

# Installation & Operator Manual

Management Software

**MS-6800**



**interM**

# Contents

<b>Features</b> .....	1
<b>System Configurations</b> .....	2
<b>Equipment Configurations</b> .....	3
<b>Equipment Setting</b>	
1. Setup the Equipment Number .....	4
2. Setup the Termination Switch (LOAD/OPEN).....	7
3. Add Sound Sources to PV-6232(VOICE FILE) and Setup the Communication Speed.....	7
<b>Wiring the Equipment</b>	
1. Making Communication Cables.....	9
2. Method to Connect RS-485 Communication Line and Communication Distance .....	9
3. Expanding the Zone through ECS-6216MS Link.....	10
4. PV-6232, EP-9216V Connection Diagram .....	11
5. Relationship of PX-6216/RM-6024/RME-6108.....	12
6. Connect to CLIENT PC.....	13
<b>Install the Server Program and Hardware</b>	
- <b>Basic Items</b>	
1. How to Setup the Control Setting of User Account (Windows7) .....	14
2. Install Programs.....	15
3. Install the Hardware by Connecting DIB-6000 (COM port) .....	20
<b>Starting Server Program</b>	
1. Login.....	22
2. Configurations .....	23
1) Communication Port Setting .....	23
2) ID/PW Setting.....	24
3) Confirm Log.....	25
4) Other Settings .....	26
3. Equipment Settings .....	27
1) Input Setting.....	27
*Setup Settings Equipment of PD-6359, PB-6207, SC-6224, AFD-6218 .....	27
2) Output Setting.....	29
3) Zone Name Setting.....	30
4) Group Setting .....	31
5) RM Setting .....	32
6) Input Sensor Setting .....	33
7) Common Contact Point Macro Setting .....	34
8) EP/Timer Setting .....	35
9) Sound Source Macro .....	36

4. EM Router Setting.....	37
5. Preset Setting .....	39
6. Scheduling Setting.....	40

### Using MS-6800 Program(Server)

1. Screen Functions .....	44
2. Control Sound Sources .....	44
1) Input Volume.....	47
2) Output Volume.....	48
3) Output EQ .....	48
4) Digi-Link (Sound Source Controlling).....	49
- CDP Controlling .....	49
- TUNER Controlling .....	49
- DECK Controlling .....	49
- PC MP3 Controlling .....	49
3. Control Broadcastings.....	52
1) Select a Sound Source .....	52
2) Select a Group .....	53
3) Select a Zone .....	53
4) MIXING Volume Controlling.....	55
5) Zone Selecting Broadcasting .....	57
6) Preset Selecting Broadcasting .....	58
7) Preset .....	58
8) Broadcasting Status .....	59
9) Power Supplier.....	59
10) Emergency Broadcasting.....	59
11) Equipment Monitoring (PD-6359, PB-6207, SC-6224, AFD-6214).....	59

### MS-6800 Program Help.....64

### Using MS-6800 Program (Client) .....65

- Install Client Programs .....	65
- Starting Client Programs .....	69
1. Login.....	69
2. Screen Function.....	70
- Additional Items	
1. Connect a PC MIC to Client PC and Check the Setting Status.....	72
* Example of User Screen Configurations depending on User Authority .....	73
1. If user authority is "Manager" .....	73
2. If user authority is "User" .....	75
3. If user authority is "Guest" .....	77

## Features

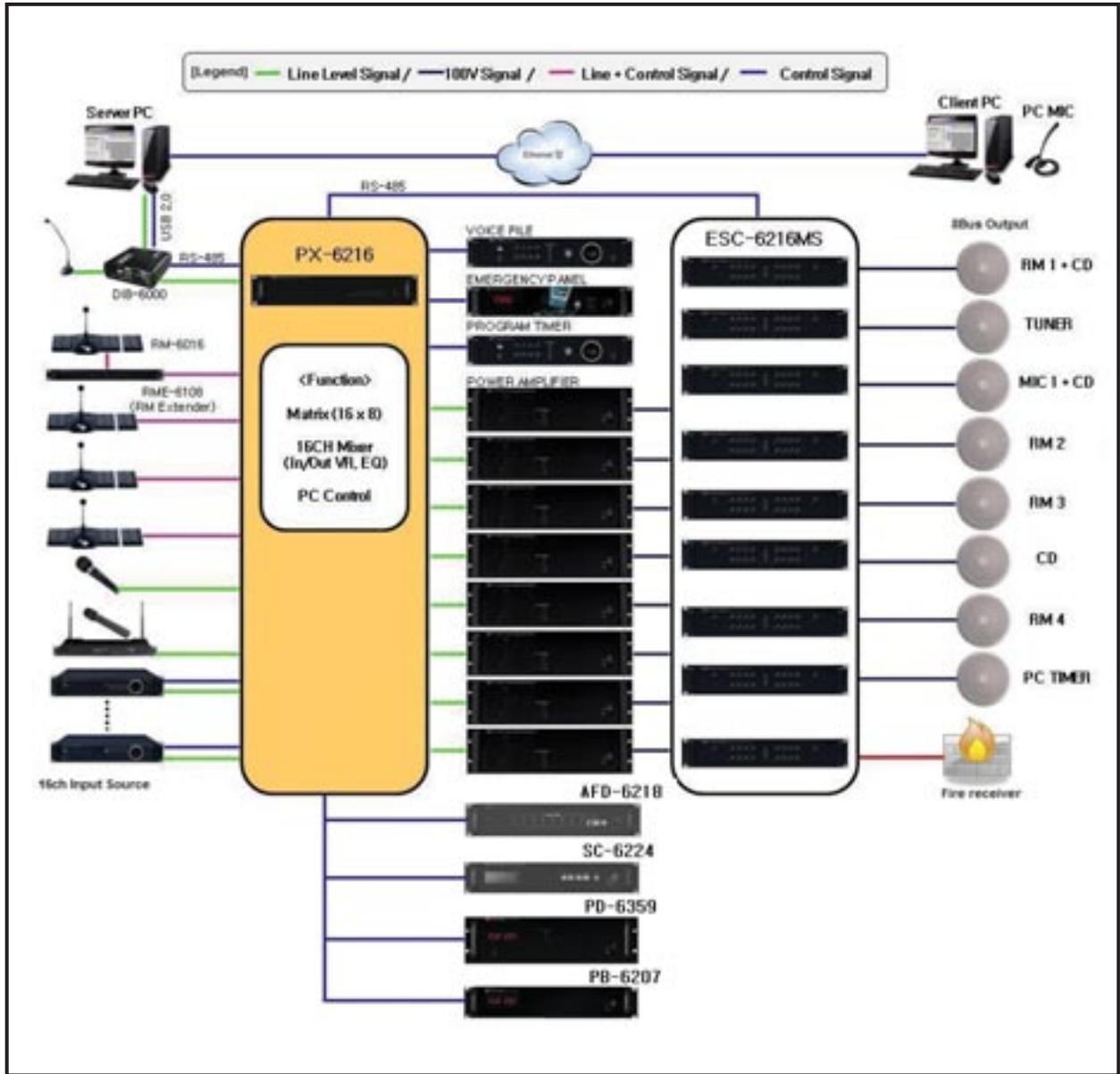
### 1. Control the system with PC Windows Programs (OS: Win XP, Win 7) – Common PC configuration

- 1) Monitoring all zone broadcasting status. (Max. 160 Zone, RS-485 communication)
- 2) 16x8 Audio Matrix System that 8-unification simultaneous broadcastings are possible
- 3) Volume control of 7-Band EQ, mixing sound sources
- 4) Saving function of equipment setup information
- 5) System log record (EM, RM broadcastings)
- 7) MIC broadcasting using PC MIC (exclusive for Client PC) and common MIC (Ex: RM-01).
- 8) BGM broadcasting using PC sound sources (HDD).
- 9) Timer broadcasting using PC sound source (HDD), source unit(CDP)
- 10) Remote control of source units (CDP, TUNER).
- 11) Macro setting about input sensor and making evacuation broadcasting scenario (Time, zone, sound source)
- 12) Zone macro setting for all buttons of RM.
- 13) PD-6359, PB-6207, AFD-6218, SC-6224 Equipment status monitoring and controlling

### 2. Preparations Considering PC Errors

- 1) Emergency Broadcasting
  - When setting the common macro, information is also saved in PX-6216 to prepare the PC errors.
  - When setting the emergency scenario function, information is also saved in PX-6216 to prepare the PC errors.
- 2) TIMER Broadcasting
  - If PW-6242(A) is connected together, it will be converted automatically for PC error. (Priorities: PC TIMER > PW-6242A))
  - ※ Caution  
When making the schedule in the PW-6242(A), Start/Finish times should be same as the contents in PC.  
If it is operated with PW-6242(A), broadcasting will be on in the zone set in the MS-6800.
- 3) RM Macro Operation
  - Macro setting information is saved in the PX-6216 for PC errors.

# System Configuration



## Equipment Component

### - Basic Equipment

Model	Product	Functions
PX-6216	PA Control and Audio Matrix system	MASTER (Main Controller)
ECS-6216MS	EMERGENCY COMBINATION SYSTEM	SLAVE (For zone expansion), Max. 10 units expansion
DIB-6000	DIRECT BOX	Multi Converter (Data, audio)
RM-6024	SYSTEM REMOTE MIC STATION	System remote MIC, max. 16 units expansion
PB-6207	BATTERY CHARGER	Charging the battery
PD-6359	POWER DISTRIBUTOR	Distributing the power to equipments

※ RME-6108 is required if 5 or more RM-6024s are used.

### - Additional Equipment

Model	Product	Functions
RM-6012KP	12KEY MIC STATION KEYPAD	Remote MIC expansion keypad (12KEY)
RME-6108	REMOTE MIC EXTENDER	Remote MIC expansion unit (8CH)
PV-6232	VOICE FILE	Store the sound source of Emergency scenario
AFD-6218	FAULT DETECTOR	AMP Status indication function through the front LED
SC-6224	Speaker Line Checker	Check channel speaker line
TP-6231	TELEPHONE PAGING	Telephone paging device

### - PC Requirements

Operation System	Windows XP	Windows 7
CPU	Dual-Core, 2.8GHz (Min. 2.4GHz)	Dual-Core, 2.8GHz or higher
RAM	4GB (Min. 2GB)	4GB or higher
Monitor Resolution	1280 x 768 (1280 x 1024)	
Audio Terminal	LINE IN, LINE OUT, MIC IN (For Client PC, only MIC IN terminal is used.)	
HDD	250G or higher	
PC Type	Desktop	

#### ※ Caution

1. Do not use on the PC which operates Virtual XP on Windows 7.
2. Refer to [Control Panel/System] information for Windows operations.

# Equipment Setting

## 1. Setup the Equipment Number

If equipment number is changed during program is operated, program should be re-executed.

### 1) PX-6216

PX-6216 does not need to set up additional ID.

### 2) ECS-6216MS



- A) Setup the equipment number in accordance with wiring conditions by using the rear panel DIP switch.
- B) One PX-6216 is used in entire system, and ECS-6216MS is used if it is expanded.
- C) ON switch number will be the equipment number as shown in above.

DIP Switch	1	2	3	4	5	6	7	8	9	10
Equipment No.	1	ECS-6216MS								
	2		ECS-6216MS							
	3			ECS-6216MS						
	10									ECS-6216MS

Max. 10 ECS-6216MS can be connected.

※ Caution: if equipment number is not set, zone display LED will blink.

If equipment numbers are overlapped, communication will not be available.

In above cases, check the equipment number setting.

D) Zone allocations of set equipment are as follows.

Number	1	2	3	4	5	6	7	8	9	10
Zone Limits	1~16	17~32	33~48	49~64	65~80	81~96	97~112	113~128	129~144	145~160

However, if 9-10 switches are ON in a same time and power is supplied, equipment will be on Manual Relay Control Mode. It can be used for track inspections when constructing.

### 3) RM-6024(TP-6231)



TP-6231 can be used as RM-6024, and the setting of equipment number is same.

A) Setup the equipment number in accordance with connecting conditions by using the rear panel DIP switch.

Any setting, not '0', will be available.

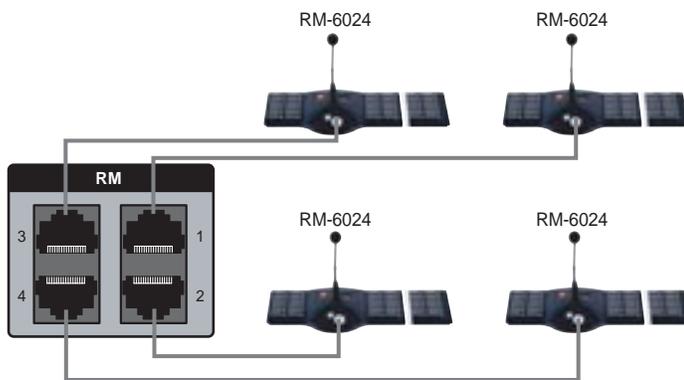
If equipment number is not set, zone display LED will blink.

FAULT LED on the front panel will be on if same numbers are used.

At this time, check the equipment number settings.

B) Example when connecting 4 RMs to PX-6216

- Setup the 1 for equipment number of RM-6024 connecting to RM1 terminal.
- Setup the 2 for equipment number of RM-6024 connecting to RM2 terminal.
- Setup the 3 for equipment number of RM-6024 connecting to RM3 terminal.
- Setup the 4 for equipment number of RM-6024 connecting to RM4 terminal.

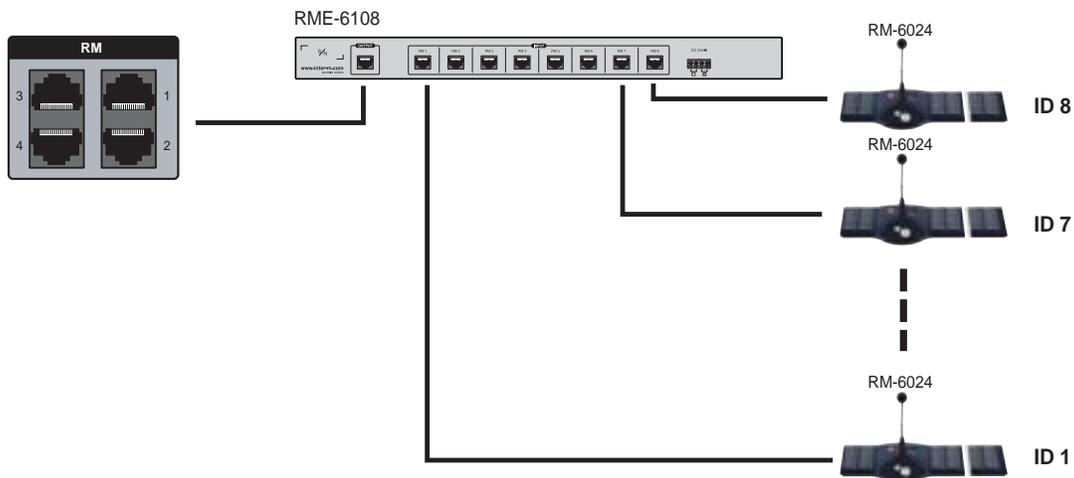


C) When connecting to PX-6216 through RME-6108

Refer to below figures and caution to relationship between connecting terminal and equipment number.

※ Caution: if equipment numbers are overlapped, it will be FAULT status.

Check the overlapped numbers through LED on the RME front panel and re-set it.



Each RM of PX-6216 uses independent communication, so 4 RMs can be expanded as shown in above figure.

D) Setting method is as follow, and if data number of ON switch is added, it will be the equipment number.

Pin No.		1	2	3	4	5
Data		1	2	4	8	16
Address	1	ON				
	2		ON			
	3	ON	ON			
	4			ON		
	5	ON		ON		
	⋮	⋮	⋮	⋮	⋮	⋮
	15	ON	ON	ON	ON	
	16					ON
⋮	⋮	⋮	⋮	⋮	⋮	

(Ex: when turn on number 1 and 3, equipment number will be 5 by adding 1 and 4 which is actual number.)

(\* Refer to RM-6024 Manual for detail information)

**4) PD-6359, PB-6207, AFD-6218**



A) Setup the equipment number in accordance with connecting condition by using rear panel DIP.

B) Error may occur if same numbers are overlapped in the system..

C) Setting method is as table below, and number of ON switch will be the equipment number.

Max. 20 can be expanded for each.

Pin No.		1	2	3	4	5
Data		1	2	4	8	16
Address	1	ON				
	2		ON			
	3	ON	ON			
	4			ON		
	5	ON		ON		
	19	ON	ON	ON	ON	
	20					ON

(Ex: Equipment number will be 5 by adding 1 and 4 which is the real number when number 1 and 3 is ON.)

5) SC-6224

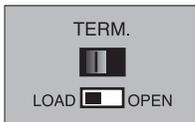


- A) Setup the equipment number in accordance with connecting condition by using rear panel DIP.
- B) Error may occur if same numbers are overlapped in the system.
- C) Setting method is as table below, and number of ON switch will be the equipment number.  
Max. 12 can be expanded for each.

Pin No.	1	2	3	4
Data	1	2	4	8
Address	1	ON		
	2		ON	
	3	ON	ON	
	4			ON
	5	ON		ON
	⋮	⋮	⋮	⋮
	12			ON

(Ex: Equipment number will be 5 by adding 1 and 4 which is the real number when number 1 and 3 is ON.)

2. TERMINATION Switch (LOAD/OPEN) Setting-General



- 1) For RS-485 communication, Termination switch setting (Load/Open) on the rear panel is required to prevent the external noise and stabilize the data transfer.
- 2) Set the Termination Switches in the equipment which link is started and ended to LOAD. Set the other equipment to OPEN.



※ Caution: if setting is incorrect, communication error may occurs.

3. Add Sound Sources to PV-6232(VOICE FILE) and Setup the Communication Speed

- 1) Add broadcasting sound sources to PV-6232.
    - A) Connect PC and PV-6232
      - If PC and PV-6232 is connected by using cable, PC will recognize it as a movable disk.
      - "USB DEVICE" will be displayed on the equipment window.
- ※ Caution: when removing the cable connected to PC and unit, please use "Safe remove of hardware" on the PC, and stop the "USB Storage" before removing the unit. If not, data damage may occur.

B) Add Scenario Broadcasting Sound Source (Only for MP3 file is possible)

1~99 tracks can be used as scenario sound sources among sound sources saved in PV-6232.

- Add '001~099' in front of file name used as sound source.
  - If PC and PV-6232 is connected with USB cable, PC will recognize it as a movable disk.
  - Open the movable disk and copy/paste the entire file to be used as sound sources.
- (\* Refer to PV-6232 User Manual for detail information)

2) Add Basic Emergency Broadcasting Sound Source (Only MP3 file is possible)

If scenario function is not used or Bypass Function is selected, basic emergency sound sources in the PV-6232 will be played. These sound sources can be added or changed.

A) If PC and PV-6232 is connected with USB cable, PC will recognize it as a movable disk.

- Select the disk and check the folder structure in below, and if not, make the same structure.
- Change the basic emergency sound sources name to {EMORG.mp3} and copy it in IMSND folder.



- Remove the USB cable and check the operation.

- ※ Caution: if file name and folder structure is wrong, normal play will not be possible.
- ※ Caution: if USB cable is not removed, normal play will not be possible.

3) Change the PV-6232 Communication Speed (Baud Rate)

For EM scenario broadcasting, communication speed should be adjusted if PV-6232 is used.

A) Default setting is 19200BPS. It should be changed to 9600BPS.

B) How to Change

- Push the [STOP] button on PV-6232, then "BaudRate 19200BPS" will be displayed.



- Use [▶▶] / [◀◀] buttons on PV-6232 to select 9600BPS.



- Push the [ENTER] button on PV-6232 to save and finish the setting.
- Setup will be cancelled if [DELETE] button on PV-6232 is pushed during communication setting.

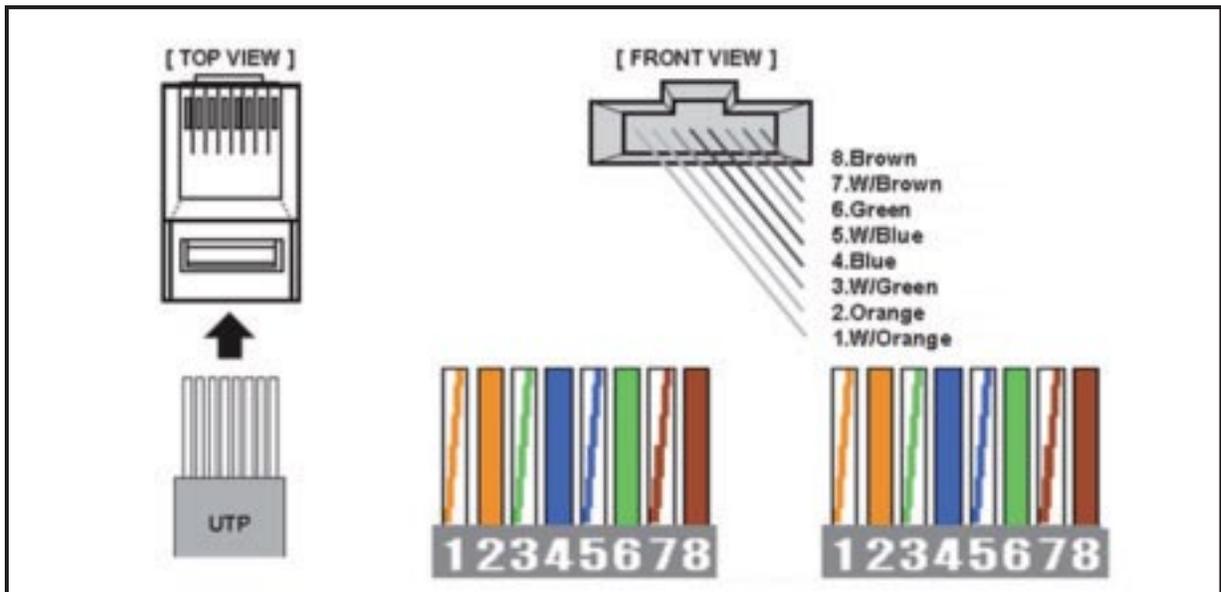
## Wiring the Equipment

### ※ Caution when Installing

Do not connect wires or communication cables while equipment is on.  
It may cause failure (Ex: Communication functions) of equipment.

