Design File Server

Instruction Manual

Ver 1.50.00

1. :	Introduction	1-:	1
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1-1. Outline	1-1
1-2. Design File Server Operating Environment Requirements	1-1
1-3. Design File Server Programs	1-2

2-1. Connection Diagrams 2	2-1
2-2. Installing Design File Server Program 2	2-3
2-3. Machine ID for LAN 2	2-7
2-4. Firewall settings for Design File Server 2	2-7
2-5. Windows Firewall settings 2	2-7
2-6. Firewall settings for other security software2-	11

3-1. Design File Server Outline
3-2. LEM Server Config 3-4
3-3. Starting Up Design File Server 3-5
3-4. Design File Server Functions 3-6
3-5. Designs List
3-6. COM Operations 3-9
3-7. LAN Operations
3-8. Design Viewer
3-9. Machine Eraser
3-10. Version Numbers

4. Appendix 1

4-1. Updating Floppy Disk Driver	4	-1
4-2. LEM System Report	4	ł-8





This manual describes the new Design File Server program installation and operation. In order to use the network system properly, please read the manual before using.

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1-1. Outlines

- Downloads designs from a server using a LAN connection. Maximum 1 machine connection.
- Downloads designs from a server using COM connections with a maximum of 8 machine connections.

1-2. Design File server operating environment requirements

Operation System	Windows Vista/Windows 7/Windows 8/Windows 8.1/Windows 10
Processor (CPU)	Pentium 4 or higher/ 2GHz or higher
RAM	2GB or more
Hard Disk	At least 15MB or larger
Number of Pixels	XGA (1024x768) or higher
Color Depth	Optional Color
Others	 For COM connections, machine requires a COM port or COM adaptor
	LAN Protocol is TCP/ IP.
	For LAN connection, machine requires a LAN Port, Adapter, or LAN Card

< Chart 1-3-1 Specifications >

- Since Windows XP® support has been discontinued; we can't guarantee the LEM server performance with this operation system.
- If you are using a PC without a COM port, please use a USB to Serial adapter as recommended by your local Barudan distributor for support reasons.
- ※ COM connections require a Null modem serial cable. Please use a cable as recommended by your local Barudan distributor for support reasons.

1-3. Design File Server Programs

Design File Server is composed of the following programs (Chart 1-3-2)

Applications	Functions	Refer to
LEM Server Config	This application performs set-up functions for Design File Server. You must run this with administrator privileges.	Chapter2
Design File Server	This program allows designs to be downloaded to the machines. There are (8) COM connections allowed with (2) different delivery methods available. For LAN, (1) machine connection is allowed, with (3) delivery methods available.	Chapter3

< Chart 1-3-2 Applications and functions $\,>\,$



2-1. Connection Diagrams



 $\,<\,$ Fig. 2-1-2 Design File Server Connection Example $\,>\,$

- X A total of 8 machines can be connected via COM with Design File Server.
- If your PC doesn't have a COM port, please use a USB to Serial adapter as recommended by your local Barudan distributor for support reasons
- ※ Null model Serial cables are required. Please use cables as recommended by your local Barudan distributor for support reasons.

Design File Server (LAN)



 $<\,$ Fig. 2-1-1 Design File Server Connection Example $\,>\,$

X Only 1 LAN machine connection is allowed with Design File Server.

2-2. Installing Design File Server Program

Installation procedure for the Design File Server program to the PC as follows.

 Execute the DesignFileServerSetup.exe. If you try to re-install the Design File Server on a PC with a newer version of Design File Server already installed, the program will automatically recognize this, and ask you to un-install the old program. Press "Yes" to un-install the previous version of the Design File Server software. The new installation will automatically start afterwards.

W	/indows Installer	x
Γ		Close
	Are you sure you want to uninstall this product?	
	Yes No	

 $<\,$ Fig. 2-2-1 Uninstalling Message $\,>\,$

② There are 2 types of installation modes, Normal or Background. Choose which mode to use and Click "OK". (Fig. 2-2-2)

Setup	×
Startup Mode	
Normal	
© Back Ground	
ОК	Cancel

 $<\,$ Fig. 2-2-2 Startup Mode Message $\,>\,$

- When you select "Back Ground" mode installation, Design File Server will automatically start every time the PC is rebooted and run in the background.
- * The Design File Server install folder is fixed at C:\Design File Server.
- Port 8000 is fixed DFS. If another application uses port 8000, please change the port setting for the application or terminate it.

③ The following DFS information menu will be displayed. Click "Next".(Fig. 2-2-3)



 $<\,$ Fig. 2-2-3 Starting the Installation $\,>\,$

Please select "I agree" after reading the license agreement, then "Next" to continue.
 Select "I disagree" or the "Cancel" button to exit the installation. (Fig. 2-2-4)



< Fig. 2-2-4 Starting the Installation >

(5) Enter your customer information, and then click "Next". (Fig. 2-2-5).

😸 Design File Server - InstallShield Wiz	ard		×
Customer Information Please enter your information.			
User Name:			
ken2			
Organization:			
InstallShield	<u> </u>		
	< Back	Next >	Cancel

 $<\!$ Fig. 2-2-5 customer information input screen >

6 Select the user setting and start the installation (Fig. 2-2-6).

🛃 Design File Server	- InstallShield Wizard	X
Ready to Install the The wizard is ready	to begin installation.	
If you want to revie exit the wizard.	ew or change any of your installation settings, click Back. Cl	ick Cancel to
Install this applicati	on for:	_
	Anyone who uses this computer (all users)	
	Only for me (ken2)	
InstallShield		Const

<Fig. 2-2-6 installation user selection screen>

The following Restart message will be shown after the installation (Fig. 2-2-7).
 The installation is fully complete after the restart.



(8) The new program is loaded into the "All Programs" menu as shown below.



< Fig. 2-2-8 Installing Application>

Application software	Description
Design File Server	This is the primary program for downloading designs to the machines.
	COM mode: Up to (8) sewing machines can connected with COM cables.
	LAN mode: Only (1) machine can be connected using a LAN cable.
LEM Server Config	This program is used for configuration settings.
LEM System Report	This application checks the (DFS) LEM Server operating environment and
	then creates a report for trouble shooting purposes.
Machine Eraser	This application is used for deleting sewing machine IDs from the list of
	connected machines when using LAN mode.

 $\,<\,$ Table 2-3-1 Application Software $\,>\,$

2-3. Machine ID for LAN

The machine ID is used by DFS for displaying the machine connected by LAN. Please refer to the Network settings in the machine's Automat Instruction manual if you want to change it.

2-4. Firewall settings for Design File Server

If a firewall is not necessary on the DFS PC, please disable it. However, If a firewall is active CEMNETRUN.exe will be blocked and a message to release the block will be shown after the PC restarts after the initial Design File Server install. In this case, please release the block. If this message is not shown and not released, then it's possible that the machines will not connect to network. In this case, please follow instructions in "Section 2-12. Windows Firewall settings" in this chapter and set an exception for CEMNETRUN.exe. Also check if "File and Printer Sharing" is enabled in the firewall, or it's possible that the machines may not connect. In this case, please follow instructions in "Section 2-12. Windows Firewall settings" is enabled in the firewall, or it's possible that the machines may not connect. In this case, please follow instructions in "Section 2-12. Windows Firewall settings" is enabled in the firewall, or it's possible that the machines may not connect. In this case, please follow instructions in "Section 2-12. Windows Firewall settings" is enabled in the firewall.

