

UPDATE GUIDE

FA-9500 Frame Synchronizer

FA-95RU Remote Control Unit

FA-95D-D/DE-E Dolby Decoder/Encoder Option

FA-95AIO Analog Component I/O Option

5th Edition – Rev. 1

FOR-A COMPANY LIMITED

Edition Revision History

Edit.	Rev.	Date	Description	改訂箇所
1	-	2011/10/11	First edition	
2	-	2012/02/6	Added FA-95D-D and FA-95DE-E options	
3		2012/02/29	Added FA-95AIO option	
4		2012/03/14	Added Logo feature	
4	1	2012/04/06	Amended FPGA update descriptions.	
5		2012/07/03	Added one FA-95LG GUI Troubleshooting item Added "Loading Older Version Data from FA-9500"	8, 9
5	1	2012/07/27	Added FA-9500 software version and FPGA information	

FA-9500/FA-95RU Update Guide Revision History

FA-9500 Operation Manual Revision History

Edit.	Rev.	Date	Description		
Preliminary	-	2010/08/03	Preliminary edition (V0010)		
Preliminary		2010/09/07	Preliminary edition (V0020)		
1		2010/09/08	First edition (V0100)		
1	1	2011/01/20	Added FA-95DACBL option, color correction description. Other text amendments.		
2		2011/03/23	Added 3G-SDI, Second Converter, and Auto Video Optimizer features, and FA-95PS option. Other text amendments.		
3		2011/06/14	Added FA-95RU option. (Issued the separate FA-95RU Operation Manual)		
4		2011/08/19	Added FA-95CO Option Added the login page and Logout button		
4	1	2011/10/18	Revised AVO Scene Cut Detection frame delay, and Forced Field frame delay settings		
5		2011/11/28	Closed captioning CEA608, S334-1, CEA708 compatible		
6		2011/12/16	Added FA-95D-D and FA-95-DE-E options. Enhanced Audio processing feature Added PAL-M support		
7		2012/02/16	Added FA-95AIO option		
7	1	2012/03/06	Deleted NTSC SETUP exceptional condition		
8		2012/03/14	Added Logo feature		
9		2012/07/03	Enhanced FA-95DE-E option. Added AFD support. (S2016/VI/WSS) CONV2 modified to Up/Down/Cross converter.		
9	1	2012/07/27	Added SD-SDI VITS output support		

FA-95RU Operation Manual Revision History

Edit.	Rev.	Date	Description		
1	-	2011/05/20	First Edition (V 1.00) Corresponding with FA-9500 Operation Manual 3 rd or later.		
2		2011/08/19	Added FA-95CO option		
2	1	2011/9/30	Revised AVO Scene Cut Detection frame delay, and Forced Field frame delay settings		
3		2011/12/07	Closed captioning CEA608, S334-1, CEA708 compatible		
4		2011/12/16	Added FA-95D-D and FA-95-DE-E options. Enhanced Audio processing feature Added PAL-M support		
5		2012/02/16	Added FA-95AIO option		
5	1	2012/03/06	Deleted NTSC SETUP exceptional condition		
6		2012/03/14	Added Logo feature		

CONV2 modified to Up/Down/Cross converter.		7		2012/07/03	Enhanced FA-95DE-E option. Added AFD support. (S2016/VI/WSS) CONV2 modified to Up/Down/Cross converter.
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FA-9500/FA-95RU Software Version and Supported Options

FA-9500	FA-95RU	Supported Feature/Option	Note
FPGA1: 1.36 or higher FPGA2: 1.27 or higher FPGA3: 1.01 or higher SOFT: 1.13 or higher	-	FA-95PS FA-953G FA-95SCNV FA-95AVO FA-95DACBL	First edition
FPGA1: 1.40 or higher FPGA2: 1.28 or higher FPGA3: 1.01 or higher SOFT : 2.00 or higher	FPGA: 1.00 SOFT: 1.00	FA-95RU	Supports FA-95RU option.
FPGA1: 1.51 or higher FPGA2: 1.29 or higher FPGA3: 1.01 or higher SOFT: 2.10 or higher	FPGA1: 1.51 or higher FPGA2: 1.29 or higher FPGA3: 1.01 or higher SOFT: 1.10 or higher SOFT: 2.10 or higher		
FPGA1:1.55 or higher FPGA2: 1.30 or higher FPGA3: 1.01 or higher SOFT: 2.22 or higher	FPGA1: 1.00 or higher SOFT: 1.20 or higher	FA-95AVO Scene Cut Detection	Modified frame delay settings for Forced Field function. Corrected a bug on AUTO LOAD
FPGA1:1.58 or higher FPGA2: 2.00 or higher FPGA3:1.01 or higher SOFT: 2.30 or higher	FPGA1: 1.00 or higher SOFT: 1.30 or higher	Closed captioning	CEA608, S334-1, CEA708 compatible
FPGA1: 2.08 or higher FPGA2: 3.00 or higher FPGA3: 1.01 or higher SOFT: 3.00 or higher	FPGA1: 1.00 or higher SOFT: 2.00 or higher	FA-95D-D FA-95DE-E PAL-M	
FPGA1: 2.28 or higher FPGA2: 4.00 or higher FPGA3: 1.01 or higher SOFT: 4.00 or higher	FPGA1: 1.00 or higher SOFT: 3.00 or higher	FA-95AIO	
FPGA1: 2.30 or higher FPGA2: 4.10 or higher FPGA3: 1.02 or higher SOFT: 5.00 or higher	FPGA1: 1.00 or higher SOFT: 4.00 or higher	Logo Generator	
FPGA1:3.14 or higher FPGA2: 5.02 or higher FPGA3: 1.02 or higher SOFT: 6.00 or higher	FPGA1:1.00 or higher SOFT: 5.00 or higher	Added performance features	S2016/VI/WSS AFD support, CONV2 Up/Down/Cross converter support, and FA-95DE-E option enhanced encoding function. FA-95RU ver 5.00 or higher-compatible
FPGA1:3.15 or higher FPGA2: 5.10 or higher FPGA3: 1.02 or higher SOFT: 6.01 or higher	FPGA1:1.00 or higher SOFT: 5.00 or higher	Added performance features	SD-SDI VITS output support

IMPORTANT

Event data created by an earlier version of software than 6.00 and files saved by the backup parameter function of the former version FA-9500 may not recall images as saved before.

Make sure to reset settings by referring to section 8 "Loading Older Version Data from FA-9500" when loading events or files created by earlier version software.

However, Event data files created on software earlier than version 6.00 and that created on versions 6.00 and later cannot be shared due to a file format difference.

The resets are required for each piece of event data.

