Store this instruction manual in a convenient location for future reference whenever necessary. Read the instructions carefully before using the product, and operate in accordance with instructions.
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To use this product safely, please read this manual thoroughly and master its contents. Also, please implement safety education systems in your hospital. Please contact our company representatives for explanations regarding product introduction.

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Purpose, Overview and Features of the Product

Purpose and Overview

TERUFUSION Drug Library Manager (this software) is to be installed on a PC for the following use.
(1) Creating and editing of drug libraries.

Features

Drug Library Creation
- Allows you to create drug libraries for TERUFUSION Infusion Pump Type LM and TERUFUSION Syringe Pump Type SS. (Only for types with the drug library feature available.)
- Drug libraries can be operated through a process of creation, review, and approval.
- Upper and lower dosage limits, profile limitations, dosage methods, etc. can be set for a drug library.
- 3,000 allocated drugs from 3,500 drugs stored, 30 profiles, and 20 clinical advisories can be used.

Web Application System
- Users can simply log in to this software from a browser to create or amend drug libraries.

Authorization Provided to Logged in Users
- In order to prevent changes to drug libraries and system administration, rights can be provided to a user, and the scope of use can be limited.
When this software is installed on the server, drug libraries are created, and drug library files are output to data stores.

System Configuration Chart
Purpose, Overview and Features of the Product

Drug Library Creation Process

Drug libraries are generated by authorized users through a process of creation, review, and approval. Approved drug libraries are operated with pump.

* Please refer to the section “User Registration” and “User Authorization”.

![Diagram of Drug Library Creation Process]

- Authorization 5: Library edit/creation
- Authorization 6: Library review
- Authorization 7: Library approval
Screen Summary

◆ Main Screen

1. Function Tab
   Use these tabs to select one of the various software functions.
   • Drug Library
     Drug libraries can be created on this screen. Allows you to review drug library status.
   • System
     Enables you to check error messages, set history analysis periods, set backup periods, etc.
   • User
     Enables you to set and edit User ID, User Name and authorization and to initialize passwords.
   • Master
     Enables you to set pump information, profile information, clinical advisory information, and drug information for the creation of a drug library.

2. Display Log in User Information
   Displays User ID and Name of those logged in to this software.

3. Help
   Displays the instruction manual for this software.

4. Log out
   Enables you to log out of this software.
# Parts Description

## Buttons and Icons

<table>
<thead>
<tr>
<th>Name</th>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edit Button</td>
<td><img src="image" alt="Edit Icon" /></td>
<td>Clicking this button enables you to edit the selected item.</td>
</tr>
<tr>
<td>Delete/Erase Button</td>
<td><img src="image" alt="Delete Icon" /></td>
<td>Clicking this button enables you to delete the selected item.</td>
</tr>
<tr>
<td>Search Button</td>
<td><img src="image" alt="Search Icon" /></td>
<td>Clicking this button enables you to perform a search.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tool tip Button</td>
<td><img src="image" alt="Tool Tip Icon" /></td>
<td>Clicking this button will display the selected tool tip. Example</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Link exists (Same)</td>
<td><img src="image" alt="Link Icon" /></td>
<td>The settings in the current drug library are the same settings as the master drug library.</td>
</tr>
<tr>
<td>No link (Different)</td>
<td><img src="image" alt="No Link Icon" /></td>
<td>The settings in the current drug library are different to the settings in the master drug library.</td>
</tr>
</tbody>
</table>
To ensure safe and correct use of this system, please be sure to observe all precautions. Non-compliance with precautions and incorrect system use may result in damage or injury.

The following are signs used in this manual and their meanings:

**Caution**

This label preceding a precaution indicates that there will be a possible risk of personal injury or property damage if the precaution given is not complied with.

### Use

**Cautions**

**<Precautions for Use>**
- Before using this software, check the PC and all accessories. If anything is found to be functioning abnormally, do not use this software.
  [Software features may not work, or performance may decrease.]
- Ensure all data is backed up periodically to prevent loss of data due to PC or accessories attached.
- Manage data carefully to prevent unlawful use of user information.
- To delete files created by use of this software, delete them individually.
  [Files created by the user will not be deleted by uninstallation.]
- When using other software, consider influence to this software.
  [This software's features and best performance may not be given.]
- Drug libraries must be created by a specialist in pharmaceuticals.
  [This software cannot determine whether or not drug library setting are correct.]
- After editing a drug library, recheck the settings.
  [This software cannot determine whether or not drug library setting are correct.]
- When editing a drug library, consider drug types and dosage methods and set the flow rate.
  [An infusion line can be occluded by thrombus due to the incorrect flow rate.]
- Simultaneous login cannot be performed with the same User ID.
  [The user who logs in second with the same User ID becomes the valid logged in user, and it is possible that data currently being edited by the user who logged in first will not be saved.]

**<Important Basic Precautions>**
- Do not install this software in multiple PCs on the same network and use them.
  [Management of pumps used and maintenance and management (including version management) of drug library may malfunction.]
- Use this software after checking related medical products and devices.
- Only users who have thoroughly studied the instructions should use this software.
- Do not modify this software.
  [Doing so may lead to software malfunction.]

**<Interaction (using this software with other Terumo devices)>**

  **[Joint Usage Precautions]**
  - When installing this software, a pump display language must be selected that matches the pump language setting.
    [If language settings differ, drug libraries created with this software cannot be transferred to pumps.]
  - Once you start using this software, do not change the pump language setting.
    [Doing so will make it impossible to save drug libraries created with this software to pumps.]
  - Drug libraries created with this software must be transmitted with TERUFUSION Data Communicator.
    [File format interface is not guaranteed.]
  - When using TERUFUSION Data Communicator to change the save destination or communication configuration, make sure the same setting changes for this software are made.
    [File sharing etc. can no longer be done.]
Preparation

Overall Process

When using this system, refer to the following process flow. See each software's instruction manual for details.

Note
- History analysis is not available with TERUFUSION Drug Library Manager.

1. Preparation
- Confirm System Requirements (specs, PC arrangement, communication environment)
- Pump Use Drug Selection
- Shared Folder Settings (history, drug library)
- Server / User Settings
- TERUFUSION Data Communicator Settings
- Communication Configuration, Pump / Rack Settings
- Communication Environment Writing

2. Implementation
- Installation
- User Registration
- System Settings
- Master Drug Settings

3. Operation
- History Analysis
- Create Library
- Download History
- Update Library
- Operate Pump
System Requirements

Before installing this software, confirm your PC specifications, area of installation, and network environment. Your PC must meet the following system requirements.

### Server System Requirements

<table>
<thead>
<tr>
<th>[Operating System]</th>
<th>Microsoft® Windows Vista® SP2 Business 32-bit (x86) / 64-bit (x64)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Microsoft Windows Vista SP2 Enterprise 32-bit (x86) / 64-bit (x64)</td>
</tr>
<tr>
<td></td>
<td>Microsoft Windows Vista SP2 Ultimate 32-bit (x86) / 64-bit (x64)</td>
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<tr>
<td></td>
<td>Microsoft Windows® 7 Professional 32-bit (x86) / 64-bit (x64)</td>
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<tr>
<td></td>
<td>Microsoft Windows 7 Enterprise 32-bit (x86) / 64-bit (x64)</td>
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<tr>
<td></td>
<td>Microsoft Windows 7 Ultimate 32-bit (x86) / 64-bit (x64)</td>
</tr>
<tr>
<td></td>
<td>Microsoft Windows Server® 2003 R2 SP2 32-bit (x86) / 64-bit (x64)</td>
</tr>
<tr>
<td></td>
<td>Microsoft Windows Server 2008 SP2 32-bit (x86) / 64-bit (x64)</td>
</tr>
<tr>
<td>[Memory]</td>
<td>2 GB or more recommended</td>
</tr>
<tr>
<td>[CPU Clock]</td>
<td>Intel® 2 GHz or more recommended</td>
</tr>
<tr>
<td>[HDD]</td>
<td>80 GB or more free space recommended</td>
</tr>
<tr>
<td>[Device]</td>
<td>DVD-ROM drive</td>
</tr>
<tr>
<td>[Web Server]</td>
<td>Internet Information Services 6.0/7.0/7.5</td>
</tr>
</tbody>
</table>

### User

| [Memory]                           | 512 MB or more recommended                                       |
| [CPU Clock]                        | Intel 1 GHz or more recommended                                   |
| [Screen Resolution]                | 1024 x 768 pixels or more                                        |
| [Browser]                          | Internet Explorer® 8 / 9                                          |

Compatible Equipment

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Model</th>
<th>Catalogue Number</th>
<th>External Communication Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>TERUFUSION Infusion Pump Type LM</td>
<td>TE-LM800</td>
<td>TE-LM800XXX</td>
<td>Wireless LAN</td>
</tr>
<tr>
<td>TERUFUSION Syringe Pump Type SS</td>
<td>TE-SS800</td>
<td>TE-SS800XXX</td>
<td></td>
</tr>
</tbody>
</table>

(XXX = EN1, EN2, DE1, FR1, IT1, IT3, NL1, RU1, ES1, SV1, NO1, DA4, PL1, HU1, SK1)
Preparation

**Pump Use Drug Selection**

It is recommended to select target drugs before creating a drug library.