2-5. Windows Firewall settings

If the Firewall is not necessary, turn the firewall off and ignore the following instructions. However if the firewall is needed and turned On, you'll need to set the exceptions as explained in the following instructions in order for the DFS Programs to work and communicate.

- x 🔇 💭 🗢 💣 🕨 Control Panel 🔸 System and Security 🕨 Windows Firewall - 4 Search Control Panel Q 2 Control Panel Home Help protect your computer with Windows Firewall Allow a program or feature Windows Firewall can help prevent hackers or malicious software from gaining access to your computer through Windows Firewall through the Internet or a network. Change notification settings How does a firewall help protect my computer? 🚱 Turn Windows Firewall on or What are network locations? off Home or work (private) networks Connected (A) Restore defaults Advanced settings Networks at home or work where you know and trust the people and devices on the network Troubleshoot my network Windows Firewall state: On Incoming connections: Block all connections to programs that are not on the list of allowed programs Active home or work (private) networks: Network Notification state: Notify me when Windows Firewall blocks a new program Public networks Not Connected See also Action Center Network and Sharing Center
- ① Open "Windows Firewall" in Control Panel (Fig. 2-5-1).

< Fig. 2-5-1 Windows Firewall screen >

② Click the "Allow a program or feature through Windows Firewall" to open the currently permitted program list. (Fig. 2-5-2)

AND DESCRIPTION	4 pril 4		
G v w h Control Panel + System and Security + Windows Firewall + Allowed Progr	rams 👻 🐓 S	Search Control I	Panel 🔎
Allow programs to communicate through Windows Fi To add, change, or remove allowed programs and ports, click Change : What are the risks of allowing a program to communicate?	rewall settings.	nge settings	
Allowed programs and features:			
Name	Home/Work (Private)	Public ^	
	 ✓ Detai[s) 		
	Allow anothe	r p <u>r</u> ogram Cancel	

 $<\,$ Fig. 2-5-2 Fire wall screen detail $\,>\,$

Check both "Private" and "Public" for:
 CyberEM NET Winsock Module

These programs should have been registered automatically when first re-started and show up in this list. However if they are not in the list, you'll have to register them manually as instructed in step ④ as follows:

- How to manually add a program. At step ② screen, click the "Change Setting" button and then click "Allow another program".
- Select and add the following programs. Please check both "Private" and "Public" for "Network types...".
 Click the "OK" button after registered all them.

Name	Program
CyberEM NET Winsock Module	Design File Server Install folder CEMNETRUN.exe

 $\,<\,$ Table 2-5-1 exceptional setting program $\,>\,$

6 Configure the File and Printer sharing settings. Select the "File and Printer Sharing (Echo Request –ICMPv4-In)" on the list and double-click it. (Fig. 2-5-3). See step ⑥ if you need help getting back to this menu.

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Image: Second With Advance Indocate Firewall with Advance	File Action View Help					
Induced Rules Actions Induced Rules Actions Outbound Rules Name Group Profile En Induced Rules	← ⇒ 2 □ ≥ 2 □					
▼ Mane Group Profile Ena © Outbound Rules © Connection Security Rules © Distributed Transaction Coordinator (RPC-EPMAP) Pile and Printer Sharing (Cho Request - ICMPA+IP) File and Printer Sharing (IPM-Net Perpendent Philes)	Windows Firewall with Advance	Inbound Rules				Actions
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 $<\,$ Fig. 2-5-3 shared selecting of file and printer $\,>\,$

⑦ The properties menu will be shown. (Fig. 2-5-4) Check the "General" tab. Make sure "Enabled" is checked and "Allow the connection" is selected.

Protocols and Pons	Scope	Advance	d	User
General	Programs and Sen	vices	Comp	outers
i This is a pre	edefined rule and some	of its propertie	s cannot	
General				
Name:				
File and Prin	nter Sharing (Echo Reg	uest - ICMPv4	-In)	1
Description:				
Echo Regu	est messages are sent ;	as ping reques	ts to	
other podes				
Enabled				
Action				
 Allow the 	e connection			
Allow the	e connection if it is <u>s</u> ecu	ure		
Custor	mi <u>z</u> e			
Block th	e connection			
Learn more about thes	e settings			

 $\,<\,$ Fig. 2-5-4 Shared property of file and printer $\,>\,$

⑧ Check the "Advanced" tab. Select "Private" and "Public" check boxes, at a minimum for this setting. Click the "OK" button. (Fig. 2-5-5)

ile and Print	ter Sharing (Echo Request - ICN	Pv4-In) Properties	x
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Protoco	ols and Ports	Scope	Advanced	Usirs
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	Specify the i rule applies.	interface types to whic	this Customia	
Edge tra	aversal			
and the second se	Edge travers inbound pac such as a N firewall.	sal allows the compute kets that have passed etwork Address Trans	r to accept unsolicite d through an edge de lation (NAT) router or	d vice
	Block edge	traversal		
	Prevent app the Internet	olications from receivir through a NAT edge	g unsolicited traffic fr device.	m
Leam mo	re about these	e settings		
		ОК	Cancel	Apply

 $<\,$ Fig. 2-5-5 Shared property of file and printer $\,>\,$

2-6. Firewall settings for other security software

If you use other aftermarket security software, or free-software, the security functions should work similar to Windows Firewalls. In this case, please set the same settings used for Windows Firewall as explained in the previous section of this manual for the security software.

We can't guarantee Design File server operation if you use free-software or the functions and settings of aftermarket software.





3-1. Design File Server Outline

Downloading Designs by COM

Design File Server has 2 methods of downloading thru COM, Normal Mode and Protocol Mode.

[1] Protocol Mode

Protocol Mode is a network mode that works using COM connections. Multiple designs can be scheduled in this mode, and then operator selects which one to download using the machine Automat. (Fig. 3-1-1).



< Fig. 3-1-1 COM Protocol Mode>

[2] Normal Mode

Normal Mode sends designs to a machine one at a time. This mode is only recommended for older machines that cannot use the Protocol mode (Figure 3-1-2).



Downloading Designs by LAN

Design File Server can download designs to (1) machine using LAN. There are three primary methods of downloading, **Schedule Download Mode**, **Direct Download Mode** and **Free Download Mode**.

[1] Schedule Download Mode

This method downloads scheduled designs to the machine from the server. Operators receive the scheduled designs based on the order of the designs in the schedule.



[2] Direct Download Mode

Operators input a design name on the Automat, and the design is searched for in the server design folders and automatically downloaded to this machine. This method also allows the use of a bar code scanner to scan the design name.

Note: To use a bar scanner, the machine's Automat must be scanner compatible. Check the machine's instruction manual for details and operation.



 $<\,$ Fig. 3-1-4 Direct Download Mode $\,>\,$

[3] Free Download Mode

% Note: This feature is only available with X-Series machines and newer.

Free Download Mode uses a specific reference folder that contains the designs to be downloaded to the machine. In this mode, the operator can freely choose which design in this folder is downloaded to the machine. This mode basically works the same way as COM Protocol mode, except it uses a LAN connection. <Fig. 3-1-5>





3-2. LEM Server Config

Note: These settings do not need to be set for DFS, unless the Port setting needs to be changed or you're setting up the E-Mail Call operation.

[1] LEM Server Config

- 1) Go to "Start Menu"→"All Program"→"Design File Server"→"**LEM Server Config**"
- 2) When you start LEM Server Config for the first time, the following window will be displayed.