### 1. Making Communication Cables

Connect all terminals connected to RS-485 communication by using CAT5 line as below.



### ※ Caution

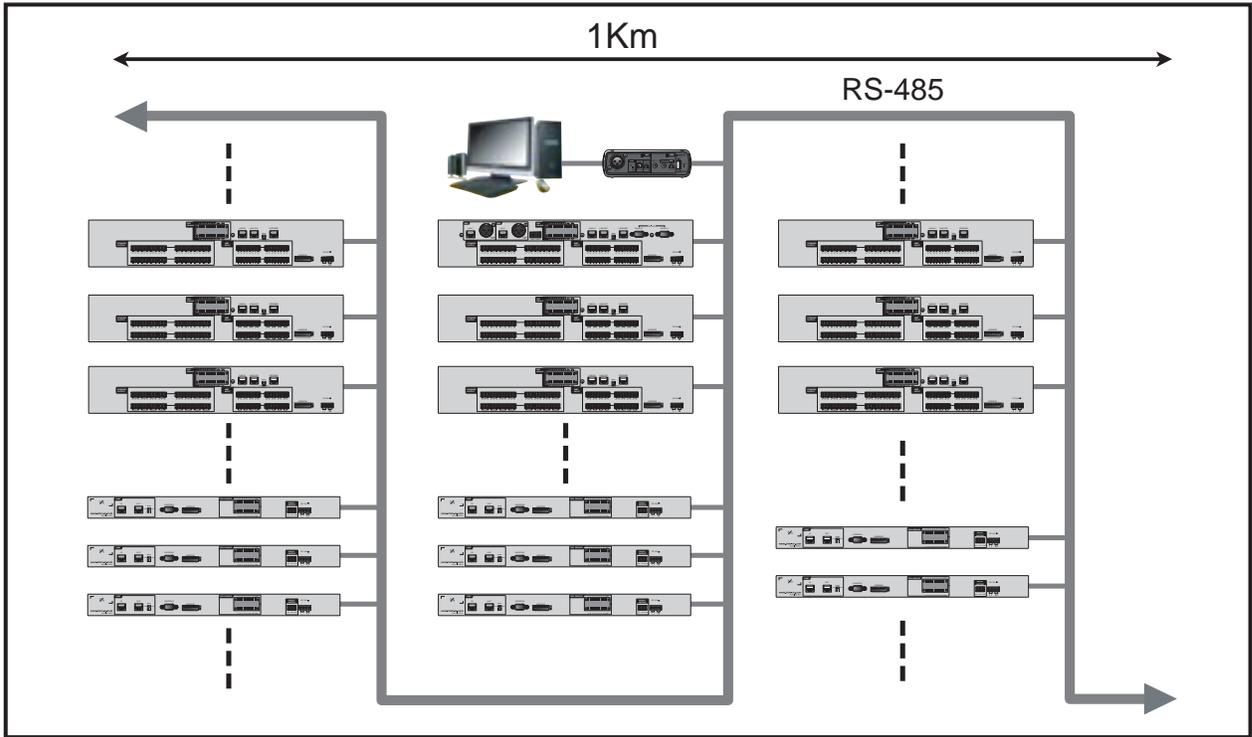
- 1) When making the CAT5 CABLE, match the color orders as direct type.
- 2) Specially, colors and orders should be matched for DATA line because it uses twisted lines.

### 2. Method to Connect RS-485 Communication Line and Communication Distance

Equipment can be connected through LINK IN/OUT within distance of 1Km.

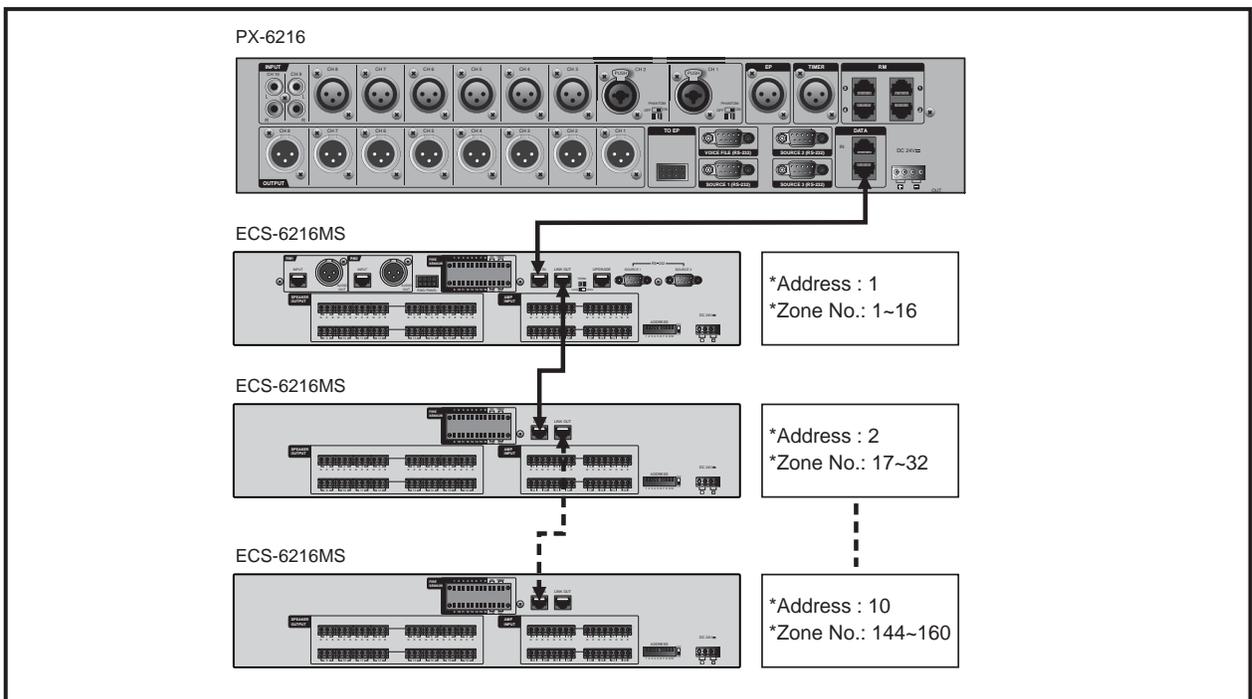
### ※ Caution

- 1) Setup the termination switch on the equipment rear for wirings. [Refer to Page 8]
- 2) Use the CAT5 line which resistance is less than 200 ohm based on 1km. Communication may be unstable or unavailable as line resistance is getting bigger.

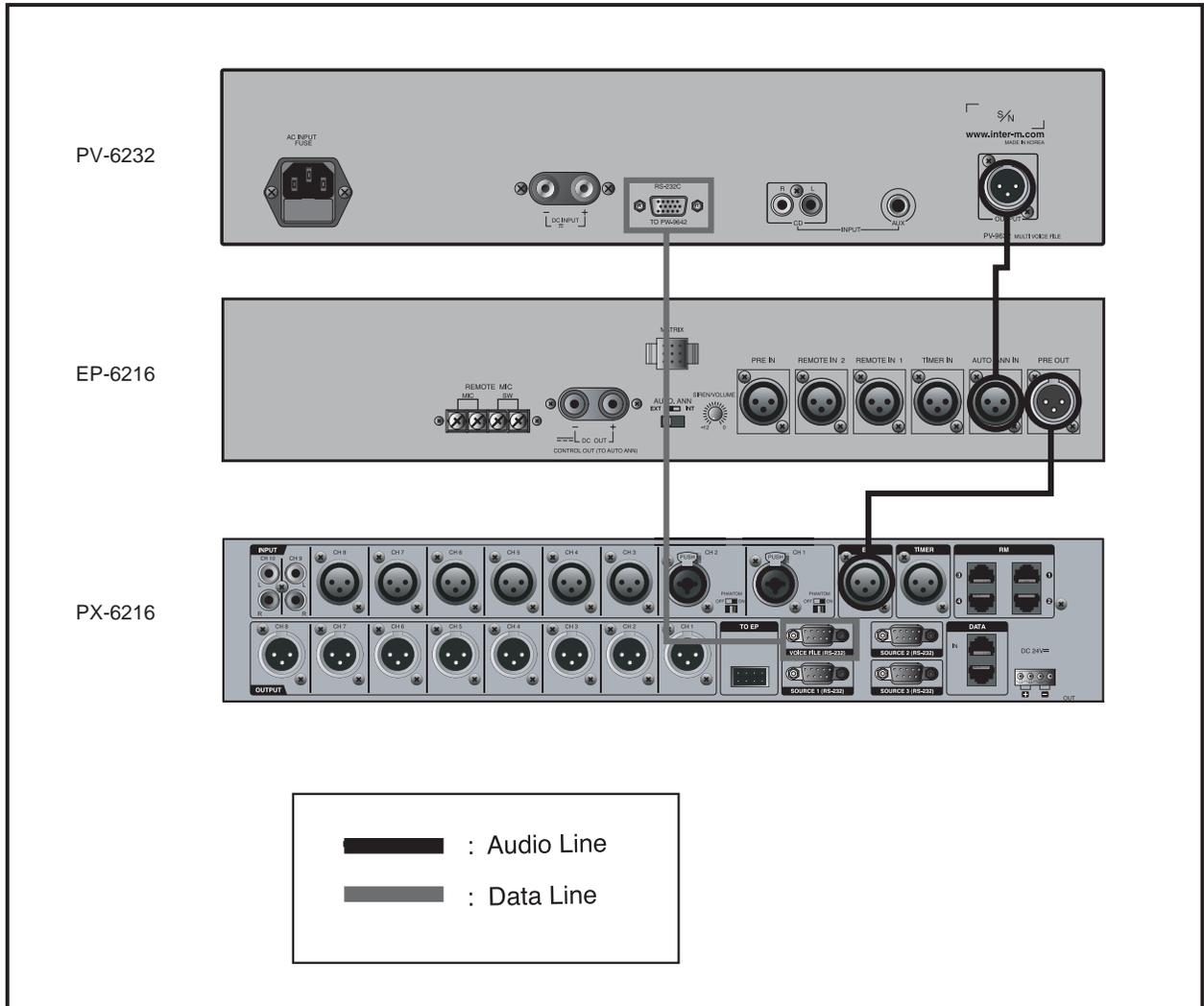


### 3. Expanding the Zone through ECS-6216MS Link

- 1) PX-6216 has no equipment number, and only 1 can be used for the system.
- 2) Zone expansion uses ECS-6216MS(Max. 10ea).



#### 4. PV-6232, EP-6216 Connection Diagram



### 5. Relationship of PX-6216/RM-6024(TP-6231)/RME-6108

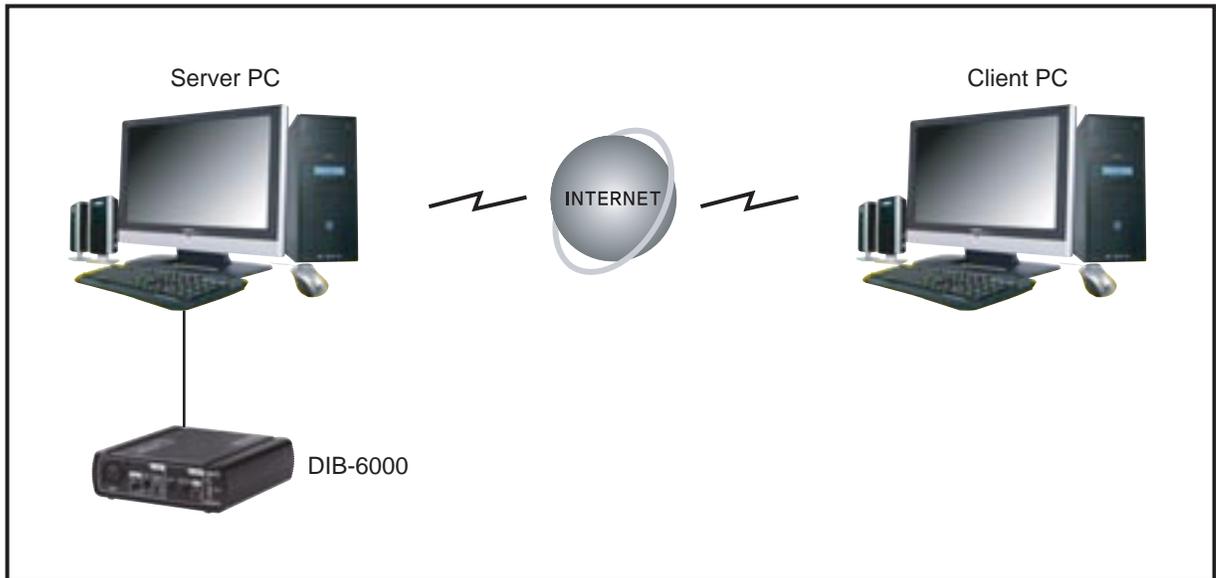
- 1) Equipment numbers set in RM-6024 should be connected in accordance with port numbers of RME-6108.
- 2) If one of below condition is not matched, fault LED will be on in RMs connected to the RME.

PX-6216 RM Input Port	Wiring (CAT5)	RME-6108 Port		Wiring (CAT5)	RM-6024 Equipment Number
		OUTPUT Port	INPUT Port		
RM1	←→	OUTPUT	RME1_RM1	←→	1
			RME1_RM2	←→	2
			RME1_RM3	←→	3
			RME1_RM4	←→	4
			RME1_RM5	←→	5
			RME1_RM6	←→	6
			RME1_RM7	←→	7
			RME1_RM8	←→	8
RM2	←→	OUTPUT	RME2_RM1	←→	1
			RME2_RM2	←→	2
			RME2_RM3	←→	3
			RME2_RM4	←→	4
			RME2_RM5	←→	5
			RME2_RM6	←→	6
			RME2_RM7	←→	7
			RME2_RM8	←→	8
RM3	←→	OUTPUT	RME3_RM1	←→	1
			RME3_RM2	←→	2
			RME3_RM3	←→	3
			RME3_RM4	←→	4
			RME3_RM5	←→	5
			RME3_RM6	←→	6
			RME3_RM7	←→	7
			RME3_RM8	←→	8
RM4	←→	OUTPUT	RME4_RM1	←→	1
			RME4_RM2	←→	2
			RME4_RM3	←→	3
			RME4_RM4	←→	4
			RME4_RM5	←→	5
			RME4_RM6	←→	6
			RME4_RM7	←→	7
			RME4_RM8	←→	8

## 6. Connecting to CLIENT PC

System can be controlled remotely through server PC on the Client PC.

Setting cannot be changed, and only source units and PC MIC controls are available.



\* Refer to Program Manual for detail information.

\* Server Program : "Configurations ->Setting Communication Port" [Refer to Page 22]

\* Client Program: : "Starting Client Program" [Refer to Page 65]

## Installing Programs and Hardware

### ※ Caution when Installing Programs (Windows 7)

Control setting level of user account should be lowered before installing on Windows 7. If not, some parts of program will not be installed, so problem may occur. After installing, restore the setting level.

### ※ How to Copy the Setting Information to other PC

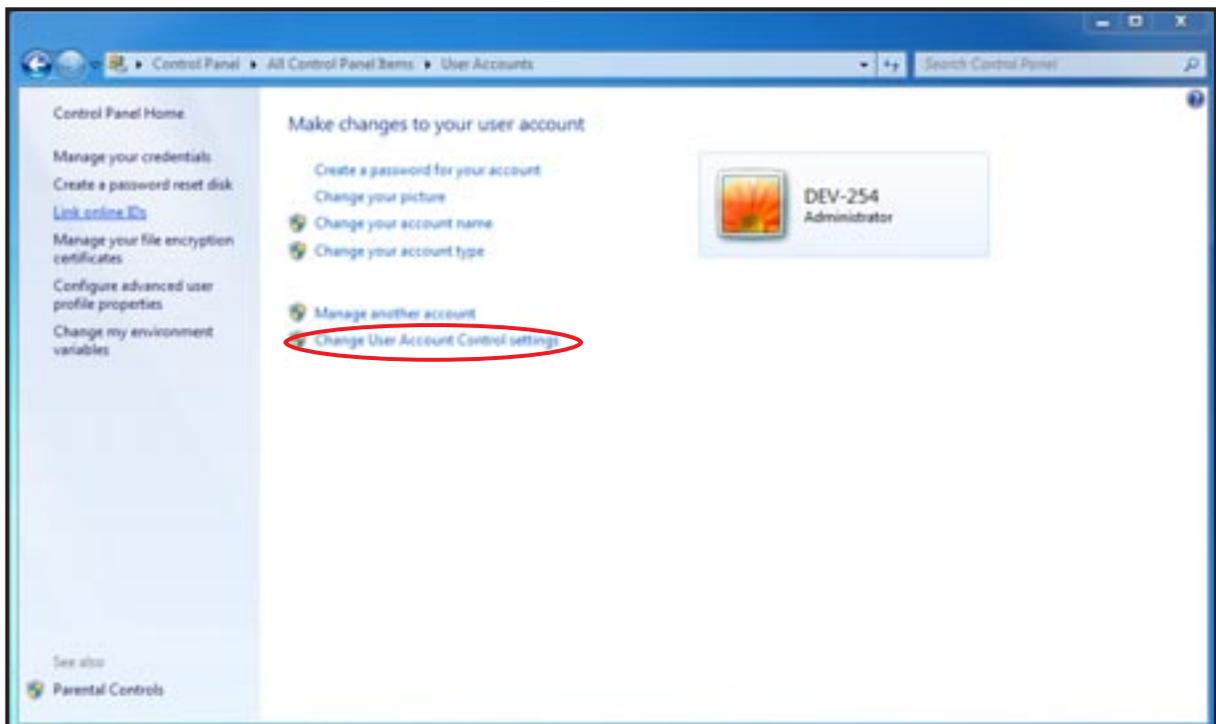
If PC is replaced with other PC, copy entire INT folders, then paste it in the same location of newly installed PC.

[Location] C:\Program Files\Inter-M\MS-6800-SERVER\INI

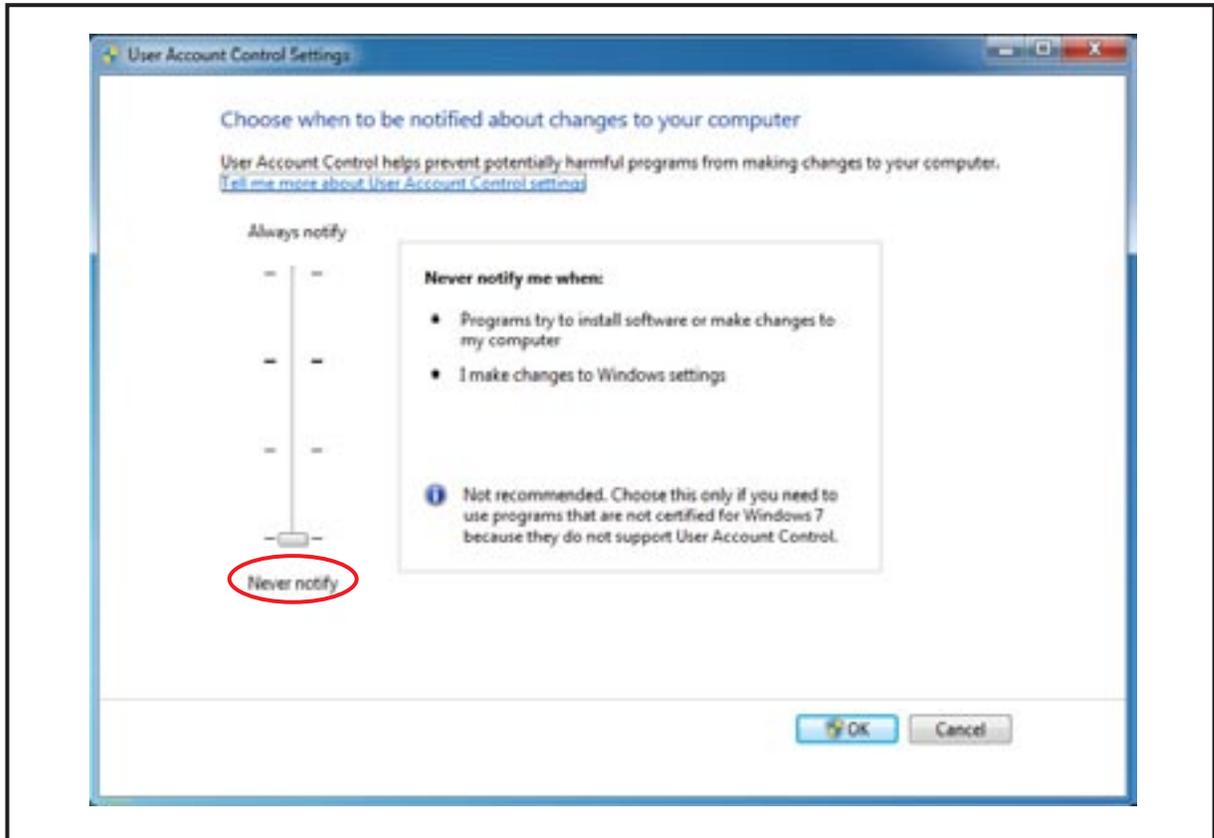
### ◆ Basic Items

#### 1. How to Change the Control Setting of User Account (Windows7)

1) Select [Start] – [Control Panel] – [User Account] and [Change User Account Control Setting].