**Shared Folder Settings**

TERUFUSION Data Communicator shares drug library files with this software. A folder must be selected that can be used by each software type.

**TERUFUSION Data Communicator Settings**

Pump communication configuration must be set before using this software. Use TERUFUSION Data Communicator to set pump communication configuration. For setting methods, refer to the TERUFUSION Data Communicator Instruction Manual.
Server Settings

In order to install this software, the server role must be added in advance. Roles added with Microsoft Windows Server 2008 R2 are shown below. Screens explained in the instruction manual are shown under Microsoft Windows Server 2008 R2 system requirements.

- Application Server
- Web Server (Internet Information Services)
- File Services

◆ Adding the server role

1) Click [Start] - [Administrative Tools] - [Server Manager] The “Server Manager” screen is then displayed. Select [Add Roles] from the right side of the screen. The “Select Server Roles” screen is then displayed.

Note
- If the [Before You Begin] screen is displayed, click the [Next] button.

2) At the “Select Server Roles” screen, add a check mark to the following three roles.
- Application Server
- File Services
- Web Server (Internet Information Services)
Click the [Next] button. The “Application Server” screen is then displayed.
3) Install Application Server.
   Click the [Next] button.
   The “Select Role Services” screen is then displayed.

4) Select the following Application Server role.
   • .NET Framework 3.5.1
   Click the [Next] button.
   The “Web Server (IIS)” screen is then displayed.

5) Install Web Server (IIS).
   Click the [Next] button.
   The “Select Role Services” screen is then displayed.
6) Select the following Web Server (IIS) role.
   • Application Development
   Click the [Next] button.
   The “File Services” screen is then displayed.

7) Install File Services.
   Click the [Next] button.
   The “Select Role Services” screen is then displayed.

8) Select the following File Services role.
   • File Server
   Click the [Next] button.
   The “Confirm Installation Selections” screen is then displayed.
9) Click the [Install] button. All roles will then be installed.

10) Click the [Close] button to close the "Installation Results" screen.
◆ Installation

[Cautions]
• Please have a system administrator or someone familiar with this software to perform installation.
• Installation of this software should be performed by the user authorized as the PC Administrator.

[Note]
• When specifying a folder outside of the local drive, specification must be done according to "Universal Naming Convention (UNC)". Contact TERUMO trained service technicians for details.

1) Insert the DVD into the PC's DVD-ROM drive.

[Note]
• If the same version of the software is already installed, it will be overwritten. If an older version of the software is installed, it will be upgraded. See the onscreen instructions for details.

2) The installer will start up automatically.
   If it does not start up automatically, double click the DVD’s "setup.exe" file to start.
   A list of install run environments is displayed.
   The following run environments are installed.
   • Windows Installer 4.5 Redistributable
   • Microsoft .NET Framework 3.5 SP1
   • Microsoft Chart Controls for Microsoft .NET Framework 3.5

[Note]
• The run environment to be installed differs according to installed PC environment.

3) Click the [Install] button.
   "Microsoft Chart Controls for Microsoft .NET Framework 3.5" will be installed.

[Note]
• If Microsoft Windows Installer 4.5 is not yet installed, install it before installing this software. Restart the PC once installation is complete.
4) Click the [Next] button. The “Microsoft Software License Terms” screen is then displayed.

5) Check the [I have read and accept the license terms.] check box. The [Next] button can then be selected. Click the [Next] button. Run environment installation will begin.

6) Click the [Finish] button. The “Installation” screen is then displayed for this software.
7) Click the [Next] button. The “Supported OS and specification” screen is then displayed.

8) Click the [Next] button. The “License Agreement” screen is then displayed.

9) If you agree with the license agreement content after reading it over, select the [I accept the terms of the license agreement] button. The [Next] button can then be selected. Click the [Next] button. The “License key entry” screen is then displayed.
10) Enter the license key.
   Click the [Next] button.
   The "Enter the installation folder (1/2)" screen is then displayed.

11) Select a folder for installation.

   **Note**
   • The default install destination folder is below.
     C:\Program Files\Terumo_CQI\CQI_tool

   Click the [Next] button.
   The "Enter the installation folder (2/2)" screen is then displayed.

12) Select a folder to save user assets to.

   **Note**
   • The default user asset folder will differ by OS for Windows Server 2003, Windows Vista, and beyond.
     Windows Server 2003:
     C:\Documents and Settings\All Users\Application Data\Terumo_CQI\CQI_tool
     Windows Vista and beyond:
     C:\ProgramData\Terumo_CQI\CQI_tool

   Click the [Next] button.
   If there is not enough free space on the designated hard disk, the "Free Space Confirmation" screen is displayed.

13) Click the [OK] button.
   The "Drug library settings" screen is then displayed.
14) Select a folder for drug library to be saved to.

**Note**
- The default drug library storage folder will differ by OS for Windows Server 2003, Windows Vista, and beyond.
  - Windows Server 2003:
    - C:\Documents and Settings\All Users\Application Data\Terumo_CQI\libraryset
  - Windows Vista and beyond:
    - C:\ProgramData\Terumo_CQI\libraryset

Click the [Next] button.
The ‘Backup settings’ screen is then displayed.

15) Select a folder for backup storage.

**Note**
- The default backup storage folder will differ by OS for Windows Server 2003, Windows Vista, and beyond.
  - Windows Server 2003:
    - C:\Documents and Settings\All Users\Application Data\Terumo_CQI\backup
  - Windows Vista and beyond:
    - C:\ProgramData\Terumo_CQI\backup

Click the [Next] button.
The ‘Backup settings’ screen is then displayed.

16) Set the backup timing.
  - Click the [Next] button.
  - The ‘Language setting’ screen is then displayed.
17) Select a software display language and pump display language.

**Caution**
- Set “Pump Display Language” to the same display language for the pump to be used. If language settings differ, drug libraries cannot be wrote to pumps.

Click the [Next] button. The “Database Server Log in” screen is then displayed.

18) Enter an SQL Server® Password. Click the [Next] button. The “Start Copying Files” screen is then displayed.

**Note**
- Change password as needed according to PC user’s environment.

19) Click the [Next] button. Software installation begins. When installation ends, the “InstallShield® Wizard Complete” screen is displayed.
20) Click the [Finish] button to close the "InstallShield Wizard Complete" screen.
List of Programs to be installed

- TERUFUSION Drug Library Manager (this software)
- Microsoft .NET Framework 3.5 Service Pack 1
- Windows Installer 4.5 Redistributable
- Microsoft SQL Server 2008 R2 RTM Express
- Microsoft Chart Controls for Microsoft .NET Framework 3.5
 Changing SQL Server Settings
After this software is installed, change the SQL Server TCP/IP ports.

1) Click [Start] - [Microsoft SQL Server 2008 R2] - [Configuration Tools] - [SQL Server Configuration Manager].
   “Sql Server Configuration Manager” screen is then displayed.

   The “TCP/IP Properties” screen is then displayed.
3) Click the [IP Addresses] tab.
Delete the value shown in the [IPAll] - [TCP Dynamic Ports] text box.
Enter "1433" in the [IPAll] - [TCP Port] text box.
Click the [OK] button to close the "TCP/IP Properties" screen.

**Note**
- If the "Warning" screen is displayed, check the text box and click the [OK] button.

4) Click [SQL Server Services] and right click [SQL Server (CQITOOLSQL)]. Then select [Restart] from the menu displayed.
[SQL Server (CQITOOLSQL)] will then restart.
Starting Up Services
An explanation of how to start up "Services" for this software.