		UserID	
Network Database FTP Lic	cense Other	Version	1.12.00
Output event log	Disable		
Make bin file	Disable		
Output data type	Version3		
Log stock folder	C:\MDB		
Port	8000		
(<u></u>		

- $<\,$ Fig. 3-2-1 LAN setting Screen $\,>\,$
- % Please log in with Administrative rights to run this program.
- $\ensuremath{\overset{\scriptstyle <}{_{\sim}}}$ You must close the Design File Server, to run this program.

[2] Network Settings

(1) Network tab

Items	Content
Output event log	Disable
Make bin file	Disable
Output data type	Disable
Log stock folder	Disable
Port	Indicates the TCP/IP communication port number being used for DFS LAN connection. 8000 is the default recommended setting. If necessary, alternate recommended settings are 49152 to 65535. *If an alternate setting is used, the Automat or LAN adapter must be changed to match this setting, if using a LAN connection.

 $<\,$ Fig. 3-2-2 LAN setting Item $\,>\,$

X You must reboot your computer after opening LEM Server Config in order to save settings and to restart DFS. Otherwise you may receive a "CEMNET cannot find" error until you do.

3-3. Starting Up Design File Server

- Note: Make sure you reboot the computer before you start Design File Server for the first time. Otherwise you may receive a "CEMNET cannot find" error until you do.
- Go to "Start Menu"→"All Programs"→"Design File Server"→"Design File Server".
 Or simply click the "Design File Server shortcut" on the desktop. After this, Design File Server program starts up.
- 2) The Design File Server screen opens, as shown below. (Fig. 3-3-1).



 $<\,$ Fig. 3-3-1 Main Screen $\,>\,$

Note: if Design File Server was installed in Back Ground mode, Design File Server will automatically be started in the back ground when the PC is rebooted. In this case the Design File Server icon is contained in the Task tray if you need to open it.

3-4. Design File Server Functions

[1] Function Names



 $<\,$ Fig. 3-4-1 Main Screen $\,>\,$

[2] Function Tabs List

Icon	Name	Function/Operation
	LAN Connection Icon	Click the LAN Connection Icon to view the machine connected via LAN. This function also contains the Design download mode settings for the machine.
Ζ,	COM Connection Icon	Click the COM Connection Icon to view the machines connected via COM. This function also contains the Design download settings for the machines.
	Design Viewer	Click the Design Viewer Icon to view the selected design in the design list. To cancel the design viewer, click the COM or LAN Connection Icon.
VER SION	Version Viewer Icon	Click the Version Viewer Icon to check the DFS software version numbers.

< Table 3-4-1 Function List >

3-5. Designs List

[1] Design Display Buttons

Icon	Name	Function/Operation
	Change Folder Icon	Selecting a Design Display Folder.1. Click the Change Folder Icon.2. Use the "Browse for Folder" to select a folder of designs.3. Click the OK button.
	Change View Icon	Change View Click the Change View Icon to switch the view from Large, Medium, Small, Minimum or List view.
	Search Icon	This function searches the design list by the design names. The Wild card (*) is available. Example: All files with an "A" at the beginning are displayed, when you input "A*".
3	Update Icon	Updates the Design list. Click the Update Icon to update the design list after saving new designs in your folder.
A.	Sort Icon by name, A to Z	Sorts the designs by name in the design list.
	Sort Icon by date & Time	Sorts the designs by date & time in the design list.
	Ascending order	Sorts the designs in Ascending order.
F	Descending order	Sorts the designs in Descending order.
V	Design name display button	If a design name is longer than the maximum characters shown (8 or 12), this button allows you to choose whether to omit the beginning portion of the design name ($>$), or the end ($<$).
12	Design name maximum characters shown button	Determines the maximum number of characters shown for the design name in the list. This includes the (>) and (<) characters if the maximum character limit is exceeded. Setting 8: Displays the design name up to 8 characters + extension. Setting 12: Displays up to 12 characters + extension.
FDR	Disk types Icon	Selects what types of disk formats that are displayed in the design list. The following disk types are available: FDR / TFD / PRJ / NOP / FMC / HAPPY (HAP) / TOYOTA (TOYO) /MELCO (MEL) and ZSK.

 $<\,$ Table 3-5-1 Icon names and functions $\,>\,$

[2] Design list Indication / Non-indication modes

Note: This feature is helpful if you have thousands of designs, and you want to turn the Design List off, so no designs are shown. If you try to view thousands of designs at boot up, DFS will be very slow to reboot and may even cause the PC to crash.

To Use: Click on the "reference folder path" under the design list to switch between "Indication" or "Non-indication" mode for the Design list. When "Non-indication" is changed back to "Indication", a confirmation message is displayed.

When "Non-indication" is set, the Design List is turned Off and the Design Viewer, and Function Change operations are not available.

Indication

Non-indication

🔁 C:_lemdata\FDR2 (5 designs)

XC:_lemdata\FDR2 (5 designs)

3-6. COM Operations

[1] COM function screen

Page 1 Design File Server (F)					-	_ D _ X
	2 🞦 🖻 🛼	F 12	FDR		COM port lis	t
Barudan	COM Fu	nction operation buttons	n 🛐		OM 3 [Not Use]	
BARUDAN.U01 5060 st	Beq051a.u03 42274 st	Beq082a.u02 31320 st	×			
and the second	👻 Bergestitter.					
Beq084a.u01 40522 st	CAP.U07 14989 st	CYCLING.U01 76616 st	XT			
DRAGON1.U04 165111 st	GBARUDAN.U08 216600 st	Ski.U02 83140 st				
And and a second second		fantar Jan Anna y Company				
Skiing.U03 68676 st	Slalom.U04 42450 st	Soccer.U05 63029 st		Z,	VER SION	
C:\FDR-001.FDR (36	designs)					Schedule Download Mode

 $<\!$ Fig. 3-6-1 COM function screen >

[2] Buttons and features

Icon	Name	Description
	Set button / copy button (Set / Copy)	In Normal Mode for the selected COM port, the selected design will be downloaded to the machine. In Protocol Mode, the selected design will be copied to the machine's queue list (COM folder).
\circ ×	Design transmission start/ stop button (Start / Stop)	In Normal Mode, you can start and stop the design download transfer.
150 A	Drive condition's setting button (Drive Condition)	In Protocol Mode, these settings determine how the designs are sent to the machine.
	See Folder Settings button (Reference)	In Protocol Mode, used for viewing the designs in the machine's queue list (COM folder).
XT	Options button (Option)	Used to set COM options.

 $<\!$ Table 3-6-1 Buttons and Functions >

[3] COM List Display

Viewing Item	Display Description		
COM Number and COM	COM number that Windows has assigned and the COM name as assigned		
name	in the Options menu.		
COM Icon	Not Used		
	Normal U code F code EL code		
	Protocol 2		
COM Mode and Baud	In Normal Mode, it shows the selected Baud rate.		
rate	In Protocol Mode, 115200bps is the fixed value and cannot be changed.		
Operating condition	In Protocol Mode, shows the operating conditions that have been set for the selected COM port/machine.		
Transfer design name and number of stitches	Displays the design name and number of stitches in the design.		
Design image Displays the design being sent.			
Number of stitches sent	Displays the number of stitches sent and %.		
COM Folder path and	In Protocol Mode, this shows the COM folder path, and the number of		
number of designs	PRJ files that are in the folder		

The following shows info displayed for the COM port list: (Table 3-6-2).

<Table 3-6-2 COM list display contents>

Normal Mode Time



Protocol Mode Time



[4] Protocol Mode

(1) Changing COM mode

To use Protocol Mode, you need to change the COM option mode to Protocol Mode. Change mode using the following steps.

