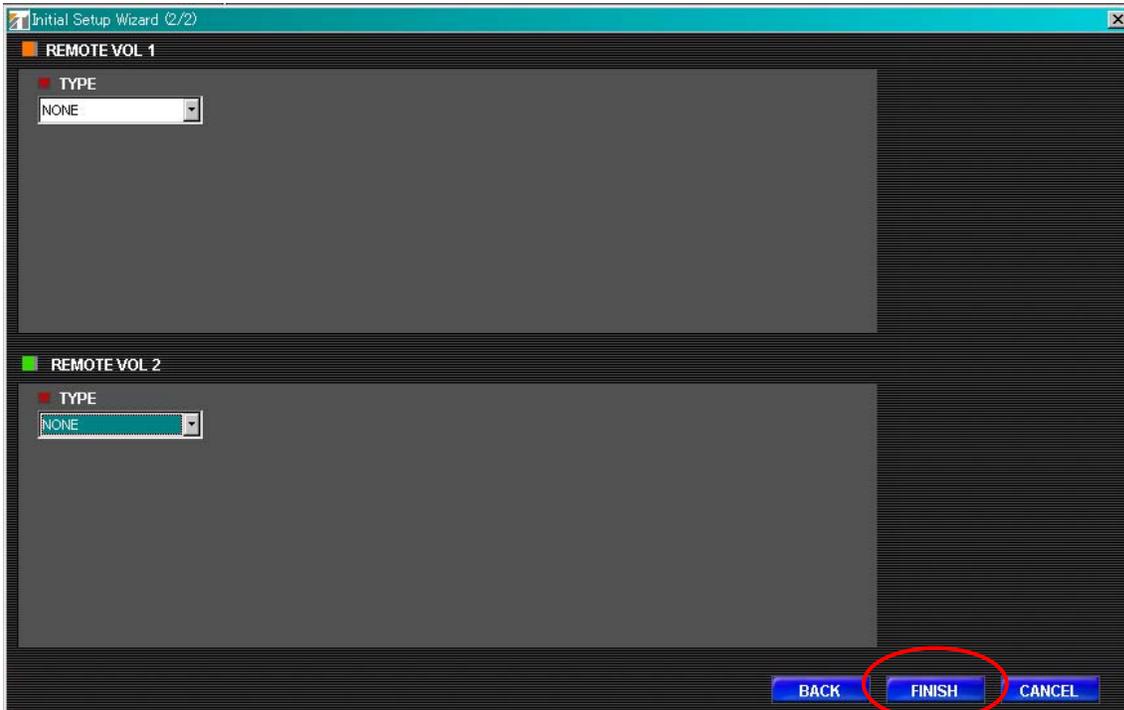
7. The following window is for setting devices connected to REMOTE VOLUME terminal on 9000M2 rear panel. If you do not use ZM-9001, ZM-9002 or ZM-9003, select “NONE” from the combo box “TYPE”.



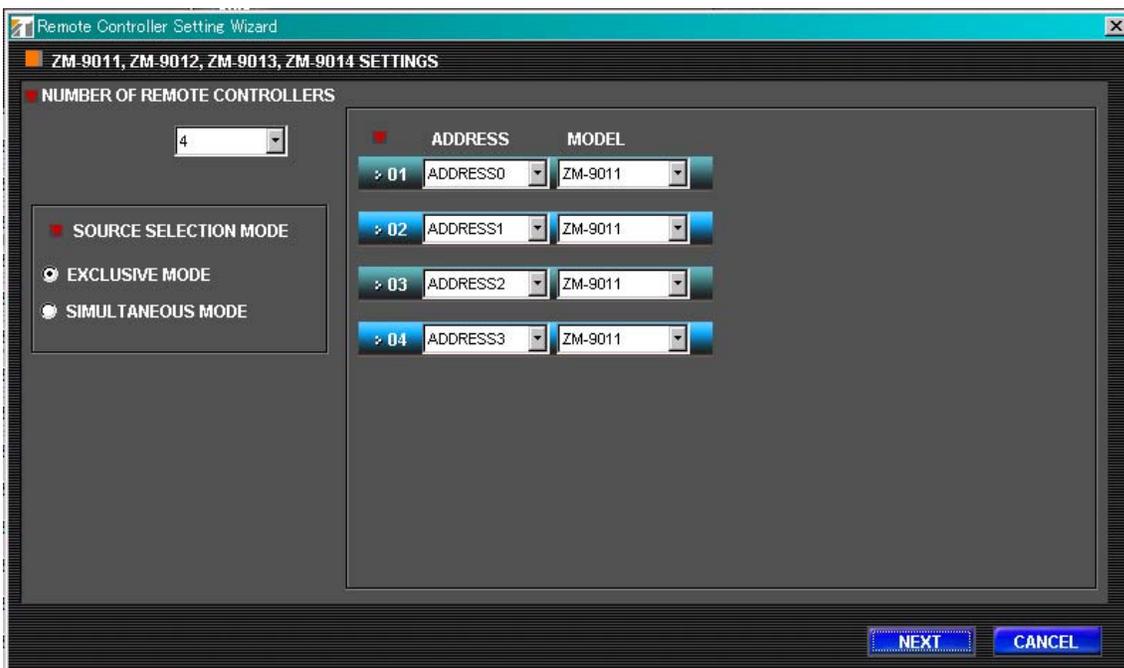
8. In this “Auto-mixing” application, select NONE for both REMOTE VOL1 and REMOTE VOL 2



9. Click "FINISH" button.

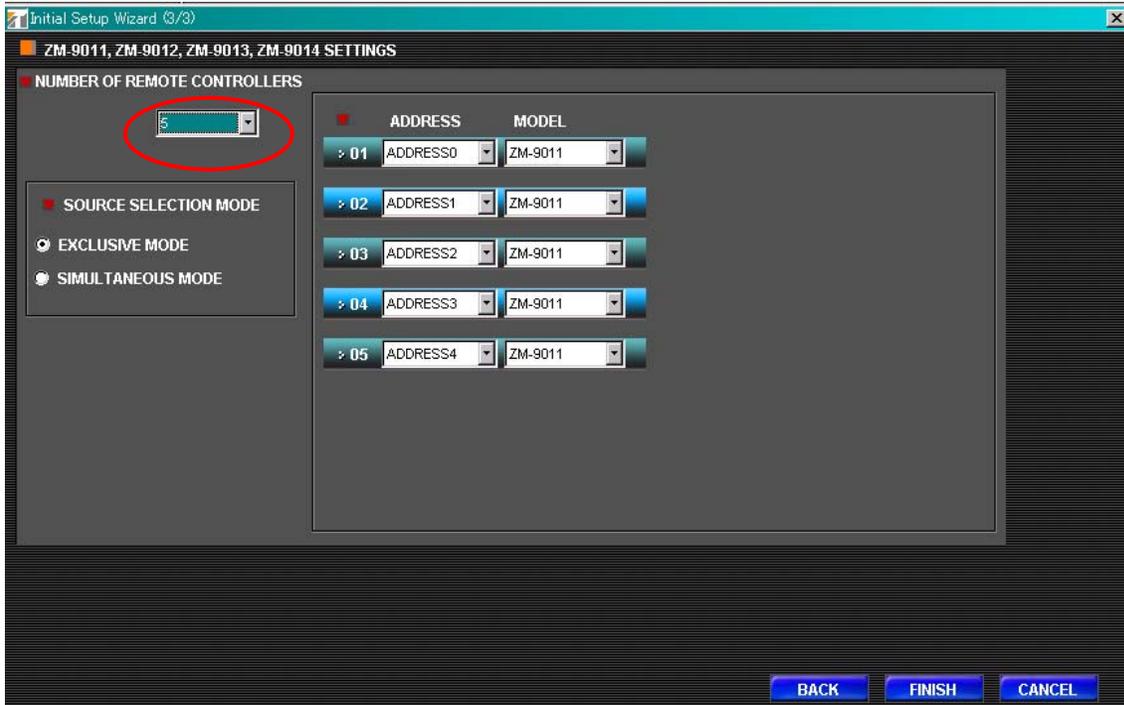


10. Setting for Remote Controller: ZM-9011/9012/9013/9014.



11. Select the number of Remote Controllers you will use.

In this application, select "5".



12. Select "ZM-9013" from the combo box "MODEL" for ADDRESS0, "ZM-9012" for ADDRESS 1 to 5.

If "CROSS POINT CHANGE" function will be assigned to a button of Remote Controller, select either type of "SOURCE SELECTION MODE".

EXCLUSIVE MODE: A single cross point can be turned ON for each output channel.