1) Click [Start] - [Administrative Tools] - [Services]. The "Services" screen is then displayed.

2) Right click [TERUFUSION software task service] then select [Start] from the menu displayed. Services will then start up for this software.
Setting Up Web Server (Internet Information Services)

An explanation of how to perform Web Server settings.

1) Click [Start] - [Administrative Tools] - [Internet Information Services (IIS) Manager].
The “Internet Information Services (IIS) Manager” screen is then displayed.

2) Right click [Default Web Site], then select [Add Application] from the menu displayed.
The “Add Application” screen is then displayed.
3) Enter the values information below for “Alias” and “Physical path”.
   Alias : TERUFUSION_SP
   Physical path : this software installation folder
   Click the [OK] button.

4) [TERUFUSION_SP] is then added to [Default Web Site].

5) Click host name at the top of the Connections and click [Restart] at the right side of the screen.
Refer to the section "Starting Up this Software".
This software is available to users through a browser, and settings for installation are unnecessary.
Uninstallation

**Caution**

- Neither history files nor drug library files are deleted with uninstallation. If deletion is necessary, please delete each file individually.

**Notes**

- When uninstalling this software, data is deleted.
- Before uninstalling this software, we recommend you backup all necessary data.

1) Click [Start] - [Control Panel].

2) Click [Programs] - [Uninstall a Program].
3) Select and right click [TERUFUSION Drug Library Manager]. Select [Uninstall] from the displayed menu.
   The “Question” screen is then displayed.

4) Click the [Yes] button.
   The uninstall process begins.
   When choosing to backup each data file, click the [No] button to cancel the uninstall process.

5) The uninstall process is performed.
   When the uninstall process ends, the “InstallShield Wizard Complete” screen is displayed.

6) Click the [Finish] button to close the “InstallShield Wizard Complete” screen.
Starting Up this Software

1) Use Internet Explorer (IE) to start up this software. Enter "http://server IP address (host name)/TERUFUSION_SP/Pages/Login.aspx" in the IE address bar, then press the [Enter] key. The "Log in" screen is then displayed.

**Note**
- Enter the IP address of the server which this software is installed to, or the host name, as the server IP address.

**Note**
- To operate this software, make sure you use the buttons within its screens. Using browser buttons for operation may result in a server error. Browser button examples:
  - Close
  - Next
  - Back
  - Refresh
Log in

◆ First-Time Log in

1) Enter the User ID and Password for first-time log in. Password characters will be displayed as [●●●●].
   "User ID"  : administrator
   "Password" : 9999
   Click the [Log in] button.
   Log in will be authorized with the User ID and Password entered.

2) The "System" screen is then displayed.
1) Enter a User ID and Password. Password characters will be displayed as ‘●’. Click the [Log in] button. You will be logged in with User ID setup authorization.

**Notes**

- If you have forgotten your password, ask your system administrator to set the password to default.
- The screen displayed after logging in will differ depending on the level of authorization for the user who logged in.
- The password is the same as the user ID unless you change the password.
Operation Procedure

◆ Change Password

1) Enter a User ID and Password. Click the [Change Password] check box. Click the [Log in] button. The "Change Password" screen is then displayed.

2) Enter your new password in the "New Password" and the "New Password again" text boxes. Click the [OK] button. The password will be changed. To cancel the password change, click the [Cancel] button.
Log out

1) Click the [Log out] button. When logging out, you'll be taken back to the "Log in" screen.

**Note**

- You cannot log out when editing.
User Registration

The “User” Screen allows you to register a login user for this software. Here you can set User ID, name, and authorization. You can also edit and delete registered user information, and initialize the password.

**Note**
- Authorization 2 is required to display the “User” screen.

◆ Displaying the User List Screen

1) Click the [User] tab.
2) The “User List” screen is then displayed.

◆ User Information Registration

1) Click the [Add] button. A line will be created for entry at the bottom of the user list.
2) Enter an "ID".
3) Enter a "Name".
4) Clicking the [Authorization] check boxes 2-7 enables the functions available to registered users.

**Note**
- Authorization 1 cannot be selected.

5) Click the [OK] button.
The “Update Confirmation” screen is then displayed. Clicking the [Cancel] button will cancel user registration.
6) Click the [OK] button.
User information will be updated.
Clicking the [Cancel] button will cancel user registration.

**Notes**
- Password is the same as the user ID before changing password.
- A password can be changed at the "Log in" screen.

◆ Editing User Information

1) Click the [Edit] button displayed on the user line to be edited.
"ID", "Name" and "Authorization" of selected user can be changed here. Click the [Initialize] check box to initialize the password.
When initializing a password, it will be changed to the User ID.

**Notes**
- Log in user information cannot be deleted.
- The [Edit] button or the [Delete] button cannot be clicked while editing user information.

2) Click the [OK] button.
The "Update Confirmation" screen is then displayed.
Click the [Cancel] button to cancel the editing process.

3) Click the [OK] button for the edited information to be applied. Click the [Cancel] button to cancel the editing process.
Operation Procedure

◆ Deleting User Information

1) Click the [Delete] button on the line of the user to be deleted. The “Deletion Confirmation” screen is then displayed.

**Note**
- Log in user information cannot be deleted.

2) Clicking the [OK] button will carry out the deletion process. Clicking the [Cancel] button will cancel the deletion process.

**Note**
- If user information was deleted by another user, that user information can no longer be edited.
User Authorization

This software allows you to set log in user authorization at the “User” screen. The tabs displayed after logging in can be altered by changing Authorizations. See the chart below for details regarding each type of authorization. One or more authorizations must be obtained by each user. Drug library authorizations are divided into browse, edit/creation, review, and approval by Authorization 4, 5, 6, and 7.

Notes

- System administration (Authorization 2) can change important settings with this software. We recommend that employees who only perform drug library tasks are not given Authorization 2.
- Graph display (Authorization 1) cannot be set on this software.

<table>
<thead>
<tr>
<th>Authorization</th>
<th>Drug Library</th>
<th>Graphs</th>
<th>System</th>
<th>User</th>
<th>Master</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Graph display (Cannot be selected)</td>
<td>×</td>
<td>○</td>
<td>×</td>
<td>×</td>
<td>×</td>
</tr>
<tr>
<td>2. System administration</td>
<td>×</td>
<td>×</td>
<td>○</td>
<td>○</td>
<td>×</td>
</tr>
<tr>
<td>3. Master data edit</td>
<td>×</td>
<td>×</td>
<td>×</td>
<td>×</td>
<td>○</td>
</tr>
<tr>
<td>4. Library browse</td>
<td>○ (browse)</td>
<td>×</td>
<td>×</td>
<td>×</td>
<td>×</td>
</tr>
<tr>
<td>5. Library edit/creation</td>
<td>○ (edit/creation)</td>
<td>×</td>
<td>×</td>
<td>×</td>
<td>×</td>
</tr>
<tr>
<td>6. Library review</td>
<td>○ (review)</td>
<td>×</td>
<td>×</td>
<td>×</td>
<td>×</td>
</tr>
<tr>
<td>7. Library approval</td>
<td>○ (approval)</td>
<td>×</td>
<td>×</td>
<td>×</td>
<td>×</td>
</tr>
</tbody>
</table>

Authorization 2 (System administration)
Operation Procedure

Authorization 3 (Master data edit)

Authorization 4 (Library browse)

Authorization 5 (Library edit/creation)

Authorization 6 (Library review)

Authorization 7 (Library approval)
The "System" screen allows you to set or check the following functions.
To update settings information, click the [Update] button.
When going to a different screen without clicking the [Update] button, updated data will be lost.

Checks
- Authorization 2 is required to display the "System" screen.
- Date and time indicated on "Server information" and "Last error status" depend on OS format.