- (1) Select the COM port you want to change from the COM port list.
- 2 Click the **T** button to display the Option menu (Fig. 3-6-3).

COMIN	
Mode	Normal Mode Setting
🔘 Not Use	e BaudRate
Protoco	Dutout Disk Code
🔘 Normal	⊚ U 🕐 EL 📀 F
Folder	
COM Fold	er
C:\Design F	ile Server\DR_DL
Watching	Folder
🔲 Delete	Original Files Interval Converting
🔲 Overwr	ite 1 🚖 Sec
Delete	
O After D	ownload

< Fig. 3-6-3 Options dialog>

- ③ Select "Protocol" Mode.
- (4) COM folder designates where the download designs are stored for this COM port.
- (5) For the "Delete" setting there are 2 options:
 - "After Download" is the recommend setting and it deletes the PRJ file from the COM folder after the design is downloaded.
 - "Before X days", removes the PRJ files after a specified number of days. If 0 days is selected, no Deletes happen.
- (6) When you click the "Clear all files" button, all of the PRJ files in the COM folder are deleted.
- O Click the OK button to close the Options dialog. COM mode is the Protocol Mode.
- ※ In Protocol Mode, 115200 BAUD rate and Output disk code "U code" is automatically selected, and cannot be changed.

(2) Sending Designs in Protocol mode

To send a design to a machine, please perform the following steps.

- Turn the Network or Protocol mode on for your Machine's Automat. This step may vary depending on Automat model. Please refer to your Automat's instruction manual or call your local Barudan distributor for assistance.
- ② Select a COM port to download to, from the COM port list in DFS.
- ③ From the Design list, choose a design to be sent.
- ④ You can either click on the **()** button, or drag-and-drop the design on the COM port. This action converts the design to a PRJ design and saves it in to the queue list (COM folder).
- (5) To check the designs in the queue list (COM folder), use the Q button.
- 6 Press the "Network" button on the Automat to display the queue list of designs ready for download. Select a design in the list to download it. For more details on Automat operations, please refer to the Automat's instruction manual.



(3) Drive Condition setting

The setting determines the Drive condition of the design sent to the Automat $_{\!\scriptscriptstyle \circ}$

- ① From the COM port list, choose a COM port with Protocol Mode.
- 2 Click the E button and the Drive Condition setting menu is displayed (Fig. 3-6-4).

Drive Condition	X
Drive condition pattern Cap Frame	✓ Detail
Drive Condition 01 : V Scale = 100 03 : ROT Pattern = 3 13 : Cap Frame = 1	Init
ОК	Cancel

- < Fig. 3-6-4 operation condition setting dialog>
- ③ Select a "Drive condition pattern" from the drop down list. The Drive Conditions setting values for the selected pattern is displayed.

(4) If you want to change a setting, click the "Detail" button to display a Settings menu, as follows for example (Fig. 3-6-5).

Cap Frame	×
Drive Condition	
01 : V scale	100 🚖
03 : ROT pattern	3
ОК	Cancel

<Fig. 3-6-5 operating conditions the Advanced Settings dialog>

- (5) Change settings if needed and then click the "OK" button to save the changes.
 - Use the "Init" button to set back to the Default settings.
- (6) Afterwards, any design added to the queue list for this machine will have these Drive conditions and designs added after.
- ※ Note: This change will have no effect on designs previously queued for this machine. It only has effect on designs added after the change.

(4) Watching Folder settings

The Watching folder allows you to use whatever Design editing software you want. When you want to send a design to a machine, you simply save the design out of the Design editing software into the Watching folder, to automate the process.

- ① To start with, make a folder on the PC to be used as a watching folder. You can name this folder whatever you want. It's suggested you keep it simple like calling it "Watching folder", or if you have multiple folders, name them by the model name of the machine.
- (2) From the COM port list, choose a COM port with Protocol Mode.
- ③ Click the T button to display the Option menu (Fig. 3-6-6).

Mode	Normal Mode Setting
🔘 Not Use	BaudRate
Protocol	Output Disk Code
💿 Normal	🔘 U 🕐 EL 📀 F
C:\Design	[
C:\Design	Files Interval Convertin
Overwrite	1 🚖 Sec
Delete	
	I I
After Download	

< Fig. 3-6-6 monitoring folder settings>

- (4) Click the [...] Browse button at the end of the Watching folder path to browse and select the watching folder you've made in Step ①.
- (5) "Delete Original design". It is recommended to check this box. This option automatically deletes the design in the Watching folder, after it's processed and added to the machine's download queue.
- (6) "Overwrite". This option determines what happens if you schedule the same design twice or more. If checked, it overwrites the design in the queue. If not checked, it doesn't overwrite.
- \bigcirc "Interval Converting" sets the interval DFS uses to check the Watching folder.
- (8) Click the "OK" button to save the settings and exit.
- (9) Afterwards, save a .U01 or .DST design into the Watching folder to add it to the queue list.

[5] Normal Mode operation

(1) Change COM mode

To use Normal Mode, you need to change the COM option mode to Normal Mode. Change mode using the following steps.

- 1 Select the COM port you want to change, from the COM port list.
- 2 Click the ption to display the Option menu (Fig. 3-6-7).

Mode Normal Mode Setting Mode Normal Mode Setting Image: Not Use BaudRate Image: Setting 9600
Normal Output Disk Code
Folder Temporary Folder C:\Design File Server\DR_DL Watching Folder
Delete Original Files Interval Converti Overwrite
Delete After Download Before 3 days

 $<\!$ Fig. 3-6-7 Options dialog>

- ③ Select "Normal" Mode.
- ④ Choose a BAUD rate, and Output Disk Code, if necessary.
- (5) Click the "OK" button to save settings and close the Options menu.
- ※ Even if the BAUD rate is the same as the Automat, there may be timing issues with the hardware. In this case, please select an appropriate BAUD rate that can transmit reliably.

(2) Sending Designs in Normal mode

To send a design to a machine, please perform the following steps.

- Set the COM input mode on the Automat so it's waiting for the download.
 Note: BAUD rate and Output disk code must match the Design File Server Option settings.
- (2) Select a COM port to download to, from the COM port list in DFS.
- ③ From the Design list, choose a design to be sent.
- ④ You can either click on the 🚰 button, or drag-and-drop the design on the COM port.
- (5) The design is sent to the selected COM, and the Automat starts downloading it.
- (6) Use the O button if you want to stop in the middle of downloading a design.
 Use the O button again when you're ready to resume, or click the button to cancel.



3-7. LAN Operations

[1] Main Screen of LAN Operation



 $\,<\,$ Fig. 3-7-1 LAN Function Screen $\,>\,$

[2] List of Connected Machines

Display Item	Description	
Machine Icon	Connected Machine IDs and past machine IDs are displayed in the list. When a machine is connected, the icon lights up as shown below. Connected Disconnected Disconnected	
Envelope Icon	When an operator sends a design to the server from the Automat, an envelope icon is displayed under the machine icon. ← Envelope Icon	
Machine ID and Operator Name	Machine ID and logged-in Operator Name are displayed. When an operator name is not logged-in, a [-] is displayed.	
IP Address	IP Address is displayed for each machine ID.	
Number of scheduled designs	Schedule Download Mode : The number of scheduled designs is displayed for each machine ID.	
Next Scheduled Design Name with Image	Schedule Download Mode: Next Scheduled Design Name with an image is displayed for each machine ID.	
Schedule List	Schedule Download Mode: Scheduled Design Images are displayed for each machine ID.	

The List of Connected Machines shows the following information.