SIMULTANEOUS MODE: Multiple cross points can be arbitrarily turned ON.

Here, check "SIMULTANEOUS MODE".

**NUMBER OF REMOTE CONTROLLERS**

5

**SOURCE SELECTION MODE**

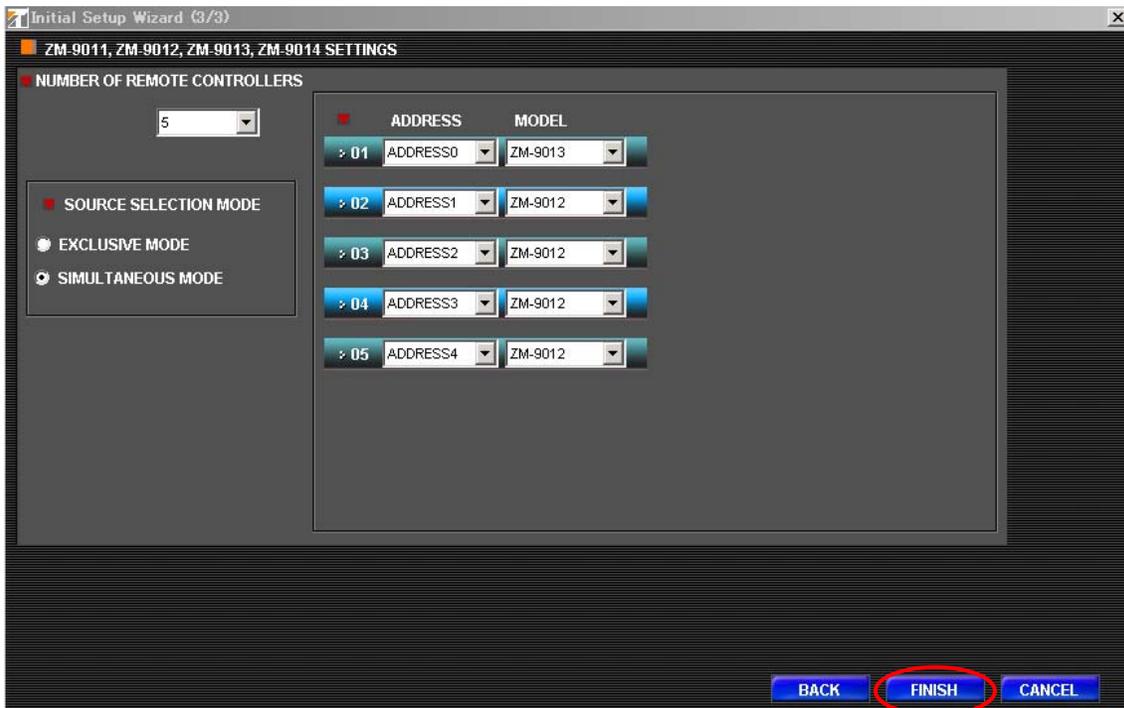
EXCLUSIVE MODE

SIMULTANEOUS MODE

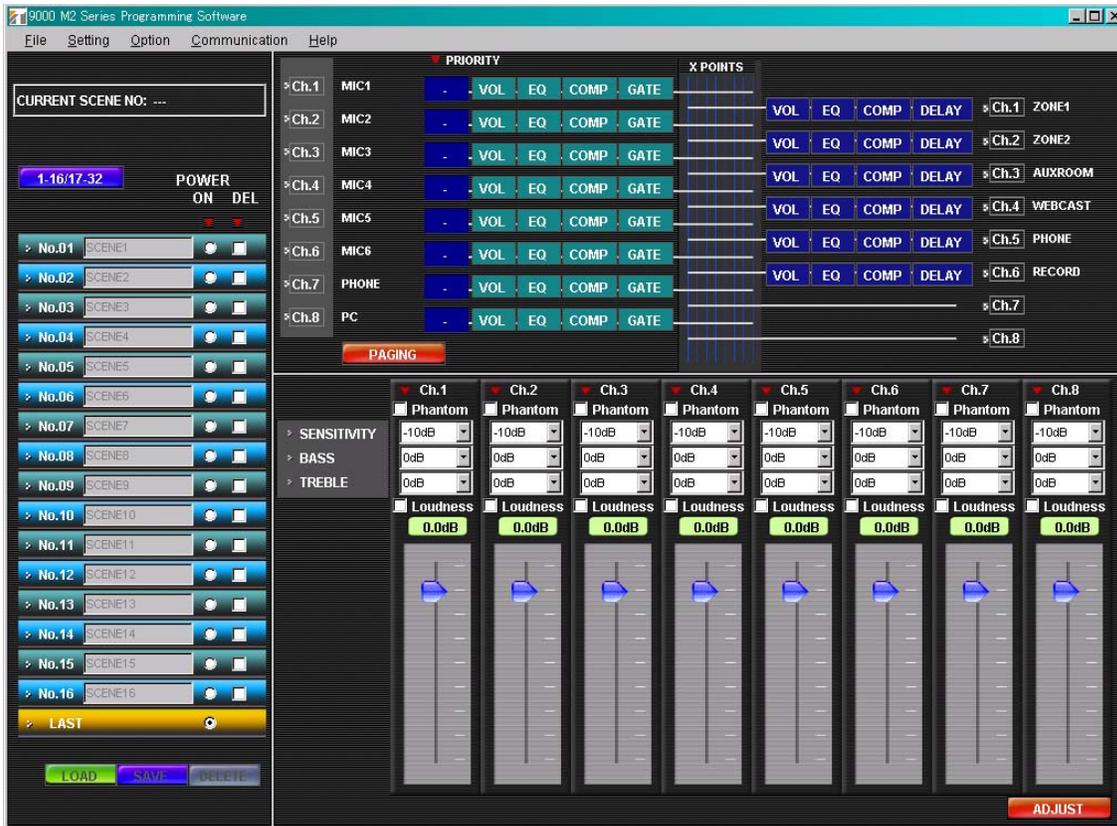
ADDRESS	MODEL
> 01 ADDRESS0	ZM-9013
> 02 ADDRESS1	ZM-9012
> 03 ADDRESS2	ZM-9012
> 04 ADDRESS3	ZM-9012
> 05 ADDRESS4	ZM-9012

ZM-9011  
ZM-9012  
ZM-9013  
ZM-9014

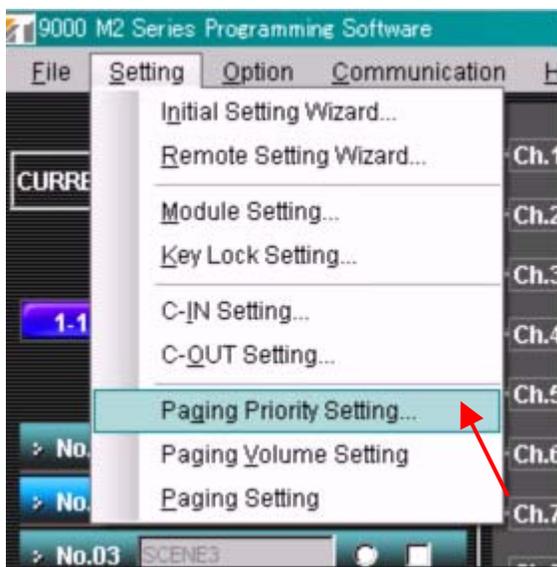
13. Click "FINISH" button. That means the initial setting is completed.



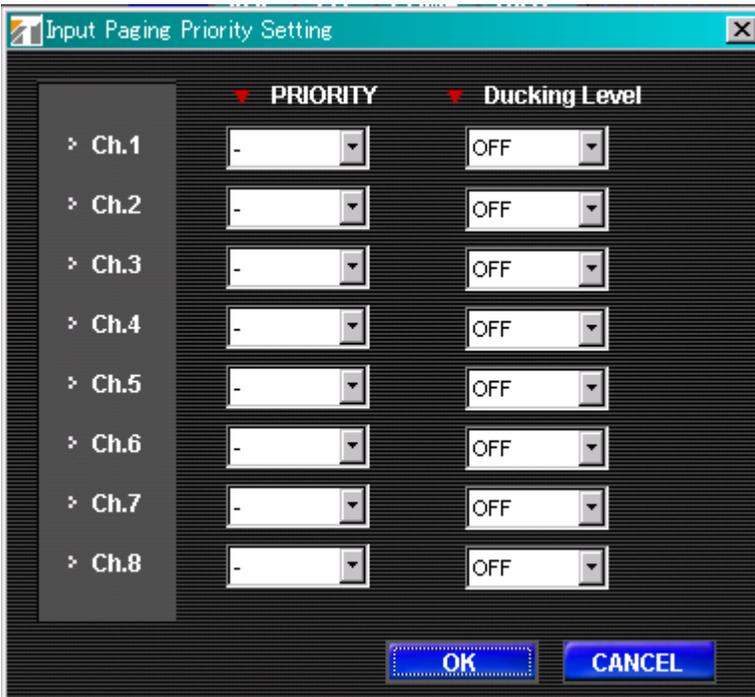
14. Programming Software is opened.