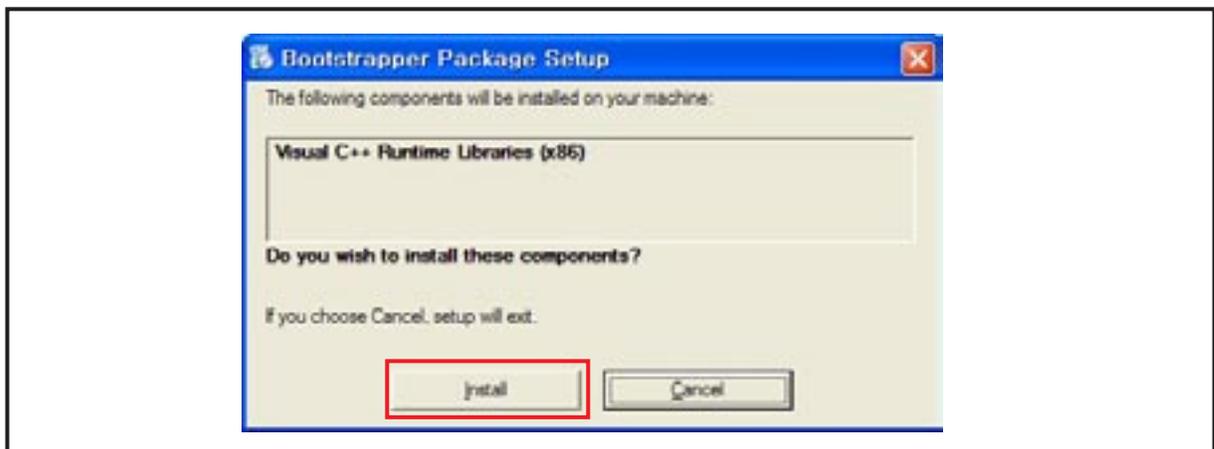


- 2) Change the setting level to [Not inform].  
Restart the PC.



## 2. Program Installation

- 1) Execute the 'MS-6800\_Server\_v1.0.0.0.exe' in Set\_up CD.  
Click [Install] button if below screen pops up.  
(Caution: if Visual C++ Runtime Libraries(x86) is already installed, below screen will not pop up. In this case, start from step 2.)



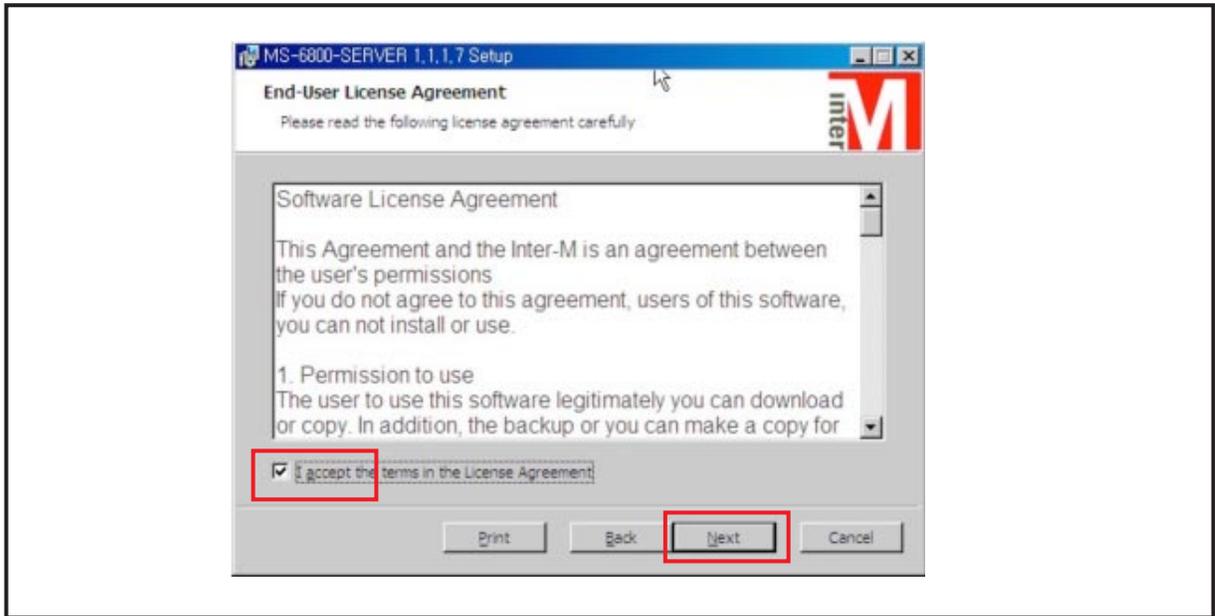
2) Language selection screen. Click [Next] button.



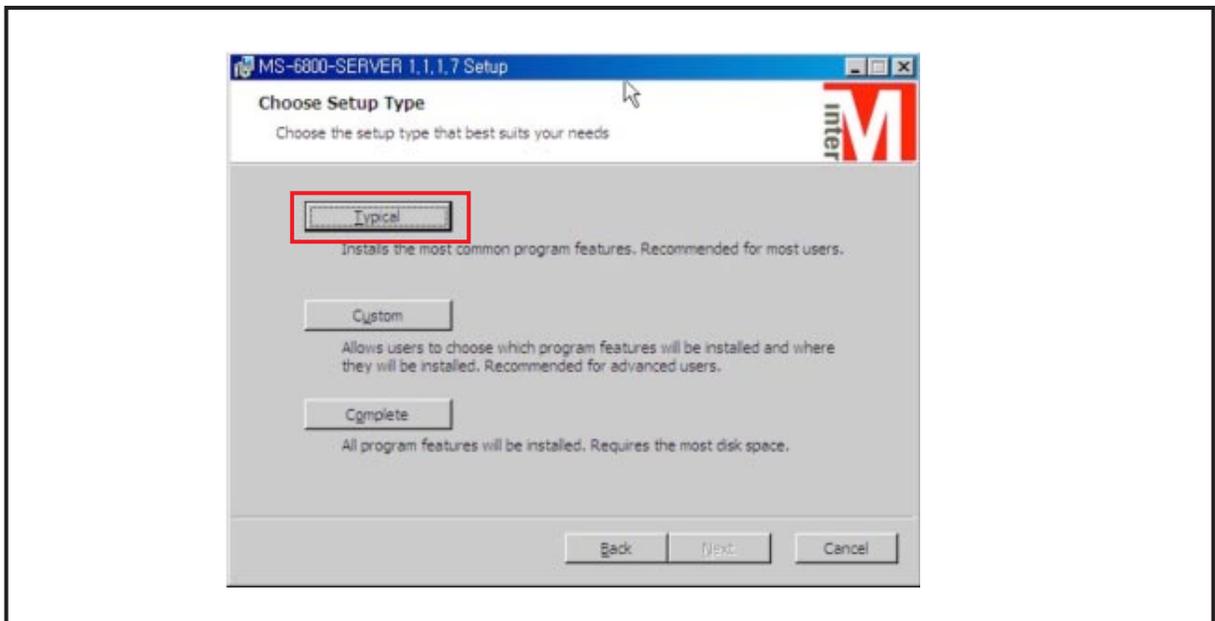
3) Installation starting screen. Click [Next] button.



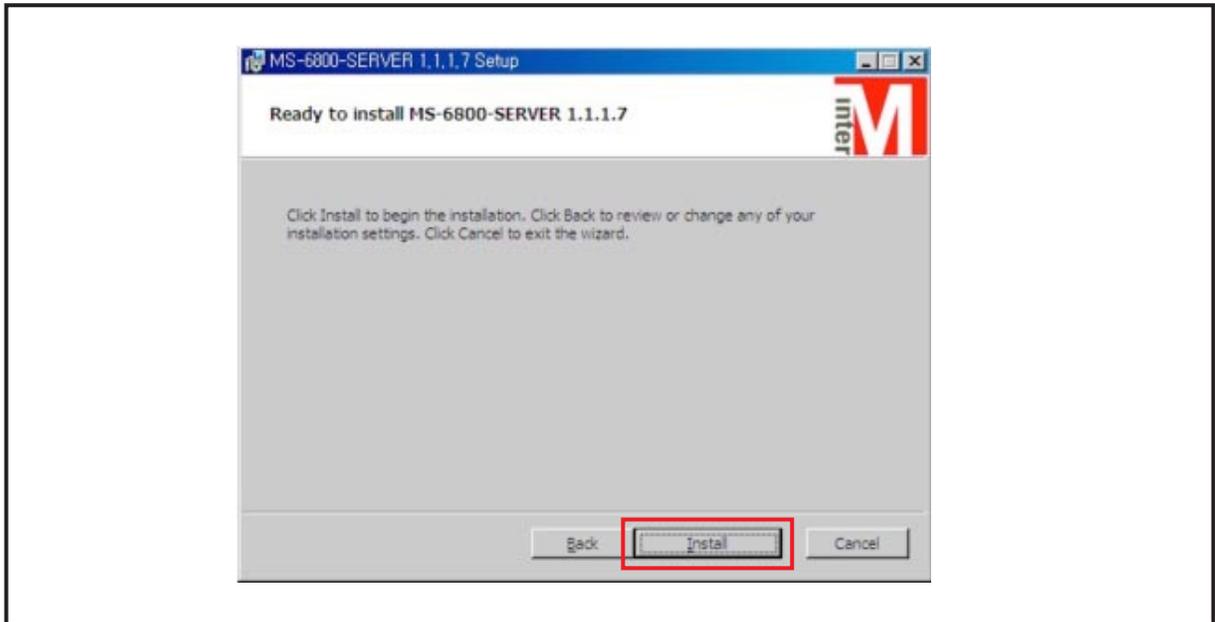
4) Final user right contract screen. Check [Agreed] and click [Next] button.



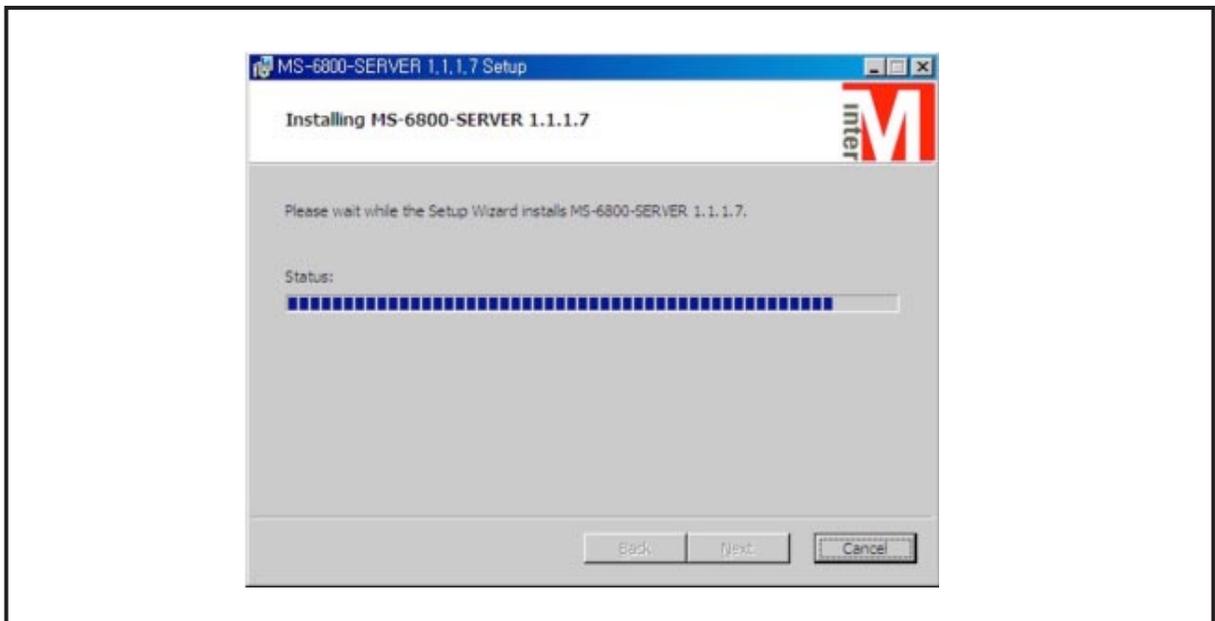
5) Installation type selection screen. Click [Standard Installation] button.



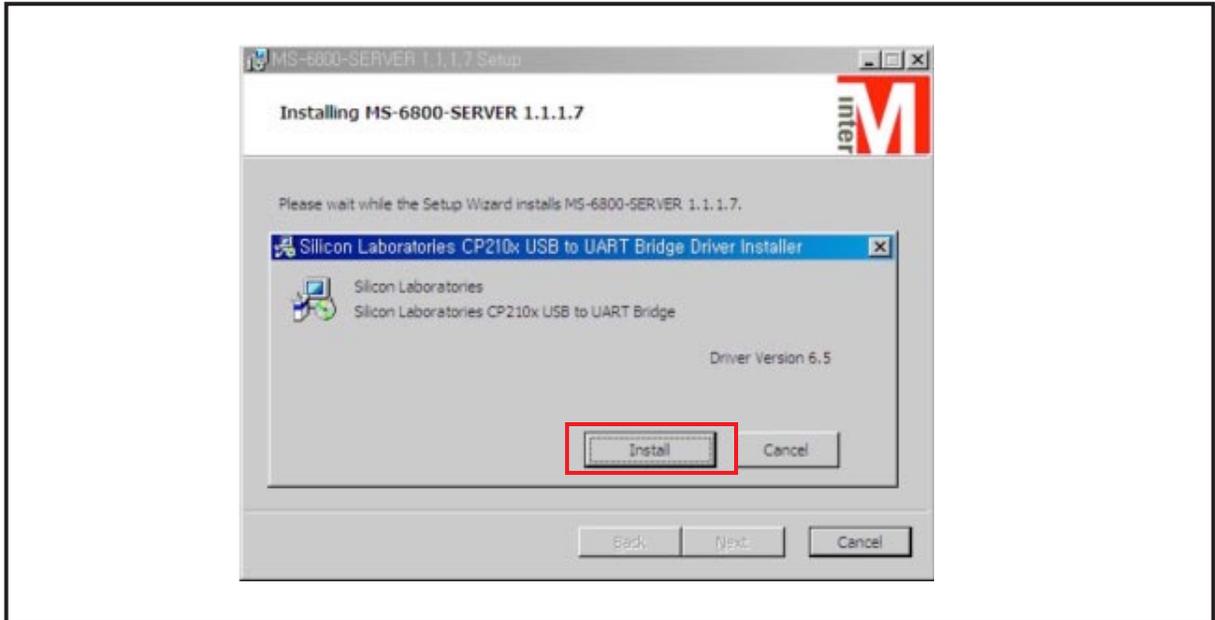
6) Preparation screen for installation. Click [Install] button.



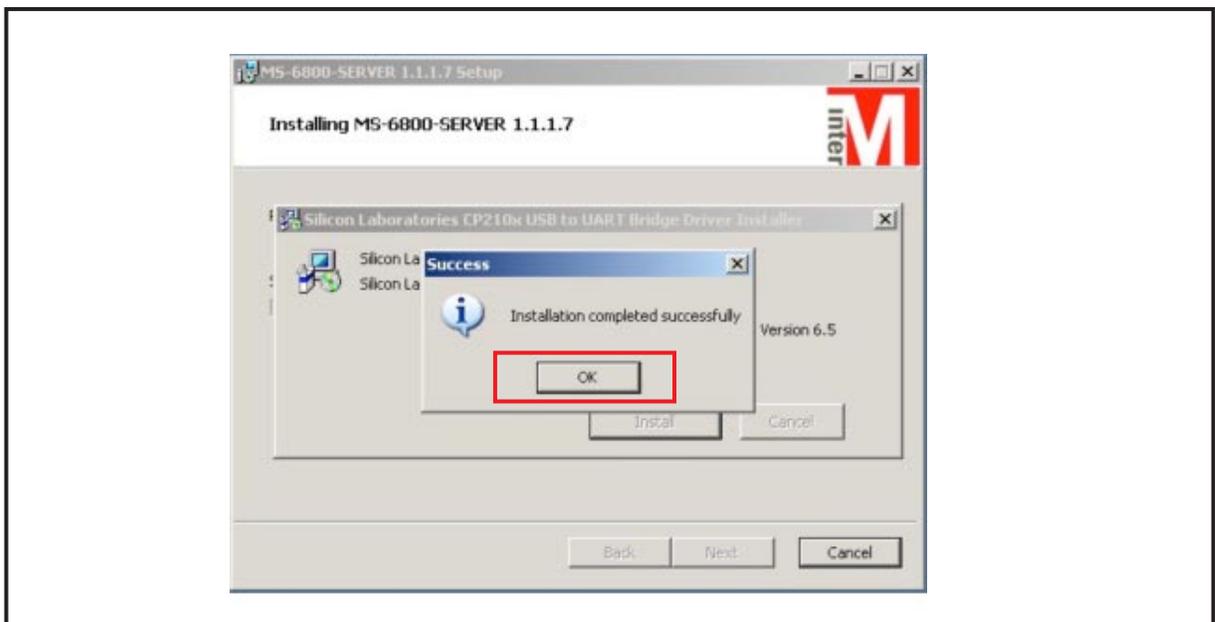
7) Installing screen. Wait until installation is finished.



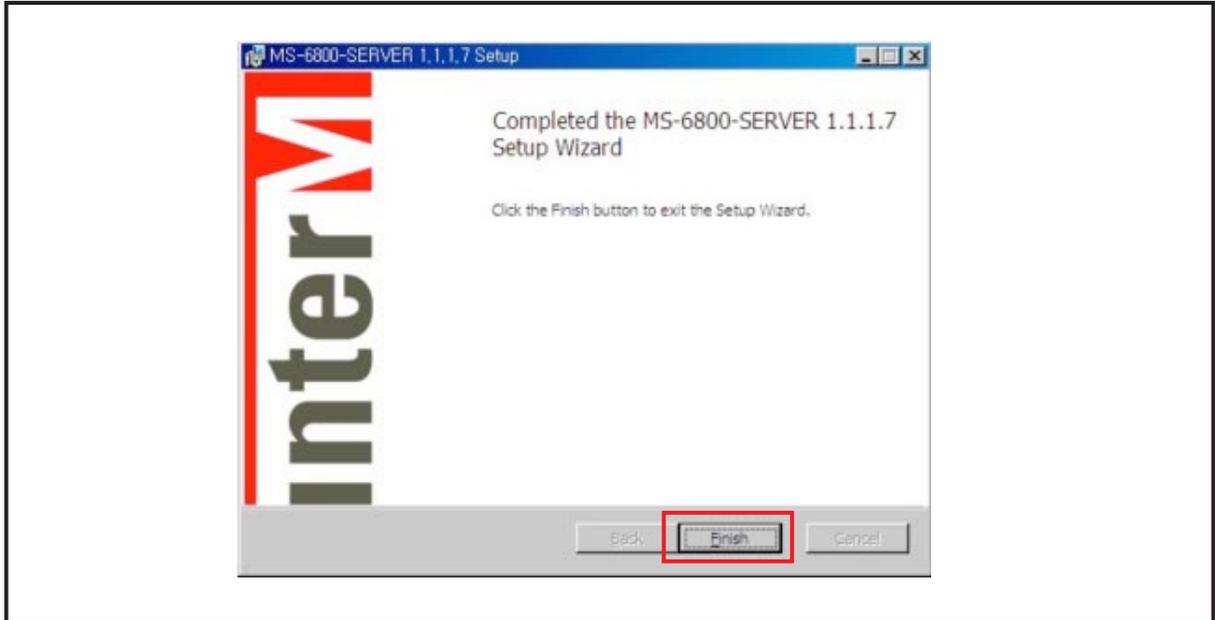
- 8) USB driver installation screen. Click [Install] button to start the installation.  
(Caution: if USB driver is already installed, below screen will not pop up. In this case, step 8 and 9 will be omitted.)



- 9) USB driver installation completing screen. Click [Confirm] button  
(Caution: if USB driver is already installed, below screen will not pop up. In this case, step 8 and 9 will be omitted.)



- 10) Installation completing screen. Click [Finish] button.  
Restart the system if installation is finished.



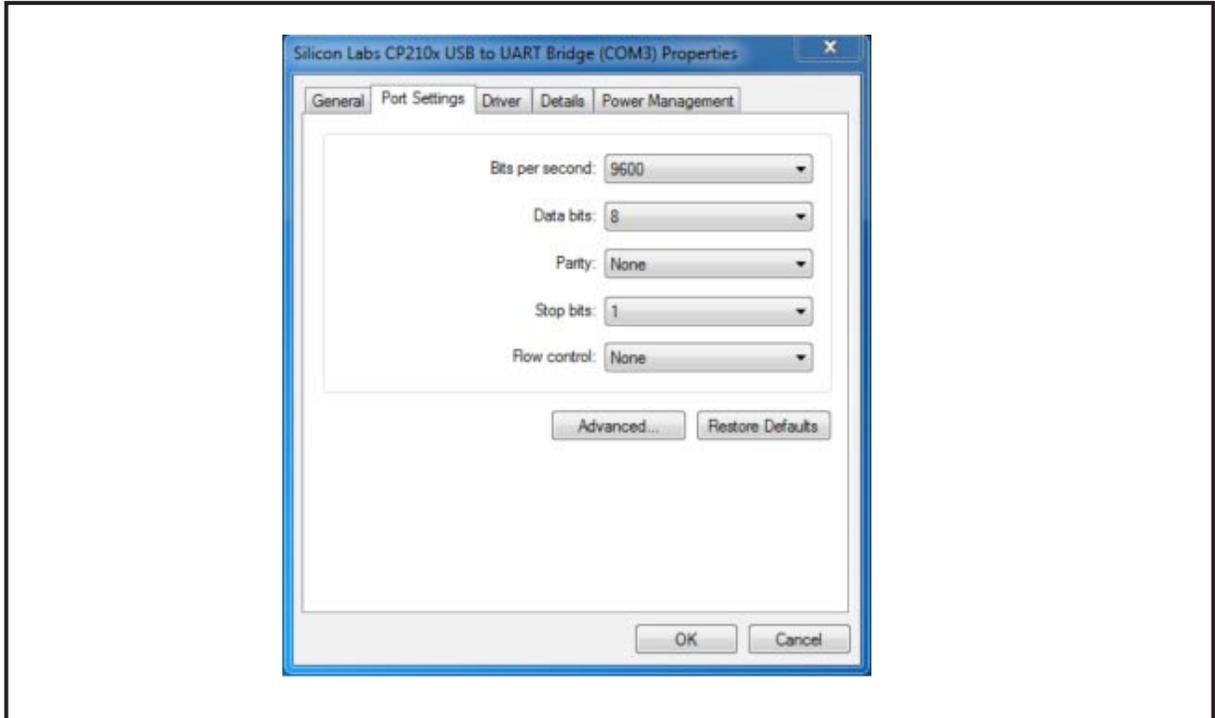
### 3. Installing Hardware by Connecting DIB-6000 (COM port)

- 1) Check the COM port status in the Device Manage in PC Control Panel.  
Because Windows programs use No. COM1~COM4 port, communication will not be available if setting port is not matched.