 $<\,$ Table 3-7-1 Machine ID List Display Contents $\,>\,$

[3] Schedule Download Mode

(1) Mode Options

Instructions for setting Schedule Download Mode options as follows:

① Click the IT button to display the Mode option screen.			
M	lode option	×	
	Download Mode Schedule Download Mode Multi Schedule	Detail	
	Oirect Download Mode Multi Search		
	Free Download Mode		
		Create Watching folder	
	Search Sttings		
	Design search folder	Disk	
	C:\Customer Files	FDR TFD PRJ	
	Search in temporary folder	Change	
	Temporary Folder (PRJ)		
	C:\Design File Server\DR_DL		
	Delete		
	After Download		
	Before 3 days	Clear all files	
	Mail List Create	e mail list	
	OK	Cancel	

 $<\,$ Fig. 3-7-2 Option Dialogue $\,>\,$

- (2) Select "Schedule Download Mode" in "Download Mode" options.
 - For "Create Watching folder" settings, see page 3-20 for details.
- ③ Click "OK" and exit the Design File Server program.
- ④ Re-start the "Design File Server" program to re-open in Schedule Download Mode.
 - ☆ The default setting is Schedule Download Mode.
 - % The machine Automat recognizes which mode has been selected in the LAN options.

(2) Scheduling Designs

Procedure to schedule a design for a selected machine ID

- (1) Select the desired machine in the list of connected machines.
- ② Select a <u>design</u> in the designs list. (Multiple choice available)
- ③ Click the Sulton or drag and drop the design on the appointed machine in the list of connected machines.
- (4) The scheduled design is displayed in the Schedule list.

(3) Changing the Schedule

Procedure to re-schedule or delete a design after scheduling

- (1) Select the desired machine in the list of connected machines.
- (2) Right click on the schedule list and the scheduled designs are displayed as listed below.

Change Schedule	×
C:\Program Files\LEM Server2 Pro\DR_DL\BARUDAN.PRJ C:\Program Files\LEM Server2 Pro\DR_DL\CAP.PRJ C:\Program Files\LEM Server2 Pro\DR_DL\Slalom.PRJ	Up Down Delete
OK Cancel	

 $<\,$ Fig. 3-7-3 Schedule Change Dialogue $\,>\,$

- ③ Select the desired design and click the "Up" or "Down" buttons to move the design up or down in the schedule (order).
- ④ To remove a design from the list, select the design and click "Delete".
- (5) Click "OK" to save the schedule.

(4) Downloading Scheduled Designs

The next scheduled design in the list will be downloaded to the appointed machine when the operator requests it, using the Automat. After that, the schedule list is updated automatically, allowing the next design in the schedule to be downloaded when requested.

X While the Automat is downloading a scheduled design, Steps (2) and (3) above cannot be executed.

(5) Multi Schedule Option

The "Multi Schedule" option for Schedule Download mode, allows the operator to choose which design in the schedule is downloaded. When this option is not selected, the operator doesn't have a choice. They only get the next scheduled design in the schedule.

 $\ensuremath{\mathfrak{K}}$ This feature is only for X-Series machines or newer.

(6) Create Watching Folder Option

This Mode allows you to set and use a Watching folder. Anytime a .U01 or .dst design is saved in the watching folder, the design is automatically converted to PRJ data and saved in the machine's reference folder. Afterwards, the design in the watching folder is automatically deleted.

Therefore the Watching folder allows you to use to use whatever Design editing software you want. When you want to send a design to a machine, you simply save the design out of the Design editing software into the Watching folder, to automate the process.

- ① To start with, make a folder on the PC to be used as a watching folder. You can name this folder whatever you want. It's suggested you keep it simple like calling it "Watching folder", or if you have multiple folders, name them by the model name of the machine.
- 2 Click the T button.
- ③ Click on the "Create Watching folder" button.
- (4) Click on the Machine ID in the list to set-up.
- (5) Click on the "Edit" button to browse and select the watching folder you made for this ID.
- 6 Click on "OK" to assign the watching folder
 - "Overwrite". Check this box if you save the same design name again, and you want to overwrite it. If you leave it unchecked, the same design name is saved again with an appended name, Ex design(1).
- ⑦ Click the OK button to exit the Mode option. Afterwards, DFS will start the monitoring process for the Watching folder.

[4] Direct Download Mode

(1) Mode Options

Instructions for setting Direct Download Mode options as follows:

① Click the	button.	
	Mode option Download Mode Schedule Download Mode Multi Schedule Direct Download Mode Multi Search Free Download Mode	Detail
	Search Sttings Design search folder C:\Customer Files Search in temporary folder	Disk FDR TFD PRJ Change Change
	Temporary Folder (PRJ) C:\Design File Server\DR_DL Delete O After Download Before 3 days	Clear all files
	Mail List Create OK	e mail list Cancel

 $<\,$ Fig. 3-7-4 Direct Download Dialogue $\,>\,$

(2) Select "Direct Download Mode" in the Download Mode options.

③ Select folder(s) to search designs. Click the "Change" button under the Design Search Folder, and the following screen is displayed.

Change Search List	×
C:_Design2	Add
	Up
	Down
	Delete
Search in the sub folder I ook at the extension upon searching	
OK Cancel	

 $<\,$ Fig. 3-7-5 Search Folder Adding Dialogue $\,>\,$

- ④ Click the "Add" button, to browse and select a folder as a search folder.
- (5) Use the "Up" or "Down" buttons to change the order of search folders, if multiple folders are selected.
- 6 Click the "OK" button to save and exit.

⑦ Select Disk Type formats to search for in the search folders of designs. Click the "Change" button under the Disk menu, and the following dialogue box is displayed.

Change Order List		
FMC HAPPY MELCO NOP TOYOTA ZSK	FDR PRJ TFD	Up Down
	Cancel	

< Fig. 3-7-6 Disk Type Selecting Dialogue>

- (8) Select a disk type and click the ">" button to add it to the list. Multiple disk types can be selected.
 - Use the "<" button if needed, to remove a disk type from the list.
 - % Use the "Up" or "Down" buttons to change the order of priority for searching the disk types.
 - ※ If there are multiple disk formats for the disk type selected, a disk format list is displayed on the right side of the window. Use the "Up" or "Down" buttons to change the order of priority for searching disk formats, for the disk type selected.
- (9) Click "OK" to exit and save the Change Order List.
- (1) Click "OK" to exit the "Mode Option" dialogue box to register the "Search Folder" and then Close the "Design File Server" program.
 - % When you change the search folder and the order of priority for reading disk types, it may take a while to register.
- (1) Re-start "Design File Server" to open in "Direct Download Mode".
 - %~ The "Schedule Lists" will not be displayed when in Direct Download Mode.

(2) Downloading Designs

When an Automat requests a design name, the design is searched for in the design folder(s). When the file is found, it's downloaded to the Automat.

For more details, please refer to your machine's instruction manual for Direct Downloading designs.

(3) Multi Search Option

The "Multi Search" option, displays all designs that match the search design name that was entered into the Automat. If there are multiple designs displayed, the operator manually selects which design to download.

- ※ If only one design matches the search, this design will download directly to the Automat.
- % The Multi Search is only available for X-Series machines and newer. Please refer to the instruction manual for the Automat for more operation details.

(4) Search Details

The search priority procedure in Direct Download Mode is listed below.