15. Click "Setting" on the menu bar and select "Paging Priority Setting".



16. The following window opens.

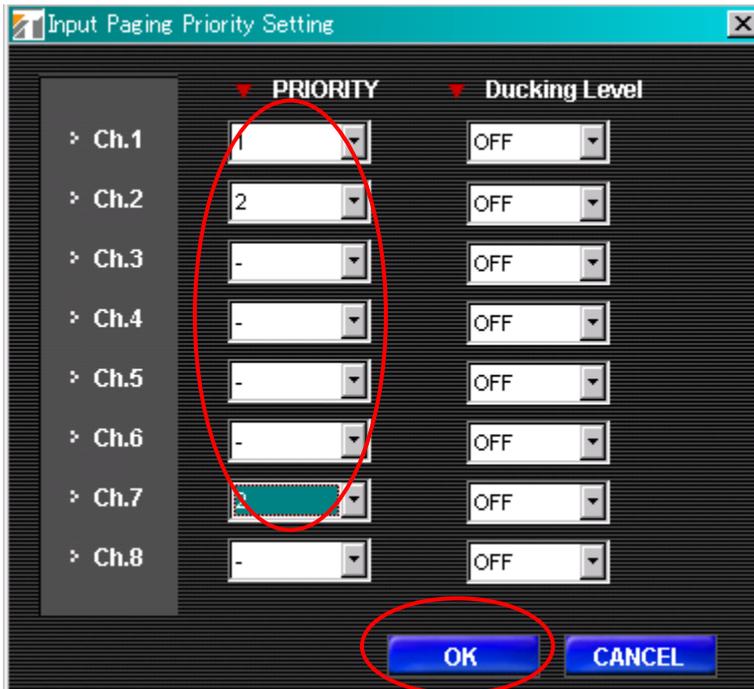


17. Assign priority level to channels.

Ch.1 >> PRIORITY 1

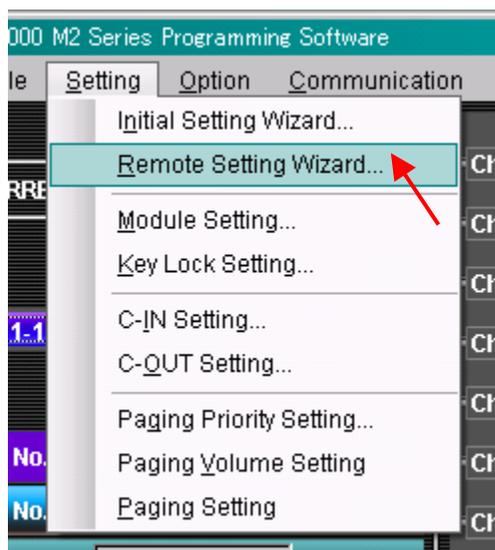
Ch.2 >> PRIORITY 2

Ch.7 >> PRIORITY 2

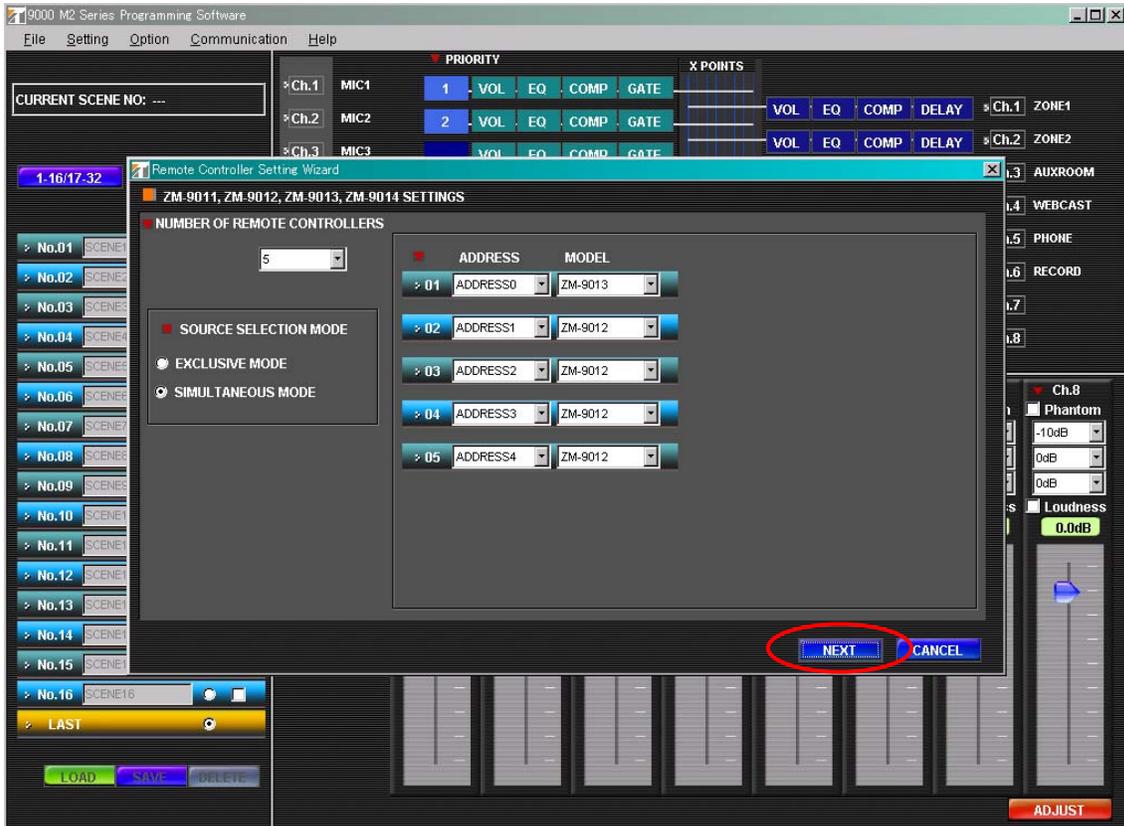


18. Setting of Assignment for ZM-9013 and ZM-9012s.

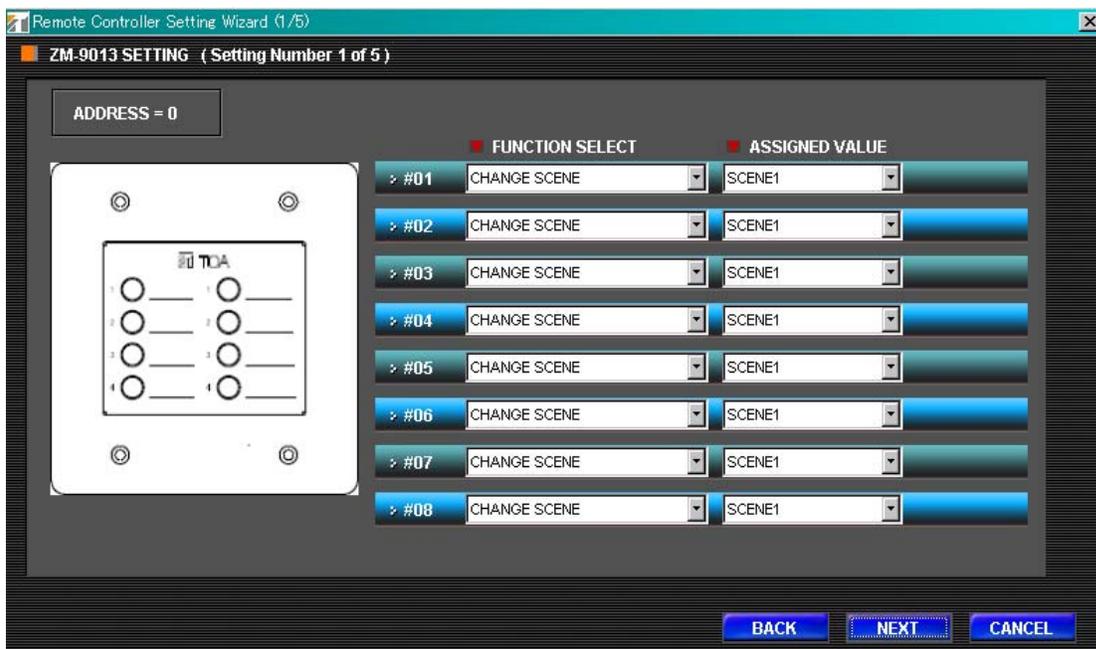
Click "Setting" on the menu bar and select "Remote Setting Wizard".