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1. Equipment and System Requirements

Required Materials	Performance			
ByteBlaster II or USB Blaster	3. FA-95RU PM Data Update			
FA9500Updater.exe (Version 2.0.0)	4. FA-9500 PM Data Update			
Quartus II Programmer and PC with web browser such as Internet Explorer.	2-2) Back up setting and event data 3. FA-95RU PM Data Update			
LAN cable (straight through or crossover)	4. FA-9500 PM Data Update			
Hub (for straight through LAN cable connection)	6. Software Option Installation			
3 x 6 Phillips screwdriver	3-1. FPGA Update 4-1. FPGA3 Update			

System requirements for Software updates

OS	Windows® XP operating system SP3 Professional (32bit) Windows® 7 operating system SP1 Professional (32bit) Windows® 7 operating system SP1 Professional (64bit)
Web browser	Windows® Internet Explorer7/8, Firefox® 12.0
.NET ^{*1}	.NET 3.5 or higher required (.NET 3.5 included in Windows® 7)
CPU	Pentium [®] 4 processor 2.8GHz or faster (Windows [®] XP) Intel [®] Core [™] 2 Duo processor 2GHz or higher (Windows [®] 7)
Memory	Pentium® 4 processor 512 MB or more Intel® Core [™] 2 Duo processor 2GB or more
Display	Resolution of 1280 x 1024 pixels or better Must be capable of full color (24-bit) display
Network port	Ethernet, at least one port 100BASE-TX/1000BASE-T
Network cable	Enhanced category 5 or better

*1 .NET can be downloaded from the Microsoft website.

System requirements for Software installation

ŌS	Windows® XP operating system SP2 or later Professional (32bit)	Windows® 7 operating system Professional (32bit/64bit)			
Web browser	Windows® Internet Explorer 7/8, Firefox® 12.0	Windows® Internet Explorer 8, Firefox® 12.0	Windows® Internet Explorer 8, Firefox® 12.0		
CPU Pentium® 4 processor 2.8GHz or faster		Intel® Core [™] 2 Duo processor 2GHZ or faster	Intel® Core [™] 2 Duo processor 2GHZ or faster		
Memory	512MB or more 2GB or more 2GB or more				
Display	Resolution of 1280 x Must be capable of fu	1024 pixels or better Il color (24-bit) display			
Network port Ethernet, at least one 100BASE-TX/1000BA		port \SE-T			
Network cable	Enhanced category 5 or better				

IMPORTANT

When using Internet Explorer 8, Windows Updates after 6/13/2011 must be downloaded for proper performance. It is highly recommended to keep your computer up-to-date with the latest Windows Updates.

Some versions of Internet Explorer may not save data having long file names properly. In such case, save data in Internet Explorer using a short file name, then rename the file in Windows Explorer. A data file can also be saved under its default file name in any version of Internet Explorer.

2. Workflow

- 1) Note the version of installed software before updating. If you are going to perform updates for several units, use the check list provided in the appendix.
- 2) Back up the setting and event data: Back up the setting and event data before updating software. See the respective operation manuals for details on the backup procedure. (If you receive approval for initialization after the update from the user, skip this step and go to step 4).)
 - Reference Notation in Operation Manuals
 (Only section numbers are given for reference, since pages may vary depending on edition or
 the revision numbers of manuals.)
 - FA-9500: How to open associated web browser pages \rightarrow 9-6. Utility Settings How to save setting data \rightarrow 9-6-2.Backup Parameter How to save event data \rightarrow 9-6-4.Backup Event Data
 - FA-95RU: How to open associated web browser pages \rightarrow 11-6.Backup & Restore How to save setting data \rightarrow 11-6-1. Configuration Data Backup How to save event data \rightarrow 11-6-2. Event Data Backup

Required equipment: PC, LAN cable (one crossover LAN cable, or 2 straight through LAN cables), and hub (for straight-through LAN cable use)

(Note: When data cannot be saved, check if your PC meets the system requirements for software updates shown in Section 1. "Equipment and System Requirements".)

3) Install hardware option/s

When installing any additional hardware options on-site, follow the instructions given in the following sections.

FA-95D-D → 5-1-1 FA-95D-D Installation FA-95DE-E → 5-1-2 FA-95DE-E Installation FA-95AIO → 5-2-1 FA-95AIO Installation

4) Update software

Update the PM data of the FA-9500 and FA-95RU as instructed in the following sections.

 $\label{eq:FA-95RU} \begin{array}{l} \rightarrow \textbf{3. FA-95RU PM Data Update} \ (FPGA Update: 3-1, Software Update: 3-2) \\ FA-9500 \rightarrow \textbf{4. FA-9500 PM Data Update} \ (FPGA3 Update: 4-1, FPGA1, 2 Update: 4-2, Software Update: 4-3) \\ FA-95D-D/FA-95DE-E \rightarrow \textbf{5. Hardware Option PM Data Update} \ (FPGA Update: 5-1-3, FPGA2 Update: 5-1-4) \\ FA-95AIO \rightarrow \textbf{5. Hardware Option PM Data Update} \ (FPGA Update: 5-2-2, FPGA2 Update: 5-2-3) \end{array}$

5) Install software option/s

When installing an additional software option on-site, follow the instructions given in Section **6.** "Software Option Installation".

If no additional software installation is required, move on to step 6).

6) Initialize the unit

Turn the power on while pressing down the UNITY buttons under F2 and F4 to initialize the unit. (Be aware that initializing the unit will reset all settings including network settings to factory default.)

7) Reinstall backup data

Reinstall the backup data saved in step 2) to the FA-9500 and FA-95RU.

Refer to the sections in respective operation manuals provided under "Reference in Operation Manuals" in step 2) for details on how to reinstall backups.

(If the user has approved the unit for initialization after update, the procedure is complete in step 5).

8) Verify the result

After the update, verify software versions and installed software options as described below. (If you are going to perform updates for several units, use the check list provided in the appendix.)

- To verify FA-9500 software versions and installed options
 - (1) Press the VIDEO/AUDIO button on the front panel, so that the button lights orange.
 (2) Press the STATUS/OTHER button on the front panel.

 - (3) Press the single-down-arrow button 4 times to display version information. Verify the updated version is displayed.
 - (4) Press the single-down-arrow button 4 or 5 more times to display the state of software options. Check that all installed options are indicated as INSTALL, and absent options are indicated as NONE.
- To verify FA-95RU software versions
 - (1) Hold down the MU SELECT button on the front panel at least 3 seconds to turn the button orange light on.
 - (2) Press the single-down-arrow button once to display the software versions. Verify the updated versions are displayed.
- To verify FA-95D-D/FA-95DE-E versions
 - (1) Press the VIDEO/AUDIO button on the front panel, so that the button lights orange. (2) Press the STATUS/OTHER button on the front panel.

 - (3) Press the single-down-arrow button 5 times (if it is installed in Option slot A. 6 times if it is in slot B) to display version information. Verify NAME under OPTION A VER is displayed as "FA-95D-D" and that the indicated version is correct.
- To verify FA-95AIO versions
 - (1) Press the VIDEO/AUDIO button on the front panel, so that the button lights orange.
 - (2) Press the STATUS/OTHER button on the front panel.
 - (3) Press the single-down-arrow button 5 times (if installed in Option slot A, 6 times if installed in slot B) to display version information. Verify hat NAME under OPTION A VER is displayed as "FA-95AIO" and that the indicated version is correct.