Order	Name of Folder	Mode Option
1st	Temporary folder	When "Search in temporary folder" is checked in Search Settings
2nd	Search folder	Order of search folders in Design Search Folders list.
3rd	Search sub folder	Searches the sub folders of Design search folder, when checked
	Sub folder with extension	Looks at folders with extensions when searching

< Table 3-7-2 Search Order >

1. Search in Temporary Folder setting

After designs are finished downloading, they are saved in the Temporary Folder. Designs can be searched immediately next time, if you check the "Search in temporary folder" box in the Mode options.

*If you edit or modify a design after it's downloaded, the saved design file in the temporary will not reflect the new changes. Therefore, please do not use this option if you modify downloaded designs and you save using the original design names.

2. Search in the Sub Folder setting

Use this feature if you need to register a search folder that has sub folders that also need to be included in the search.

3. Look at the extension upon searching setting.

You must turn this feature on, if you have folder names to be searched with an extension (example C:/Design.FDR). Otherwise folders with extensions will be ignored in the search.

To use these features, see procedure below:

- 1) Click the **T** button.
- (2) If you want to search the temporary folder, check the "Search in temporary folder" box.
- ③ Click on the Design search folder "Change" button to open the Change Search List.
- (4) If you want to register a search folder with sub folders, check the "Search in the sub folder" box in the Change Search List.
- (5) If you search folders that have a file extension in the folder name, Check the "Look at the extension upon searching" box in the Change Search List. Otherwise, these folders will be ignored.
- 6 Click on the "OK" button(s) to save and exit.

[5] Free Download Mode

(1) Changing LAN mode

Instructions for setting Free Download Mode options as follows:

1 Click	IT butto	n to display the Option Menu.		
	N	lode option	_	x
		Download Mode Schedule Download Mode Multi Schedule Direct Download Mode Multi Search	Detail	
		Free Download Mode	🔲 Delete Origi	nal Files
			Overwrite	
			Create W	atching folder
		Search Stringe		
		Design search folder		Disk
		C:\Customer Files		FDR TFD PRJ
		Search in temporary folder	Change	Change
		Temporary Folder (PRJ)		
		C:\Design File Server\DR_DL		
		Delete		
		After Download		
				Clear all files
		Mail List Create	e mail list	
		OK	Cancel	

 $<\,$ Fig. 3-7-7 Free Download Dialogue $\,>\,$

- (2) Select "Free Download Mode" in the Download Mode options.
 - For "Create Watching folder" settings, see page 3-30 for details.
- 3 Click the <code>``OK''</code> button to close the Option Menu.
- (4) Close and Re-start "Design File Server" to open in "Free Download Mode".
- * The Free Download mode is only available for X-Series machines and newer. Please refer to the instruction manual for the Automat for more operation details.

(2) Setting a Reference folder and designs

- ① Select a machine ID from the machine ID list.
- Click Q button to display the path of the Reference folder and the list of reference designs.
 (Fig. 3-7-8)



< Fig. 3-7-8 Setting of the reference folder >

- ③ Click the "…" Browse button at the right side end of the Reference folder path to browse and select a reference folder. If you don't have a reference folder already, use the "Make New Folder" to make one.
- (4) To Add a design to the reference design list, select a design in the design list and then click the button or drag & drop it to the reference design list.

(3) Downloading Designs

Use the machine Automat network function to view the list of designs in the Reference folder. Select a design or designs in the list, to download them to the machine.

- % Only designs in the specified reference folder are displayed. This excludes subfolders.
- A Maximum of 200 designs can be saved to the reference design folder for viewing and downloading.
 If you save more than 201 designs, the additional designs are not displayed on the Automat.

(4) Create Watching Folder

This Mode allows you to set and use a Watching folder. Anytime a .U01 or .dst design is saved in a watching folder, the design is automatically converted to PRJ data and saved in the machine's reference folder.

Therefore the Watching folder allows you to use whatever Design editing software you want. When you want to send a design to a machine, you simply save the design out of the Design editing software into the Watching folder, to automate the process.

- (8) To start with, make a folder on the PC to be used as a watching folder. You can name this folder whatever you want. It's suggested you keep it simple like calling it "Watching folder", or if you have multiple folders, name them by the model name of the machine.
- ④ Click the button.
- (1) Click on the "Create Watching folder" button.
- 1 Click on the Machine ID in the list to set-up.
- (2) Click on the "Edit" button to browse and select the watching folder you made for this ID.
- 1 Click on ``OK'' to assign the watching folder
 - "Delete Original Files". Check this box to automatically delete the design file in the Watching folder after it's processed. (This is recommended to clear out the Watching folder).
 - "Overwrite" Check this box if you save the same design name again, and you want to overwrite it. If you leave it unchecked, the design is not overwritten.
- (4) Click the OK button to exit the Mode option. Afterwards, DFS will start the monitoring process for the Watching folder.

[6] Other Functions

(1) Copying Designs to the Search Folder.

In Free Download Mode, the design selected in the design list can be copied to the machine reference folder. See the following procedure to copy a design.

- $(\underline{1})$ Select a design in the Design List.
- 2 Click the 1 button or you can drag & drop the design on the List of connected machines.
 - In Direct Download mode: a Copy File dialogue menu is displayed and you can select where to save the design. You can save as a .PRJ File format or All Files (*.*) to keep the original format when saving.
 - In Free Download mode, the design is saved as a .PRJ file into the registered search folder for the machine ID selected in the machine list.

(2) Saving Designs from a Machine (Automat)

The I con will be shown when an operator has sent a design to the server from the machine Automat. See the following procedure for saving designs.

- 1 Select a machine ID in the list of connected machines with an envelope icon.
- (2) Press the button and the following screen is displayed.

eceived design list (VS_oz)	1.4.4				×
		Receive		- v -	- H -
Receive Date	Design Name	Stitch Num	SIZE	1104	1145
04/06/2001 04:04:48	A01color	28808	PASS	2	2
04/06/2001 04:05:10	A02	22671			
			-н	-37	-
			+ V 555		- V -549
			+H	1108	_
					Close

 $<\,$ Fig. 3-7-9 Received Designs Saving Dialogue $\,>\,$

- ③ Select a design and click the "Receive" button to save.
- ④ Click "OK" to exit.
 - Some Automats do not have the function to send designs to the server. Please see your Automat instruction manual for more information.

(3) Deleting Designs in the Temporary Folder

All designs are automatically saved to the Temporary Folder after downloading. There are 2 automatic options for deleting. One is to delete after sewing. The other is to delete after a certain period of time. There is also an option to delete manually. See the following instructions for delete methods.

1	Click the	۲T	button.
---	-----------	----	---------

- (2) To delete designs after the machine is finished sewing, go to the "Temporary Folder", "Delete" and set "After Download" to ON.
- ③ To delete designs after a certain period of time, go to "Temporary Folder", "Delete" and set "Before ③ days" to On. Change the number in the box to the number of days you would like to save the files for.
- (4) To delete all designs manually, go to "Temporary Folder", click "Clear all files". This deletes all the designs, which have been saved except for the designs currently being sewn.
- (5) Click "OK" to save and exit.

(4) Auto Detection of Search Folders (For Direct download mode).

If you delete or add a Sub-folder to the Search Folder, the DFS program detects the changes and renews the search every 60 seconds.

- * To optimize the Design file search and automatic update function please use the following tips:
 - Do Not use an extension for the folder names.
 - Reduce the number of multiple sub-folders.
 - Do Not save files other than designs in sub-folders.
 - Do Not save too many design files in one sub-folder.
 - Use the local Hard Drive for search folders.
 - Do Not intermingle or use different disc types.

(5) Machine Property Display

This display shows information for the selected machine ID in the machine list.