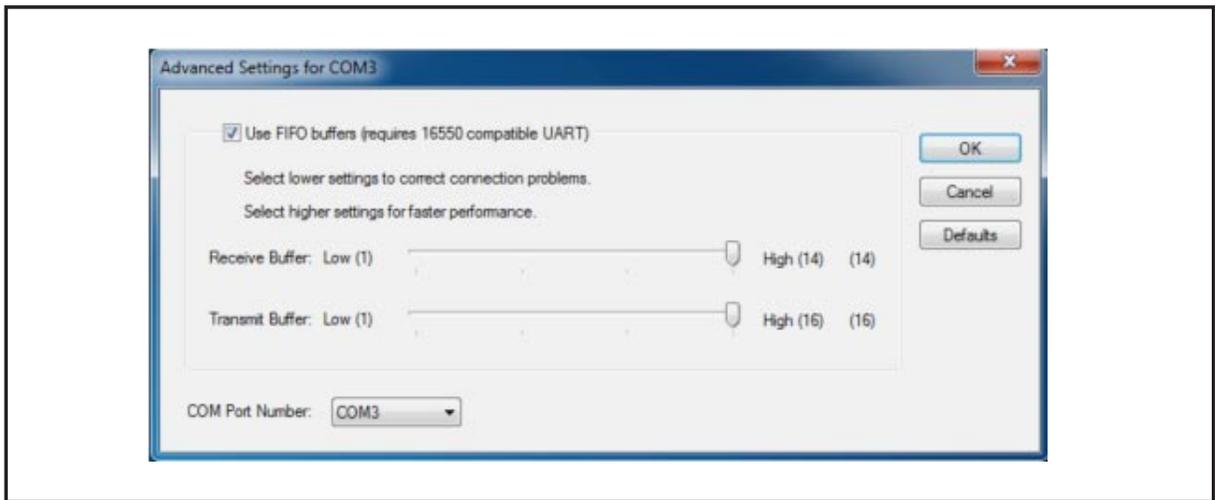


- 2) How to Check and Change COM Port Setting
  - A) Select the COM port and check the property.

- 2) How to Check and Change COM Port Setting  
 A) Select the COM port and check the property.



- B) Port can be changed through [Advanced] menu.



- C) Select the port among COM1~COM4 and change.  
 D) Then, set the port to be used as same in [Property>Port Setting] menu.

# Starting Server Programs

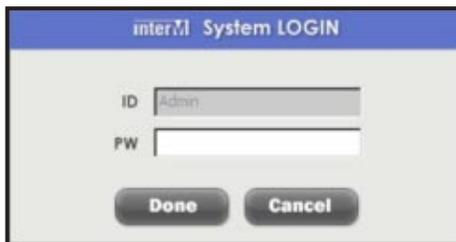
After programs are installed and restarted, below figures will be shown.  
 (Automatic starting program: "C:\Program Files\Inter-M\MS-6800-Server\MS-6800.EXE")



## 1. Login

Below login window will pop up if  is clicked.

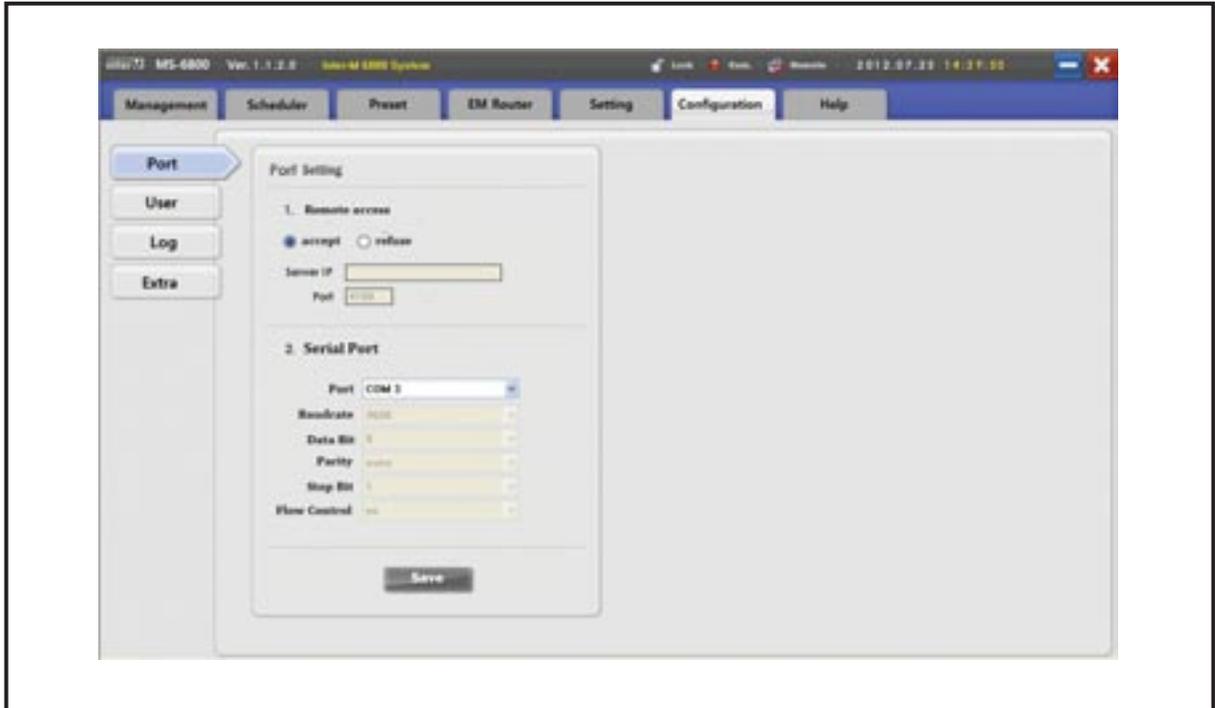
A) Login window will pop up if program is executed.



- B) Insert 'Admin' in all IDs/PWs for the first time. (Case sensitivity)
  - C) User who has an admin account can change the PW in property menu.
  - D) Refer to ID/PW setting method. [Page 24]
- Other authorities are used when connecting to server with client.

## 2. Configuration

If login is successful, execute the configuration.



1) PORT Setting : setup the network and serial port values.

(1) Network setting

Set that client functions, remotely connected, will be used or not.

(2) SERVER IP, Port : setup the IP and port of server PC to be connected from client.

(3) Serial port

Setup the communication port of DIB-6000 connected to server PC.

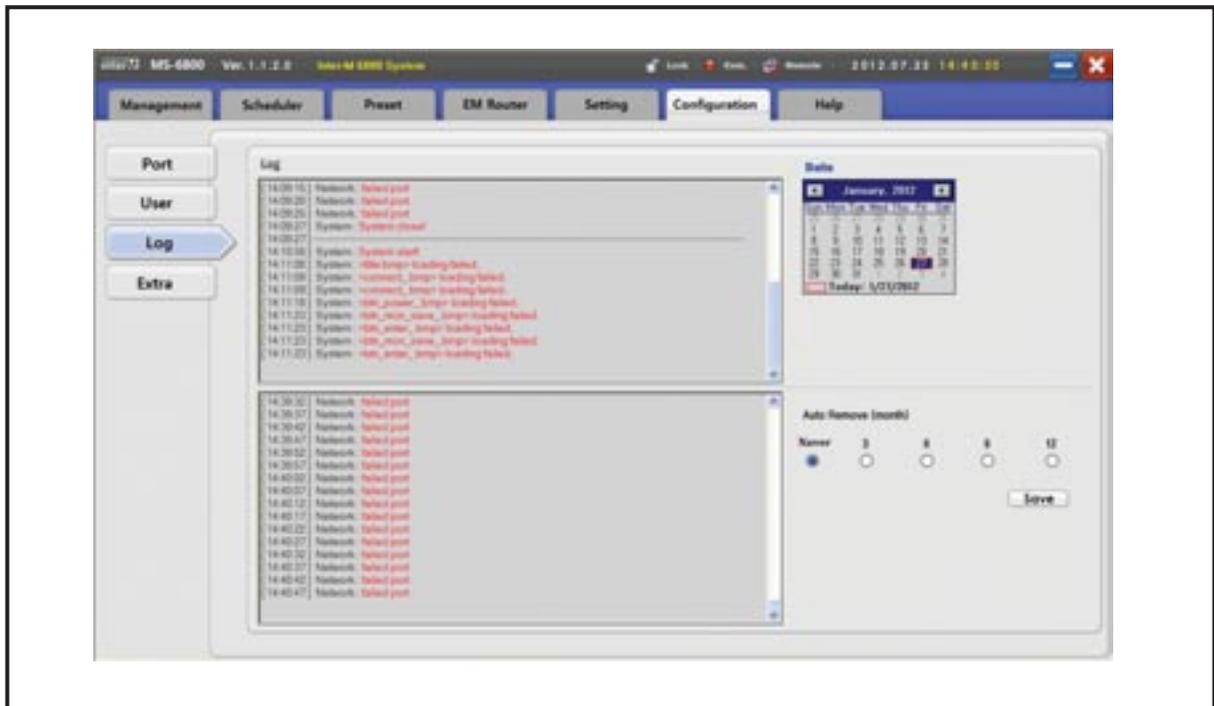
(Default value: speed:9600, data bit:8, Parity: Even, StopBit :1 , flow control: N/A)

\* Check the "Control Panel->System-> Hardware-> Device Manager -> Communication Port".

(4) Saving setup : save the current setting values

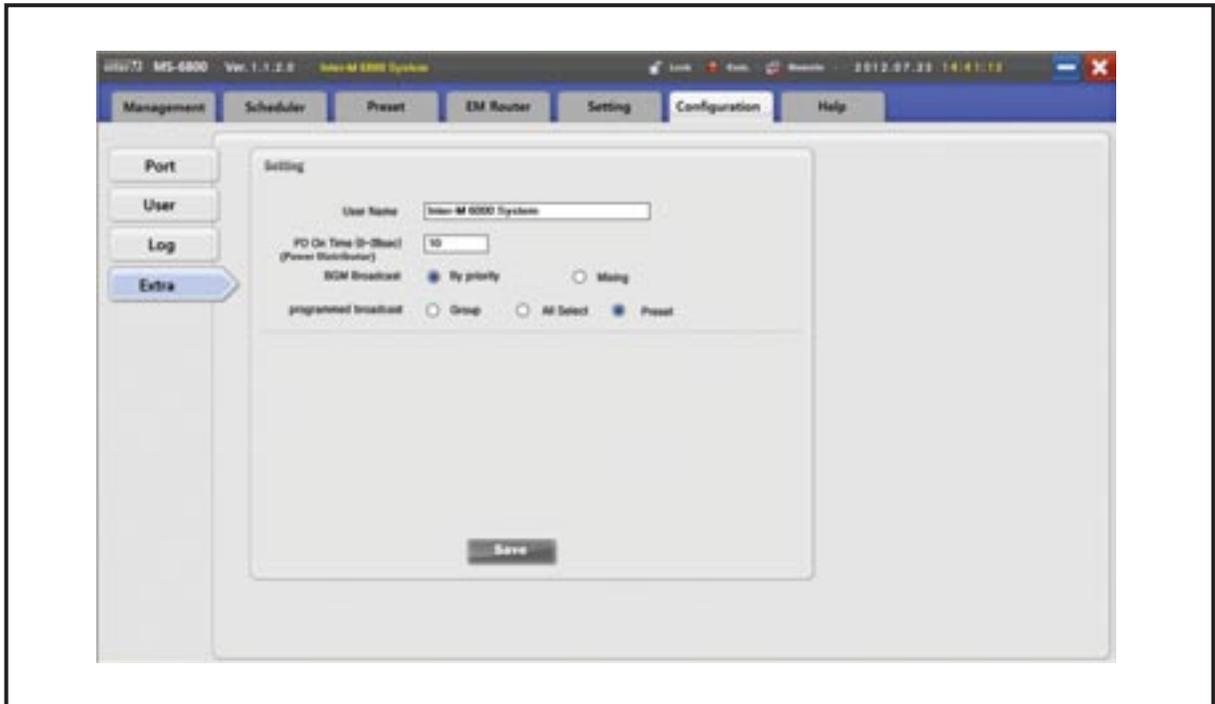


3) Log Confirm : control log of user and changing of system setting will be displayed for each date.



- (1) Display the log status on selected date. ([1])
- (2) Display the today's log status. ([2])
- (3) Log Date : select the log date. ([3])
- (4) Automatic deletion : setup the log file deletion period. ([4])  
 (Deletion cycles : Naver(Not delete), 3 month, 6 month, 9 month, 12 month)

4) Extra setting: setup the other information of the system.



- (1) User name : insert the user name.
- (2) PD on Time : setup the PD on time before schedule is broadcasted.(Default value: 10)  
(PD : Power Distributor equipment)
- (3) BGM priority broadcasting : select the BGM source unit broadcasting methods.
  - \* broadcasting by priorities: it broadcasts the high priority broadcasting.
  - \* Broadcasting by mixing: it broadcasts by sound source mixing regardless of priorities.  
(\* Refer to equipment setup->Input setup.)
- (4) Broadcasting now : it is the setting which broadcasts right away even if "Start Broadcasting" button is not pushed for the broadcasting through group selection, select all and preset setting.

### 3. Equipment Setting

1) Input Setting : setup the values on PX-6216 audio input channel. (Ch1 ~ Ch10)



\* Input source setting displays 10 channel lists to the lateral direction and detail setting values for each channel can be set to the vertical direction.

(1) Use : setup that input source will be used or not. ( Use :  Not use :  )

(2) Type : setup the equipment type of input sources.

(Input source types : CD-610, CD-611, CD-660, CD-6208, TUNER, DESK, BGM, DIM-6000, MIC)

(3) Name : insert the name of input source.

(4) Control port : setup the control port which communicates with source units.

(No Use, Source1, Source2, Source3, Voice, Digi-link)

- Control port of Source1~Source3, Voice : PX-6216

- Digi-link : additional Digi-link converter is required

(5) Priority : setup the priorities for 8 outputs for each BGM input channel.

[ \*Priorities : 1(Highest) ~ 10(Lowest) ]

① Broadcasting by priorities : method that highest priorities will be broadcasted first.

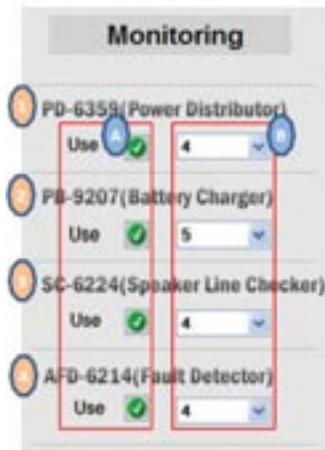
- When sound source (Ch1) which has high priority is being broadcasted, if sound source (Ch2) which has low priority is broadcasted, only sound source (Ch1) will be broadcasted.

- When sound source (Ch2) which has low priority is be broadcasted, if sound source (Ch1) which has higher priority is broadcasted, sound source (Ch2) will be stopped and only sound source (Ch1) will be broadcasted.

- When sound source (Ch1) is being broadcasted, if sound source (Ch2) which has the same priority is broadcasted, sound source(Ch1) and sound source(Ch2) will be mixed and broadcasted.

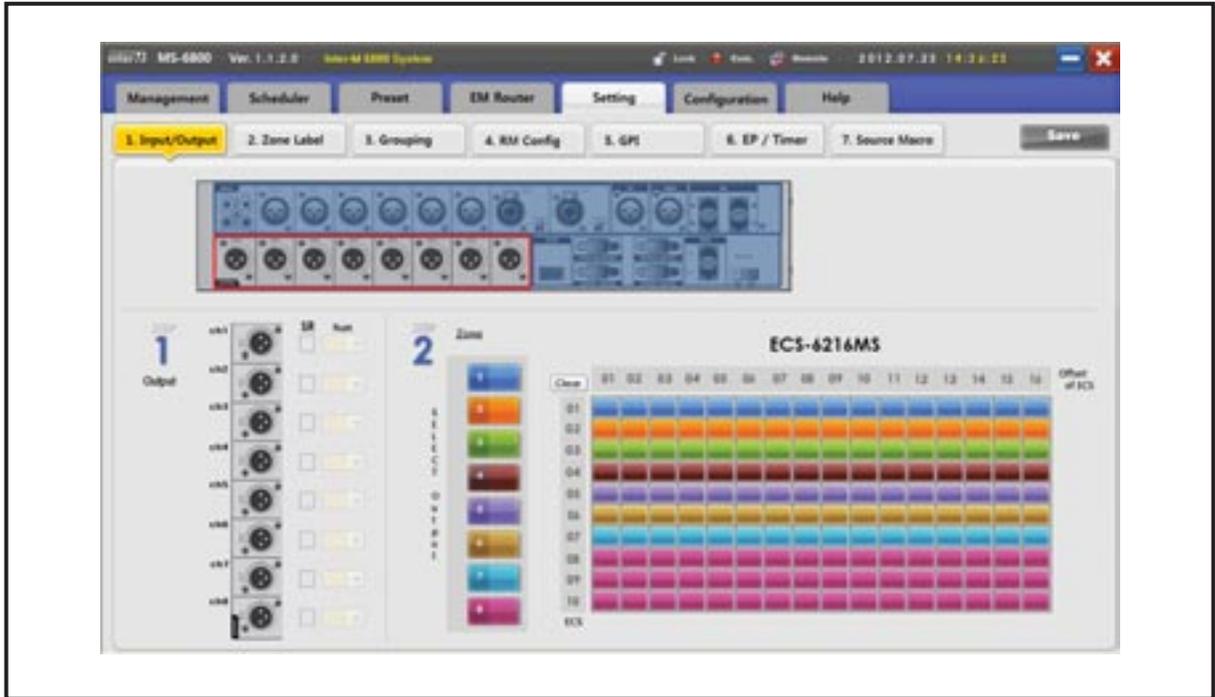
- ② Unconditional Mixing : broadcasting by mixing regardless of broadcasting priorities.
- When sound source (Ch1) which has high priority is being broadcasted, if sound source (Ch2) which has low priority is broadcasted, both sound sources will be mixed regardless of priorities.
  - When sound source (Ch2) which has low priority is be broadcasted, if sound source (Ch1) which has higher priority is broadcasted, both sound sources will be mixed regardless of priorities.
- After inserting the priority in item (A) for each channel, and if click "All" button, it will be applied to all output channels.
  - Refer to "Configuration-> Input setting" for BGM broadcasting type selection.
  - Even if BGM priority is 1st, it has lower priority than EP/Timer RM.
  - Entire system priorities are as below.  
(EM of PC --> EP MIC -> Input Sensor -> Timer (Schedule) -> RM1 -> RM2 -> RM3-> RM4 -> BGM)
  - Use : setup that input source will be used or not. ( Use :  Not use :  )

(6) Monitoring : setup the values of equipment About PD-6359, PB-9207, SC-6224, AFD-6214.



- ① PD-6359(Power Distributor) : Setup PD equipment. (Max equipment number: 20)
  - ② PB-9207(Battery Charger) : Setup PB equipment. (Max equipment number: 20)
  - ③ SC-6224(Speaker Line Checker) : Setup SC equipment. (Max equipment number: 12)
  - ④ AFD-6214(Fault Detector) : Setup AFD equipment. (Max equipment number: 20)
    - Use : setup that equipment will be used or not.
    - Number : setup the numer of equipment.
- Equipment ID is same sequence number of equipment.

2) Output setting : setup the values on audio output channels.



(1) Use : setup the input source will be used or not. (Click the output image terminal domain.)



(2) SR : setup that 2 outputs to be used as 1 stereo SR output.

\*Number : setup the channel-stereo direction values.

(Ex.: 4-L: Number 7 channel Left output, 4-R : number 8 channel Right output)



(3) Select output : select the output channel to be broadcasted in 16 zones of ECS-6216MS.

(4) Zone setup : drag the ECS-6216MS zone (cell) domain with mouse.

(Vertical direction : ECS-6216MS equip. no., Lateral direction : local number of ECS-6216MS)

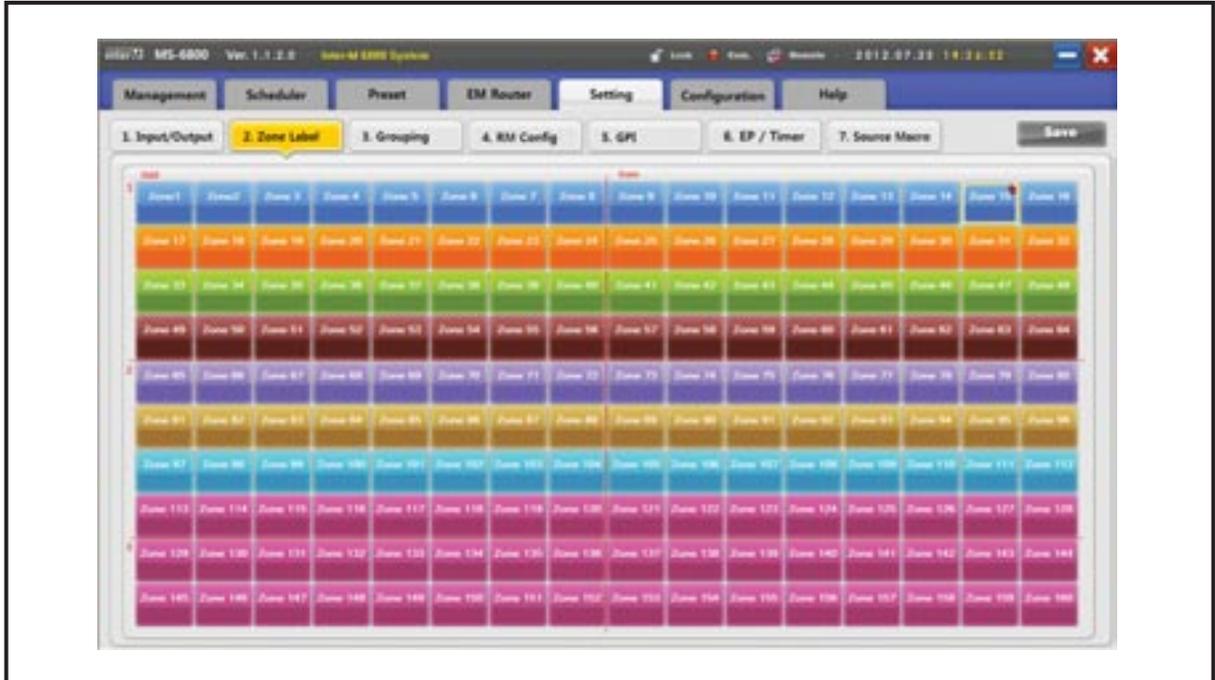
\* "Clear" button : change the all zones and zone setting values to "Not Set"

\* Lateral number : when number domain is clicked, zone setting value of vertical direction is changed to Not Set.