Note: If the connection between FA-9500 and FA-95RU cannot be established after the update, connect the FA-9500 to a PC to check if TCP Port Number under NETWORK SETTING is set to 50010. If it is set to a different value, reset to 50010 and click Submit. Then restart the unit and check if the connection can be established. Also check if CONTROL is set to REMOTE under CONTROL SETTING which is menu 194 in the FA-9500.

- To open the CONTROL SETTING menu
 - (1) Press the VIDEO/AUDIO button on the front panel, then the button will light orange.
 - (2) Press the STATUS/OTHER button on the front panel to open the CONTROL SETTING menu.

3. FA-95RU PM Data Update

♦ Equipment

- ByteBlaster II or USB Blaster download cable
- A PC with Quartus II Programmer (11.1 sp2) installed
- FA9500Updater.exe (Version 2.0.0) [SOFT PM Data Update tool]
- LAN cable(s) (1 crossover cable, or 2 straight through cables)
- Hub (needed when using straight-through LAN cables)
- 3 x 6 Phillips screwdriver (needed to update FPGA)

3-1. FPGA Update (PM9074)(Required Time: approx. 30 sec.)

- * The PM data update procedure was tested using the Operation Systems. Windows XP / Windows Vista (32bit OS) / Windows 7 (32bit / 64bit OS)
- 1. Open the top panel of the FA-95RU.
- 2. Connect the ByteBlaster II cable 25-pin male plug to the parallel port of a PC (or USB Blaster cable to a USB port).
- 3. Connect the ByteBlaster II 10-pin female plug to CN1(Card address: X.0, 1.5) (Fig. 1)



Align red cable (or PIN 1 sign) to pin 1



- 4. Start Quartus II Programmer (11.1 sp2).
- Check that ByteBlaster II (or USB Blaster) is selected (Fig. 2. (2))_o If ByteBlaster II that is connected to PC is not selected, or "No Hardware" is displayed, click [Hardware Setup](Fig. 2. (2)) and select the connected ByteBlaster II.
 * USB Blasters will not appear in the [Hardware Setup] list, unless they have been connected beforehand.
- 6. Select [JTAG] under [Mode] (Fig. 2. (3)).
- 7. Turn the power of the FA-95RU on.
- 8. Go to [File] > [Open], then open FPGA.cdf. (Fig. 2. (4)).

* Keep FPGA.cdf and PM9074-x.pof files in the same folder.

- 9. Click Quartus II Programmer [Start] to update (Fig. 2. (5)).
- 10.If [Progress] indicates 100% and no error sign (in red) appears on the status bar at the bottom of the window, the update is complete.
- 11.Turn the power of the FA-95RU off, and disconnect the cable from CN1.
- 12.Close the top panel of the FA-95RU.

13.Hold down the MU SELECT button for at least 3 seconds and the button will light orange. Press the single-down-arrow button once, and verify the latest FPGA version is being displayed.



Fig. 2. CPLD Setting window

3-2. Software Update (PM9073)(Required Time: 1 min.)

- 1. Connect the FA-95RU and PC using a LAN cable.
- 2. Start the FA9500Updater.exe file (Fig. 3).



Fig. 3. FA9500Updater.exe icon

- 3. Enter the IP address (default IP address: 192.168.0.100)(Fig. 4.(1)).
- 4. Check FA-95RU in the Target section (Fig. 4. (2)). To automatically restart the FA-95RU after update, check Restart after update (Fig. 4.(3)).
- 5. Select the latest DSP data under Update File (Fig. 4.(4)).
- * Select a file with a filename that starts with "FA-95RU_".
- 6. Click Update to start updating (Fig. 4.(5)).
- 7. A message appears when the update is complete. Two messages appear if Restart after update is checked when both update and restart are complete.
- 8. Hold down the <u>MU SELECT</u> button for at least 3 seconds and the button will light orange. Press the single-down-arrow button once, then check that the latest software version is displayed.

	🚨 FA-9500 Program Updater 🔚 🗖 🔀
	IP Address 192 . 168 . 0 . 100 (1) Enter the IP address
	Target O FA-9500
	O SOFT IFPGA 1/2 Do not restart if version of FPGA3 is 1.00 or lower.
	(2) Check FA-95RU
	Option Slot A
	Option
	FA-95AIO
	Bestart after undate
(3) Check to	Update Eile (4) Select the latest software data
the FA-95RU after update	(5) Click Update
	Version : 2.0.0
	Ready Sent data

Fig. 4 FA9500ProgramUpdater window for FA-95RU software settings

The update is complete.

4. FA-9500 PM Data Update

Equipment

- ByteBlaster II or USB Blaster download cable
- A PC with Quartus II Programmer (11.1 sp2) installed
- FA9500Updater.exe (Version 2.0.0) [Software, and FPGA PM Data Update tool]
- LAN cable(s) (1 crossover cable, or 2 straight-through cables)
- Hub (needed when using straight through LAN cables)
- 3 x 6 Phillips screwdriver (needed to update FPGA3)

4-1. FPGA3 Update (PM8949) Required Time: 30 sec.)

- * The PM data update procedure was tested using the Operation Systems. Windows XP / Windows Vista (32bit OS) / Windows 7 (32bit / 64bit OS)
- 1. Open the top panel of the FA-9500.
- 2. Connect the ByteBlaster II cable 25-pin male plug to the parallel port of a PC (or USB Blaster cable to a USB port).
- 3. Connect the ByteBlaster II 10-pin female plug to CN8(Card address: R.1, 1.5) (Fig. 5).



Fig. 5 ByteBlaster II (or USB Blaster) connection

- 4. Start Quartus II Programmer(11.1 sp2).
- 5. Check that ByteBlaster II (or USB Blaster) is selected (Fig. 6. (1)). If ByteBlaster II that is connected to PC is not selected, or "No Hardware" is displayed, click [Hardware Setup](Fig. 6. (2)) and select the connected ByteBlaster II (or USB Blaster). * USB Blasters will not appear in the [Hardware Setup] list, unless they have been connected beforehand.
- 6. Select [JTAG] under [Mode] (Fig. 6. (3)).
- 7. Turn the power of the FA-9500 on.
- 8. Go to [File] > [Open], then open FPGA3.cdf. (Fig. 2. (4)).
- * Keep FPGA3.cdf and PM8949-x.pof files in the same folder...
- 9. Click Quartus II Programmer [Start] to update (Fig. 6. (5)).
- 10.If [Progress] indicates 100% and no error sign (in red) appears on the status bar at the bottom of the window, the update is complete.
- 11. Turn the power of the FA-9500 off, and disconnect the cable from CN8.
- 12.Close the top panel of the FA-9500.

13.Press the <u>VIDEO/AUDIO</u> button, then the button lights orange. Press the <u>STATUS/OTHER</u> button, and press the single-down-arrow button 4 times, then verify the latest FPGA3 version is being displayed.