Click ? to display the Machine Property. (Fig. 3-7-10)

Machine Prope	rty	-	×		
Machine ID		M001			
Operator		ТОМ			
Model	BEXS	S7N	XXXXXXX		
IP Address	192.168.1.49	Drive Condition	Cap Frame		
Free Folder C:_DESIGN					
Memo ProtoType					
Close					

< Fig. 3-7-10 Dialog of the machine property >

% The information in this display varies per machine model and DFS settings.

(6) Drive Condition Settings.

You can set the drive condition of the design to be sent to the Automat. This operation can be set per embroidery machine.

- 1 Select the embroidery machine ID from the list.
- 2 Click 5 button to display the drive condition menu.
 - (Fig. 3-7-11 Drive Condition Setting)

Drive Condition	
Drive condition pattern Cap Frame Detail Drive Condition 01: V Scale = 100 03: ROT Pattern = 3 13: Cap Frame = 1	
OK Cancel	

 $<\,$ Fig. 3-7-11 Drive Condition Setting $\,>\,$

- ③ Select a pattern from the "Drive condition pattern" drop down list and the settings for this pattern are displayed.
- (4) Click the "Detail" button if you need to change a setting. A setting menu is displayed to allow you to make changes. (Fig. 3-7-12 Detail of Drive Condition Setting)

Cap Frame	X
Drive Condition	
01:V scale	100 🚖
03 : ROT pattern	3 🚖
ОК	Cancel

 $<\,$ Fig. 3-7-12 Detail of Drive Condition Setting $\,>\,$

- * Each pattern has its specific settings that can be changed.
- (5) If needed, change a setting and then click "OK" to save the new setting.
 - Click the "Init" button to set the settings back to default.
- (6) The next design and thereafter scheduled for this machine will have the new Drive settings.
 - ※ Note: This change will have no effect on designs previously scheduled for this machine. It only has effect on designs scheduled after the change.

(7) E-mail CALL operation

When a CALL operation is done on an Automat, the contents of the CALL is sent to the registered E-mail address. (Fig. 3-7-13 Mail Function setting Screen)



Turn the E-mail function ON in the LEM Server Config settings and enter the settings for the mail server.
 See page 3-4 for starting LEM Server Config. (Fig. 3-7-14 Mail Function setting Screen)

		UserID	1 1 2 00
etwork Database FTP License 0	ther	Version	1.12.00
Mail			
Use Mail	Disuse		
SMTP server name			
Account name			
Password			
Port	0		
	Conn	ection Test	
Internet clock	Dieuce		
SNTP server name	DISUSE		
Port	0		
	Conn	ection Test	
<i></i>		2	

 $<\,$ Fig. 3-7-14 Mail Function setting Screen $\,>\,$

Item	Content			
Use Mail	To use the CALL mail distribution function, please select "Use".			
	Select Disuse for Off.			
SMTP server name	Enter the name of mail server.			
Account name	Enter the name for the mail account to be used			
Password	Enter the password for the Account name used			
Port	Enter the TCP/IP port for mail (default is 25)			
	(When outbound port 25 is blocked, trying port 587 is recommended.)			
Connection Test	Tests the connection to the mail server.			

 $<\,$ Table 3-7-4 mail function setting particle $\,>\,$

- % Please log in with Administrative rights to run this program.
- % You must close the Design File Server and AutoLogBinChanger programs, to run this program.
- ※ Please input the settings per your ISP.
- % In this version, (SSL/TSL) mail protocol with security is not supported.
- % Some ISPs may restrict this method of mail transfers. Please check with your ISP.
- % If your current mail account is not available, please try to use a free-mail service.
- % It may be necessary to specify the "Domain\" when entering the Account name.



③ Click "Create mail list" button. (Fig. 3-7-15 Mail List Screen)

Mail List			×
Mail List			
Call No	Mail Address	Message	New
			Edit
			Delete
			-
			_
			-
			_
			_
•		• · · · · · · · · · · · · · · · · · · ·	
		OK Cancel	

 $<\,$ Fig. 3-7-15 Mail List Screen $\,>\,$

New	×
Call No	•
Mail	
Message	
	OK Cancel

(4) Click the "New" button to make a new mail list. (Fig. 3-7-16 Mail List New Creation Screen)

 $<\,$ Fig. 3-7-16 Mail List New Creation Screen $\,>\,$

(5) Input the following information and click "OK":

- > CALL No. which is the number sent from the Automat
- E-mail address for that Number.
- > Message
- (6) To edit a mail list which was previously registered, select the list to be edited and click "Edit".
- ⑦ To delete a mail list which was previously registered, select the list to be deleted and click "Delete".
- (8) Click "OK" on the mail list screen to complete the registration.
- (9) When a CALL operation is done at an Automat, the mail message is sent to the registered address.
- ※ You can input multiple addresses per CALL number.
- * The CALL number and name, needs to be programmed on each machine Automat. Please refer to the instruction manual for your Automat for details.
- Not all Automats have the multiple CALL number feature. (For those Automats with only one Call option, the CALL number is treated as 0). Please refer to the instruction manual for your Automat for details.
- ※ E-mail is sent by UTF-8 encoding. Therefore, if you receive garbled text E-mails to a mobile or smart phone, please check with the phone manufacturer.

3-8. Design Viewer

Shows details of the design selected in the design list.

🔩 Design File Server (LE	EM Pro 3)				
	2 😫 🕒		FDR TFB	HAP TOO MA	EL ZSK
Serudean 		Sele	ected design	PADUDAN UM	
BARUDAN.U01 5060 st	Beq051a.u03 42274 st	Beq082a.u02 31320 st			
19 Alexandre	T Bergenslever		B	aru	dan
Beq084a.u01 40522 st	CAP.U07 14989 st	CYCLING.U01 76616 st	=00	MPUTIERIZED IEMBI	ROIDERY MACHINE =
	<u>.</u>				
DRAGON1.U04 165111 st	GBARUDAN.U08 216600 st	SKLUUZ 83140 st	1234	5 6 7 8 9 10 11	12 13 14 15 11 12 13 14 15 15
Australia State	ē	Design Info	ormation PASS	02/07/2006 14:50:57 - V - H - 1594 459 0 2	+V -H -252 -V 2 V/H -1592 +H 207 Trim Jumps 2 ÷
Skiing.U03 68676 st	Slalom.U04 42450 st	Soccer.U05 63029 st	. 🔚 🏄		
🔁 C:_lemdata (82 desi	gns)				Schedule Download Mode

[1] Name of Each Function

 $<\,$ Fig. 3-8-1 Design Viewer Screen $\,>\,$

[2] Design View

(1) Design Viewer shows the following information.

Shown Items	Description		
Selected Design	Selected Design is highlighted with a Blue outline frame.		
Color Codes	Color Codes C01 to C15 and L1 to L6 (for Chenille Machine).		
Disk Type Format	Disk Type Format Icon is displayed.		
Time Stamp	Time Stamp of selected design is displayed.		
Size & Pass	Size & Pass of selected design is displayed.		
Size (H/V)	Size of selected design from the design origin is displayed.		

 $<\,$ Table 3-8-1 The Displayed Contents of Design Viewer $>\,$

(2) Trim Jumps

Sets the numbers of jump stitches (0 to 9) where the machine will automatically make a trim.

When this parameter is changed, the selected design will be redrawn to show its effect on the design.

3-9. Machine Eraser

Design File Server will only allow on machine to be connected via LAN. Once you've connected one machine to DFS, this machine ID is registered in DFS and doesn't allow you to connect another ID. Even if the older registered ID is no longer connected. In order to register a new ID, you must delete the old one. The following instructions explain how to delete Machine IDs.

