

# <u>Index</u>

1.	Preparations before starting the operation:3
1.1	Preparation for the Personal Computer:3
1.2	Preparations for the cables
1.3	Connection of the A/V receiver/amplifier and PC4
1.4	Install the D&M Firmware Writer4
2.	Procedure of updating for firmware5
2.1	Notice:5
2.2	Procedure of updating for firmware5
2.3	Check the communication between A/V amplifire and PC6
2.4	Start the firmware update7
2.6	Complete the firmware update7
3.	Confirming the firmware's number after upgraded8
4.	Error massages and countermeasurement
5.	Setting of "Run this program in compatibility mode" for Windows Vista
6.	Setting of "Run this program in compatibility mode" for Windows 714~16

### 1. Preparations before starting the operation:

1.1 Preparation for the Personal Computer:

Minimum hardware and software requirements:

Туре	PC/AT compatible
CPU	Intel Pentium/Celeron300MHz or faster
RAM	256MB or more
Free hard disc space	25MB or more
OS	Recommend OS:
	Windows XP Home Edition / Professional SP1 or more
	* Confirmed languages: English, Japanese and German available.
	Other language is able to work in PC, but we don't confirm it.
	* "Windows Vista" and "Windows 7 (upper of Home Premium)" are
	able to update properly.
	* Window 2000 is impossible to use.
Display resolution	Super VGA (800x600) or more.
Port.	Serial COM port (D-Sub 9pin)
Communication speed	RS-232C:115,200bps

#### 1.2 Preparation for the cables.

(1) Preparation for RS-232 cable

Serial Straight Cable for RS-232C consisting of D-Sub 9P(female) and D-Sub 9P(female) cable. D-Sub 9P(male) and D-Sub 9P(male) Gender Changer.





D-Sub 9P(female) and D-Sub 9P(female) cable

Gender Changer D-Sub 9P(male) and D-Sub 9P(male)

Note: There is the RS-232C(Male and Female) 9P cable like the following picture on the market. Then you don't need to use Gender Changer.





- 1.4 Install the D&M Firmware Writer.
  - 1) Please install "DFW\_0003\_SR5005\_(Rev.1.0.6).exe" to any folder of your PC.
  - 2) Please make shortcut icon on your PC.



#### 2 Procedure of updating for firmware

2.1 Notice

Please keep the following notice for firmware update.

- a) Keep the PC environment refer to 1.1.
- b) Avoid the communication cable from the electrical noise source.

(E.g. telephone cable, AC line, a fluorescent light)

- c) Don't remove cable during update.
- d) Don't turn off the power during update.
- e) Don't run other PC application during update.
- f) Stop the resident program on PC.
- g) Stop the screen saver ability on PC.
- h) Stop the power save ability on PC.
- i) In case of laptop PC, Use the AC adaptor.

#### 2.2 Procedure of updating for firmware

- 2.2.1 Please initialize the unit.
  - Turn on the power of unit while pressing the SURR button and AUTO button simultaneously.
  - When FL Display will be indicated perfectly, please remove the SURR button and AUTO button.

#### 2.2.2 Turn on the AV receiver/amplifier.

Operate the following. Turn on the AV receiver.

- 1) Turn on the power switch while simultaneously pushing the ENTER button and the RETURN button of the front panel.
- 3) Confirm the power indicator is red in the front panel.

ſ

4) 2.2.3	Procedure of updating for firmware by "DFW (D&M Firmware Writer)" <i>CAUTION!:</i> When you use "Windows Vista" or "Windows 7", please set up the "Run this program in compatibility mode" of page 11~16 before updating.
2.2.4	Click the "shortcut icon" on your PC.
2.3 Ch	neck the communication between A/V amplifier and PC.
1) (	Click the [Load] button, and select the "Update File".
2) \$	Select the serial port number of RS-232C in PC.
3) (	Click the [Check Comm.] button.
	Image: D&M Firmware Writer [XXXX] (for XXX-XXXY [Rev.1.X.XX]   Firmware File
	Load   Quit   3)     Model:   Checksum:   Action     Communication   Mode   Check Comm.     Port:   COM1   C ALL device update.   Update
4)	Model:     Checksum:     Check Comm.       Communication     Mode       • Normal update.     Update       • OMI     • ALL device update.       Update     • Indicated.
4)	Image: Construction of the construc

5) If connection is not good, "Communication check NG!" message is indicated.

DFW_XX	XX_XXX-XXXX_(Rev.1.X.X) 🔀
8	Communication check NG!
	ОК

If above is indicated, please confirm the following items.

- a) Please confirm the connection of A/V amplifier and PC properly. (Refer to item1.3)
- b) Please confirm selection of RS-232C in PC correctly. (Refer to item 2.3-2))

#### 2.4 Start the firmware update

Click the [Update] button, then unit will be start updating the firmware.