(4) Go to	o [File] > [Ope	n], then sele	ct FPGA	3.cdf.							
	(2) Hardwa	re Setup									
		(1) Selected	hardware	9	(3) [JT	AG]]		
🕸 Juartus II 32-	bit Programmer – [F	PG/3.cdf]				/			_		
Eile Edit View F	Processing <u>T</u> ools <u>W</u> indo	ow Help 🗣]
Hardware Setup.	USB-Blaster [USB-0]	reaming (for MOY II and I	10X V devices)	Mode:	JTAG 📕		~	Progress:			
	File	Device	Checksum	Usercode	Program/	Verify	Blank-	Examine	Security	Erase	ISP
Start Stop	<none></none>	EP2AGX125	00000000	<none></none>	Configure		Check		Bit		
Auto Detect	PM8949-4.pof	EP2AGX45 EPM2210F256	0096D5DB	<none></none>		~					
X Delete											
Add File	(5) Start										
Change File	<			IIII							>
Add Device											-
the Up				ASSIDA							
Down											
	EP2AG	x125 EP2AG	5555 ⁰ 5X45	EPM2210F256							
	↓ TDO										
X Type Messag	e										
											2
System Proce	essing / Extra Info / Ir	nfo / Warning / Critic	al Warning /\ Er	ror /\ Suppresse	d / Flag /						Locate
×											
•											
ge Ma		×0; 0,+								Show All	Changes
										SNOW All	unanges j
-											

Fig. 6 CPLD Setting window

4-2. FPGA 1/2 Update (PM8950)(Required Time: 3 min.)

- 1. Connect the FA-9500 and PC using a LAN cable.
- 2. Start FA9500Updater.exe.



Fig. 7 FA9500Update.exe icon

- 3. Enter the IP address (default IP address: 192.168.0.10)(Fig. 8.(1)).
- 4. Check FA-9500 in the Target section (Fig. 8. (2)).
- 5. Check **FPGA1/2** in the Target section (Fig. 8. (3)). To automatically restart the FA-9500 after update, check **Restart after update** (Fig. 8. (4)).
- 6. Select the latest FPGA data under **Update File** (Fig. 8. (5)).
 - * Select a file with a filename that starts with "FA-9500_".
 - * Both FPGA 1 and 2 will be updated by this update.
- 7. Click **Update** to start updating (Fig. 8. (6)).
- 8. A message appears when the update is complete. Two messages appear if Restart after update is checked when both update and restart are complete.
- 9. Press the VIDEO/AUDIO button, then the button lights orange. Press the STATUS/OTHER button, and press the single-down-arrow button 4 times, then verify the latest FPGA1/2 versions are being displayed.

	🚨 FA-9500 Program Updater 🔳 🗖 🔀	
	IP Address 192 . 168 . 0 . 10	(1) Enter the IP address
	Image:	
	O SOFT OF PGA 1/2 Do not restart if version of FPGA3 is 1.00 or lower.	3) Check FPGA1/2
	O FA-95RU	
	Option Slot A Option Slot B	
automatically restart	Option	
update	O FPGA	
	Restart after update.	
	Update <u>File</u>	(5) Select the latest
(6) Click Update		
	Version : 2.0.0	
	Ready Sent data:	

Fig. 8 FA9500ProgramUpdater window for FPGA update

4-3. Software Update (PM8951)(Required Time: 3 min.)

- 1. Connect the FA-9500 and PC using a LAN cable.
- 2. Start FA9500Updater.exe (Fig. 7).
- 3. Enter the IP address (default IP address: 192.168.0.10)(Fig. 9.(1)).
- 4. Check **FA-9500** in the Target section(Fig. 9.(2)).
- 5. Check **SOFT** in the Target section (Fig. 9.(3)). To automatically restart the FA-9500 after update, check Restart after update (Fig. 9.(4)).
- Select the latest Software data under Update File (Fig. 9. (5)).
 * Select a file with a filename that starts with "FA-9500_".
- 7. Click Update to start updating (Fig. 9.(6)).
- 8. A message appears when the update is complete. Two messages appear if Restart after update is <u>checked when</u> both update and restart are complete.
- Press the VIDEO/AUDIO button, then the button lights orange. Press the STATUS/OTHER button, and press the single-down-arrow button 4 times, then verify the latest software version is being displayed.



Fig. 9 FA9500ProgramUpdater window for Software update

5. Hardware Option Installation / PM Data Update

IMPORTANT

The power of the unit should be turned off when installing hardware options. This update guide describes a hardware installation into Option Slot A. Installation into Option Slot B can be performed in the same manner.

5-1. FA-95D-D / FA-95DE-E

5-1-1. FA-95D-D Installation

- 1. Remove the top panel from the FA-9500. (Remove the 3 screws on the top panel, and 2 screws each from both side panels. Remove rack ears if attached.)
- 2. Remove the blank panel attached to the slot into which you are going to install the option card. (Fig. 10.)



Fig. 10 Blank panel removal

* When removing screws securing the blank panel, hold the blank panel so that it does not fall inside the casing. (Fig. 11) **Turn the power of the unit off** before doing this.



Fig. 11 Blank panel disengagement

3. Replace the 3 standoffs securing the main card with the circuit board standoffs supplied with the FA-95D-D/DE-E. (Fig. 12 (1))

Replace 1 standoff securing the main card with the supplied screw (double-SEMS screw). (Fig. 12 (2))



Fig. 12 Main card standoff replacement

- *1 Be sure to replace with the supplied double-SEMS screw to protect the Dolby option card from being damaged.
- 4. Nest connectors on the option card into the slot, align screw holes, then lightly secure the card with the supplied double-SEMS screws (Fig. 13(1)). Verify that SW2 DIP switch #1 is set to ON (Fig 13 (2)). Secure the option card to the rear panel using the binding screws removed in step 2 (Fig. 14). Tighten all screws.

* Set SW2 switch #1 to ON if only FA-95D-D is installed. Set SW2 switch #1 and #2 to ON if both FA-95D-D and FA-95DE-E options are installed.



Fig. 13 Dolby Option installation



Fig. 14 Attachment to the rear panel

Turn the power of the unit ON. Press the VIDEO/AUDIO button to light the button LED orange. Press the STATUS/OTHER button, press the single-down-arrow button 5 times (if the Dolby option card is installed into Option slot A. Press 6 times if it is installed into Option slot B.), then check if OPTION A VER NAME is indicated as FA-95D-D.
 * Indication will be FA-95DE-E if both the FA-95D-D and FA-95DE-E option cards are installed.

5-1-2. FA-95DE-E Installation

 Remove the top panel from the FA-9500. (Remove the 3 screws on the top panel, and 2 screws each from both side panels. Remove rack ears if attached.) (Installing the FA-95DE-E) Tilt the FA-95DE-E option card 45 degrees and insert into the slot (CN8: SIMM connector) (Fig 15 (1)) on the FA-95DE-D option card. Slowly push the empty space on the other side of the FA-95DE-E card down until it becomes even, and locked by the locks (Fig. 15 (2)) on both sides (of the slot).