19. Remote Controller Setting Wizard is opened. Just click "NEXT" button.

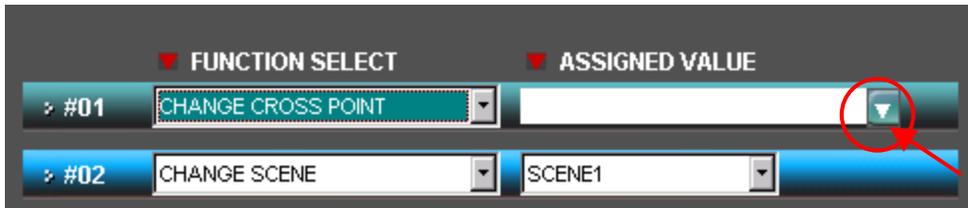


20. Setting of the first ZM-9013[0]. Here, we assign a function to each button.



21. Button #01 is used as switch of input 3 (Microphone 3).

Assign "CHANGE CROSS POINT" function to #01 and click the point circled in red.



22. Check the boxes as follows and click "OK".

\*INPUT Ch.1, 2 and 7 have priority over the other inputs. Their cross points are set by "Paging Setting".



23. As well as #01 button, assign “CHANGE CROSS POINT” function to #02 - #05 and check the boxes as follows.

[Button #02]



[Button #03]



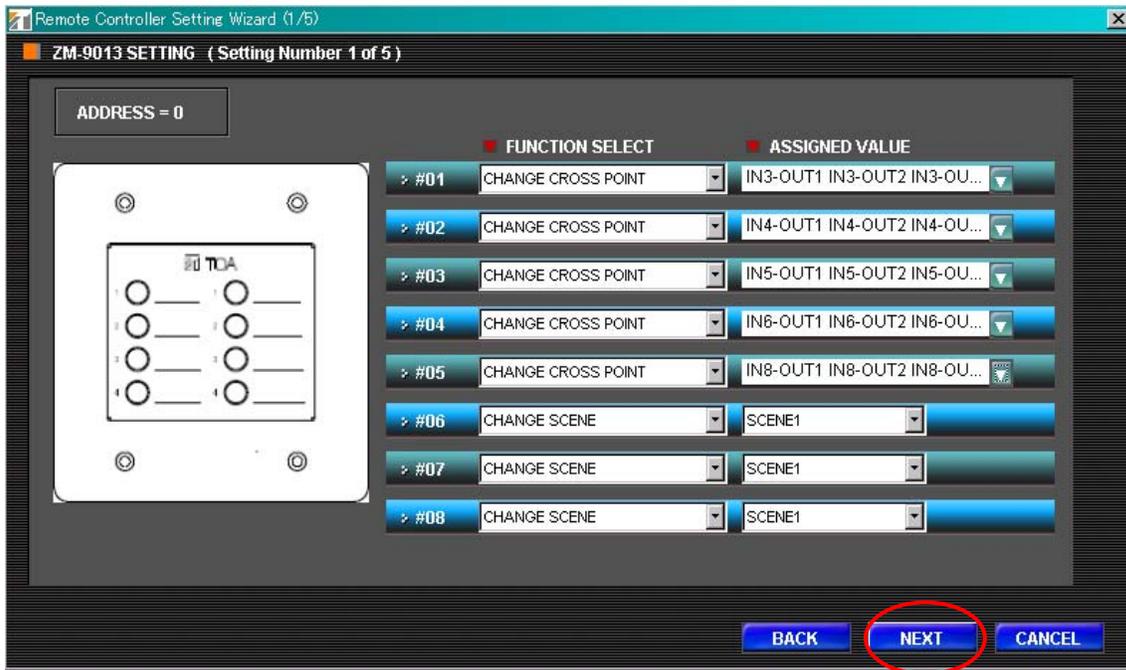
[Button #04]



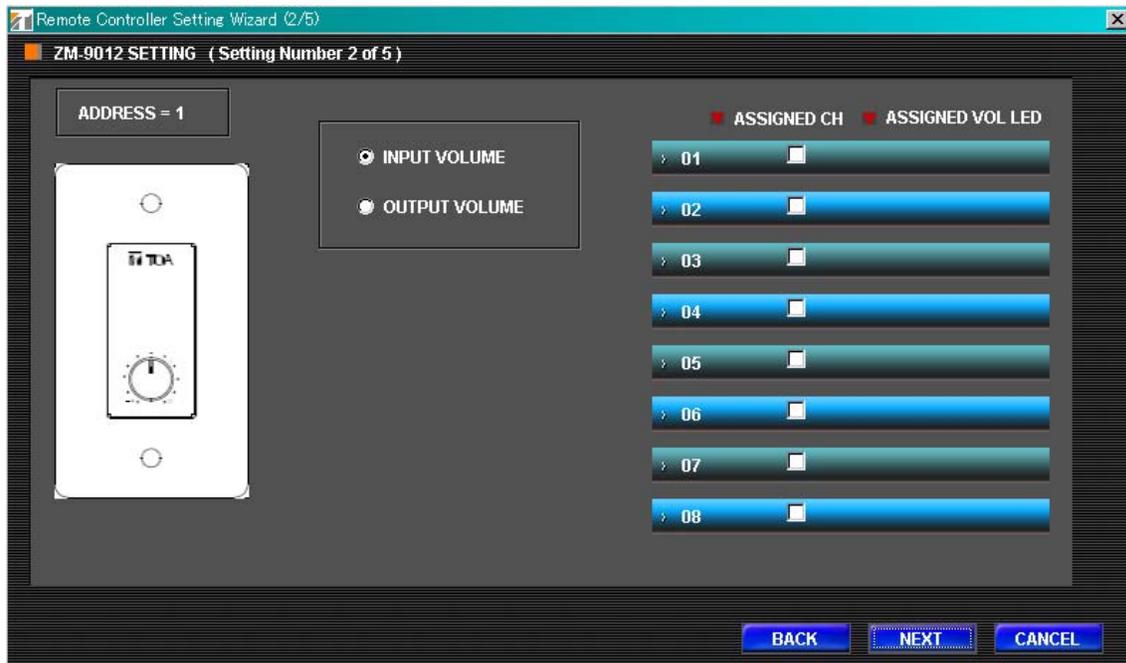
[Button #05]



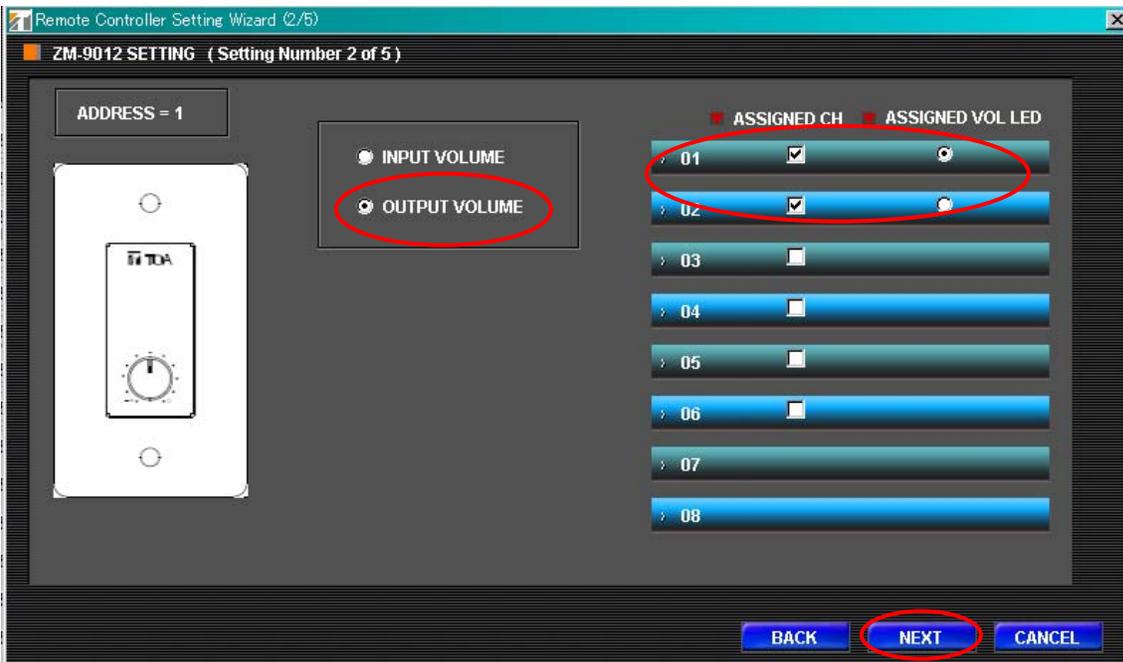
24. No assignment to # 06 - 08. Click "NEXT".