\* Vertical number : when number domain is clicked, zone setting value of lateral direction is changed to Not

(5) Panel management : when installing for the first time, it manages the panel number and name.

- 3) Zone name setting :setup the ECS-6216MS zone name.  
(Max. 160 zones can be set)



- (1) Changing zone name : double click the zone name, and insert the name.
- (2) Changing zone name position : left-click the mouse on the zone name area to be moved, and unclick on the zone name area at the destination.  
(Ex.: Click and hold the "Class1, grade 2" and move the move to the "Class 8, grade 1", and unclick the mouse)
- (3) Save : save the setting value.

4) Group setting : select the zone area and setup the group.



- (1) Select group : select the group name (square area) in the group selection.  
(Currently selected group name)
  - (2) Input label : input the group name selected in the group selection.
  - (3) "Input" : setup the group name
  - (4) "Delete" : delete the group.
  - (5) Select zone : select the zone.  
(   icons will be displayed on the selected zone)
  - (6) "A", "B" : displays the zone name and list. ("A": Zone1 ~ Zone80, "B": Zone81 ~ Zone160)
  - (7) "Save setting" : save the setting value
- \* In the above figure, group setting sets the "1st grade" group from class 1, 1st grade to class 9, 1st grade.
- \* If output zone is changed in the equipment input/ output setting, group setting should be redone.

5) RM Config : set up the zone where RMMIC is broadcasted.



(1) Use : choose whether "RM1" ~ "RM4" is used or not.

Use:  Not use: 

(\* RM1 ~ RM4 can be set, and if expansion keypad is used, max. 48 macros can be used.)

(2) "BGM" :choose whether Background Music mode is used or not.

Use:  Not use: 

(When using it, RMMIC and BGM audio is mixed and output.)

\* When mixing and outputting, BGM LEVEL is decreased.

\* Choose that BGM mode is used when using the RM by setting up the RM (Setup to vertical direction, RM1(BGM), RM2(BGM) , RM3(BGM), RM4(BGM)).



Ex.) If number 1 RM is used, it will be operated as BMG mixing mode.

If number 2 RM is used, it will not use the BGM mixing mode.

(3) "Select RM" : select the RM equipment number connected to PX-6216.( RM1[" #1"] ~ RM4[" #4"])

(4) Keypad number: select the keypad number.

( "Basic" : basic keypad 1 ~ 24 , "Extend" : extended keypad : 1 ~ 24 )

(5) Select zone : select the zone..

(  will be displayed on the selected zone)

(6) "A", "B" : display the zone name.( "A": Zone1 ~ Zone80, "B": Zone81 ~ Zone160)

(7) "Select all" : select all zones.

(8) "Clear all" : clear all selected zones.

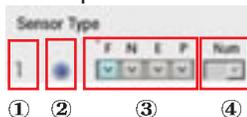
- (9) "Save setting" : save the setting value
- If RM is extended through ME-6108, ID of RME-9108 on the RM port should be set
  - If number 1 button of RM1 is pushed, RM setting outputs from class 1, 1st grade to class 8, 1st grade (Entire 1st grades).
  - If output zone is changed in the equipment input/output setting, zone setting should be redone.

6) GPI setting: setup the operational method when 16 Input sensors connected to ECS are ON.



(1) Select ECS : select the ECS-6216MS equipment number

(2) Select Input Sensor :



- [1] : Select the sensor number
- [2] : Choose whether it is selected or not.  
Selected :  Not selected :
- [3] : Select the sensor operation type.
  - \* "F" (Emergency Mode) : when input sensor is on, operate in emergency mode.
  - \* "N" (Normal Sensor Mode) : when input sensor is on, operate in normal mode.  
(\* In "Normal contact point macro", operate with setting values.)
  - \* "E" (EP-Mic Sensor Mode) : when input sensor is on, operate in "Emergency Mic" mode.
  - \* "P" (Preset Mode) : when input sensor is on, operate in preset mode.  
(\* In "preset", operate with setting values.)
- [4] : Select the mode operation number.
  - \* When "N" (Normal Sensor Mode), setup the normal mode macro number. (Numbers : 1 ~ 16)
  - \* When "P" (Preset Mode), setup the preset mode number. (Numbers : 1 ~ 12)

- (3) "A", "B" : display the zone name. ("A": Zone1 ~ Zone80, "B": Zone81 ~ Zone160)
- (4) Select zone : Select the zone.
- (5) "Save" : save the setting value
- (6) "Normal contact point macro" : setup the normal contact point mode.
  - (\* Refer to detail manual of "Normal contact point macro")
  - From above figure, contact point setting is operated as "Normal Mode", and if input is on in number 1 input sensor, it is operated as "Normal contact point macro" number 1.
  - Broadcast the "Normal contact point macro" number 1 "CDP" sound source in below figure to all 1st grade classes.

7) Normal contact point macro : setup the normal contact point mode operation method.



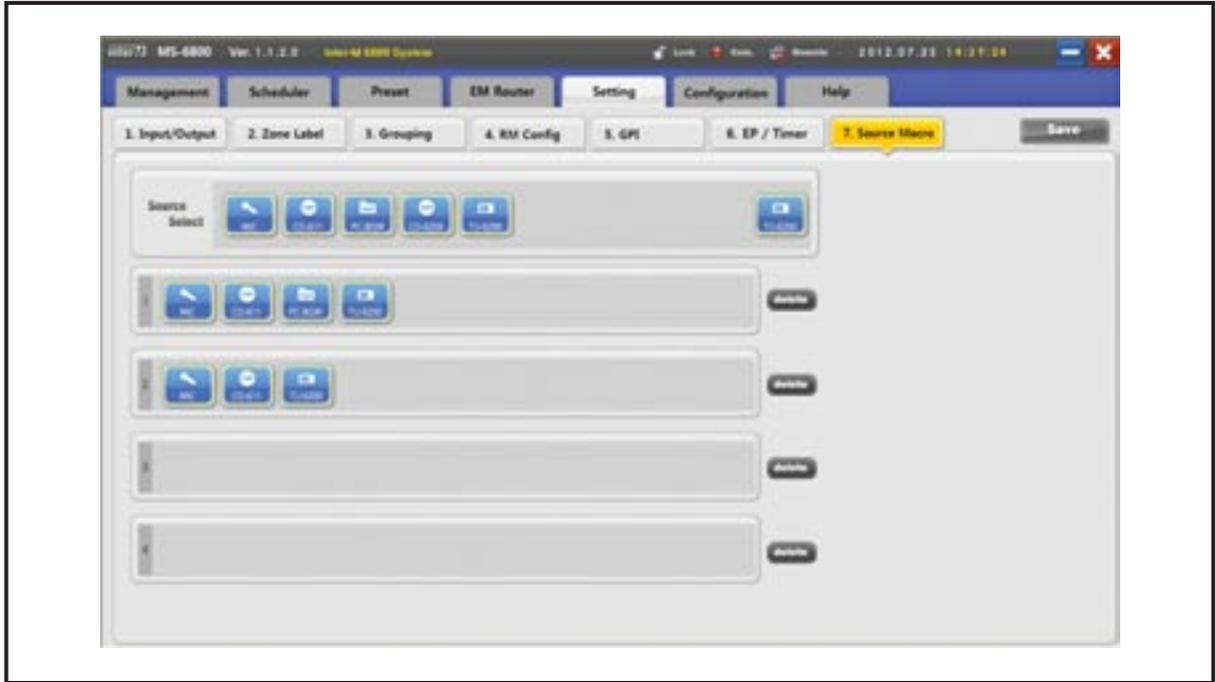
- (1) Select : select the normal contact point number.
- (2) Select sound source : select the sound source to be broadcasted.
- (3) Select group : select the group. (zone set in the group will be selected.)
- (4) Select zone : Select the zone..
- (5) "A", "B" : display the zone name.("A": Zone1 ~ Zone80, "B": Zone81 ~ Zone160)
- (6) "Select all" : select all zones.
- (7) "Clear" : clear all zones selected
- (8) "Save" : save the setting values
- (9) "Close" : close the normal contact point setting window.
  - If output zone is changed in equipment input/ output setting, zone setting should be redone.

8) EP / Timer setting : setup the broadcasting zone with EP/Timer.



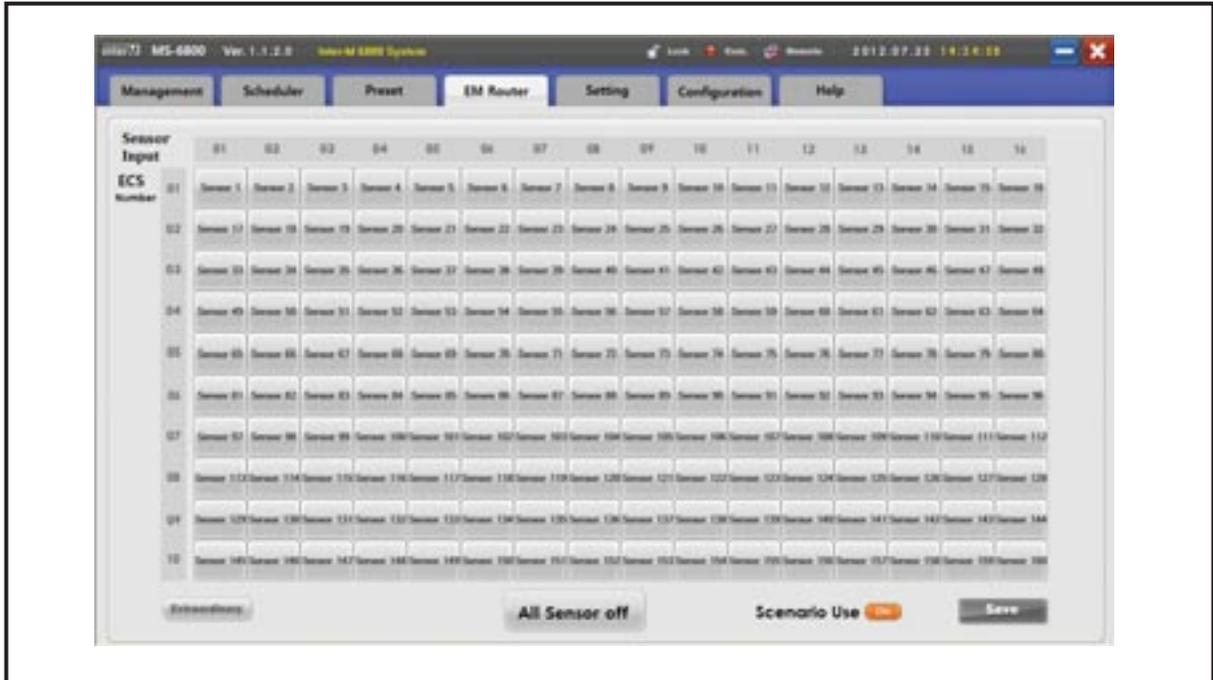
- (1) Select : select the operation method  
 (EP MIC : MIC operation of EP, TIMER : operate with timer (PW-6242A) mode)  
 - EP MIC : select the broadcasting zone when EP mode occurs  
 - TIMER : select the broadcasting zone when timer (PW-6242A) mode occurs.
- (2) Select group : select the group. (Zone set in the group will be selected.)
- (3) Select zone : Select the zone
- (4) "A", "B" : display the zone name. ("A": Zone1 ~ Zone80, "B": Zone81 ~ Zone160)
- (5) "Select all" : select all zones
- (6) "Clear" : clear all zones selected
- (7) "Save" : save the setting values  
 - In above figure, EP/Timer setting is operated with "EP MIC" mode, and when using MIC of EP. It will be broadcasted to all 1st grade classes.

- 9) Sound source macro : it is the function that treats the 2 or more mixed sources as one source if you want to mix 2 or more BGM sources



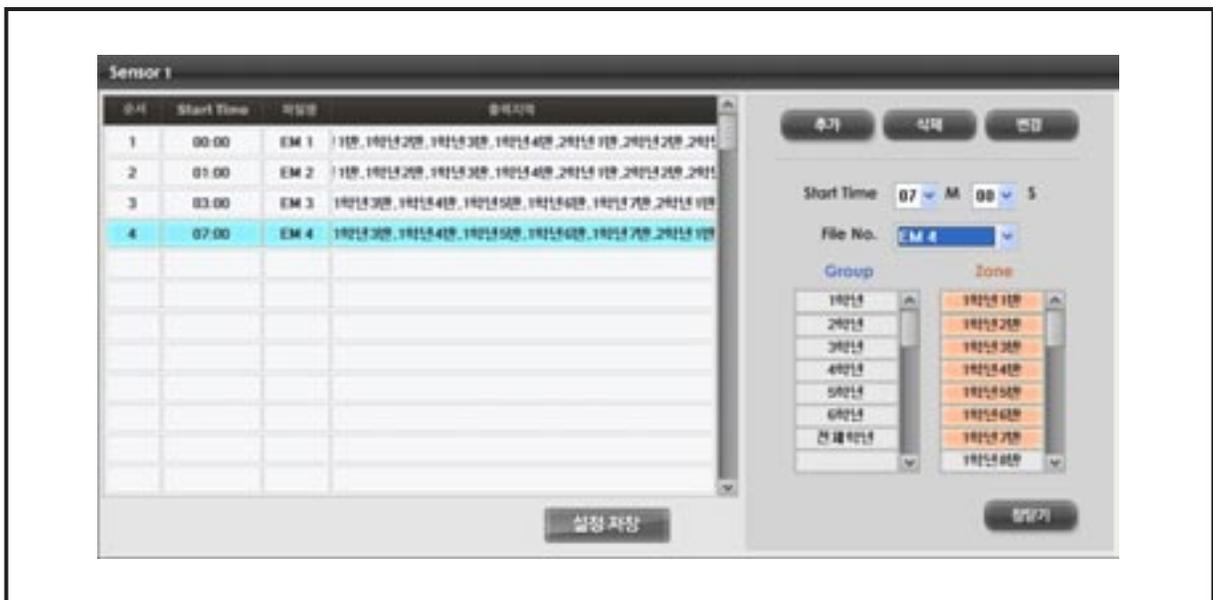
- (1) Add sound source macro :
- (EP MIC: operate in EP mode, TIMER : operate in timer mode)
- Select sound source: : left-click the mouse on the sound source are to be moved, and drag to the position you want to move it, and unclick the mouse on the sound source macro domain.
- (2) Delete : delete the sound source macro composition.
- (3) "Save" : save the setting values.
- \* Max. 4 sound source macros can be made.
  - \* Max 4 sound sources can be added in each sound source macro.
  - \* Macro icon will be activated when setting up the macro in the sound source selection of operation mode.
  - \* Broadcast may not be started in accordance with priorities for sound sources set in the macro.

4. **EM router** : setup the scenario broadcasting when 16 Input sensors connected to ECS are on. (Interlocked with PV-6232)



(1) Sensor setup : normal individual scenario for each Input sensor is set.  
(Click "Sensor" area.)

Setup normal scenario : setup the normal scenario for each Input sensor.



- Sensor1 : display the sensor number currently being set.

- Start Time : setup the broadcasting start time after Input sensor occurs. (minute/ second)

- File No : setup the audio file number to be broadcasted after Input sensor occurs.  
(\* Audio file number of PV-6232)
- \* Refer to PV-6232 User Manual for detail information.
- Group : zone can be selected with group button. (Zone set in the group will be selected.)
- Zone : Select the zone to be broadcasted.
- Add : add the set values in scenario list.
- Delete : delete the selected item from scenario list.
- Change : change the setting value.
- Save : save the setting values.
- Close : close the scenario setting window.
- \* If output zone is changed in equipment input/output setting, zone setting should be redone.

(2) Special scenario: setup the special scenario.

\* If "Special scenario" button is clicked, special scenario setting window will be activated.

(\* Setting method is same as the normal scenario setting.)

\* Special scenario : it means that 2 or more sensor inputs occur.

If one sensor input occurs, it is operated with normal scenario mode. If additional one sensor input occur in the normal scenario mode, it will be operated as the special scenario mode. (If sensor inputs are more than 2, special scenario mode) Also, if only one sensor input is caused in the special scenario mode, it will be operated as the normal scenario mode again, and if there is no sensor input, it terminates the scenario.

(3) All contact points off : reset all contact point signals.

\* Use : it is the button to turn off in case of wrong contact point signal.

\* See the guideline, and push the confirm.

(4) Use scenario :setup the "Scenario using mode" to use and not use.

\* Use : if Input sensor occurs, it will be operated as the scenario mode.

\* Not use : if Input sensor occurs, it will be operated as the normal Input contact point mode.

(\* Operated as Input sensor mode in "Configuration-> Input Sensor".)

(5) "Save" : save the setting values

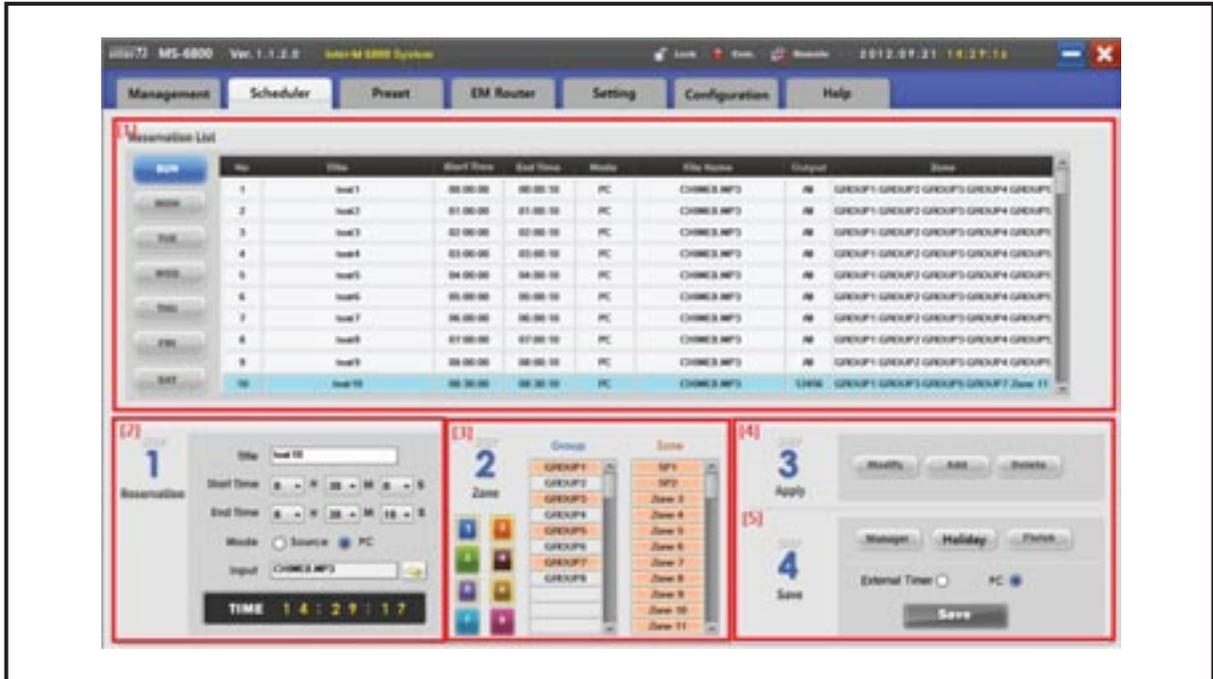
5. **Preset** : sound source and zone information, "Preset" setting information set in the operation mode, will be displayed. (Only label name can be set in the current page)  
 Preset setting is set in the operation mode. (Reference: refer to Preset in the operation mode.)



- (1) Preset : select the preset.
- (2) Preset label : insert the preset label name
- (3) "Input" button : setup as the name inserted in the preset label
- (4) Save preset : save the preset label.
- (5) Select sound source: display the sound source of selected preset.
- (6) Select zone : display the zone of selected preset.
- (7) "A", "B" : display the zone name. ("A": Zone1 ~ Zone80, "B": Zone81 ~ Zone160)  
 - If output zone is changed in equipment input/ output setting, zone setting should be redone.

## 6. Scheduling

With scheduling PC timer reservation broadcasting, previously set sound source can be played in the zone you want.



[1] Reservation setting list : display the reservation list for each day.

- Select day : select the reservation day. (Sunday ~ Saturday)
- Select list : display the detail information of selected schedule on [1], [2].

[2] Reservation Setting

- Reservation name : insert the reservation name.
- Starting time : insert the starting time.
- Finishing time : insert the finishing time..
- Reservation type : select the sound source to be broadcasted.
  - \* Digi link : use the external unit sound source..
    - Control the source units, and plays the Track (CD) and preset (Tuner) sound sources of selected source units.
  - \* PC : use the PC internal sound source.
    - Control PC internal sound source.
    - Add/delete PC file to play the file in the list.
- Input setting :select the source unit to be played or load the sound source.
  - \* If "Digi link" : Click  icon, then Digi link setting window will pop up.

Mode  Source  PC



After selecting the sound source and track number (preset number), click [Set] button to finish the setting.

\* For "PC" click :  icon, then sound source screen will pop up.



- Add : add the new music file to the list.
- Delete : delete the file selected in the list.
- Save : set the currently selected list to the play file.

### [3] Zone Setting

It is the screen which sets the zone where reserved broadcasting is sent, and group and individual zone can be set.