Fig. 15 FA-95DE-E installation slot

2. Secure the FA-95DE-E onto the FA-95D-D card using the supplied double-SEMS screws. (Fig. 16 (1)) Also, set SW2 DIP switch #1 and #2 to ON. (Fig. 16 (2))



Fig. 16 FA-95DE-E card fixing

3. Turn the power of the unit ON. Press the VIDEO/AUDIO button to light the button LED orange. Press the STATUS/OTHER button, press the single-down-arrow button 5 times (if the FA-95DE-E is installed into Option Slot A. If installed in Slot B, press 6 times), then verify OPTION A VER NAME is indicated as FA-95DE-E.

5-1-3. FA-95D-D/DE-E FPGA1 Update (PM9118)(Required time: 30 sec.)

* The PM data update procedure was tested using the Operation Systems. Windows XP / Windows Vista (32bit OS) / Windows 7 (32bit / 64bit OS)

- 1. Open the top panel of the FA-9500.
- 2. Connect the ByteBlaster II cable 25-pin male plug to the parallel port of a PC (or USB Blaster cable to a USB port).
- 3. Connect the ByteBlaster II 10-pin female plug to CN3 (Card address: Q.1, 5.0) (Fig. 17).



Align red cable (or PIN 1 sign)

Fig. 17 ByteBlaster II (or USB Blaster) connection

- 4. Start Quartus II Programmer (11.1 sp2).
- 5. Check that ByteBlaster II (or USB Blaster) is selected (Fig. 18. (1)).

If ByteBlaster II that is connected to PC is not selected, or "No Hardware" is displayed, click [Hardware Setup](Fig. 18. (2)) and select the connected ByteBlaster II (or USB Blaster).

* USB Blasters will not appear in the [Hardware Setup] list, unless they have been connected beforehand.

- 6. Select [JTAG] under [Mode] (Fig. 18. (3)).
- 7. Turn the power of the FA-9500 on.
- 8. Go to [File] > [Open], then open FPGA1.cdf. (Fig. 18. (4)).
- * Keep the FPGA1.cdf and PM9118-x.pof files in the same folder.
- 9. Click Quartus II Programmer [Start] to update (Fig. 18. (5)).
- 10. If [Progress] indicates 100% and no error sign (in red) appears on the status bar at the bottom of the window, the update is complete.
- 11. Turn the power of the FA-9500 off, and disconnect the cable from CN3.
- 12. Close the top panel of the FA-9500.
- 13. Press the VIDEO/AUDIO button, then the button lights orange. Press the STATUS/OTHER button, and press the single-down-arrow button 5 times (if the card is installed into Option Slot A. If it is in Slot B, press 6 times), then verify the updated OPTION A VER FPGA 1 version is being displayed.



5-1-4. FA-95D-D/DE-E FPGA2 Update (PM9119)(Required Time: 3 min.)

- 1. Connect the FA-9500 and PC using a LAN cable.
- 2. Start FA9500Updater.exe.
- 3. Enter the IP address (default IP address: 192.168.0.10)(Fig. 19.(1)).
- 4. Check Option Slot A or B in the Target section. (Fig. 19 (2)) * Check the slot where the option card is installed.
- 5. Select **FA-95D-D/DE-E** under Option, then check **FPGA**. (Fig. 19 (3)) To automatically restart the FA-9500 after update, check **Restart after update**. (Fig. 19 (4))
- Select the latest FPGA data under Update File (Fig. 19 (5)).
 * Be sure to select a file that begins its filename with 'FA95DD_'.
- Click **Lindate** to start undating (Fig. 10 (6))
- 7. Click **Update** to start updating (Fig. 19 (6)).
- 8. A message appears when the update is complete. Two messages appear if Restart after update is checked when both update and restart are complete.
- 9. Press the VIDEO/AUDIO button, then the button lights orange. Press the STATUS/OTHER button, press the single-down-arrow button 5 times (if the card is installed into Option Slot A. 6 times if it is in Slot B), then verify the updated FPGA2 version is being displayed.

	🚨 FA-9500 Program Updater 📰 🗖 🔀
	IP Address 192 . 168 . 0 . 10 (1) Enter IP address.
	O SOFT O FPGA 1/2 Do not restart if version of FPGA3 is 1.00 or lower.
	FA-95RU Option Slot A (2) Check Option Slot Option Slot B
2	Option FA-95D-D/DE-E (3) Select FA-95D-D (be-e, and check FPGA
(4) Check to restart the FA-9500 automatically after update.	Pestart after update. Update File (5) Select the latest FPGA data.
	Version : 2.0.0
	Ready Sent data:

Fig. 19 FA9500ProgramUpdater window for FA-95D-D/DE-E software settings

5-2-1. FA-95AIO Installation

- 1. Remove the top panel from the FA-9500. (Remove the 3 screws on the top panel, and 2 screws each from both side panels. Remove rack ears if attached.)
- 2. Remove the blank panel attached to the slot into which you are going to install the option card. (Fig. 20.)



Fig. 20 Blank panel removal

* When removing screws securing the blank panel, hold the blank panel so that it does not fall inside the casing. (Fig. 21) **Turn the power of the unit off** before doing this.



Fig. 21 Blank panel disengagement

3. Attach the supplied deflector plate (Fig. 22: with adhesive tape). (Figs.23 and 24)



Fig. 22 Deflector plate



Fig. 23 Chassis interior



Fig. 24 Attached deflector plate



4. Replace the 4 standoffs on the main card with the taller standoffs (9mm) supplied with the FA-95AIO option card. (Fig. 25)

Fig. 25 Standoff replacement

5. Attach 4 heat conductive sheets (Fig. 27) to the supplied shield (Fig. 26) as shown in Figs 28 and 29.



Fig. 26 Shield



Fig. 27 Heat conductive sheets (4)







Fig. 29 Shield with heat conductive sheets

6. Place the shield with the attached heat conductive sheet side up, and secure with the supplied shorter standoffs (4 mm) as shown in Fig. 30.



Fig. 30 Shield attachment

7. Nest the connector on the option card into the slot, align the screw holes, then lightly secure the card with the supplied screws (Fig. 31 (1)). Secure the option card to the rear panel using the binding screws removed in step 2 (Fig. 32). Tighten all screws (Fig. 31 (1)).



Fig. 31 FA-95AIO card installation



Fig. 32 Attachment to rear panel

9. Turn the power of the unit ON. Press the VIDEO/AUDIO button to light the button LED orange. Press the <u>STATUS/OTHER</u> button, press the single-down-arrow button 5 times (if the FA-95AIO is installed into Option Slot A. If installed in Slot B, press 6 times), then verify OPTION A VER NAME is indicated as FA-95AIO.