System Screen Item List

<table>
<thead>
<tr>
<th>Display Name</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>Server information</td>
<td>Last history analysis result This software cannot select this function.</td>
</tr>
<tr>
<td></td>
<td>Last backup result Date/time and the result of latest backup</td>
</tr>
<tr>
<td>Last error status</td>
<td>History analysis error This software cannot select this function.</td>
</tr>
<tr>
<td></td>
<td>Data backup error Date/time of latest error occurring for backup</td>
</tr>
<tr>
<td></td>
<td>Other error Date/time and content of error occurring outside of backup</td>
</tr>
<tr>
<td>Library set</td>
<td>Destination to save A destination for saving drug libraries</td>
</tr>
<tr>
<td>Pump history analysis</td>
<td>Destination to read This software cannot select this function.</td>
</tr>
<tr>
<td></td>
<td>Analysis interval A destination for saving backup information and performance interval</td>
</tr>
<tr>
<td>Backup settings</td>
<td>Destination to save A destination for saving backup information and performance interval</td>
</tr>
<tr>
<td>Log file settings</td>
<td>Select a log file for output</td>
</tr>
<tr>
<td>Master data utility</td>
<td>Master Export Export a master information file (profiles, pumps, clinical advisories, drug masters)</td>
</tr>
<tr>
<td></td>
<td>Master Import Import a master information file (profiles, pumps, clinical advisories, drug masters)</td>
</tr>
</tbody>
</table>

◆ Displaying the System Screen

1) Click the [System] tab.
2) The "System" screen is then displayed.
◆ Server Information

"Server information" allows you to check results of the backup done with server.

1) "Last backup result" are displayed as "Server information".

- Last backup result: backup end time/date, result, and result message are displayed.
  The following results and result messages are displayed.
  - Result: OK: successful backup, NG (No Good): failed backup
  - Result message: result causes etc. are displayed.
◆ Last error status

‘Last error status’ displays errors that have occurred in this software, divided into data backup and other. When
ending backup or other processes normally, last error status will not be updated.

1) Data backup error and Other error are displayed in
   Last error status.

- Data backup error : backup error time/date and result message (Error cause etc.) are displayed.
- Other error      : other error time/date and result message (Error cause etc.) are displayed.
Library set

"Library set" allows you to display a save destination folder for drug libraries created with this software.

1) The save destination folder set during the installation process will be displayed at "Destination to save".

2) The save destination folder can be edited by clicking the [Destination to save] text box.

Note

- When specifying a folder outside of the local drive, specification must be done according to "Universal Naming Convention (UNC)". Contact TERUMO trained service technicians for details.
Operation Procedure

◆ Backup settings

“Backup settings” displays a backup file save destination, auto/manual options, auto backup period, and immediate backup button.

● Edit Backup File Save Destination

1) The save destination folder set during the installation process will be displayed at “Backup settings.”
2) The backup save destination folder can be edited by clicking the [Destination to save] text box.

● Quick Backup

1) Clicking the [Backup] button will immediately carry out the backup process.

● Set Backup Period

1) If backup is to be made periodically, select the [Automatic] button. It is possible to set a daily backup frequency.

Notes

• If the [Automatic] button is selected, you must assign a period.
• Daily : daily intervals + Start time
• If the [Manual] button is selected, a backup will only be created when the [Backup] button is clicked.

Note

• When specifying a folder outside of the local drive, specification must be done according to “Universal Naming Convention (UNC)”. Contact TERUMO trained service technicians for details.
◆ Log file settings

"Log file settings" displays output record of an operation log and debug log.

1) Check in the [Operation log] check box will output an operation log for this software.
2) Check in the [Debug log] check box will output an debug log for this software.

Note

- File save destination:
  User Assets Folder\log
**Master data utility**

"Master data utility" displays the import/export master information (profiles, pumps, clinical advisories, master drugs)

- **Export**

1) "Master data utility" displays "Master Export".
2) Click the [Start Export] button.
   The "export confirmation" screen is then displayed.

3) Click the [OK] button.
   The "file save destination" screen is then displayed.

**Note**
- The "file save destination" screen will differ according to which version of IE is in use.

4) Click the [Save] button.
   Master information is saved in the specified folder in CSV file format.
Operation Procedure

**Import**

1) "Master data utility" displays "Master Import".
2) Click the [Start Import] button.
   The "import file selection" screen is then displayed.

**Note**
- For import file specifications, contact TERUMO trained service technicians.

3) Select the saved file.
   Click the [OK] button.
   The import process will begin.
   Clicking the [Cancel] button will cancel the import process.

**Note**
- Once the import process has started, it cannot be canceled until it has completed.

4) When the import process is complete, the "import complete" screen is displayed.
   Click the [OK] button.

**Notes**
- When performing the import process, pre-import master information and default property will be deleted.
- The import process cannot be performed when other users are logged in.
- The import process cannot be performed when a drug library is being edited.
1) Click the [Update] button. The "Update Confirmation" screen is then displayed.

2) If you are going to update System settings, click the [OK] button. The "Update Completed" screen will then be displayed. Clicking the [Cancel] button will return you to the status before clicking the [Update] button.

3) Click the [OK] button. You will then exit the "Update Completed" screen.
Master

Master Information for creating a drug library can be set on the "Master" screen.

**Notes**

- Authorization 3 is required to display the "Master" screen.
- When creating master drugs, check the default property. Default property includes all the default values used when creating master drugs.

<table>
<thead>
<tr>
<th>Display Name</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>Profiles</td>
<td>Used to set up profile information.</td>
</tr>
<tr>
<td>Pump</td>
<td>Used to set up pump information (Colour table, Take over mode table, Advanced Dose table).</td>
</tr>
<tr>
<td>Clinical Advisories</td>
<td>Used to set up clinical advisories.</td>
</tr>
<tr>
<td>Master Drugs</td>
<td>Used to set up drug settings.</td>
</tr>
<tr>
<td>Default property</td>
<td>Used to set up master drugs default values.</td>
</tr>
</tbody>
</table>

◆ **Master Information Setup Process**

1) Profiles
2) Pump
3) Clinical Advisories
4) Default property
5) Master Drugs

**Note**

- After setting master information, use the [Drug Library] tab to create a drug library.
Profiles

“Profiles” are used to classify drug libraries, and up to 30 can be registered.

1) Click the [Master] tab.
2) Click the [Profiles] button. “Profiles” screen is then displayed.
3) For Profiles, “No.”, “Name”, “Nickname”, “Communication configuration”, “CallBack” and “Come & See Me [min]” can be set.

Notes

• For each setup value, refer to “Appendix 1: Profiles”.
• The same “Name” and “Nickname” cannot be registered more than once.
• To select a “Communication configuration” No., check the communication environment set with TERUFUSION Data Communicator in advance.
• Setting “CallBack” to “ON” activates call back function. Call back function is used with Combination Dose Mode. Contact TERUMO trained service technicians for details.
• “Come & See Me [min]” allows you to set Come & See Me function intervals. When setting a time, Come & See Me Function is enabled. Contact TERUMO trained service technicians for details.

Creating a New Profile

1) To create a new profile, click the [Add] button. A new line will be added to the bottom of the list for text entry.

Note

• If 30 profiles have already been registered, you can no longer add any by clicking the [Add] button.

2) When you have completed editing, click the [OK] button.
   Clicking the [Cancel] button will return you to the status prior to clicking the [Add] button.
Operation Procedure

● Editing a Profile

1) To edit a profile, click the [Edit] button on the line of the profile you want to edit. This will enable the editing process.
2) When you have completed editing, click the [OK] button.
   Clicking the [Cancel] button will return you to the status prior to clicking the [Edit] button.

● Deleting a Profile

1) To delete a profile, click the [Delete] button on the line of the profile you want to delete.
   The “Deletion Confirmation” screen will be displayed.
2) Click the [OK] button, and the profile will be deleted.
   Clicking the [Cancel] button will return you to the status prior to clicking the [Delete] button.
1) Click the [Update] button to update a profile. The "Update Confirmation" screen will be displayed. Clicking the [Undo] button will restore information before it was edited.

**Note**
- You must click the [Update] button to confirm information that was added, edited, or deleted.

2) Click the [OK] button. Profiles are then updated. Clicking the [Cancel] button will return you to the status prior to clicking the [Update] button.
Operation Procedure

◆ Pump

“Pump” allows you to set Colour table, Take over mode table, Advanced Dose table for the displayed Pump.

1) Click the [Master] tab.
2) Click the [Pump] button. “Pump” screen is then displayed.

Notes

- Colour table: No. 1 through to No. 16 can be set here.
- Take over mode table: Allows you to register 3 types of Take over mode.
- Advanced Dose table: With Intermittent, Multi-step, and Delayed Start dose methods together as a single set, up to 3 sets can be registered.