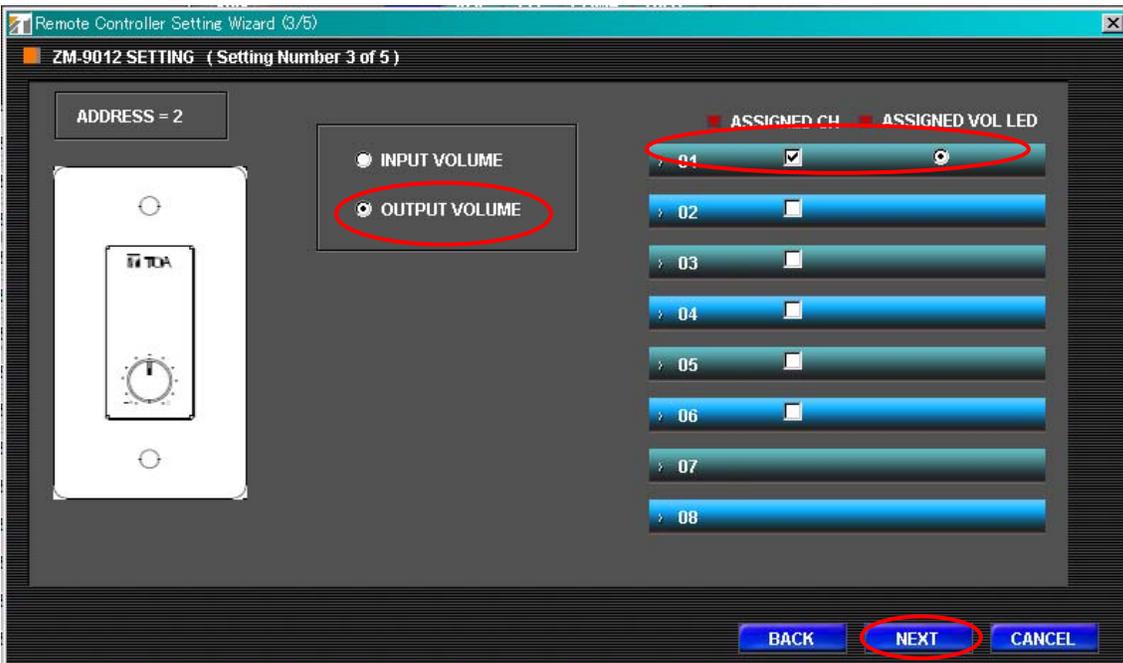
25. Setting of the first ZM-9012[1].



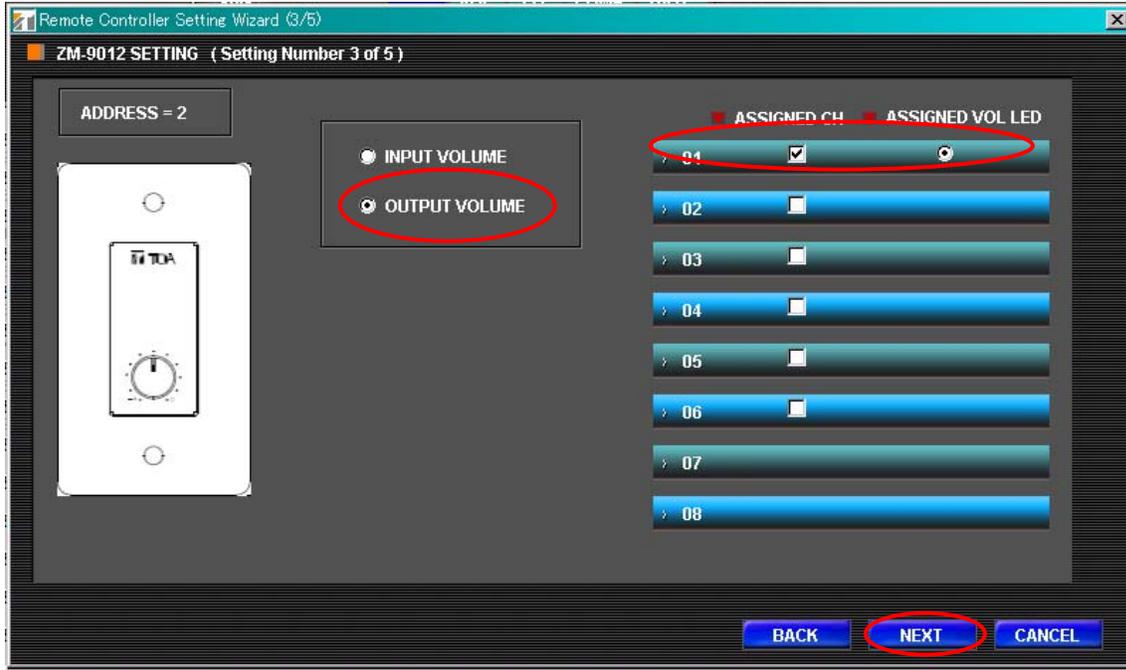
26. The first ZM-9012[1] controls the output volume of Main Room. Check the appropriate points as follows and click "NEXT" button.



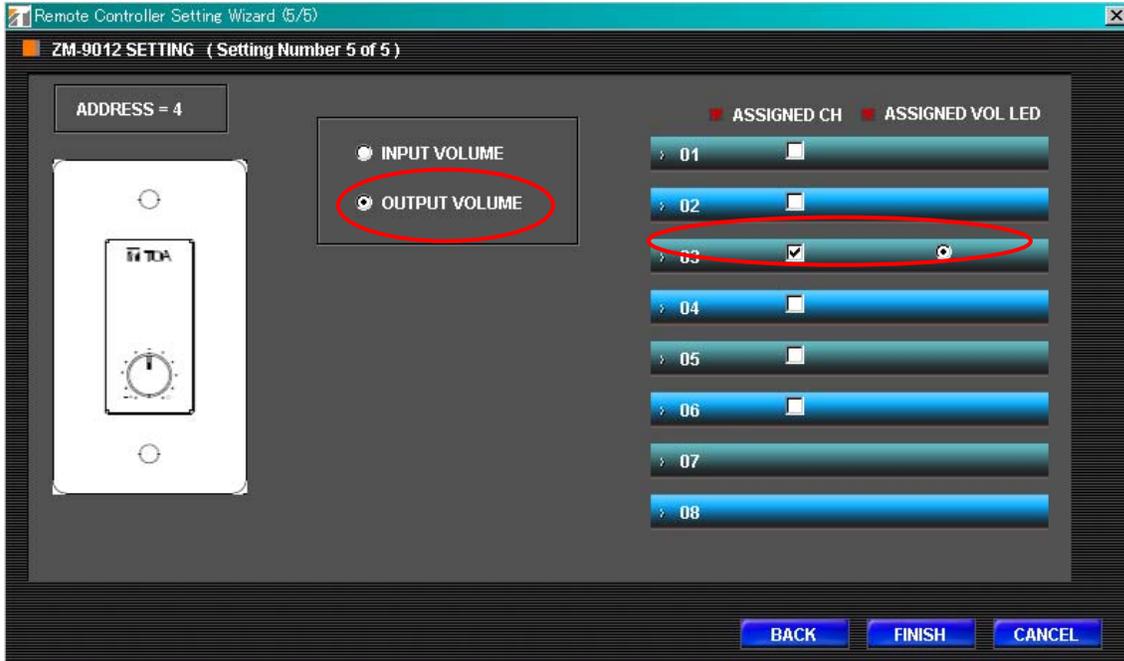
27. The second ZM-9012[2] controls the output volume of Main Room Zone 1. Check the appropriate points as follows and click "NEXT" button.