- * The PM data update procedure was tested using the Operation Systems. Windows XP / Windows Vista (32bit OS) / Windows 7 (32bit / 64bit OS)
- 1. Open the top panel of the FA-9500.
- 2. Connect the ByteBlaster II cable 25-pin male plug to the parallel port of a PC (or USB Blaster cable to a USB port).
- 3. Connect the ByteBlaster II 10-pin female plug to CN5 (Card address: C.4, 4.8) (Fig. 33).



Align red cable (or PIN 1 sign)

Fig. 33 ByteBlaster II (or USB Blaster) connection

- 4. Start Quartus II Programmer (11.1 sp2).
- 5. Check that ByteBlaster II (or USB Blaster) is selected (Fig. 34. (1)).

If ByteBlaster II that is connected to PC is not selected, or "No Hardware" is displayed, click [Hardware Setup](Fig. 34. (2)) and select the connected ByteBlaster II (or USB Blaster).

* USB Blasters will not appear in the [Hardware Setup] list, unless they have been connected beforehand.

- 6. Select [JTAG] under [Mode] (Fig. 34. (3)).
- 7. Turn the power of the FA-9500 on.
- 8. Go to [File] > [Open], then open FPGA1.cdf. (Fig. 34. (4)).

* Keep the FPGA1.cdf and PM9132-x.pof files in the same folder.

- 9. Click Quartus II Programmer [Start] to update (Fig. 34. (5)).
- 10. If [Progress] indicates 100% and no error sign (in red) appears on the status bar at the bottom of the window, the update is complete.
- 11. Turn the power of the FA-9500 off, and disconnect the cable from CN5.
- 12. Close the top panel of the FA-9500.
- 13. Press the VIDEO/AUDIO button, then the button lights orange. Press the STATUS/OTHER button, and press the single-down-arrow button 5 times (if the card is installed into Option Slot A. If it is in Slot B, press 6 times), then verify the updated OPTION A VER FPGA 1 version is being displayed.



Fig. 34 CPLD Setting window

5-2-3. FA-95AIO FPGA2 Update (PM9131)(Required Time: 3 min.)

- 1. Connect the FA-9500 and PC using a LAN cable.
- 2. Start FA9500Updater.exe.
- 3. Enter the IP address (default IP address: 192.168.0.10)(Fig. 35.(1)).
- 4. Check Option Slot A or B in the Target section. (Fig. 35 (2)) * Check the slot where the option card is installed.
- 5. Select **FA-95AIO** under Option, then check **FPGA**. (Fig. 35 (3)) To automatically restart the FA-9500 after update, check **Restart after update**. (Fig. 35 (4))
- 6. Select the latest FPGA data under **Update File** (Fig. 35 (5)).
- * Be sure to select a file that begins its filename with 'FA95AIO_'.
- 7. Click Update to start updating (Fig. 35 (6)).
- 8. A message appears when the update is complete. Two messages appear if Restart after update is checked when both update and restart are complete.
- 9. Press the VIDEO/AUDIO button, then the button lights orange. Press the STATUS/OTHER button, press the single-down-arrow button 5 times (if the card is installed into Option Slot A. 6 times if it is in Slot B), then verify the updated FPGA2 version is being displayed.

	🚨 FA-9500 Program Updater 🔳 🗖 🔀
	IP Address 192 168 0 10 (1) Enter IP address.
	O FA-9500
	SOFT O F <u>P</u> GA 1/2 Do not restart if version of FPGA3 is 1.00 or lower.
	O FA-95RU
	Option Slot B
	FA-95AIO (3) Select FA-95D-D OFPGA /DE-E, and check FPGA
	Restart after update.
(4) Check to restart the FA-9500 automatically after update.	Update Eile C¥FA95AIO_PM9131-0.pof FPGA data.
	Version : 2.0.0
	Ready Sent data:

Fig. 35 FA9500ProgramUpdater window for FA-95AIO software settings

6. Software Option Installation

• Equipment

- A PC with web browser, such as Internet Explorer (Firefox is recommended), installed
- LAN cable(s) (1 crossover cable, or 2 straight through cables)
- Hub (needed when using straight-through LAN cables)

6-1. Prior to Starting

Software options can be installed on-site. However, basically, we install software options at the factory to units sent back from users.

When installing on-site, send the following information for each serial number of the unit to the factory to receive an installation license code.

Required information for issuing license codes

(1) Serial number of FA-9500

(2) If there are software options already installed.

(3) The name of the software option to be installed

* Currently available software options are as shown in the table in Section 6-2, "Available Software Options".

6-2. Available Software Options

Software Option	Feature	Note
FA-95AVO	Auto Video Optimizer	
FA-95SCNV	Second Converter	Standard
FA-95-3G	3G-SDI Support	(Optional in Japan)
FA-95LG	Logo Generator	
FA-95CO	Change Over	

6-3. Installing Software Options

- 1. Connect the FA-9500 and PC using a LAN cable.
- 2. Start Internet Explorer (Fig. 36).



Fig. 36 Internet Explorer icon

3. Type http://<u>192.168.0.10</u>/system/option.cgi in the address bar. The confirmation dialog as Fig. 37 appears. Enter your user name and password.

* In the underlined part of the above address, enter the IP address the user has set. (Default IP address is: <u>192.168.0.10)</u>

User Pass	Name: fa9500 (Enter word: foranet	admin a space between fa9500 and admin) work		
	Connect to 192.1	68.0.10		
	FA-9500 Admin area			
	User name:	🔮 fa9500 admin 🔍		
	Password:	••••••		

Fig. 37 Authentication dialog box

🗹 Remember my password

ОK

4. A web page similar to Fig. 38 appears. Check the options you are going to install (Fig. 38(i)).

Cancel

5. Enter the issued installation lisence code for the unit (Fig. 38(ii)).

6. Click **Submit** (Fig. 38 (iii)). If the installation is successfully complete, a message as shown in Fig. 39 appears. Click **OK**.

Option Install Setting - Microsoft Internet Explorer
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools <u>H</u> elp
🚱 Back 🔹 🕥 🕤 📓 🚮 🔎 Search 👷 Favorites
Address ahttp://192.168.0.10/system/option.cgi
 ✓ FA-95SCNV ✓ FA-95-3G ✓ FA-95AVO ☐ FA-95CO ✓ FA-95LG (FPGA3's version is 1.02 or later) ☐ FA-95FRC ☐ FA-95MFT
Register Code:

Fig.38 Software Option Installation window



Fig. 39 The installation completion message box

- 7. Restart the FA-9500, and press the VIDEO/AUDIO button on the front panel once, then the button will light orange.
- 8. Press the <u>STATUS/OTHER</u> button, then press the single-down-arrow button 8 to 9 times. The state of software options will be shown. Verify that the installed options are marked with "INSTALL". ("NONE" indicates uninstalled options.)

7. FA-95LG Data Transfer (When Replacing Unit)

If the FA-9500 has the logo generator function supported, logo data should be stored in the FA-9500. Initializing the FA-9500 does not clear the logo data. Data clearance can be done from the FA-95LG GUI. See the FA-95LG GUI Operation Manual for details.