(1) Select "All Programs" > "Design File Server" > "Machine Eraser.exe" from the Windows Start menu. Start the Machine Eraser program to open the following menu. (Fig. 3-9-1).

ID	Sch	Log	Rec		ID
881				>	A01
8812					AUZ
55123 001994					A04
201234				<	A05
201					A06
202					A07
000					A08
205					A09
206					A10
207					
208			-		
•			÷.		

< Fig. 3-9-1 sewing machine Delete dialog>

Display Item	Contents
ID	Displays the registered sewing machine IDs.
Schedule	Shows the presence or absence of a design schedule for this Id. "O" means there is a schedule designs that have not yet been sent to this ID.
Log	Shows the presence or absence of unsaved log data for this ID. "O" means that there is log data from this ID that hasn't been converted yet to a BIN file. *This feature is N/A for DFS. Only applies to LEM Pro.
Receive	Shows the presence or absence of designs to be received from this ID. "O" means that there is a design that was sent from this ID, that hasn't been saved.

< Table 3-9-1 Delete dialog display contents >

- ② Select an ID from the Machine List on the left that you would like to delete.
- ③ Click the ">" button to add the selected ID to the Delete Machine list on the right.
 - Use the "<" button if you have to return an ID back to the Machine list.
- ④ Click the "Delete" button to remove the ID(s) in the Delete Machine list.
- ※ Note: As precaution, you cannot delete machine IDs that are currently connected to the network. Therefore only the IDs that are not connected show up in the Machine list above.

3-10. Version Numbers

When you click the Version Viewer Icon, the installed LEM and DLL Versions are displayed as follows. This also displays the Host IP address for the LEM server as "IP Address".



< Fig. 3-10-1 Version >

4-1. Updating Floppy Disk Driver

An additional Floppy Disk driver is available to read 2DD FDR, TFD, FMC, and ZSK formatted disks. The driver is available on the LEM Server Setup CD. The installing procedure is as follows:

- X This driver is not compatible with USB Floppy Disk Drives.
- * This driver does not have a digital signature. Therefore you cannot install it on Windows Vista 64-bit or newer (it will show an alert message on Windows Vista 32-bit).
- (1) Open the Control Panel \rightarrow and Click System. The following screen is displayed. Click Hardware \rightarrow then Device Manager. (Fig. 4-1-1).

System Properties
System Restore Automatic Updates Remote General Computer Name Hardware Advanced
Device Manager The Device Manager lists all the hardware devices installed on your computer. Use the Device Manager to change the properties of any device. Device Manager
Drivers Driver Signing lets you make sure that installed drivers are compatible with Windows. Windows Update lets you set up how Windows connects to Windows Update for drivers. Driver Signing Windows Update
Hardware Profiles Hardware profiles provide a way for you to set up and store different hardware configurations.
Hardware <u>P</u> rofiles
OK Cancel Apply

<Fig. 4-1-1 Device Manager>

② Select the "Floppy disk drive" and click the right button to open Properties. (Fig. 4-1-2).

<Fig. 4-1-2 selection of floppy disk drive>

③ Select the "Driver" tab and click "Update Driver" (Fig. 4-1-3).

4-1-4).

Floppy disk drive Properties
General Driver Details
Floppy disk drive
Driver Provider: Microsoft
Driver Date: 7/1/2001
Driver Version: 5.1.2600.0
Digital Signer: Microsoft Windows Publisher
Driver Details To view details about the driver files.
Ugdate Driver To update the driver for this device.
<u>Roll Back Driver</u> If the device fails after updating the driver, roll back to the previously installed driver.
Uninstall To uninstall the driver (Advanced).
Close Cancel

<Fig. 4-1-3 Update driver>

④ The Hardware Update Wizard will start to upgrade the device driver as shown below. Please insert the LEM Server Setup CD into the CD Drive. Select "Install from a ..." and click the "Next" button (Fig.

<Fig. 4-1-4 Start Update>

⑤ Select "Don't search. I will ..." and click the "Next" button. (Fig. 4-1-5).

Hardware Update Wizard
Please choose your search and installation options.
Search for the best driver in these locations.
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.
Search removable media (floppy, CD-ROM)
Include this location in the search:
C:\Documents and Settings\K2DELL\My Document 💉 🛛 Browse
Don't search. I will choose the driver to install
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.
< <u>B</u> ack <u>N</u> ext > Cancel

<Fig. 4-1-5 option selection>

(6) Please do not choose the device driver in the list. Click the "Have Disk" button. (Fig. 4-1-6).

Hardware Update Wizard
Select the device driver you want to install for this hardware.
Select the manufacturer and model of your hardware device and then click Next. If you have a disk that contains the driver you want to install, click Have Disk.
Show compatible hardware
Model
This driver is digitally signed. <u>Tell me why driver signing is important</u>
< <u>B</u> ack <u>N</u> ext > Cancel

<Fig. 4-1-6 Select a Device Driver>

O Select the Driver folder on the CD drive as shown below and click "OK". (Fig. 4-1-7).

Install F	rom Disk	
-	Insert the manufacturer's installation disk, and then make sure that the correct drive is selected below.	OK Cancel
	Copy manufacturer's files from:	Browse

<Fig. 4-1-7 Select Folder>

(8) The FDR drive will be listed as shown below, and click "Next". (Fig. 4-1-8).

Hardware Update Wizard	
Select the device driver you want to ins	stall for this hardware.
Select the manufacturer and model of you have a disk that contains the driver you	our hardware device and then click Next. If you want to install, click Have Disk.
Show <u>c</u> ompatible hardware	
FDR drive	
This driver is not digitally signed! <u>Tell me why driver signing is important</u>	<u>H</u> ave Disk
	< <u>Back</u> <u>N</u> ext>Cancel

<Fig. 4-1-8 Selecting a FDR driver>

(9) The following warning message will be displayed as shown in Fig. 4-1-9. Click "Continue Anyway".

<Fig. 4-1-9 warning screen>

(1) When the wizard is finished installing the "FDR drive", click "Finish" to exit. (Fig. 4-1-10).

<Fig. 4-1-10 Driver update completion>

(1) Close the Device Manager (Steps $\Im @ \bigcirc$) to exit.

When the FD driver is updated, the following formats can be read and written as listed in the table below. (Table 4-1-1).

Disk Type	Reading	Writing	Formatting
FDR	0	0	×
TFD	0	×	×
FMC	0	×	×
ZSK	0	×	×

<Table 4-1-1 operation after the driver change>

4-2. LEM System Report

This operation checks the condition of LEM DFS Server and makes a report file or compresses the data into a log file. This data for can be used for investigating issues.

- ① To run the LEM System Report go to "All Programs" > "Design File Server" > "LEM System Report".
 - X Note: You may need to run this Report with Administrative Rights using "Run as administrator".
- 2 Clicking "LEM System Report" starts the report process (Fig. 4-2-1).

reateing Report fil	e.
	-

<Fig. 4-2-1 Create system report>

③ Next, select whether to compress the file or not (Fig 4-4-2).
 Click "Yes" to make a compressed data log file or "No" to make a readable text file.

<Fig. 4-2-2 log data compression>

(4) Report file completed (Fig. 4-2-3).

<Fig. 4-2-3 report is done>

(5) The report file or compressed file will be saved in the following location.

Design File Server installation path\Info

LEM_System.txtNon-compress report file name.LEM_SystemData.7zCompressed Log data file name. (Locked by password)