● Editing a Colour Table

1) Click the [Edit] button to edit a colour table. The [Colour] button can then be clicked.
2) Clicking the [Colour] button will display a colour pallet (32 colours / 3 patterns). Clicking the colour you want to edit will change the [Colour] button to that colour.
3) To end colour table editing, click the [OK] button. Clicking the [Cancel] button will return you to the status prior to clicking the [Edit] button.

● Editing the Take over mode table

1) To edit the Take over mode table, click the [Edit] button. You will then be able to edit.

Notes

- Refer to “Appendix 2: Take over mode table” for each setting value.
- For details of Take over mode table, please contact TERUMO trained service technicians.

2) To exit the edit process, click the [OK] button. Clicking the [Cancel] button will return you to the status prior to clicking the [Edit] button.
● Editing Advanced Dose table

1) To edit Advanced Dose table, click the [Edit] button on the line you want to edit. This will enable the editing process.
2) Enter each item in Intermittent, Multi-step, and Delayed Start.

**Note**

- For each setup parameters, refer to "Appendix 3: Advanced Dose table".

**Notes**

- Intermittent mode Entry

<table>
<thead>
<tr>
<th>Entry Item</th>
<th>Entry Content</th>
<th>Example (on the chart below)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Final Flow Rate</td>
<td>Sets the flow rate to be used after ON time has elapsed.</td>
<td>5.00</td>
</tr>
<tr>
<td></td>
<td>Flow rate for the Period excluding ON time.</td>
<td></td>
</tr>
<tr>
<td>Period</td>
<td>Set time to complete 1 Cycle.</td>
<td>01:00</td>
</tr>
<tr>
<td></td>
<td>The 1 Cycle consists of &quot;ON time period&quot; and &quot;Infusion period with Final Flow Rate&quot;.</td>
<td></td>
</tr>
<tr>
<td>ON time</td>
<td>Sets the Period of infusion for the flow rate when Intermittent mode begins.</td>
<td>00:30</td>
</tr>
<tr>
<td>Cycle/Step</td>
<td>Set the number of repeated cycles.</td>
<td>2</td>
</tr>
</tbody>
</table>

*When the Cycle has ended, infusion starts at the Flow Rate set in the beginning.*

*Intermittent mode Flow Rate setting at the start. (Example:10.00)*

Time at which the pump start switch was pressed

Final Flow Rate (5.00)

Period (01:00)

Period (01:00)

ON time (00:30)

Cycle/Step (2)
• Multi-step mode Entry

<table>
<thead>
<tr>
<th>Entry Item</th>
<th>Entry Content</th>
<th>Example (on the chart below)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Final Flow Rate</td>
<td>Sets the Final Flow Rate used after the Period has ended. Each step rate is</td>
<td>40.00</td>
</tr>
<tr>
<td></td>
<td>determined by the flow rate set when Multi-step mode starts, and the Final</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Flow Rate.</td>
<td></td>
</tr>
<tr>
<td>Period</td>
<td>Sets the Period of time from when the start switch is pressed to when the</td>
<td>03:00</td>
</tr>
<tr>
<td></td>
<td>Final Flow Rate starts.</td>
<td></td>
</tr>
<tr>
<td>ON time</td>
<td>Not used with Multi-step mode.</td>
<td></td>
</tr>
<tr>
<td>Cycle/Step</td>
<td>Set the number of steps. Dividing the Period by the number of steps determines</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>the time for each step.</td>
<td></td>
</tr>
</tbody>
</table>

*Infusion starts at the Final Flow Rate after the Period ends.*

*Flow Rate (30.00)

*Flow Rate (20.00)

*Multi-step mode Flow Rate setting at the start (Example: 10.00)

Time at which the pump start switch was pressed

Final Flow Rate (40.00)

Cycle/Step (3)

Period (03:00)

Time

Rate
### Operation Procedure

#### Delayed Start mode Entry

<table>
<thead>
<tr>
<th>Entry Item</th>
<th>Entry Content</th>
<th>Example (on the chart below)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Final Flow Rate</td>
<td>Sets the Final Flow Rate used after the Period has ended.</td>
<td>30.00</td>
</tr>
<tr>
<td>Period</td>
<td>Sets the time from when the start switch is pressed to when the Final Flow Rate starts.</td>
<td>03:00</td>
</tr>
<tr>
<td>ON time</td>
<td>Not used with Delayed Start mode</td>
<td></td>
</tr>
<tr>
<td>Cycle/Step</td>
<td>Not used with Delayed Start mode</td>
<td></td>
</tr>
</tbody>
</table>

#### Deleting Advanced Dose table

1) To delete Advanced Dose table, click the [Delete] button on the line you want to delete. The "Deletion Confirmation" screen will be displayed.

3) When you have completed editing, click the [OK] button. Clicking the [Cancel] button will return you to the status prior to clicking the [Edit] button.

---

![Diagram of Delayed Start mode](image)

- *Infusion starts at the Final Flow Rate after the Period ends.*
- *Final Flow Rate (30.00)*
- *Period (03:00)*
- *Delayed Start mode Flow Rate setting at the start (Example: 20.00)*

Note the start rate may be set from 0.
2) Click the [OK] button.
The selected Advanced Dose table will then be deleted.
Clicking the [Cancel] button will return you to the status prior to clicking the [Delete] button.

● Updating Pump settings

1) To update a Pump, click the [Update] button.
Clicking the [Undo] button will restore Pump information to before it was edited.
The “Update Confirmation” screen is then displayed.

Note
- You must click the [Update] button to confirm information that was added, edited, or deleted.

2) Click the [OK] button.
The pump settings are then updated.
Clicking the [Cancel] button will return you to the status prior to clicking the [Update] button.
◆ Clinical Advisories

"Clinical Advisories" allow you to register Drug Library warning messages, etc. Up to 20 can be registered, with 2 levels (2 lines per level) of text entry allowed for each clinical advisory. Up to 30 alphanumeric characters can be entered per line. Colour can be set for each message.

● Editing Clinical Advisories

1) Click the [Master] tab.
2) Click the [Clinical Advisories] button.
   “Clinical Advisories” screen is then displayed.
3) Click the [Edit] button displayed in the Clinical Advisory line you want to edit.
   This will enable the editing process.
4) Enter clinical advisories.

5) Click the [Colour] button.
   A colour table set for Pump will be displayed.
6) Clicking on a colour you want to change will set that colour to the [Colour] button.
7) Click the [OK] button.
   Clicking the [Cancel] button will return you to the status prior to clicking the [Edit] button.

● Deleting Clinical Advisories

1) Click the [Delete] button displayed in the Clinical Advisory line you want to delete.
   The “Deletion Confirmation” screen will be displayed.
2) Click the [OK] button. The selected Clinical Advisory will be deleted. Clicking the [Cancel] button will return you to the status prior to clicking the [Delete] button.
1) Click the [Update] button to update a Clinical Advisory. The "Update Confirmation" screen will be displayed. Clicking the [Undo] button will restore the information before it was edited.

**Note**
- You must click the [Update] button to confirm information that was added, edited, or deleted.

2) Click the [OK] button. Clinical Advisories will then be updated. Clicking the [Cancel] button will return you to the status prior to clicking the [Update] button.
Operation Procedure

◆ Default property

The following categories will be displayed for default property: Dose settings, Dose Mode settings (Advanced Dose Mode, Combination Dose Mode), Concentration settings, Hands Free Bolus settings, General settings.

1) Click the [Master] tab.
2) Click the [Default property] button. “Default property” screen is then displayed.

● Editing Default property

1) Click the [Edit] button to edit settings information for the desired item.
Settings information can be selected from “Only display” or “Editable”. When “Only display” is selected, you cannot edit the contents in the “Drug Library” screen.

Notes
• General settings can be set to “Only display” or “Editable” for each item.
• For setup parameters, refer to “Appendix 4: Default property”, and “Appendix 5: Unit”.

2) When you have completed editing, click the [OK] button.
Clicking the [Cancel] button will return you to the status prior to clicking the [Edit] button.
● Updating Default property

1) Click the [Update] button to update Default property editing. Clicking the [Undo] button will restore information for each item to before it was edited. The “Update Confirmation” screen is then displayed.