Find the **Save All Tool** stored on the same PC with the FA-95LG GUI, in case data backup is needed to replace the FA-9500 unit to be repaired. The **Save All Tool** allows all logo data to be transferred from the FA-9500 to the PC at once.

How to use the backup tool is given only in this Update Guide, not in the FA-9500 or FA-95LG GUI Operation Manual. Backup must be performed by qualified service personnel.

• Save All Tool installation path

C:\Program Files\FOR-A\FA-95LG GUI\LogoBackup.exe (32Bit OS), or C:\Program Files(x86)\FOR-A\FA-95LG GUI\LogoBackup.exe (64Bit OS) (Normally installed in this path)

7-1. How to Use The Backup Tool

Saving or restoring logo data of maximum storage size takes about 30 minutes. It is recommended to save or restore logo data when the FA-9500 is not in use. Note that logo data stored in the FA-9500 will be lost if the logo data restoration is performed.

7-1-1. Backing Up Logo Data to PC

Start C:\Program Files\FOR-A\FA-95LG GUI\LogoBackup.exe (32Bit OS), or C:\Program Files(x86)\FOR-A\FA-95LG GUI\LogoBackup.exe (64Bit OS). A window as shown below appears when the program starts.

FA-95LG Logo Backup Tool 🛛 🛛 🔀		
IP Address	192.168. 0 . 10	
Port Number	50020 📚	
Method	💿 Backup 🔘 Restore	
ĺ	Start	

- Enter IP address and the port number of the FA-9500. The default port number is "50020". The port number, even if it is changed, can be viewed via web browser under Logo Port Number in the NETWORK tab. See the FA-9500 Operation Manual Edition 8 or later for details.
- 2) Select Backup.
- 3) Click Start.

4) Enter a filename, and select a folder to save the file to.

Save As		? 🔀
Save in:	🕒 My Documents 💽 🔇 🌮 🖽•	
My Recent Documents Desktop	Complete My Music My Pictures	
My Documents		
My Computer		
	File name:	Save
My Network	Save as type: Logo Information Backup File(*.f95lg)	Cancel

- 5) Click **Save** to save all logo data in the FA-9500 to the PC.
- 6) The progress window as shown below opens while saving data.

Logo Data Recive	
Data reciving now	
]
Getting Logo data.	X
Getting Logo data. Getting Logo data.	X

7) The progress window automatically closes when data saving process is complete.

IMPORTANT

Saving logo data of maximum storage size to a PC takes about 30 minutes. Although the FA-9500 can be operated while saving logo data, the processing speed is reduced.

It is recommended to save logo data when the FA-9500 is not in use.

Start C:\Program Files\FOR-A\FA-95LG GUI\LogoBackup.exe (32Bit OS), or C:\Program Files(x86)\FOR-A\FA-95LG GUI\LogoBackup.exe (64Bit OS). The window as shown below appears when the program starts.

FA-95LG Log	o Backup Tool 🛛 🛛 🔀
IP Address	192.168. 0 . 10
Port Number	50020 📚
Method	🔿 Backup 💿 Restore
ĺ	Start

- Enter IP address and the port number of the FA-9500 to which to download the logo data. The default port number is "50020". The port number, even if it is changed, can be viewed via web browser under Logo Port Number in the NETWORK tab. See the FA-9500 Operation Manual Edition 8 or later for details.
- 2) Check Restore.
- 3) Click Start.
- 4) Select a folder in which logo data is saved.

Open					? 🔀
Look in:	📋 My Documen	ts	00	📂 🛄 •	
My Recent Documents	Cownloads				
Desktop My Documents					
My Computer		7			
	File name:	Ľ		~	Open
My Network	Files of type:	Logo Information Backup File(*.f	95lg)	~	Cancel

5) Click **Open**. The progress window as shown below opens while restoring data.

6) The window automatically closes when data restoring process is complete.



8. Loading Older Version Data from FA-9500

Event data created by an earlier version of software than 6.00 and files saved by the backup parameter function of the former version FA-9500 may not recall images as saved before, since software version 6.0 has been enhanced to include up/down/cross conversion in the second converter. Make sure to reset the settings shown below when loading events or files created by earlier version software.

However, Event data files created on software earlier than version 6.00 and that created on versions 6.00 and later cannot be shared due to a file format difference.

If the software of your FA-9500 is newer than version 6.00, the below resets are not required.

On the other hand, do not load event data and/or files created by software of versions later than 6.00 to FA-9500 units having software versions earlier than 6.00.

See FA-9500 Operation Manual section 9-6-2 Backup Parameter for details on the backup parameter function.

See section 8 Event Memory or 9-6-1 Event Control for details on event data creation.

Reset the following settings:

- All settings in CONV1 U/D MODE (Sec. 5-3-5)
- All settings in CONV2 U/D MODE (Sec. 5-4-1)
- ANTIALIAS H/V settings in CONV1 IMPROVE (Sec. 5-3-9)
- ANTIALIAS H/V settings in CONV2 IMPROVE (Sec. 5-4-5)
- All settings in CONV1 ANC SET (Sec. 5-10-9)
- All settings in CONV2 ANC SET (Sec. 5-10-10)
- All settings in ANC DETECT LINE (Sec. 5-10-14)
- All settings in ANC DETECT SEL (Sec. 5-10-15)
- All settings in ANC DATA EMBED (Sec. 5-10-16)
- All settings in ANC EMBED LINE (Sec. 5-10-17)
- All settings in ANC LOSS SET (Sec. 5-10-18)
- All settings in WSS AFD ERROR (Sec. 5-10-19)

The above resets are required for each piece of event data.

Older version event data saved in the FA-95RU also need their settings to be reset.

9. Troubleshooting

Problem	Check	Remedy
Unable to store setting and/or event	PC specs	Does your PC meet system requirements? Check the Software update System
data to the FA-95RU.		requirements in Section 1 "Equipment and System Requirements".
Unable to store setting and/or event data to the FA-9500.	PC specs	Does your PC meet system requirements? Check the Software update System requirements in Section 1 "Equipment and System Requirements".
Unable to update FPGA in the FA-9500.	Updating data	Is the update data selection of FPGA3 or FPGA1,2 proper? Check with the procedure shown in section
	D 0	4-1 for FPGA3, and 4-2 for FPGA1,2.
Unable to install a software option.	PC specs	Does your PC meet system requirements? Check the Software update System requirements in Section 1 "Equipment and System Requirements".
	Serial number	Is the serial number of the FA-9500 you are trying to install software into correct?
		Installation license codes are issued for each serial number. Enter the correct license code for the corresponding serial number.
	Update item	Is the software checkbox checked? Check the software checkbox corresponding to the license code.
Unable to establish a connection between the FA-9500 and FA-95RU.	CONTROL SETTING	Is the CONTROL SETTING menu set to REMOTE? Set CONTROL SETTING to REMOTE.
	IP address	Are the FA-9500 and FA-95RU IP addresses
		Verify and change IP addresses as necessary so that they are not identical.
	TCP Port Number	Is the set FA-9500 TCP Port Number correct?
		Connect the FA-9500 to a PC and verify TCP Port Number in NETWORK SETTING is 50010. If not, set TCP Port Number to 50010.
Unable to establish a connection between	IP address	Are the FA-9500 and FA-95LG GUI IP addresses unique?
the FA-9500 and FA-95LG GUI.		Verify and change IP addresses as necessary so that they are not identical. Also verify that no devices in the same network have identical IP addresses.
	Logo Port Number (FA-9500)	Are the set FA-9500 Logo Port Number and FA-95LG GUI port number correct?
	Port number (FA-95LG GUI)	Login the FA-9500 via a web browser, go to Network > Network Setting, then verify Logo Port Number is 50020.
		Is the set FA-95LG GUI port number the same with FA-9500 Logo Port Number?
		If you have to change the FA-95LG GUI port number 50020 to a different number to
		FA-9500 Logo Port Number the same.