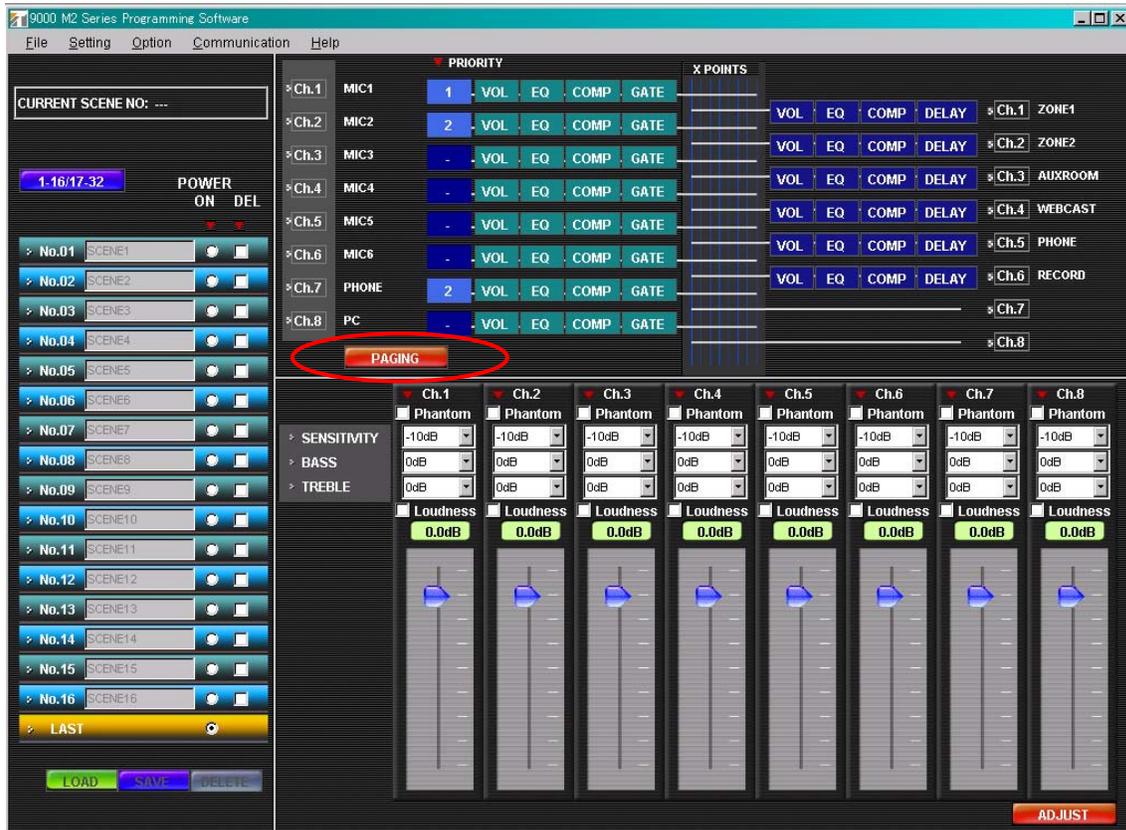
28. The third ZM-9012[3] controls the output volume of Main Room Zone 2. Check the appropriate points as follows and click "NEXT" button.



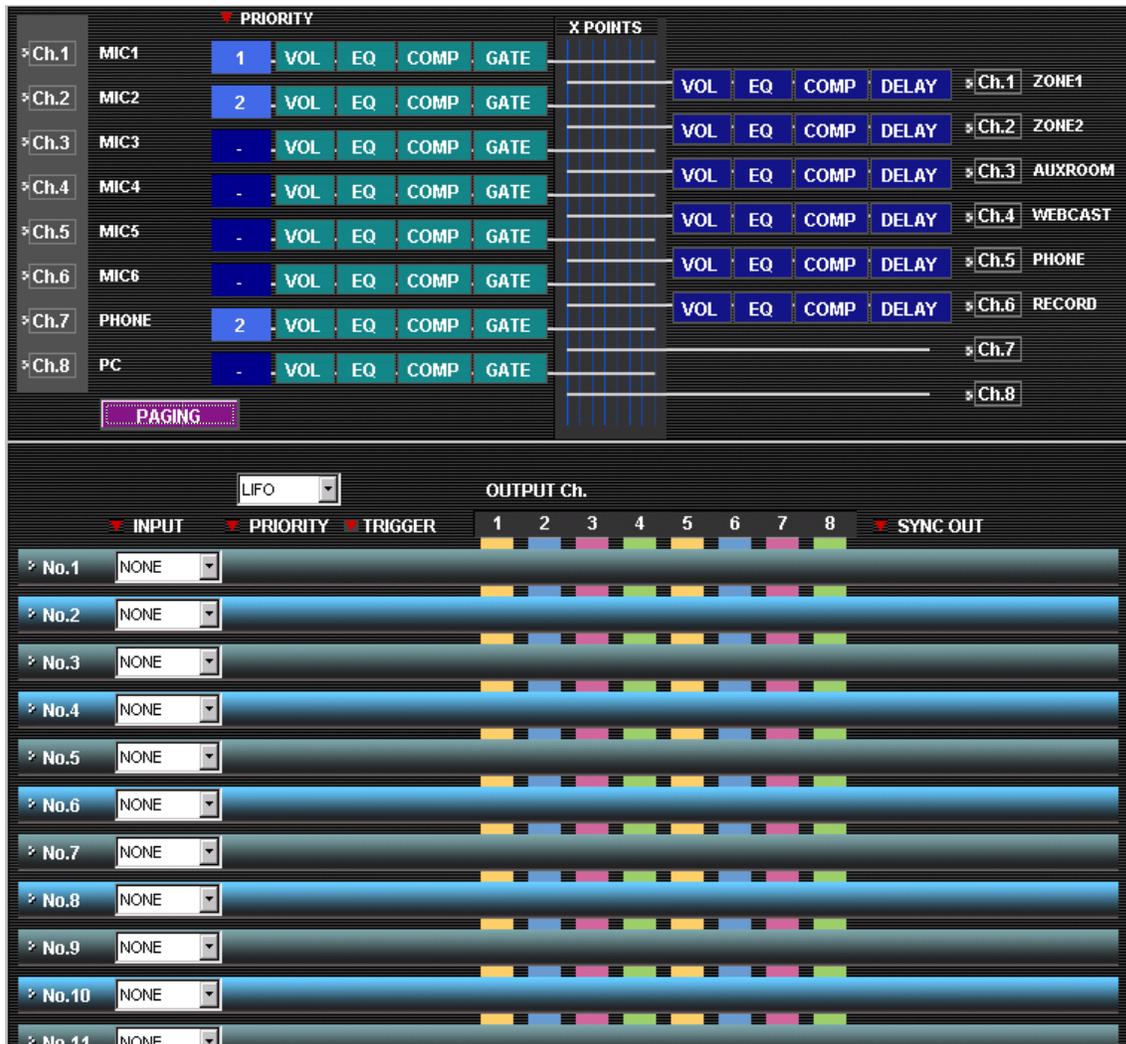
29. The third ZM-9012[4] controls the output volume of Aux Conference Room. Check the appropriate points as follows and click “FINISH” button.



30. Move on to "Paging" Setting. Click "Paging" button.



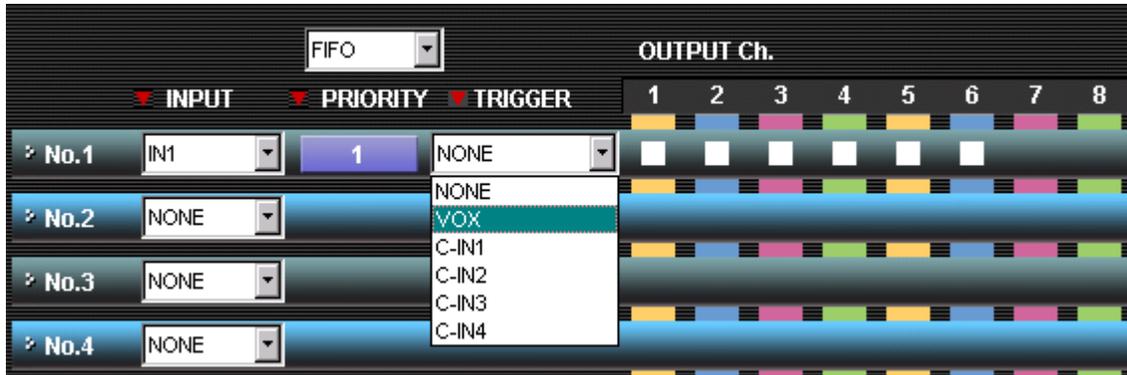
31. The Paging setting screen appears.



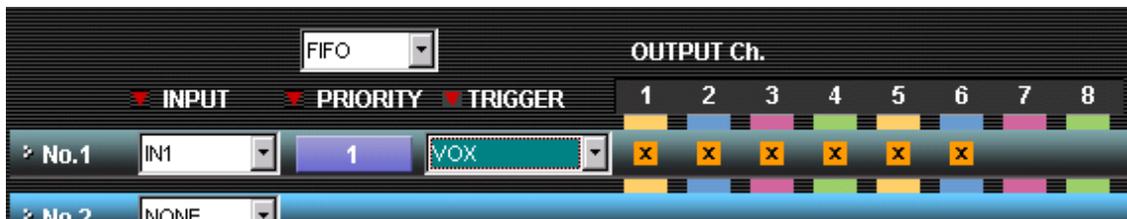
32. Select "FIFO" for the same priority operation setting.