**Note**
- You must click the [Update] button to confirm information that was added, edited, or deleted.

2) Click the [OK] button. Default property will then be updated. Clicking the [Cancel] button will return you to the status prior to clicking the [Update] button.
◆ Master Drugs

“Master Drugs” allows you to register drugs, edit each drug property. 3,500 drugs can be registered.

1) Click the [Master] tab.
2) Click the [Master Drugs] button.

“Master Drugs’ screen is then displayed.
### Drug Registration

1) Click the [Add] button. The Property display section can then be edited.

**Notes**
- If more than one drug is registered, it will be added to the last line.
- The following content can be edited for "Property".
  - Drug name
  - Profiles settings
  - Dose settings
  - Dose Mode settings (Advanced Dose Mode, Combination Dose Mode)
  - Concentration settings
  - Hands Free Bolus setting
  - General settings

**Note**
- Default property registration content will be displayed with the value of each set item.

2) To register a drug, click the [OK] button. The ‘Registration Confirmation’ screen will be displayed. Clicking the [Cancel] button will return you to the status prior to clicking the [Add] button.

3) Click the [OK] button. The drug will be registered. Clicking the [Cancel] button will return you to the status prior to clicking the [OK] button.
Operation Procedure

● Drug name

1) Enter a drug name in the [Drug name] text box.

Note
- The same drug name cannot be registered more than once.

● Profiles settings

1) Click the check boxes for the profiles to be used. Clicking the [All Select] button will select all profiles. Clicking the [All Clear] button will clear all selected profiles.
● Dose settings

1) Clicking the [Unit] combo box will display the Unit List. Click units to be used from the Unit List. Units selected for Rate, Hard Limit range, and Soft Limit range will then be displayed.

2) Enter each item.

Note: Dose settings Entry

<table>
<thead>
<tr>
<th>Entry Item</th>
<th>Entry Content</th>
<th>Example (on the chart below)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit</td>
<td>Select a unit.</td>
<td>mL/h</td>
</tr>
<tr>
<td>Rate</td>
<td>Enter a flow rate. Flow rate displayed initially when selecting the desired drug.</td>
<td>120.00</td>
</tr>
<tr>
<td>Hard Limit range</td>
<td>Enter the maximum and minimum permitted range for the flow rate setting (lower limit, upper limit). Flow rate cannot be set to exceed the Hard Limit range.</td>
<td>10 - 500</td>
</tr>
<tr>
<td>Soft Limit range</td>
<td>Enter the flow rate setting range for a warning message (lower limit, upper limit). An alarm will sound when exceeding the Soft Limit range.</td>
<td>60 - 240</td>
</tr>
</tbody>
</table>
**Operation Procedure**

**Dose Mode settings**

1) Click [Dose Mode] boxes to be used with Advanced Dose Mode and Combination Dose Mode.
2) Click the [Table No.] combo box, and select a table to be used with Advanced Dose Mode and Combination Dose Mode.

**Notes**
- Clicking the [Tool Tip] button on the [Table No.] box will display details.
- Contact TERUMO trained service technicians for details.
**Concentration settings**

1) Clicking the [Unit] combo box will display the Concentration Unit List. Click a concentration unit to be used from the Concentration Unit List. Concentration Units selected as the units for Dilution and Soft Upper Limit will then be displayed.
2) Enter a Dilution value.
3) Enter a Soft Upper Limit value.

**Hands Free Bolus settings**

1) Enter a Soft Upper Limit value.
2) Enter a Dose Volume value.
3) Enter a Dose Time value.
**Operation Procedure**

### ● General settings

1) Select the Occlusion pressure setting from the list.
2) Enter the Patient Weight.
3) Select the Clinical Advisory No. from the list.
4) Enter the Drug Code.
5) Select the IP Disposable Brand No. from the list.
6) Select the SP Disposable Brand No. from the list.
7) Select the Colour from the table.
8) Select the Pressure Change from the list.

**Notes**
- IP: "Infusion Pump"
- SP: "Syringe Pump"
Operation Procedure

● Editing a Drug

1) Click a registered drug. The information is then displayed. Click the [Edit] button. The drug name and each item can be edited.

2) When you have completed editing, click the [OK] button. The "Edit Confirmation" screen is then displayed. Clicking the [Cancel] button will return you to the status prior to clicking the [Edit] button.

3) Click the [OK] button. The drug will be updated. Clicking the [Cancel] button will return you to the status prior to clicking the [OK] button.
**Operation Procedure**

**Searching for a Drug**

1) Enter a drug name in the [Drug Name] text box and click the [Search] button. The desired drug will then be displayed.

**Notes**

- Clicking the [Search] button will conduct a prefix search.
- Clicking the [Search] button with "Drug Name" field blank shows all drugs.
Drug Library

The “Drug Library” screen enables you to create drug library.

◆ Displaying the Library set List Screen

1) Click the [Drug Library] tab.
2) The “Library set List” screen is then displayed.

Notes

- The “Library set List” screen is only displayed for users with Authorization 4 to 7.
- Authorization 4 users can load a drug library and display a list of a drug library. However, they cannot create a drug library.

3) The “Library set List” screen is where a drug library can be created, reviewed, approved, rejected, or referenced. Drug library status is divided into: “Editing”, “Not reviewed”, “Not approved”, “Approved”, and “Reject (Editing)”. 
Operation Procedure

◆ Drug Library Registration

1) Click [Add List] button in the "Library set List" screen. A new drug library will be displayed on the list.

**Notes**

- Authorization 5 is required to create a drug library.
- If a drug library is already created, the new one will be added to the last line.
- Newly created drug libraries have "- α" attached after the new version No.

2) Click the [OK] button, and a new drug library will be created.
   Clicking the [Cancel] button will return you to the status prior to clicking the [Add List] button.

3) Click the new drug library on the list. Comments are then displayed.

4) Click the [Add Comment] button to add a comment.
   Comments can be added to the "Library set history" column.

**Note**

- One of the following status labels will automatically be registered to the comment: "Newly created.", "Submitted.", "Reviewed.", "Approved.", "Rejected.", "Newly created (reference).".

5) Click the [OK] button.
   Comments are registered.
   Clicking the [Cancel] button will return you to the status prior to clicking the [Add Comment] button.
◆ Edit Drug Library

1) Click the drug library. If the drug library is selected, the [Load] button can then be clicked. Click the [Load] button. The "Load Confirmation" screen is then displayed. Click the [OK] button. The master drug information (Library information) will be loaded to the created drug library. The "Edit Drug Library" screen will be displayed.

Note
• Authorization 5 is required to edit drug libraries.

2) On the "Edit Drug Library" screen, master drug information (library information) will be displayed for each profile. Clicking on a drug library line will display the properties set for Master Drugs.

3) Click the [Edit] button to edit drug library properties. Only the item set to "Editable" at "Default property" can be edited. The item set to "Only display" cannot be edited.

4) Enter drug library information. Click the [OK] button. The "Update Confirmation" screen is then displayed. Clicking the [Cancel] button will return you to the "Edit Drug Library" screen.

Note
• Drug Library Status

<table>
<thead>
<tr>
<th>Status Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Editing</td>
<td>The status period from when the [Add List] button is clicked, until the [Submit] button is clicked. Or when the [Refer] button is clicked for an approved drug library.</td>
</tr>
<tr>
<td>Not reviewed</td>
<td>The status period from when the [Submit] button is clicked, until the [Review] button is clicked.</td>
</tr>
<tr>
<td>Not approved</td>
<td>The status period from when the [Review] button is clicked, until the [Approve] button is clicked.</td>
</tr>
<tr>
<td>Approved</td>
<td>When the [Approve] button has been clicked.</td>
</tr>
<tr>
<td>Reject(Editing)</td>
<td>When the [Reject] button was clicked for a drug library that is in [Not reviewed] or [Not approved] status.</td>
</tr>
</tbody>
</table>
5) Clicking the [OK] button will save the information. Clicking the [Cancel] button will return you to the status prior to clicking the [OK] button.

**Note**
- If the link is broken when editing the drug library, recovery of the link is not possible, even when returning to the prior values.

6) Click the [OK] button.
The “Edit Drug Library” screen is then displayed.

7) Click the [Submit] button.
Clicking the [Submit] button enables you to change its status from "Editing" to "Not reviewed". Clicking the [Back] button will return you to the "Library set List" screen.