Problem	Check	Remedy
The updated version is not displayed after an update.		Power off and on the unit, and verify the displayed version.
Unable to update using older version update data	File name	Update tools version 2.00 and later are supported by the file name recognition function, which restricts and prevents unintended updates, with the introduction of FA-95D-D and FA-95DE-E. To use older version update data, change their file names.
		 FA-9500 FPGA1:2.08 FPGA2: 3.00 SOFT: 3.00 To use older version FA-9500 update data, add "FA9500" to the beginning of the file name. e.g. PM8951.ais→FA9500_ PM8951.ais PM8950.pof→FA9500_ PM8950.pof FA-95RU SOFT: 2.00 To use older version FA-95RU update data, add "FA95FU" to the beginning of the file name. e.g. PM9073-**.ais→FA95RU_PM9073-**.ais * Be careful when changing file names. An FA-9500 or FA-95RU that is updated using an improperly named update data file will not be able to start up. The unit will have to be returned to the factory for repair.
		If the file name is unable to be changed, use update tool 1.3.14. Do not use the update tool for FA-95AIO, FA-95D-D or F95DE-E updates, however.

Appendix: FA-95LG Test Logo

Test logos are provided for system adjustments as: HD1080.tga (HD1080 test logo) HD720.tga (HD720 test logo) SD525.tga (SD525 test logo) SD625.tga (SD625 test logo) in the FA-95LG GUI standard installation path:

C:\Program Files(x86)\FOR-A\FA-95LG GUI (32Bit OS), or C:\Program Files(x86)\FOR-A\FA-95LG GUI (64Bit OS)

Be sure to uncheck SD Pixel Ratio Correction Mode when loading SD525.tga or SD625.tga data to the FA-9500.

Also, set Key Mode to Key.

This test logo description is not provided in the FA-95LG GUI or FA-9500 Operation Manual. Test logos are provided for the system inspection and adjustment.

Be sure to delete the test logo data from the FA-9500 when the inspection and/or adjustment have/has been completed.



A FA-95LG Test Logo sample (HD 1080)

Appendix: FA-9500 Update Check List

FA-9500 S	erial Number					
Customer facility						
Sub I	ocation					
Unit	name					
Backu	p Yes/No					
	FPGA1					
Previous	FPGA2					
version	FPGA3					
	SOFT					
	FPGA1					
New	FPGA2					
version	FPGA3					
	SOFT					
	IP					
Network	SUB					
	GATE WAY					
	FA-95AVO					
	FA-95SCNV					
Software option	FA-95-3G					
	FA-95FRC					
	FA-95LG					
	FA-95CO					
Backup data	a reinstallation					
Re	estart					

Appendix: FA-95RU Update Check List

FA-95RU Serial Number						
Customer facility						
Sub location						
Unit name						
Backu	p Yes/No					
Previous	FPGA					
version	SOFT					
New	FPGA					
version	SOFT					
	IP					
Network	SUB					
	GATE WAY					
Backup data reinstallation						
Re	estart					

Appendix: FA-95D-D/DE-E Update Check List

FA-9500 Serial Number						
FA-95D-D/DE-E Serial No.						
Customer facility						
Sub location						
Unit name						
Previous	FPGA 1					
version	FPGA 2					
New version	FPGA 1					
	FPGA 2					

Appendix: FA-95AIO Update Check List

FA-9500 Serial Number						
FA-95AIO Serial Number						
Customer facility						
Sub location						
Unit name						
Previous	FPGA 1					
version	FPGA 2					
New version	FPGA 1					
	FPGA 2					



FOR-A COMPANY LIMITED

Head Office Overseas Division Japan Branch Offices R&D/Production 3-8-1 Ebisu, Shibuya-ku, Tokyo 150-0013, Japan Phone: +81(0)3-3446-3936, Fax: +81(0)3-3446-1470 Osaka/Okinawa/Fukuoka/Hiroshima/Nagoya/Sendai/Sapporo Sakura Center/Sapporo Center

FOR-A America Corporate Office

11155 Knott Ave., Suite G&H, Cypress, CA 90630, USA Phone: +1-714-894-3311 Fax: +1-714-894-5399

FOR-A America East Coast Office

2 Executive Drive, Suite 670, Fort Lee Executive Park, Fort Lee, NJ 07024, USA Phone: +1-201-944-1120 Fax : +1-201-944-1132

FOR-A America Distribution & Service Center

2400 N.E. Waldo Road, Gainesville, FL 32609, USA Phone: +1-352-371-1505 Fax: +1-352-378-5320

FOR-A Corporation of Canada

346A Queen Street West, Toronto, Ontario M5V 2A2, Canada Phone: +1-416-977-0343 Fax: +1-416-977-0657

FOR-A Latin America & the Caribbean

5200 Blue Lagoon Drive, Suite 760, Miami, FL 33126, USA Phone: +1-305-931-1700 Fax: +1-305-264-7890

FOR-A UK Limited

UNIT C71, Barwell Business Park, Leatherhead Road, Chessington Surrey, KT9 2NY, UK Phone: +44(0)20-8391-7979 Fax: +44(0)20-8391-7978

FOR-A Italia S.r.l.

Via Volturno 37, 20047 Brugherio MB, Italy Phone: +39-039-881-086/103 Fax: +39-039-878-140

FOR-A Corporation of Korea

1007, 57-5, Yangsan-ro, Yeongdeungpo-gu, Seoul 150-103, Korea Phone: +82(0)2-2637-0761 Fax: +82(0)2-2637-0760

FOR-A China Limited

708B Huateng Bldg., No. 302, 3 District, Jinsong, Chaoyang, Beijing 100021, China Phone: +86(0)10-8721-6023 Fax: +86(0)10-8721-6033

FOR-A Middle East-Africa Office

Jebel Ali Free Zone, LOB-16, Office 619, P. O. Box: 261914 Dubai, UAE Phone: +971 4 887 6712 Fax: +971 4 887 6713

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