- 1) Select group: select as the set group.
- 2) Select zone: select as the individual zone.
- 3) Select output : select as the set output.

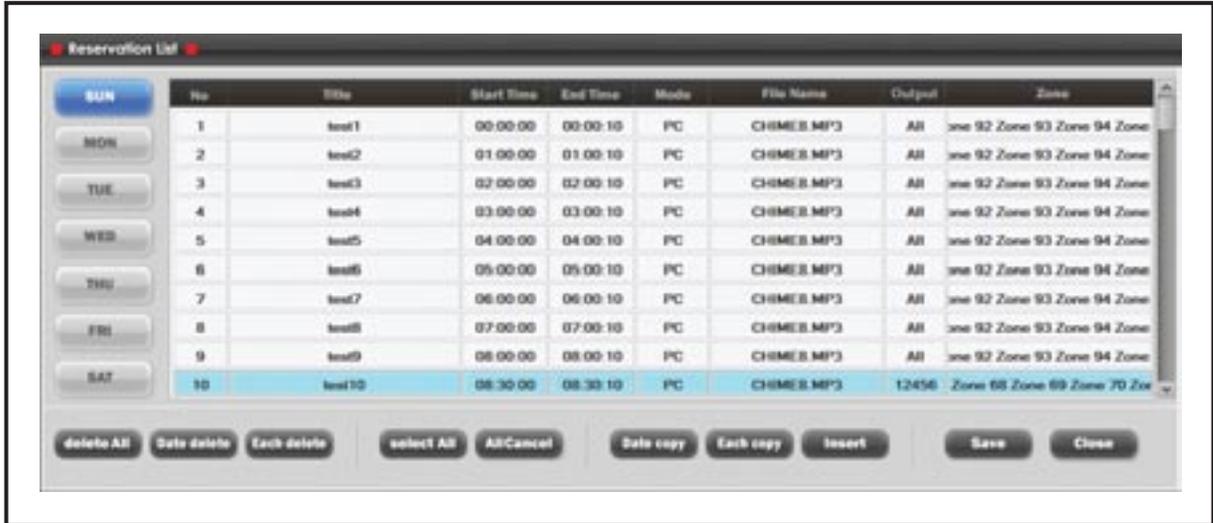
### [4] Application of Reservation

It is the edit function about the reservation list, it performs the add, modify and delete functions.

- [Edit reservation] : edit the item selected in the reservation list.
  - [Add reservation] : add the set item to reservation list.
  - [Delete reservation] : delete the item selected from the reservation list.
- If select the item to be edited, setting content can be confirmed.

[5] Save setting

- List management : fast edit and day copy about the entire reservation lists can be executed.



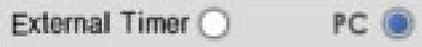
- [Delete all] : delete all reservation contents from Monday to Sunday.
- [Delete day] : delete all reservation contents on selected day.
- [Selective delete] : delete the selected individual item from the reservation list.
- [Select all] : select all items on selected day.
- [Clear all] : cancel all selected items.
- [Copy day] : copy the selected day to memory.
- [Selective copy] : copy selected contents to memory.
- [Paste] : add the copied contents in the memory to the list.
- [Save] : save the setting
- [Close] : close the reservation setting list.

- Holiday management: manage the holiday list. Broadcasting will not be on in the holiday.



- Reservation name: insert the name to be saved.
- Add: add the selected date to the list.
- Delete: delete the selected list item.
- [Close] : close Load/Save window.

- Forced termination : terminate the scheduler broadcasting by force.
- Set PC scheduler use  
Item that sets whether scheduling functions will be used or not. (Default: use reservation functions)



- \* Use outside scheduler : use the outside scheduler functions. (PW-6242A unit interlocking)
  - \* Use PC scheduler: use the PC scheduling functions.
- Reservation setting save button  
Save the setting.  
※ Caution: after setting, if [Save reservation setting] button is not clicked, setting will not be saved.  
Push this button if setting is completed

# Use MS-6800 Program (Server)

## ◆ Operation Mode

### 1. Screen Functions



#### 1) Adjust sound sources

- Divided into input of sound source Volume, output Volume, output EQ and Digi Link control.

#### 2) Display MS-6800 program version and user name

- If MS-6800 version ("Ver.1.1.2.0") is clicked, PX-6216, ECS-6216MS and Monitoring Device versions can be confirmed as below.



**3) Sound source screen**

- (1) Sound source to be broadcasted can be selected. (sound source can be set in Configuration > Source).
- (2) When selecting the macro, sound source can be selected by using the macro set in the configuration.

**4) Status Display Icon****(1) Lock**

- If lock function is used, only monitoring is possible and control will not be possible
- Can be set and cancelled by inserting ID/PW.

**(2) Communication**

- Display the serial port connection status between PC and DIB.
- Green for normal, and red for communication failure.
- ※ Caution: communication will not be available if USB serial port is connected after removing it.  
In this case, USB connection should be checked. If it is connected, text will disappear automatically.

**(3) Remote**

- Display whether client is connected or not.
- Green for normal, and red for communication failure.



: client is connected



: client is not connected

- If "Remote" is clicked, currently connected clients will be displayed.



Forced termination : clear the client connection by force.

**5) Display Server Status**

- SERVER: means the server PC program which controls by connecting with the system directly.
- Login ID will be displayed on the back.

**6) Preset Selection Screen**

- (1) Preset set in the preset setting window can be selected.
- (2) Preset screen consists of two screens, A and B, and each displays 6 presets, and total 12 presets can be selected.
- (3) Only button will be selected if preset button is clicked. At this time, if click right button and setup the preset, currently broadcasted input/output volume, EQ, source, output BUS and output zone will be saved.
- (4) Saved preset can double click the button.

**7) Broadcasting Status Screen**

- Displays the type of broadcasting. (RM, BGM, EM, etc.)

**8) Power Distributor Button**

- Turn on/off the power of the power supplier under stand-by status in BGM mode.

**9) Emergency Broadcasting Button**

- Changed to EM mode.

**10) Monitoring : monitoring PD-6359, PB-6207, SC-6224, AFD-6214.**

- equipment. Of PD-6359, PB-6207, SC-6224, AFD-6214 is Monitoring

**11) Group Selection Screen**

- It is used when selecting the broadcasting zone and max. 16 group can be set. (Able to set in the configuration)

**12) Zone Page Selection Screen**

- Page displayed on the zone selection screen can be selected.

**13) Broadcasting Start / Finish Button**

(1) Broadcasting Start : After selecting the zone to be broadcasted, and push the start button to broadcast.

(2) Broadcasting Finish : Select the zone being broadcasted, and push the broadcasting finish button.

**14) Zone Selection Screen**

- Broadcasting zone can be selected individually.  
Entire zones can be selected/cleared.

**15) Minimize and finish**

: minimize the program.



: finish the program.

\* Check Communication Port Setting

A) If connection between PC and DIB-6000 is wrong or communication port(COM) setting is wrong, below message will be displayed.



B) If port and PC settings are incorrect in the [Configuration>Port Setting] of the program, it should be reset in the communication port setting [Refer to Page 21]

C) After changing the setting, restart the program.

**2. Controlling Sound Source**

It controls the controls of sound source, PC, CDP and Tuner of entire system.

- Remote : if it is checked. Can control volume and digi-link device.

1) Input volume control: controls 16 channel input audio volume of PX-6216.

➔ Sound source control consists of A and B page.



< Channel1 ~ Channel8>



< Channel 9~ Channel 10, EP, Timer, RM1~RM4>

➔ Simultaneous Control

\* Set Status : when controlling one channel volume, ch1 ~ ch10 input audio volume will be controlled simultaneously.

\* Not set status : only channel input audio volume will be controlled.

2) Output Volume : controls 8 channel output audio volume of PX-6216.

➤ Simultaneous Control

\* Set Status : when controlling one channel volume, ch1 ~ ch10 input audio volume will be controlled simultaneously.

\* Not set status : only channel input audio volume will be controlled.

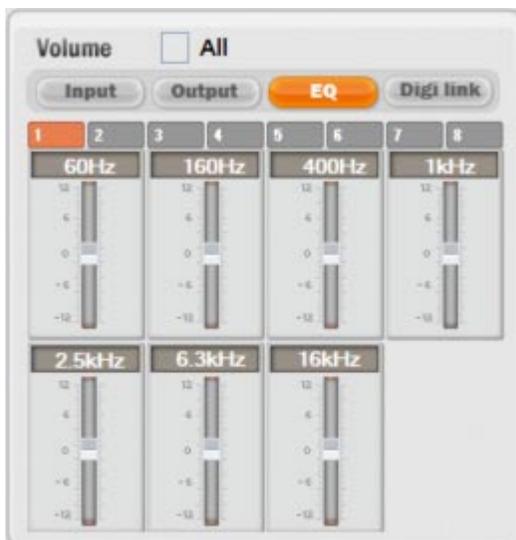


3) Output EQ : controls 8 channel of individual EQ volume of PX-6216

➤ Simultaneous Control : simultaneous control will not be supported in output EQ.

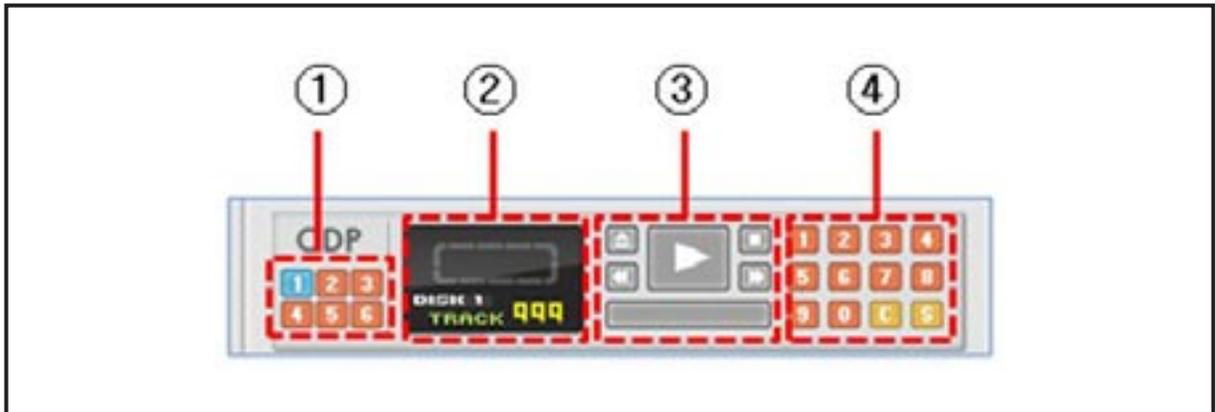
➤ [1] : Output EQ Channel (Ch1 ~ Ch8)

\* Select the output channel and control the EQ.



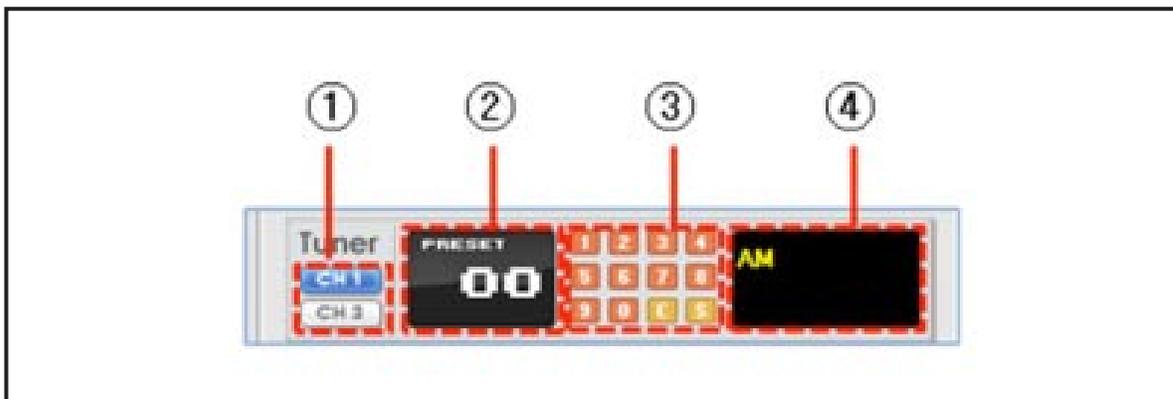
4) Digi Link(sound source control)

- CDP control : controls the CS player which is audio input unit.



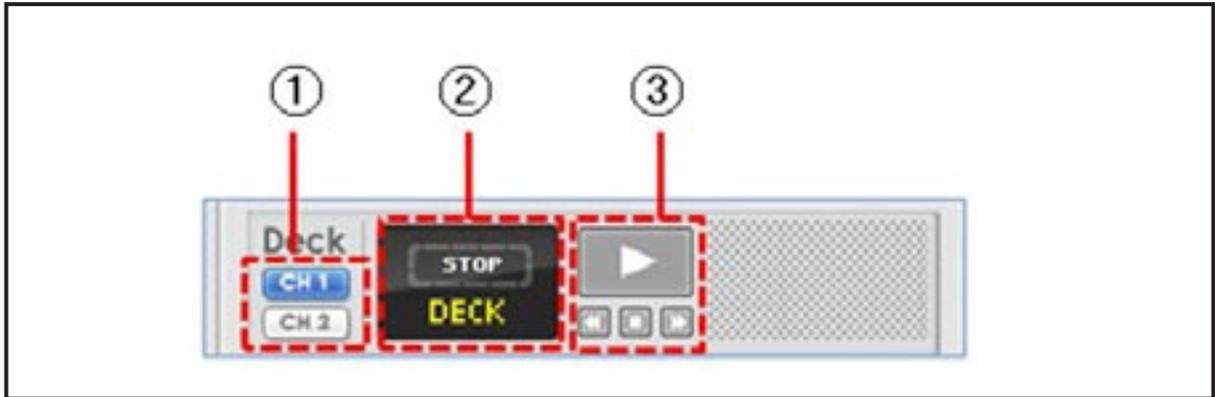
- ① CDP registered as the source unit can be selected.
- ② Displays the selected track and playing status.
- ③ CDP control button. Pull out, play, stop, forward and backward buttons on it
- ④ Track can be selected with combinations of numbers. C is cancel, S is select buttons.

- TUNER control : control the tuner which is audio input unit.



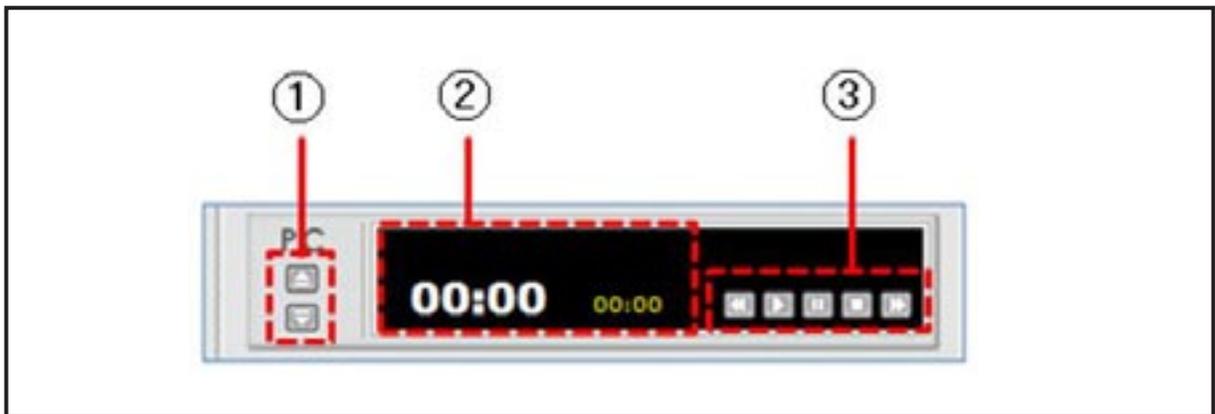
- ① Preset number of tuner registered as the source unit can be edited.
- ② Preset number, being played, will be displayed.
- ③ Preset numbers set in the tuner can be selected with combinations of numbers. C is cancel, S is select buttons.
- ④ Displays the current broadcasting status.

- DECK control : controls the deck which is audio input unit.



- ① Channel of deck registered as the source unit can be selected.
- ② Displays the playing status of deck.
- ③ DECK control buttons; play, forward, stop and backward.

- PC MP3 Control : controls the play of MP3 file.



- ① Sound source select and server sync button.
  - i. Click  button, then window which can select MP3 file will be opened.



The screenshot shows a window titled "Input" with a table of sound files. The table has two columns: "File Name" and "Play Time". The files listed are CHIME8.MP3, CHIME1.MP3, CHIME2.MP3, CHIME3.MP3, CHIME4.MP3, CHIME5.MP3, CHIME6.MP3, and CHIME7.MP3. The play times are 00:00:10, 00:00:02, 00:00:03, 00:00:03, 00:00:05, 00:00:05, 00:00:07, and 00:00:07 respectively. Below the table are four buttons: "Add", "Delete", "Save", and "Close".

File Name	Play Time
CHIME8.MP3	00:00:10
CHIME1.MP3	00:00:02
CHIME2.MP3	00:00:03
CHIME3.MP3	00:00:03
CHIME4.MP3	00:00:05
CHIME5.MP3	00:00:05
CHIME6.MP3	00:00:07
CHIME7.MP3	00:00:07

- Add: sound source can be registered.
- Delete: delete the sound source registered.
- Setup: setup the sound which plays the selected file.
- Close: close the window.

ii.  When it is in client mode, it syncs with server.

② Displays the name of file and playing time.

③ Sound source control buttons of PC; forward, play, pause, stop and backward buttons.

### 3. Controlling Broadcast



- 1) Select sound source :select the sound source to be broadcasted.
  - (1) Normal sound source : displays the audio input source inputted in PX-6216. (Input Channel : Ch1 ~ Ch10)



\* Push Ctrl and select. Several sound sources can be selected.

- (2) Macro sound source : displays the macro input source
  - Check macro "Radio Button" to activate the macro button

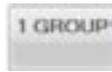


\* Refer to "Configuration->sound source macro".

2) Select group : broadcasting zone can be set in the group.



- \* Set in the add, edit and delete setting part about the group.
- \* Refer to "Configuration -> Group Setting".



➔ Group Not Selected status.



➔ Group Selected status.

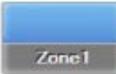
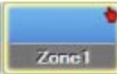
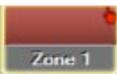
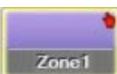
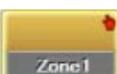
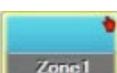
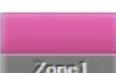
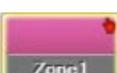
3) Select zone : broadcasting zone can be selected with individual and "Select all".  
 - If zone name is long, "... " will be displayed after max. 8 digits.'



(1) **Select All** : change the entire zone list in selected status.

(2) **Delete All** : change the entire zone list in cleared status.

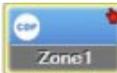
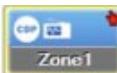
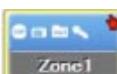
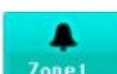
(3) Zone status value : classifies the PX-6216 8 Bus with color and display it.

- |  |  |   |
|--|--|---|
|   |   | ➤ Means number 1 BUS of PX-6216 and display the zone not selected/selected status |
|   |   | ➤ Means number 2 BUS of PX-6216 and display the zone not selected/selected status |
|   |   | ➤ Means number 3 BUS of PX-6216 and display the zone not selected/selected status |
|   |   | ➤ Means number 4 BUS of PX-6216 and display the zone not selected/selected status |
|   |   | ➤ Means number 5 BUS of PX-6216 and display the zone not selected/selected status |
|   |   | ➤ Means number 6 BUS of PX-6216 and display the zone not selected/selected status |
|   |   | ➤ Means number 7 BUS of PX-6216 and display the zone not selected/selected status |
|  |  | ➤ Means number 8 BUS of PX-6216 and display the zone not selected/selected status |

\* If broadcasting is conducted with other sound source, new sound source will be mixed or only new sound source will be broadcasted after stopping the previous broadcasting.

\* Depending on "BGM broadcasting method", "Broadcasting by Mixing" setup value, it will be operated differently.

(\* Refer to "Configuration->Other Setting".)

- |   |   |
|---|---|
|  | ➤ Shows that CDP is broadcasted in the zone                               |
|  | ➤ Shows that CDP and tuner is mixed in the zone and broadcasted           |
|  | ➤ Shows that CDP, tuner and MP3 is mixed in the zone and broadcasted      |
|  | ➤ Shows that MIC, CDP, tuner and MP3 is mixed in the zone and broadcasted |
|  | ➤ Shows that status broadcasting with schedule mode in the zone           |
|  | ➤ Shows that status broadcasting with remote MIC mode in the zone         |



➤ Shows that CDP and remote MIC is mixed and broadcasted in the zone.



➤ Shows that status broadcasting with schedule mode in the zone.



➤ Shows that current user has no access on the zone.

(4) Select zone page button: classify with zone page 1, 2, 3 and SR zone page, and used when changing the broadcasting zone.



: Zone page 1 : displays the zone list from Zone1 to Zone72.



: Zone page 2 : displays the zone list from Zone73 to Zone144.



: Zone page 3 : displays the zone list from Zone145 to Zone160.



: SR Zone page : display that PX-6216 output channel is in the list with SRport.

➤ Refer to "Configuration->Output Setting".



(5) : start the broadcasting in the selected zone list.



(6) : finish the broadcasting in the selected zone list.

4) MIXINGVolume control : control the mixing volume for each channel in the output channel (8 channels).