8) Clicking the [OK] button will change its status to "Not reviewed". Clicking the [Cancel] button will return you to the status prior to clicking the [Submit] button.
**Drug Library Review**

1) Click on a drug library labeled “Not reviewed” in the status column of the “Library set List”.

**Note**
- Authorization 6 is required to review drug libraries.

2) Click the [Load] button.
   The “Review Drug Library” screen will be displayed.

3) When you have reviewed the drug library, click the [Review] button. Clicking the [Reject] button will change the library set status from “Not reviewed” to “Reject (Editing)”, and you will be returned to the “Library set List” screen.

4) Click the [OK] button.
   The drug library status is changed from “Not reviewed” to “Not approved”.
   Clicking the [Cancel] button will return you to the status prior to clicking the [Review] button.
1) Click on a drug library labeled "Not approved" in the status column of "Library set List".

**Note**
- Authorization 7 is required to approve drug libraries.

2) Click the [Load] button.
   The "Approve Drug Library" screen will be displayed.

3) If you want to approve the drug library, click the [Approve] button.
   Clicking the [Reject] button will change the drug library status from "Not approved" to "Reject (Editing)". and you will be returned to the "Library set List" screen.

4) Click the [OK] button.
   The drug library status is changed from "Not approved" to "Approved".
   An approved drug library file will be created.
   Clicking the [Cancel] button will return you to the status prior to clicking the [Approve] button.

**Note**
- Once a drug library is approved, the "- α" is deleted from the version No.
Creating Drug Library Reference

1) Click on a drug library labeled “Approved” in the status column of “Library set List”.

2) Click the [Load] button. The “Refer Drug Library” screen will be displayed.

3) Click the [Refer] button. The “Refer Confirmation” screen is then displayed.

Note
- When the [Refer] button has been clicked, master drug information and content for approved drug libraries will be available for reference. If Master Drugs have been deleted, reference will not be available.

4) Click the [OK] button. A new drug library will be created with approved drug library content. Clicking the [Cancel] button will return you to the status prior to clicking the [Refer] button.

Note
- “-α” will be displayed after the new version No. for the created drug library to indicate reference.
Operation Procedure

◆ Drug Library File Generation

1) Click the drug library to be generated.

2) Click the [Generate file] button.
The “File Generation Confirmation” screen will be displayed.

3) Click the [OK] button.
A file will be generated for the drug library.
Clicking the [Cancel] button will return you to the status prior to clicking the [Generate file] button.

Note

- When a drug library of version number with “-α” is written to the pump, the pump display the drug library version number as FF.FF.
◆ Drug Library List

1) Click a drug library, and then click the [Load] button. The “Library set” screen will be displayed.

**Note**
- The displayed screen will differ according to drug library status when the [Load] button is clicked.

2) Click the [List preview] button. The “Drug Library List” will be displayed.

**Note**
- The “Drug Library List” screen will be displayed in another window.
<table>
<thead>
<tr>
<th>Keyword</th>
<th>Occurrence Description</th>
<th>Cause</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Troubleshooting</td>
<td></td>
<td></td>
<td>---------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Installation</strong></td>
<td>Unable to install. The current PC environment is not suitable.</td>
<td>Confirm system requirements and install this software to the appropriate PC.</td>
<td></td>
</tr>
<tr>
<td><strong>Log in</strong></td>
<td>Unable to log in. Wrong upper/lower case.</td>
<td>User ID and Password are case sensitive. Please check your registered User ID and Password and re-enter.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Forgot User ID and/or Password.</td>
<td>Please contact your system administrator. Password can be initialized at [User list]</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Unable to log in. This message is displayed: The user already exists. Continue? (The log in user will be logged out.)</td>
<td>More than one user is logged in under the same User ID.</td>
<td>This occurs when someone with the same User ID logs in. Do not log in simultaneously.</td>
</tr>
<tr>
<td><strong>Screen Display</strong></td>
<td>Text will not display. Character size, encoding, etc. has been changed.</td>
<td>Check your browser settings. • Zoom: 100% (recommended) • Character size: Medium (recommended) • Style: Regulation style • Encoding: Unicode (UTF-8) • Document direction: Left to right</td>
<td></td>
</tr>
<tr>
<td></td>
<td>The screen will not display. (fewer tabs displayed)</td>
<td>Screen authorization is not set for the log in user to view.</td>
<td>Authorization is set for displayable screens. Check with the system administrator regarding authorization for the logged in User ID.</td>
</tr>
<tr>
<td></td>
<td>Unauthorized browser operation (close screen, next, back, update to latest information, move).</td>
<td>Unauthorized browser operation (back).</td>
<td>Browser operation sometimes causes an error to occur. Only use buttons within the software screen.</td>
</tr>
<tr>
<td></td>
<td>Unauthorized browser operation (move).</td>
<td>Unauthorized browser operation (move).</td>
<td>Only use buttons within the software screen.</td>
</tr>
<tr>
<td></td>
<td><strong>&quot;Invalid URL, display terminated. Please access again.&quot; The above message is displayed.</strong></td>
<td>&quot;A session timeout occurred or the log in process was skipped. Please log in again from the Log in page.&quot; The above message is displayed.</td>
<td>A session timeout has occurred. Please log in again.</td>
</tr>
<tr>
<td><strong>Drug library file release</strong></td>
<td>The file has not output. There is no destination folder to save file.</td>
<td>Check the drug library file's save destination displayed in [System] - [Library set] - [Destination to save].</td>
<td></td>
</tr>
<tr>
<td></td>
<td>IIS user is not registered to the file's save destination folder.</td>
<td>Select the folder, go to Properties and register IIS user.</td>
<td></td>
</tr>
<tr>
<td>Keyword</td>
<td>Occurrence</td>
<td>Cause</td>
<td>Action</td>
</tr>
<tr>
<td>---------</td>
<td>------------</td>
<td>-------</td>
<td>--------</td>
</tr>
<tr>
<td><strong>Edit</strong></td>
<td>Edited data is not stored.</td>
<td>The information has not been updated.</td>
<td>After editing, click the [Update] button to update the data.</td>
</tr>
<tr>
<td></td>
<td>Unable to edit a drug library.</td>
<td>Default property is set to “Only display”.</td>
<td>Change the default property setting to “Editable”.</td>
</tr>
<tr>
<td><strong>Startup</strong></td>
<td>An error message appears when connecting to the browser.</td>
<td>A browser error has occurred.</td>
<td>Check the Server status.</td>
</tr>
<tr>
<td></td>
<td>• HTTP 400 Bad request</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• HTTP 403 Access denied</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• HTTP 404 Not found</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• HTTP 500 Internal server error</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>&quot;DB access error. Please retry connection later. If the problem persists, please contact a system administrator.&quot; The above message is displayed.</td>
<td>The SQL Server did not start up.</td>
<td>Right after starting up this software, it is possible that the SQL Server did not start up. Wait several minutes and try logging in again.</td>
</tr>
<tr>
<td><strong>Database</strong></td>
<td>Unable to save data.</td>
<td>Maximum database capacity has been exceeded.</td>
<td>Run backup and operate with a new database.</td>
</tr>
<tr>
<td></td>
<td>Backup failed.</td>
<td>File copying failed because the file to be backed up is in use by other software.</td>
<td>End software other than this software, and then try again.</td>
</tr>
<tr>
<td></td>
<td>Unable to generate backup file.</td>
<td>There is no destination folder to save file.</td>
<td>Check the backup file’s save destination displayed in [System] - [Backup settings] - [Destination to save].</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Service &quot;TERUFUSION software task service&quot; is not working.</td>
<td>Click [Start] - [ Administrative Tools] - [Service], and &quot;TERUFUSION software task service&quot; restart.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>IIS user is not registered to the file’s save destination folder.</td>
<td>Select the folder, go to Properties and register IIS user.</td>
</tr>
<tr>
<td></td>
<td>I want to use a backup file to restore data.</td>
<td></td>
<td>Contact TERUMO trained service technicians.</td>
</tr>
<tr>
<td></td>
<td>Backup files are not generated at the set time.</td>
<td>PC time has been changed, so it is inconsistent with time of final backup.</td>
<td>Click the [Update] button of the System. Click on the [Backup] button if necessary.</td>
</tr>
<tr>
<td><strong>Import</strong></td>
<td>“Import failed.” The above message is displayed.</td>
<td>The file is open.</td>
<td>First close the file, and then try to import again.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>File format is incorrect, etc.</td>
<td>Check the error details displayed in [System] - [Last error status], then take the appropriate steps.</td>
</tr>
<tr>
<td><strong>Help</strong></td>
<td>When clicking the [Help] button, the instruction manual is not displayed.</td>
<td>Unable to connect to the Server.</td>
<td>Check the Server status. Save the instruction manual to a local folder when connected with server.</td>
</tr>
<tr>
<td><strong>Disposal</strong></td>
<td>Unable to delete data.</td>
<td>Certain files are not deleted when uninstalling.</td>
<td>Uninstalling this software will not delete history files or drug library files. If you need to delete files, check the save folder and delete the desired files individually.</td>
</tr>
<tr>
<td>Keyword</td>
<td>Occurrence</td>
<td>Cause</td>
<td>Action</td>
</tr>
<tr>
<td>---------</td>
<td>-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>----------------</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Other</td>
<td>&quot;Unexpected error, operation terminated. Please log in again from the Log in page. If the problem persists, please contact a system administrator.&quot; The above message is displayed.</td>
<td>Unknown error.</td>
<td>An unknown error has occurred in this software. Contact the system administrator.</td>
</tr>
</tbody>
</table>
Setting ranges for each profile in this software are as follows.