韇 D&M Firmware Writer [XXXX] (for XXX-XXXX) [Rev.1.X.X	x) 🛛 🛛
Firmware File	Quit
Model: XXX-XXXX Checksum: 5AFF0800	Action Check Comm.
Communication     Mode       Port:     COM1       C     ALL device update.	Update

#### 2.5 Complete the firmware update

2.5.1 When Update utility is completed to update the firmware, "Update completed." Message is indicated.



2.5.2 If you failed update during Main CPU update, then you need to use a specific update procedure.

DFW_XX	XX_XXX-XXXX_(Rev.1.X.X) 🔀
8	Update Failed!
	CCCC OK

2.6 Countermeasure:

- 1) Turn off the AC power of unit.
- Turn on the AC power of unit while pressing the CURSOR LEFT button and [RETURN] button simultaneously. (Power LED lights red.)
- 3) Please update the firmware of unit from item 2.4 by DFW (D&M Firmware Writer).

## 3 Confirming the firmware's number after update:

After completion of the updating operation, the new version number can be confirmed by starting up amplifier according to the following procedure.

With the following operation, A/V receiver/ amplifier can be set to the Flash-ROM Version-Number Confirmation Mode.

Turn the power of A/V receiver/amplifier on, while holding both "**RETURN**" button and "**STATUS**" button on the front panel simultaneously.



Every time the "STATUS" Button is pressed, version numbers of the MAIN, SUB, etc. are indicated on the front panel section in the following order.

# 4 ERROR Message and countermeasure 4.1 Communication ERROR Cause: No communication between A/V receiver/amplifier and PC. Countermeasure: Confirm RS-232C port number and Ethernet communication. DFW\_XXXX\_XXX-XXXX\_(Rev.1.X.X) 🔀 Communication error! ÖΚ 4.2 Difference of MODEL ID Cause: Firmware is not correct. Countermeasure: Please use and select proper firmware. DFW\_XXXX\_XXX-XXXX\_(Rev.1.X.X) Model id is different! Product : Mxxxx Update file : Myyyy Check the update file. ÖΚ 4.3 Message at Recovery mode Cause: The unit is updated at RECOVERY mode. Countermeasure: When you want to update the unit at RECOVERY mode, press the "Yes" button. When you do not update the unit at RECOVERY mode, press the "No" button. DFW\_XXXX\_XXX-XXXX\_(Rev.1.X.X) Is the recovery update executed? Note : The firmware of all devices is updated! Yes <u>N</u>o Tip!: When you choose "Yes" button, unit is updated all firmware of unit.

4.4 Message about between normal firmware and upgraded firmware		
Cause: Inharmonious between normal firmware	e and upgraded firmware.	
Countermeasure:		
When you want to upgrade or downgrade	the unit, press the "Yes" button.	
When you do not upgrade or downgrade the unit, press the "No" button.		
DFW_XXXX_XXX-XXXX_(Rev.1.X.X)	DFW_XXXX_XXX-XXXX_(Rev.1.X.X)	
The firmware type is different in the target product and the firmware file!	The firmware type is different in the target product and the firmware file!	
Target Product : Upgrade version Firmware file : Normal version	Target Product : Normal version Firmware file : Upgrade version	
Is the update continued?	Is the update continued?	
<u>Yes</u> <u>N</u> o	Yes No	
4.5 Confirmation of backdating		
Cause: You would like to backdate the firmware	e of unit.	
Countermeasure:		
When you want to backdate the unit, pres	s the "Yes" button.	
When you do not backdate the unit, press	the "No" button.	
DFW_XXXX_XXX-XXXX_(Rev.1.X.X)		
The firmware version is downgraded!		
Is the update continued?		
F		
4.6. Soluction of "Indote Natification" indicator at h	ackdating	
4.0 Selection of Opdate Notification indicator at a	m 4 5	
Countermeasure: Please turn off the "I Indate N	In F.S.	
When you backdate the firmware of unit	"Update Notification" indicator will be indicated	
Then customers update the firmware of u	nit via DPMS.	
The firmware of unit will be backdated.		
DFW_XXXX_XXX-XXXX_(Rev.1.X.X)		
Note : After completing the update, Set the update notification to OFF by the setup menu!		
(ŎK]		

Γ

5 Set	tting of "Run this program in compatibility mode" for Windows Vista
5.1.1	Click the short cut of "DFW_0003_SR5005_(Rev.1.0.6).exe" by right button of Mouse.
	DFW_0003_SR5 005_(Rev.1.0.6). exe
5.1.2	The property of "DFW_0003_SR5005_(Rev.1.0.6).exe" will be indicated.
	DFW_XXXX_XXX_XXX_(Rev.1.X.X) Properties
	DFW_XXXX_XXX-XXXX_(Rev.1.X.X)
	Type of file: Application (.exe)
	Description: Firmware Writer
	Location: C:\Users\usa014\Desktop
	Size: 220 KB (225,280 bytes) Size on disk: 220 KB (225,280 bytes)
	Created: Today, February 02, 2010, 5:33:10 PM
	Modified: Today, February 02, 2010, 35 minutes ago
	Accessed: Today, February 02, 2010, 5:33:10 PM
	Attributes: Read-only Hidden Advanced
	OK Cancel Apply