33. Setting of INPUT Ch. 1 (=MIC 1). Select "IN1" from "INPUT" selection pull-down menu and "VOX" from "TRIGGER" pull-down menu.



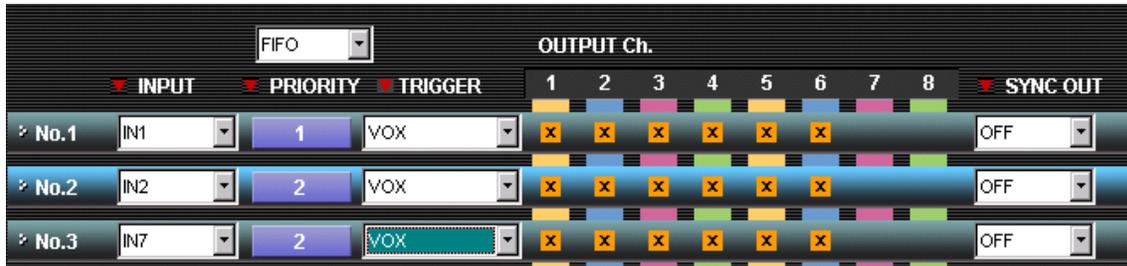
34. Check all output channel boxes.



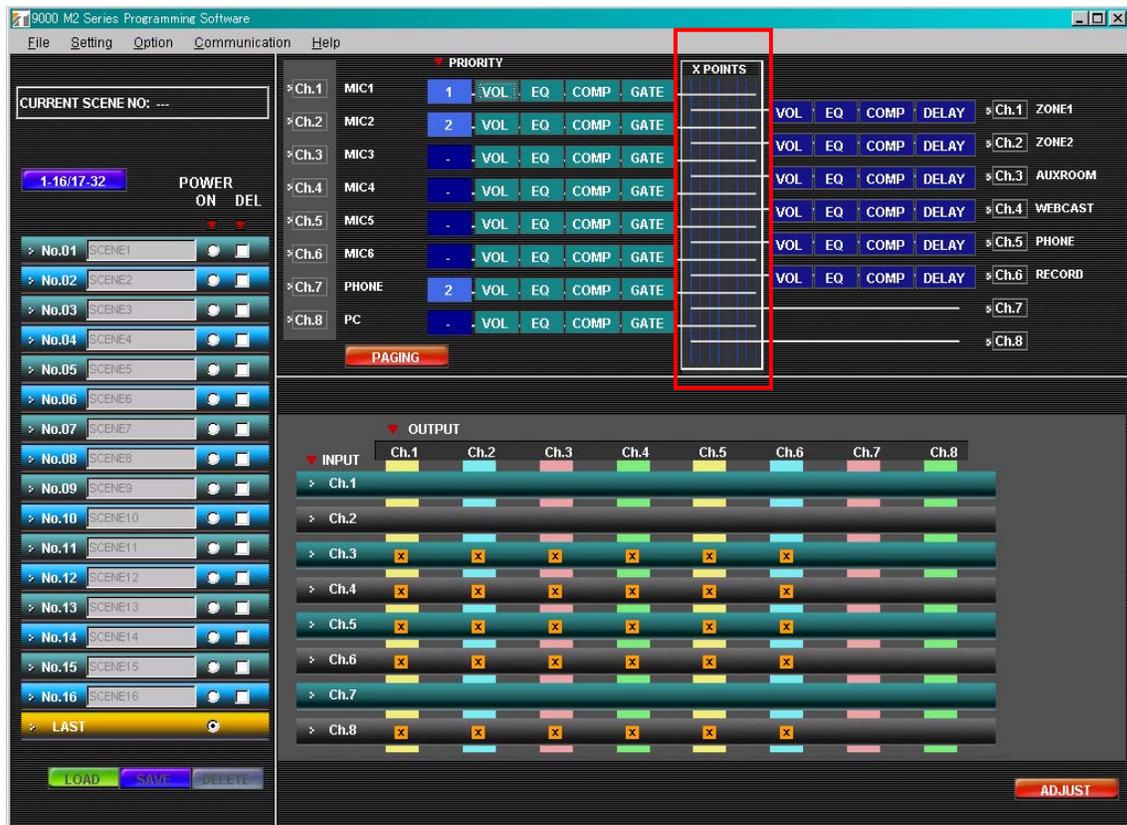
35. Setting of INPUT Ch.2 (=MIC 2). Select "IN2" from "INPUT" pull-down menu and "VOX" from "TRIGGER" pull-down menu. Check all output channel boxes.



36. Move on to Setting of INPUT Ch. 7 (=PHONE). Select "IN7" from "INPUT" pull-down menu and "VOX" from "TRIGGER" pull-down menu. Check all output channel boxes.



37. Click "X POINTS" area.

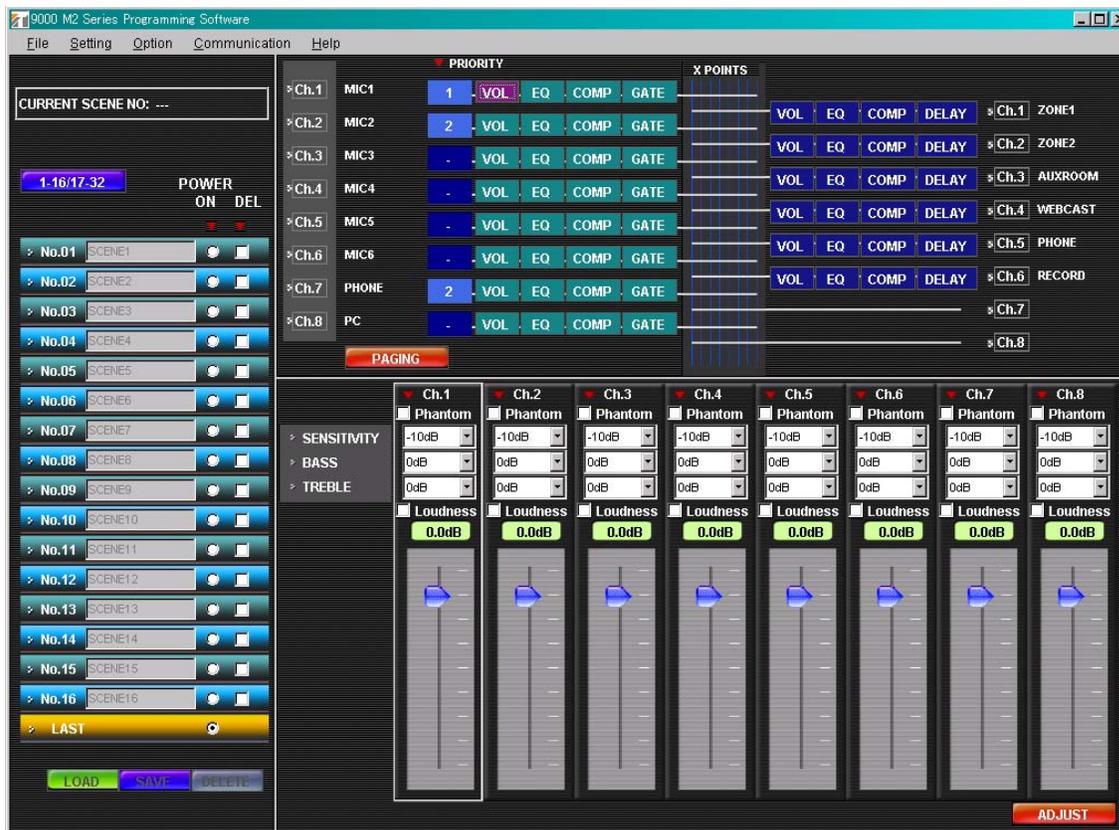


38. Initial X points when power is switched on can be set here. Remove all checks as follows.



39. Freely adjust the volume, Compressor, Equalizer setting.

< Sample screen of Input VOL >



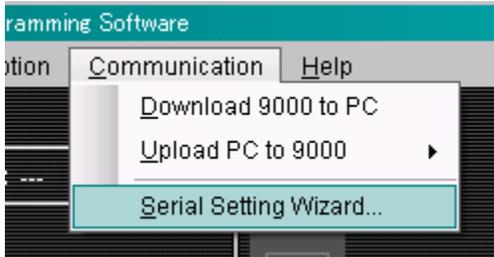
<Sample screen of Output EQ setting>

The screenshot displays the '9000 M2 Series Programming Software' interface. On the left, there is a 'CURRENT SCENE NO.' field and a list of 16 scenes (SCENE1 to SCENE16) with 'LAST' selected. Below the scene list are 'LOAD', 'SAVE', and 'DELETE' buttons. The main area is divided into two sections. The top section shows a 'PRIORITY' table for 8 channels (Ch.1 to Ch.8) with columns for 'VOL', 'EQ', 'COMP', and 'GATE'. Ch.1 (MIC1) has priority 1, and Ch.7 (PHONE) has priority 2. A 'PAGING' button is located below this table. The bottom section features a frequency response graph with a blue grid. The x-axis represents frequency from 20 to 20k Hz, and the y-axis represents gain from -18 to 18 dB. A green curve shows the EQ response. To the right of the graph is the 'OUT1 : ZONE1' EQ control panel, which includes an 'ALL Bypass' button, a frequency dropdown set to '122', a 'Select(1-12)' dropdown set to '1', a 'Type' dropdown set to 'HPF', and input fields for 'Freq.(Hz)' (37.5) and 'Gain(dB)'. There is also an 'Enable' checkbox and an 'ADJUST' button.