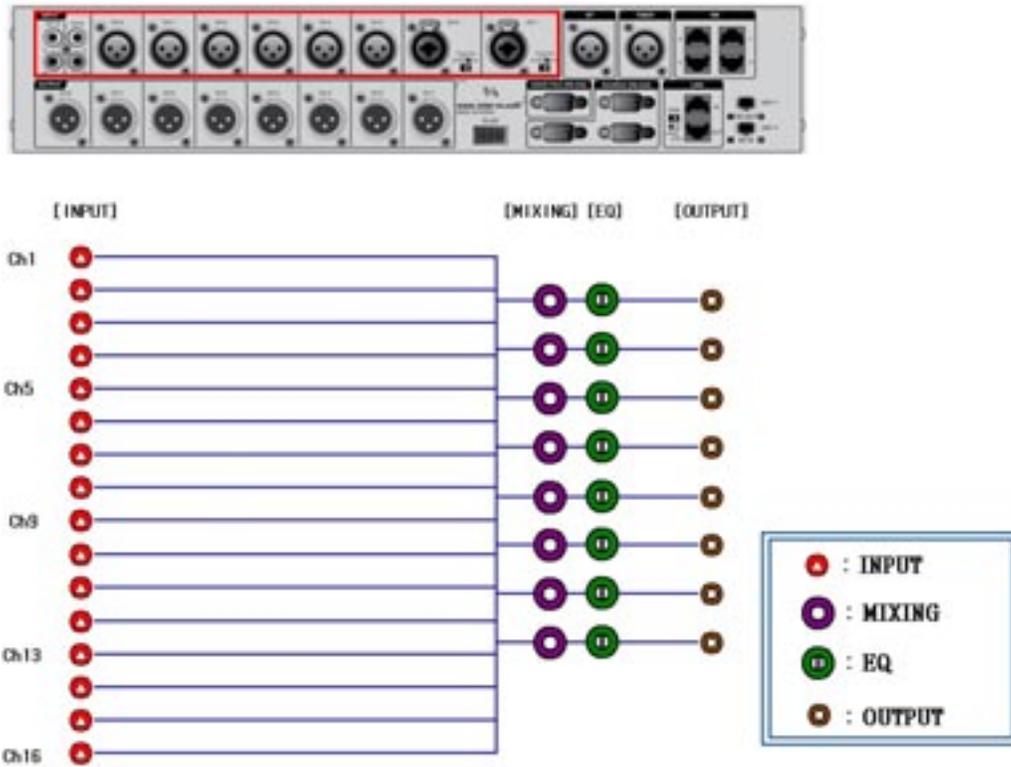


➤ Mixing volume window will be displayed if "mixing volume control of sound source" is selected in the menu by right-click the mouse on the zone.



➤ If currently broadcasted volume is activated, volume can be controlled individually.

- PX-6216 Volume consists of as below.

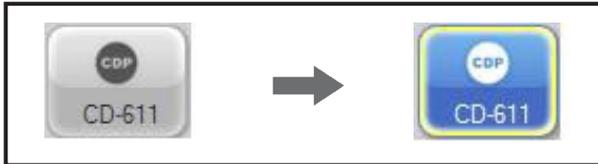


[System Volume Block Diagram]

- "INPUT" Volume : controls the input volume of PX-6216.  
(Refer to "sound source control->Input volume".)
- \* "MIXING" Volume : controls the mixing volume of PX-6216.  
(Refer to "MIXING".)
- \* "EQ" Volume : controls the EQ of PX-6216.  
(Refer to "sound source control ->EQ".)
- \* "OUTPUT" Volume : controls the output volume of PX-6216.  
(Refer to "sound source control ->output Volume".)
- \* Output Volume controls can control the "MIXING", "EQ", "OUTPUT" Volume for each channel (8 channels).

5) Select Zone Broadcasting

- ① Select the sound source to be broadcasted.
- B. Selected sound source icon will be changed as below.

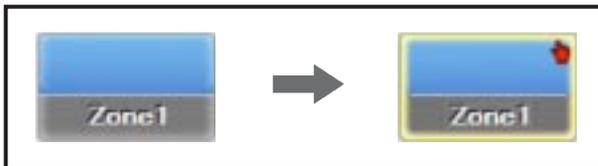


- C. When selecting the macro functions, 2 or more sound sources can be selected with one button in accordance with the rule stipulated in the sound source macro page in the configuration menu.



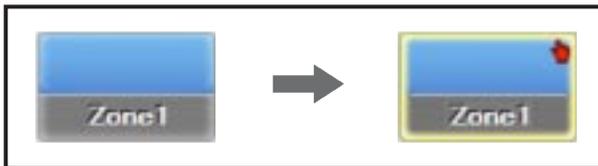
➤ Refer to "Configuration->sound source macro setting".

- ② Select the zone to be broadcasted.
- D. Each zone can be selected directly, and already set group can be selected.
- E. With Select All/ Clear button, entire zones can be selected/ cleared.
- F. Selected zone icon will be changed to as below.



- ③ Click **방송시작** button to start the broadcasting.

- G. Icon of the zone will be changed to as below. (CDP is broadcasted in the ZONE 1)



- ④ Click **End** to finish the broadcasting.

※ If Select Group or Select All is checked among items "Broadcasting Right Now" of pages "Configuration -> Other Setting", broadcasting will be started with Select Group/Select All. Thus, ② operation can be omitted.



6) Preset Select Broadcasting

① Select the preset button.

H. Sound source and zone will be selected in accordance the preset rules stipulated in the preset setting.

➔ Refer to "Preset Setting"

② Click **Start** button to start the broadcasting.

③ If Preset is checked among Broadcasting Now of the "Configuration -> Other setting", broadcasting will be started only with Preset selection. Thus, ② operation can be omitted.



7) Preset : execute the preset functions set in the preset setting.



➔ If "Preset" button is clicked, broadcasting will be started with certain sound source and zone previously set in the "Preset Setting". (Max. 12 presets)

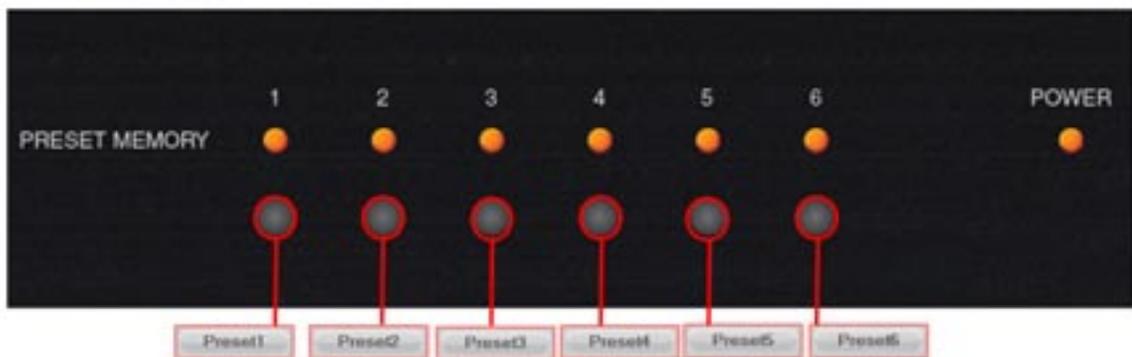
➔ [A] [B] : display the preset page list.

( [A] : Preset1 ~ Preset6 , [B] : Preset7 ~ Preset12 )

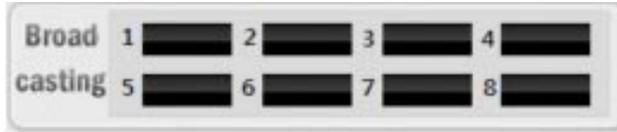
- To prepare the case of error on MS-6800 computer,

- Operate the 6 buttons of PX-6126 front by mapping to "Preset1"~"Preset6" buttons of the program.

**PX-6216 Front**

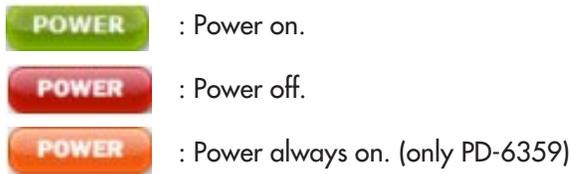


8) Broadcasting Status : display the current broadcasting status of PX-6216 output channel.

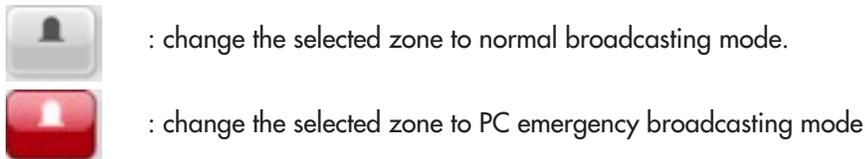


- (1) PCEM : displays that emergency broadcasting mode is broadcasted.
- (2) EM :displays that it is broadcasted with emergency broadcasting mode or Input Sensor contact point mode.
- (3) TIME : displays that it is broadcasted with scheduling mode.
- (4) RM1 : displays that it is broadcasted with remote MIC1 mode.
- (5) RM2 : displays that it is broadcasted with remote MIC2 mode.
- (6) RM3 : displays that it is broadcasted with remote MIC3 mode.
- (7) RM4 : displays that it is broadcasted with remote MIC4 mode.
- (8) BGM : displays that it is broadcasted with BGM mode.
- (9) SR : displays that it is broadcasted with SR mode.

9) Power Supplier : controls PD DC power.



10) Emergency Broadcasting: manually start the broadcasting with emergency mode.



※ Only administrator can change the emergency broadcasting mode.

11) Monitoring : Monitoring the Status of the PD-6359, PB-6207, SC-6224, AFD-6214.



- (1) PD-6359 : Monitoring the Status of PD6359 (Power Distributor).  
If [PD] button is pushed, below screen will be displayed.



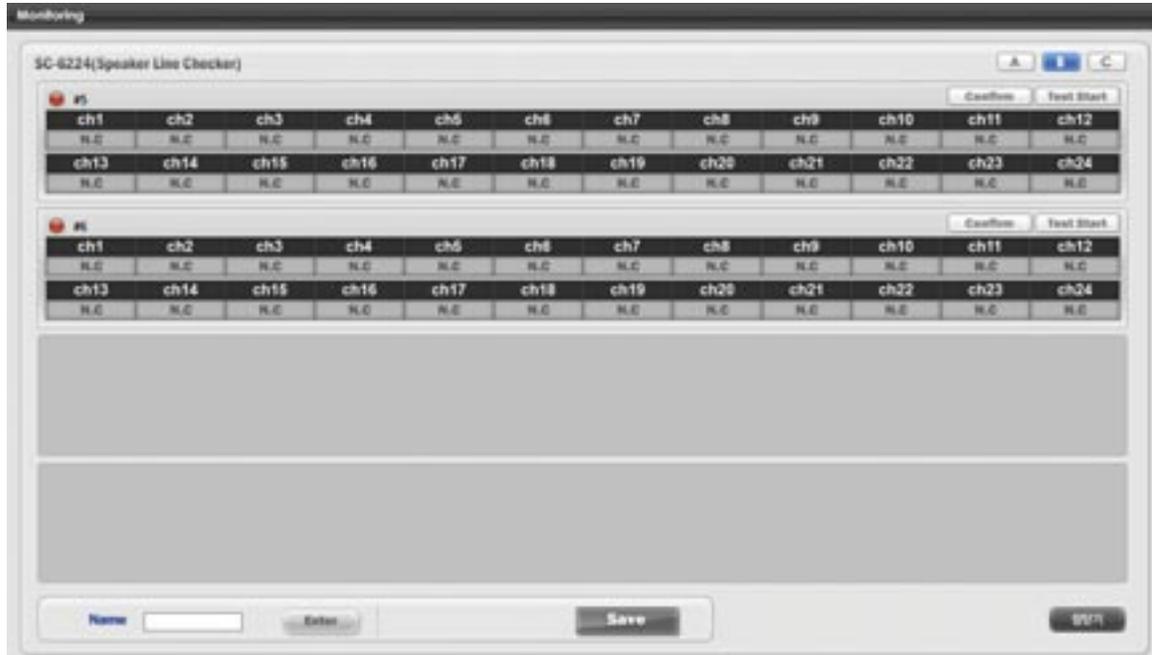
- ① Communication Status and Equipment Name Display
- ② Display Charging Voltage/Current
  - Display the battery charging voltage and current.
  - \* GREEN: normal
  - \* RED: unable to communicate
  - Setup of Equipment can be changed in the Configuration. [setting->input]
- ③ Display Charging Voltage/Current
  - Display the battery charging voltage and current.
- ④ POWER Button
  - It displays the status with colors of power ON/OFF button for each equipment.
  - \* Gray: OFF status
  - \* Red: ON status
  - \* Orange: ON status, but unable to ON/OFF.
  - To control it on the program while front power switch of PD is ON, it should be OFF
- ⑤ Name : Input the name of PD-6359.
- ⑥ "Enter" : Apply the name of PD-6359.
- ⑦ Channel Name Changes
  - If you want to select the channel name to be typed directly, current channel will be displayed on below screen.
  - Type the channel name you want, then push "Enter" button.
  - "SAVE" will save the changed status.
- ⑧ If "Close" button is pushed, the screen will be closed.

- (2) PB-6207 : Monitoring the status of PB-6207.(Battery Charger).  
If [PB] button is pushed, below screen will be displayed.



- ① Communication Status and Equipment Name Display
  - Communication status will be divided as below.
    - \* GREEN: normal
    - \* RED : unable to communicate
  - Setup of Equipment can be changed in the Configuration. [setting->input]
- ② Display Charging Voltage/Current
  - Display the charging voltage and current of battery
- ③ Name : Input the name of PB-6207.
- ④ "Enter" : Apply the name of PB-6207.
- ⑤ Channel Name Changes.
  - If you want to select the channel name to be typed directly, current channel will be displayed on below screen.
  - Type the channel name you want, then push "Enter" button.
  - "SAVE" will save the changed status.
- ⑥ If "Close" button is pushed, the screen will be closed.

- (3) SC-6224 : Monitoring the status of SC-6224.(Speaker Line Checker).  
If [SC] button is pushed, below screen will be displayed.



- ① Communication Status and Equipment Name Display
  - Communication status will be shown as below.
    - \* GREEN: normal
    - \* RED : unable to communicate
  - Equipment name can be changed in the Configuration. [setting->input]
- ② Confirm Button
  - If button is pushed, speaker track impedance of all 24 channels will be measured and saved in the memory.
- ③ Page Select Button
  - The status of Max. 4 equipments can be displayed per one page, and if select button is pushed, it will be moved to the relevant page
- ④ Test Button
  - If button is pushed, the channel status which speaker is connected will be checked.
- ⑤ Status Display
  - It will be displayed as below depending on speaker line status check results.
    - \* GOOD : speaker impedance within normal range
    - \* NG : speaker impedance out of normal range
    - \* OPEN : open speaker track
    - \* SHORT : short speaker track
    - \* NC : speaker not connected
- ⑥ Channel Name Changes
  - If you want to select the channel name to be typed directly, current channel will be displayed on below screen.
  - Type the channel name you want, then push "Enter" button.
  - "SAVE" will save the changed status.
- ⑦ If "Close" button is pushed, the screen will be closed.

- (4) AFD-6218 : Monitoring the status of AFD-6218 (Amplifier Fault Detector).  
If [AFD] button is pushed, below screen will be displayed.



- ① Communication Status and Equipment Name Display
  - Communication status will be shown as below.
    - \* GREEN: normal
    - \* RED : unable to communicate
  - Equipment name can be changed in the Configuration. [setting->input]
- ② Page Select Button
  - The status of Max. 5 equipments can be displayed per one page, and if select button is pushed, it will be moved to a relevant page
- ③ TEST Button
  - If button is pushed, channel status which speaker is connected will be checked.  
[Refer] The result display may be delayed even if the numbers of equipment are expanded.
- ④ Channel Status Display Icon (CH1~CH8)
  - Divided into normal channel (CH1~CH8) and SPARE channel.
  - Channel statuses are divided into as below.
    - \* GREEN On: normal
    - \* RED Off: FAULT
    - \* RED Blink: switch to spare amp among fault channels
- ⑤ Channel Name Changes
  - If you want to select the channel name to be changed directly, current channel will be displayed on below screen.
  - type the channel name you desire, then push "Enter" button.
  - "SAVE" will save the changed status.
- ⑥ If "Close" button is pushed, the screen will be closed.

# MS-6800 Program Help

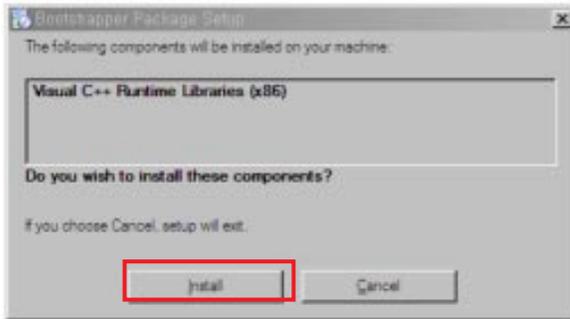
Print out the MS-6800 Program Manual.



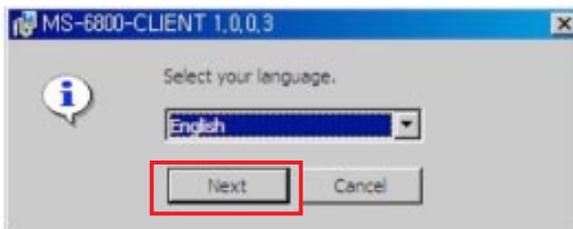
## Using MS-6800 Program (Client)

### ◆ Installing Client Programs

- 1) Execute the 'MS-6800\_CLIENT\_SETUP\_V1.0.0.0.EXE' of provided Set-up CD.  
Below screen will pop up and click [Install] button.  
(Caution: if Visual C++ Runtime Libraries(x86) is installed, below screen will not pop up. In this case, it will be started from step 2. )



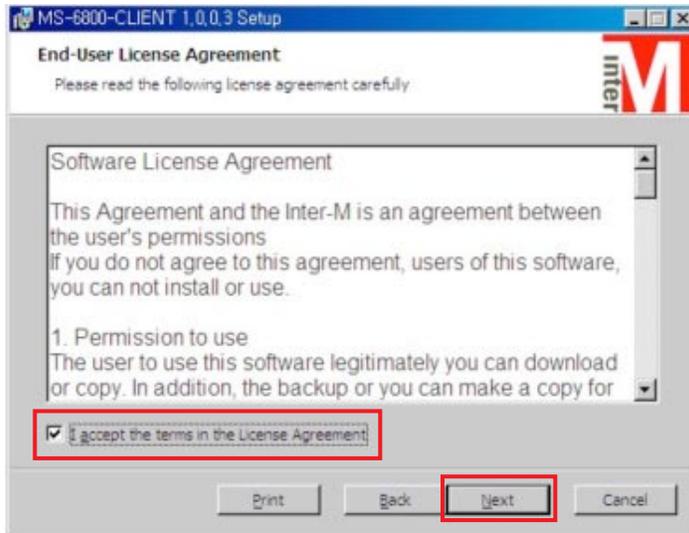
- 2) Language installation screen. Click [Next] button.



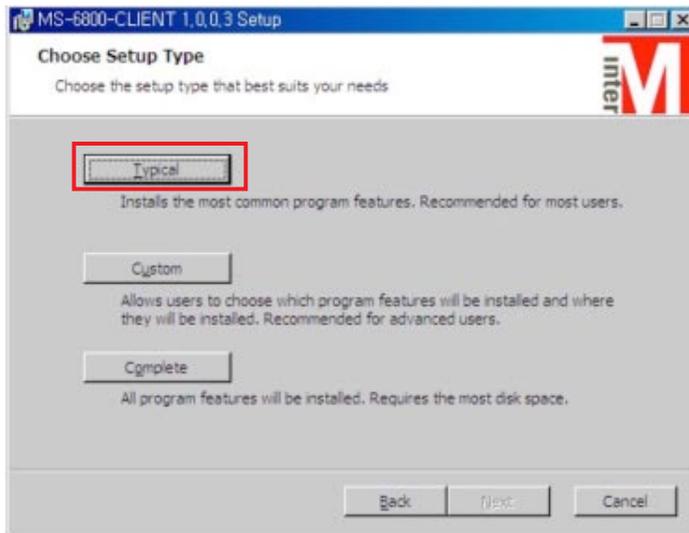
- 3) Installation start screen. Click [Next] button.



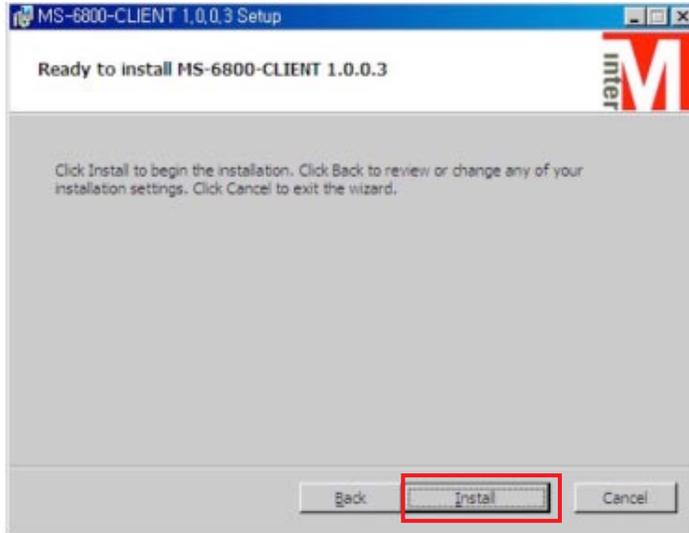
- 4) Final user right contract screen. Check [Agreed] and click [Next] button.



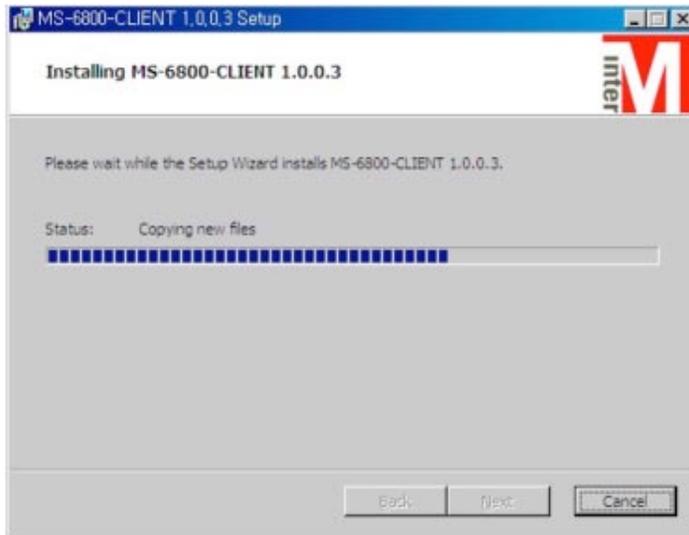
- 5) Installation type selection screen. Click [Standard Installation] button.