5.1.3 Click the tab of "Compatibility", and	click the of "Run this program in compatibility mode for ".
DFW_XXXX_XXX-XXXX_(Rev.1.X.X) P	roperties 🔀
General Compatibility Security Detail	s
If you have problems with this program a an earlier version of Windows, select the matches that earlier version.	nd it worked correctly on e compatibility mode that
Compatibility mode	
Windows XP (Service Pack 2)	node for:
Settings	
Run in 256 colors	
Run in 640 x 480 screen resolutio	n
Disable visual themes	
Disable display scaling on high D	PI settings
- Privilege Level	
Run this program as an administra	tor
	DFW_XXXX_XXX-XXXX_(Rev.1.X.X) Properties
Show settings for all users	General Compatibility Security Details
ОК	If you have problems with this program and it worked correctly on an earlier version of Windows, select the compatibility mode that matches that earlier version.
	Compatibility mode
	Run this program in compatibility mode for:
	Windows XP (Service Pack 2)
	Settings
	Run in 256 colors
	Run in 640 x 480 screen resolution
	Disable desktop composition
	Disable display scaling on high DPI settings
	Privilege Level
	Run this program as an administrator
	Show settings for all users
	OK Cancel Apply

5.1.4 Select the "<u>Windows XP (Service Pack2)</u>", and click the "OK" button.

Don't select "Windows Vista" or "Windows 7" or others!

M DFW_XXXX_XXX-XXXX_(Rev.1.X.X) Properties
General Compatibility Security Details
If you have problems with this program and it worked correctly on an earlier version of Windows, select the compatibility mode that matches that earlier version.
Compatibility mode
Run this program in compatibility mode for:
Windows XP (Service Pack 2)
Windows 95 S Windows 98 / Windows Me Windows NT 4.0 (Service Pack 5) Windows 2000
Windows XP (Service Pack 2) Windows Server 2003 (Service Pack 1)
Disable visual themes
Disable desktop composition
Disable display scaling on high DPI settings
Privilege Level
Run this program as an administrator
Show settings for all users
OK Cancel Apply

5.1.5 Go to item 2.2.4.

6.1.1 Click the short cut of "DFW_0003_SR5005_(Rev.1.0.6).exe" by <u>right button of Mouse</u> .
DFW_0003_SR5 005_(Rev.1.0.6). exe
6.1.2 The property of "DFW_0003_SR5005_(Rev.1.0.6).exe" will be indicated.
DFW_XXXX_XXX_XXX_(Rev.1.X.X) Properties
DFW_XXXX_XXX-XXXX_(Rev.1.X.X)
Type of file: Application (.exe)
Description: Firmware Writer
Location: C:\Users\usa014\Desktop
Size:       220 KB (225,280 bytes)         Size on disk:       220 KB (225,280 bytes)
Created: Today, February 02, 2010, 5:39:30 PM
Modified: Today, February 02, 2010, 41 minutes ago
Accessed: Today, February 02, 2010, 5:39:30 PM
Attributes: Read-only Hidden Advanced
OK Cancel Apply

6.1.3	Click the tab of "Compatibility", and click the of "Run this program in compatibility mode for ".
	DFW_XXXX_XXX-XXXX_(Rev.1.X.X) Properties
	General Compatibility Security Details Previous Versions
	If you have problems with this program and it worked correctly on an earlier version of Windows, select the compatibility mode that matches that earlier version. <u>Help me choose the settings</u> Compatibility mode
	Run this program in compatibility mode for:
	Windows XP (Service Pack 3)
	Settings       Run in 256 colors       Run in 640 x 480 screen resolution       Disable visual themes       Disable desktop composition       Disable display scaling on high DPI settings       Privilege Level       Run this program as an administrator       General     Compatibility       OK       If you have problems with this program and it worked correctly on an earlier version.       Help me choose the settings       Compatibility mode       OK       Function program in compatibility mode for:       Windows XP (Service Pack 3)       Settings       Run in 256 colors       Run in 256 colors
	Bun in 640 x 480 screen resolution   Disable visual themes
	Disable desktop composition
	Bivilogo Level
	Run this program as an administrator
	Change settings for all users
	OK Cancel <u>Apply</u>

6.1.4 Select the "<u>Windows XP (Service Pack2)</u>", and click the "OK" button.

Don't select "Windows Vista" or "Windows 7" or others! DFW\_XXXX\_XXX-XXXX\_(Rev.1.X.X) Properties × General Compatibility Security Details Previous Versions If you have problems with this program and it worked correctly on an earlier version of Windows, select the compatibility mode that matches that earlier version. Help me choose the settings Compatibility mode Run this program in compatibility mode for: Windows XP (Service Pack 3) \* Windows 95 S Windows 98 / Windows Me Windows NT 4.0 (Service Pack 5) Windows 2000 Windows XP (Service Pack 3) Windows Server 2003 (Service Pack 1) Windows Server 2008 (Service Pack 1) Windows Vista Windows Vista (Service Pack 1) Windows Vista (Service Pack 2) Privilege Level Run this program as an administrator 🕞 Change settings for all users OK Cancel Apply

6.1.5 Go to item 2.2.4.