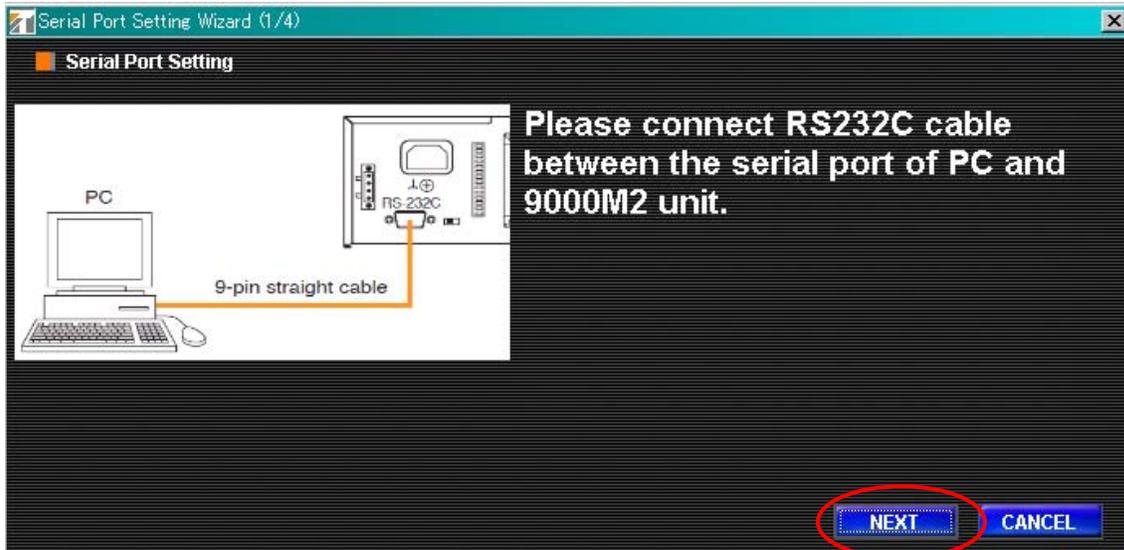
40. Save all the above settings as Scene 1.



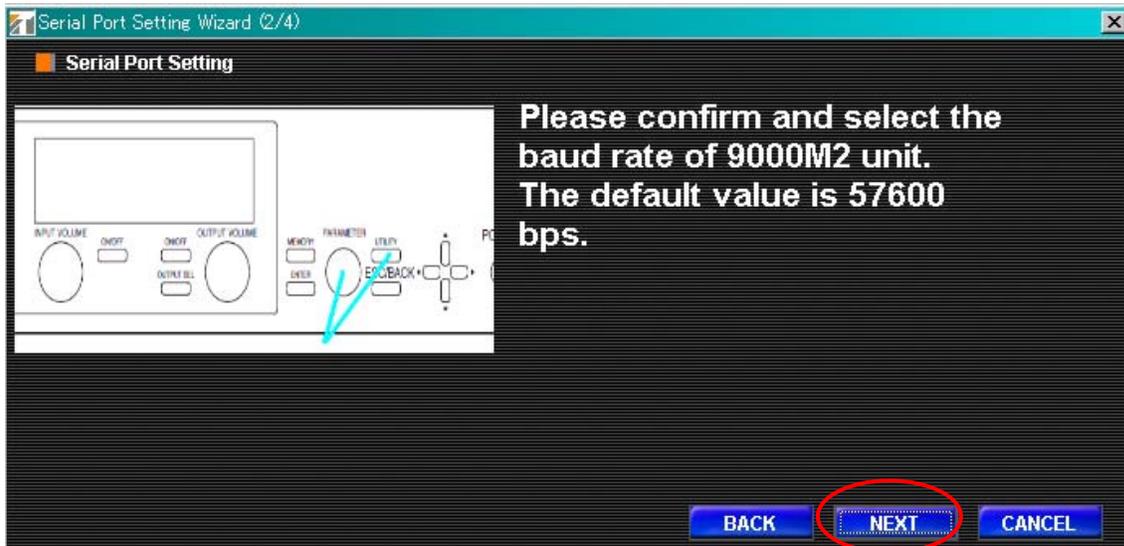
41. Click "Communication" on menu bar and elect "Serial Setting Wizard".



42. Check the connection between PC and 9000M2 unit and click the "NEXT" button.



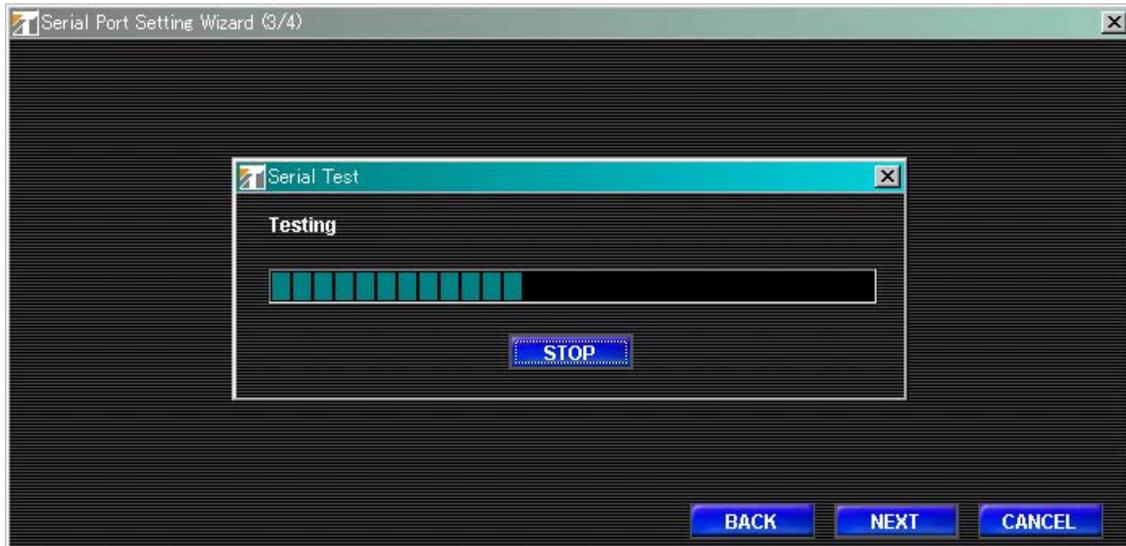
43. Confirm and select the baud rate of 9000M2 unit and click the "NEXT" button.



44. Confirm and select the baud rate of 9000M2 unit. Click the “NEXT” button.



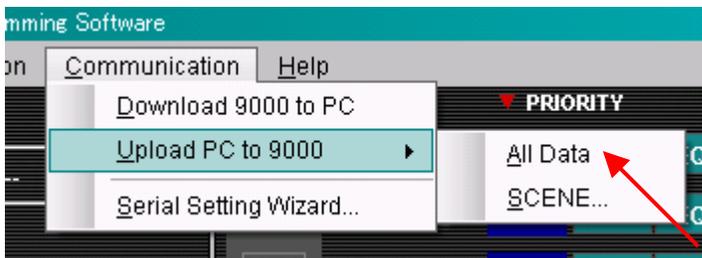
45. Shown below is the last screen.



46. If the test is finished successfully, click "OK".



47. Click "Communication" on the menu bar, select "Upload PC to 9000" and "All Data".



48. A progress bar is displayed during communications.



\*If communication is completed, the progress bar dialog is closed and downloading is completed.