6) Preparation screen for installation. Click [Install] button.



7) Installing screen. Wait until installation is finished.

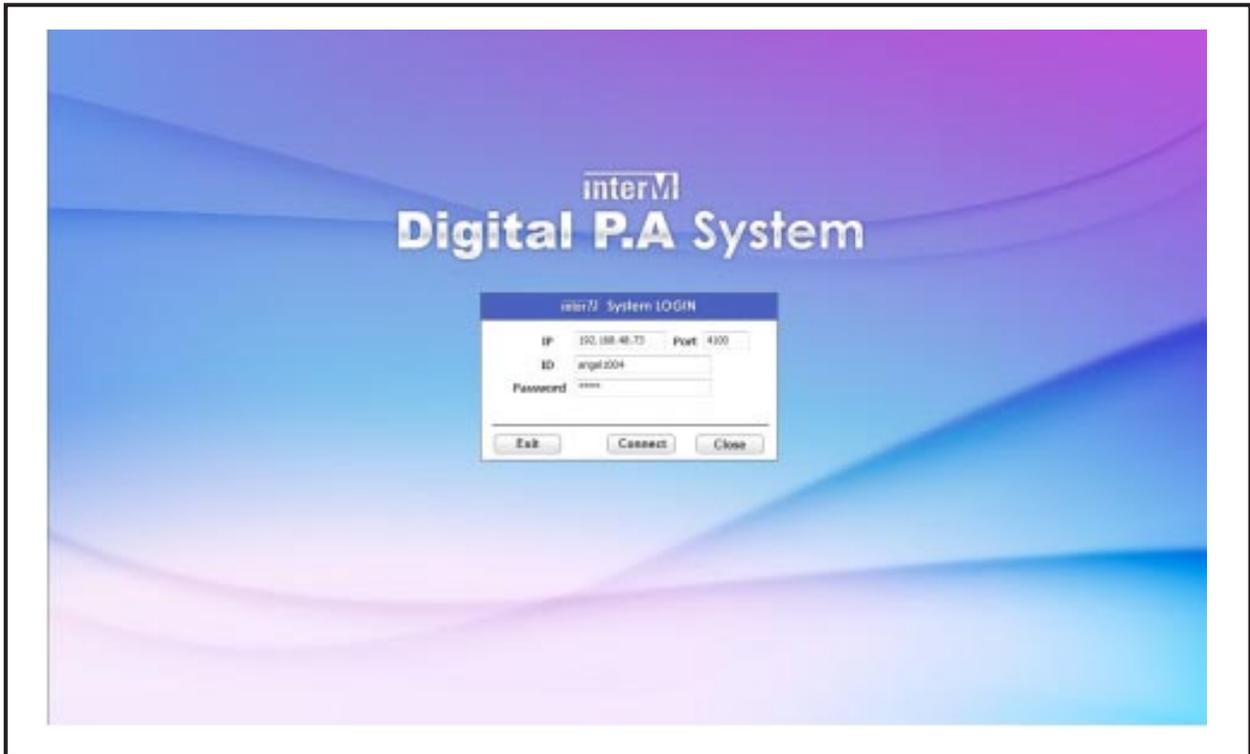


- 8) Installation completing screen. Click [Finish] button.  
Restart the system if installation is finished.



## ◆ Starting Client Program

### 1. LOGIN



- 1) IP :insert the IP address of MS-6800 server program..
- 2) Port :insert the port of server program. (Default :4100)
- 3) ID : INSERT THE USER NAME.
- 4) Password : insert the user PW. (Case sensitivity)
- 5) "Exit" : finish the program.
- 6) "Connect" : connect to server.
- 7) "Close" : close the login window.

- After closing the window, if screen is click, login window will pop up again.
- Register the user in the configuration of MS-6800 program (Refer to MS-6800->Configuration->ID/PW setting).

- 1) PORT Setting
  - (1) SERVER IP: insert the server IP to be connected.
  - (2) SERVER Port : insert the server PORT to be connected.
  - (3) User ID : insert the user ID.
  - (4) PassWord : insert the user PW.
  - (5) "Save" : save the setting values

## 2. Client Screen Functions



- 1) Connected serverIP  
Display the connected IP address.
- 2) Display the Client (Remote) program version
- 3) Display the sound source  
Broadcasting sound source can be selected. (Sound source can be set in Configuration>Source).  
When selecting the macro, sound source can be selected by using macros set in the configuration.  
(Macro functions will be available only for user authority is "Manager")
- 4) Status Display Icon  
Display the communication status with server.  
Green for normal and red for communication failure.
- 5) Sound Source Control  
- Function not supported in the remote mode.

## 6) Preset Selection Screen

Preset set in the preset setting window can be selected.

Preset screen consists of two screens; A and B, and each displays the 6 presets, and total 12 presets can be selected.

If preset button is clicked, only button is selected. At this time, click right button while setting the preset, input/output volume, EQ, source, output BUS and zone will be saved.

Double click the button for saved presets.

## 7) Broadcasting Status Screen

- Displays the type of broadcasting. (RM, BGM, EM, etc.)

## 8) Power Distributor Button

- Turn on/ off the power of the power supplier under stand-by status in BGM mode.

## 9) Emergency Broadcasting Button

- Changed to EM mode.

## 10) PCMIC : send the client (remote) computer MIC input sound source to server unit.

(Macro functions are only available to the person whose user authority is "Manager".)

## 11) Monitoring : The values of equipment About PD-6359, PB-9207, SC-6224, AFD-6214.

## 12) Group Selecting Screen

Select the broadcasting zones as the group.

(Only set in the MS-6800 server program).

## 13) Zone Page Selecting Screen

Page displayed on the zone selecting screen can be selected.

## 14) Broadcasting Start / Finish Button

(10) Broadcasting Start : After selecting the zone to be broadcasted, and push the start button to broadcast.

(11) Broadcasting Finish : Select the zone being broadcasted, and push the broadcasting finish button.

## 15) Zone Selection Screen

- Broadcasting zone can be selected individually.

Entire zones can be selected/cleared.

## 16) Minimize and finish



: minimize the program.



: finish the program.

- Operation method for the client is same as MS-6800 server program method, and refers to server program for detail information.

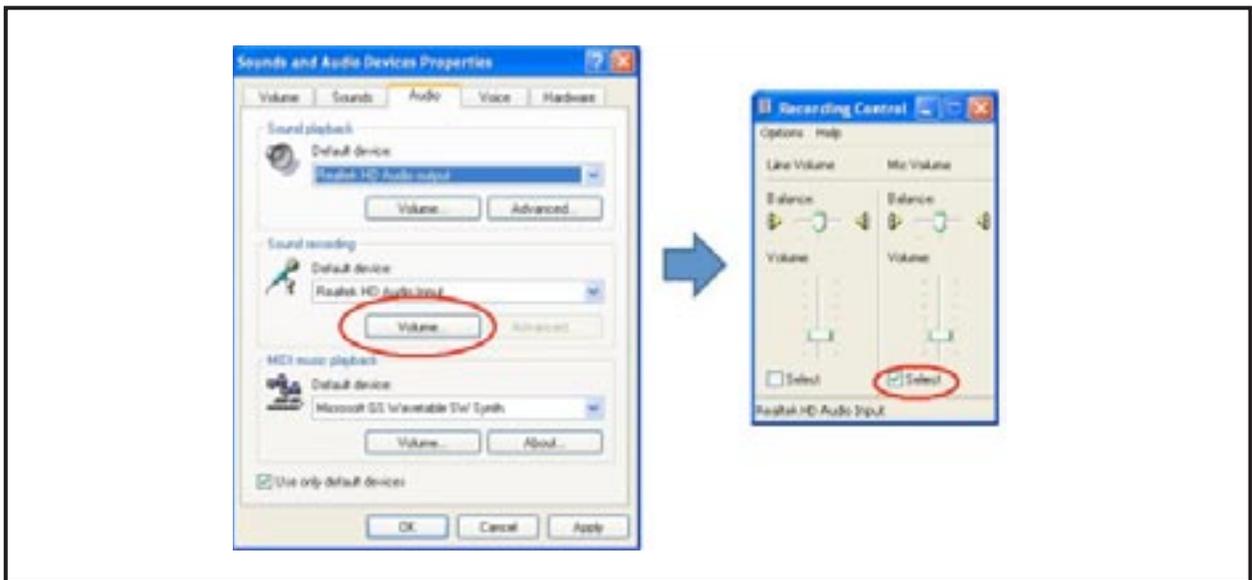
◆ **Additional Items**

**1. Connect PC MIC to Client PC and Check Setup Status**

Before using PC MIC in client PC, check the MIC connection and status.  
If setup is wrong, MIC will not be output.

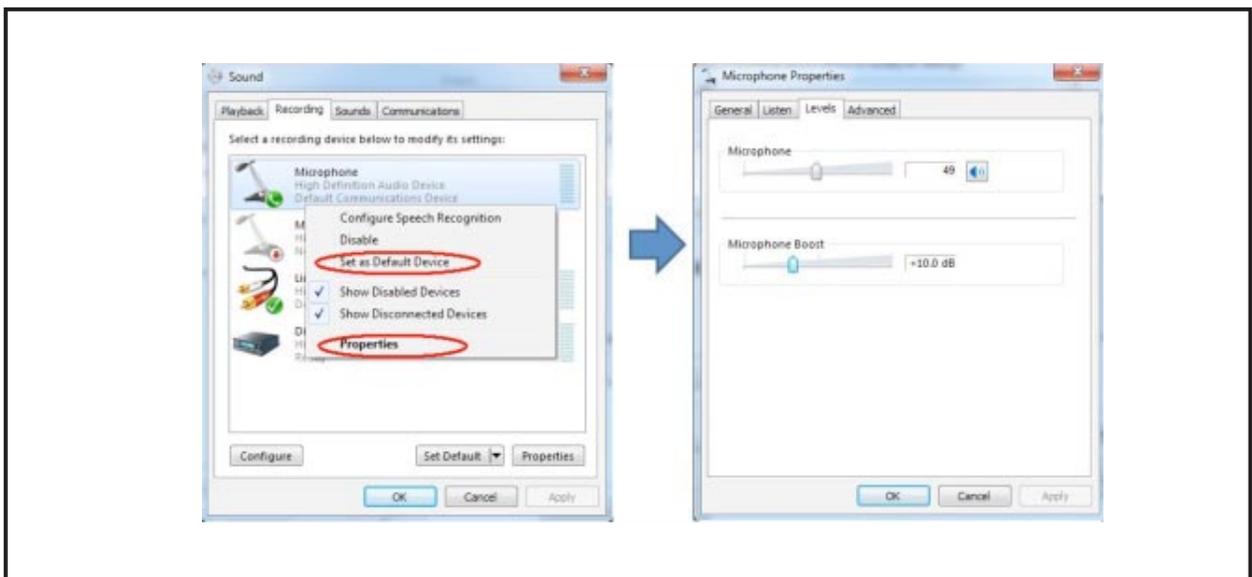
<XP>

- Push [Volume] button on the audio sound record to select the [Record Control] setting to MIC, and adjust the MIC level.



<WIN7>

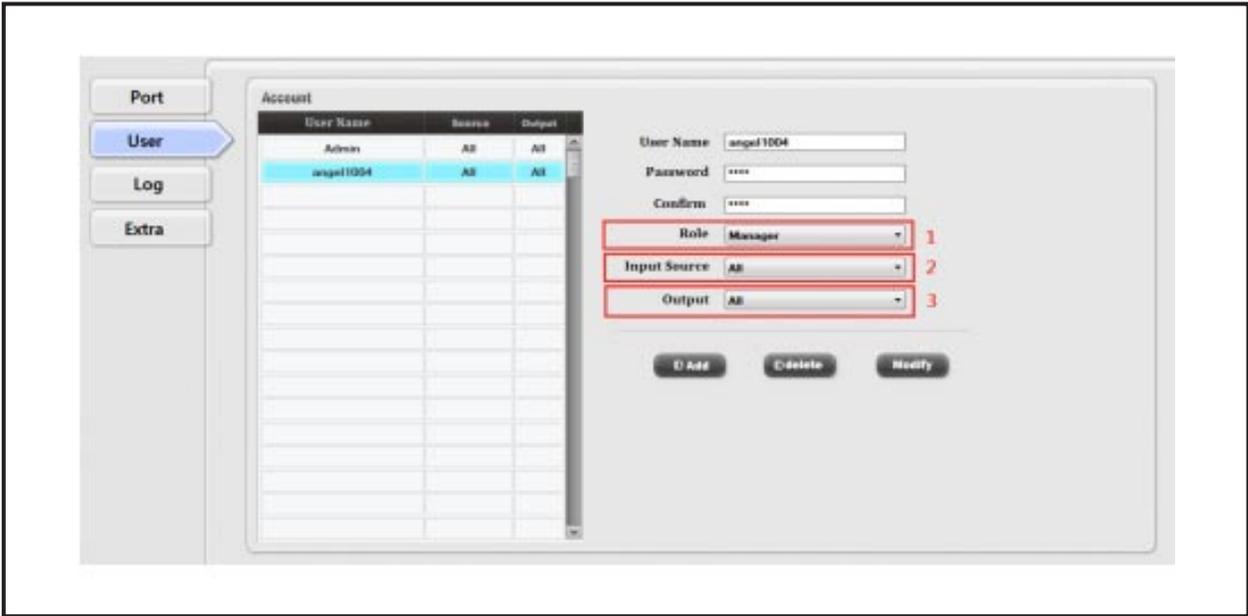
- 1) Select the [Record] menu on above screen and set MIC as default device.  
- Select [Level] menu, and adjust the MIC and MIC amplify level.



◆ Example of User Screen depending on User Authority

1. If User authority is "Manager"

1) Setup Authority



(Setup the user account in MS-6800server->Configuration->ID/PW.)

- (1) User authority : "Manager"
- (2) Select sound source: ALL (Select all sound sources)
- (3) Select output : ALL (Select system all zones)

2) MS-6800 Client Connection



(Connect with "angel 1004" which has manager authority.)

- (1) IP :insert the IP address of MS-6800 server program..

- (2) Port :insert the port of server program. (Default :4100)
- (3) ID : INSERT THE USER NAME.
- (4) Password : insert the user password (Case sensitivity)
- (5) Click the connection button.

- If connection is success, below screen will pop up.



(All sound sources and zones will be displayed).  
Client screen configuration will be composited differently in accordance with user authority.

The reason consisting the screen as shown above are as follows

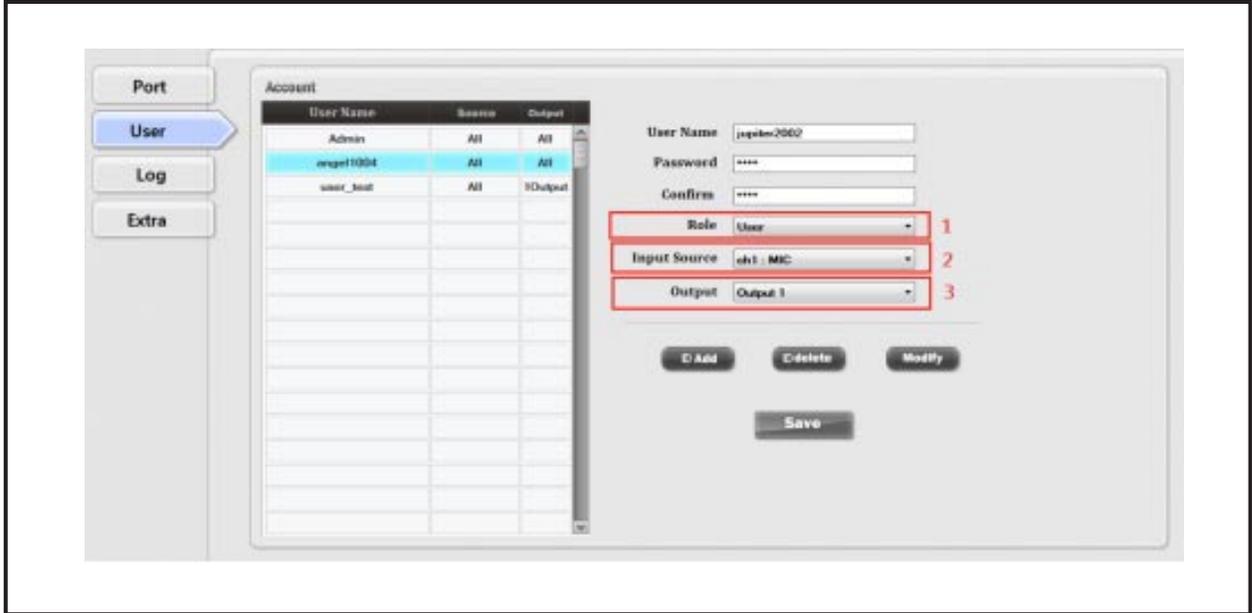
- (1) Connected user authority is "Manager".
  - (2) Sound source selection of connected user authority is set as "All"
  - (3) Output selection of connected user authority is set as "All".
- Entire sound sources and zones can be controlled.

### User Authority Modes

- Administrator : administrator account which can setup the entire system from local area,
- Manager : manager account which can control the system from remote area.
- User : account which has authority on the sound sources/BUS/zone.
- Guest : account which monitors only system from remote zones.

## 2. If user authority is "User"

### 1) Authority Setup



(Setup the user account in MS-6800server->Configuration->ID/PW.)

(1) User authority : "User"

(2) Select sound source : "Ch1 :MIC" (Channel 1: select MIC)

(3) Select output : "output 1" (Select output number 1)

(Local zone connected in output number 1 can be selected)

\* Refer to Configuration->Input/Output (output setup). [Page 23]

### 2) MS-6800 Client Connection



(Connect with "jupiter2002" which has user authority.)

- (1) IP : insert the IP address of MS-6800 server program.
- (2) Port : insert the port of server program. (Default : 4100)
- (3) ID : insert the user name.
- (4) Password : insert the user password (Case sensitivity)
- (5) Click the connection button.

- If connection is success, below screen will pop up.



(Local zone connected in sound source number 1 channel and output number 1).

Client screen configuration will be composited differently in accordance with user authority.

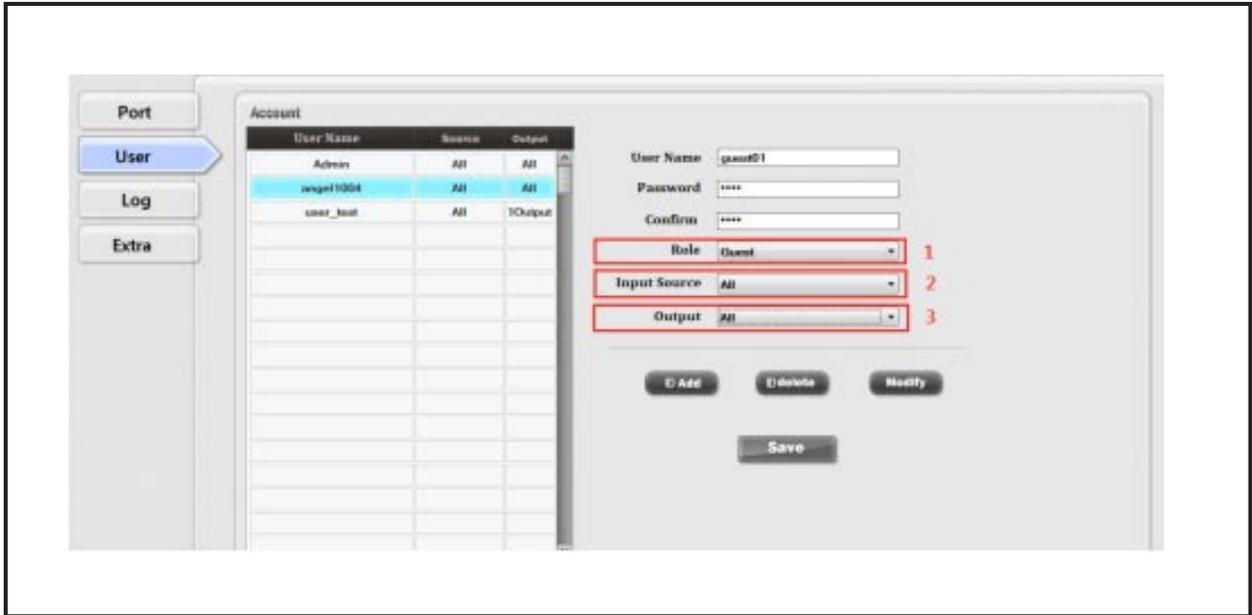
The reason consisting the screen as shown above are as follows

- (1) Connected user authority is "User"
- (2) Sound source selection of connected user authority is set as "Ch1 MIC".
- (3) Output selection of connected user authority is set as "Output 1"  
- Refer to Configuration->Input/Output (output setup). [Page 23]

- Zone connected to Ch number 1 sound source and output 1 can be controlled

### 3. If User Authority is "Guest"

#### 3) Authority Setup



(Setup the user account in MS-6800server->Configuration->ID/PW".)

- (1) User Authority : "Guest"
- (2) Sound source selection : ALL (select entire sound sources)
- (3) Output selection : ALL (select system entire zones)

- Guest authority can only do monitoring.

#### 4) MS-6800 Client Connection



(Connect with "guest01" which has the manager authority.  
IP :insert the IP address of MS-6800 server program.

- (6) Port :insert the port of server program. (Default :4100)
- (7) ID : insert the user name.
- (8) Password : insert the user password (Case sensitivity)
- (9) Click the connection button.

- If connection is success, below screen will pop up.



(All sound sources and zones will be displayed).

Client screen configuration consists differently in accordance with the user authority who connects.

The reason consisting the screen as shown above are as follows

- (4) Connected user authority is "Guest"
  - (5) Sound source selection of connected user authority is set to "All"
  - (6) Output selection of connected user authority is set to "All"
- Entire sound source and all zones cannot be controlled.
  - Guest has only monitoring function.

# interM



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