<table>
<thead>
<tr>
<th>Display Name</th>
<th>Min</th>
<th>Max</th>
<th>Entry Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
<td>1</td>
<td>30</td>
<td>Numerals only</td>
</tr>
<tr>
<td>Name</td>
<td>1</td>
<td>24</td>
<td>Alphanumeric symbols</td>
</tr>
<tr>
<td>Nickname</td>
<td>1</td>
<td>4</td>
<td>Alphanumeric symbols</td>
</tr>
<tr>
<td>Come &amp; See Me [min]</td>
<td>OFF</td>
<td>120</td>
<td>5-minute step</td>
</tr>
</tbody>
</table>
A2: Take over mode table

The Take over mode table's setting values that can be used with this software are shown below.

<table>
<thead>
<tr>
<th>Display Name</th>
<th>Default Value</th>
<th>Min</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start time[min]</td>
<td>None</td>
<td>0</td>
<td>255</td>
</tr>
<tr>
<td>Step count</td>
<td>1</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Step time[min]</td>
<td>0</td>
<td>0</td>
<td>255</td>
</tr>
<tr>
<td>Step rate[%]</td>
<td>0</td>
<td>0</td>
<td>255</td>
</tr>
</tbody>
</table>
### A3: Advanced Dose table

Advanced Dose table values that can be set in this software are as follows.

<table>
<thead>
<tr>
<th>Display Name</th>
<th>Default Value</th>
<th>Min</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Intermittent</strong></td>
<td>Final Flow Rate (*)</td>
<td>None</td>
<td>0.00</td>
</tr>
<tr>
<td></td>
<td>Period</td>
<td>00:01</td>
<td>23:59</td>
</tr>
<tr>
<td></td>
<td>ON time</td>
<td>00:00</td>
<td>23:58</td>
</tr>
<tr>
<td></td>
<td>Cycle/Step</td>
<td>0</td>
<td>255</td>
</tr>
<tr>
<td><strong>Multi-step</strong></td>
<td>Final Flow Rate (*)</td>
<td>None</td>
<td>0.00</td>
</tr>
<tr>
<td></td>
<td>Period</td>
<td>00:00</td>
<td>23:59</td>
</tr>
<tr>
<td></td>
<td>ON time</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cycle/Step</td>
<td>0</td>
<td>10</td>
</tr>
<tr>
<td><strong>Delayed Start</strong></td>
<td>Final Flow Rate (*)</td>
<td>None</td>
<td>0.00</td>
</tr>
<tr>
<td></td>
<td>Period</td>
<td>00:00</td>
<td>23:59</td>
</tr>
<tr>
<td></td>
<td>ON time</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cycle/Step</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* [Step] 0.1 Step (0.00 - 100.00), 1 Step (100.00 - 999.00)
## Appendix

### A4: Default property

Default property values and ranges that can be set to this software are as follows.

<table>
<thead>
<tr>
<th>Display Name</th>
<th>Default Value</th>
<th>Min</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dose settings</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unit</td>
<td>mL/h</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rate (mL/h) *1</td>
<td>0</td>
<td>0.00</td>
<td>1200.00</td>
</tr>
<tr>
<td>Rate (other than mL/h) *1</td>
<td>0</td>
<td>0.00</td>
<td>999.00</td>
</tr>
<tr>
<td>Hard Limit range (mL/h) *2</td>
<td>0-1200</td>
<td>0</td>
<td>1200</td>
</tr>
<tr>
<td>Hard Limit range (other than mL/h) *2</td>
<td>0</td>
<td>0</td>
<td>999</td>
</tr>
<tr>
<td>Soft Limit range (mL/h) *2</td>
<td>0-1200</td>
<td>0</td>
<td>1200</td>
</tr>
<tr>
<td>Soft Limit range (other than mL/h) *2</td>
<td>0</td>
<td>0</td>
<td>999</td>
</tr>
<tr>
<td><strong>Dose Mode settings</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Advanced Dose Mode)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dose mode</td>
<td>Intermittent</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Multi-step</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Delayed Start</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Combination Dose Mode)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dose mode</td>
<td>Solo PiggyBack</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pair PiggyBack</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Take over mode</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Concentration settings</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unit</td>
<td>(Blank)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dilution*3</td>
<td>0</td>
<td>0.00</td>
<td>999.00</td>
</tr>
<tr>
<td>Soft Upper limit*2</td>
<td>0</td>
<td>0</td>
<td>999</td>
</tr>
<tr>
<td><strong>Hands Free Bolus settings</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Soft Upper limit*2</td>
<td>0</td>
<td>0</td>
<td>999</td>
</tr>
<tr>
<td>Dose Volume*3</td>
<td>0</td>
<td>0.00</td>
<td>999.00</td>
</tr>
<tr>
<td>Dose Time (seconds)*2</td>
<td>0</td>
<td>0</td>
<td>3600</td>
</tr>
<tr>
<td><strong>General settings</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Occlusion</td>
<td>5</td>
<td>1</td>
<td>10</td>
</tr>
<tr>
<td>Patient weight*4</td>
<td>0</td>
<td>0.0</td>
<td>300.0</td>
</tr>
<tr>
<td>Clinical Advisory No.</td>
<td>None</td>
<td>None</td>
<td>20</td>
</tr>
<tr>
<td>Drug code*5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IP Disposable Brand No.*6</td>
<td>(Blank)*7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SP Disposable Brand No.*6</td>
<td>(Blank)*7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Colour*8</td>
<td>Colour No.1 in the Colour table</td>
<td>1</td>
<td>16</td>
</tr>
<tr>
<td>Pressure Change*9</td>
<td>OFF</td>
<td>OFF</td>
<td>Level5</td>
</tr>
</tbody>
</table>

*1: [Step] 0.1 Step (0.10 - 100.00), 1 Step (100.00 - 1200.00)

*2: [Step] 1 Step

*3: [Step] 0.01 Step (0.00 - 10.00), 0.1 Step (10.00 - 100.00), 1 Step (100.00 - 999.00)

*4: Patient weight only can be set when a dose per weight unit is selected for unit (dose settings).

*5: Drug code can be set at drug master every drug.

*6: For IP Disposable Brand No., only 11: TERUMO D edicate is selectable. SP Disposable Brand No. are selectable in the range of 11 to 15 and 17 to 27.

*7: If Disposable Brand No. is not selected, the Disposable Brand No. set on the pump is enabled.

*8: Colour allows you to choose 1 colour from 16 available at the Pump Settings colour table.

*9: Pressure Change Level can be set in the range of Level 1 to Level 5.
Units for dose settings can be selected from the following chart. When selecting a unit, it will be fixed to the following categories: Rate, Hard Limit range, Soft Limit range, Soft Upper Limit (Hands Free Bolus settings), and Dose Volume.

<table>
<thead>
<tr>
<th>mL/h</th>
<th>munit/kg/min</th>
<th>mmol/kg/h</th>
<th>mg/day</th>
<th>mEq/min</th>
</tr>
</thead>
<tbody>
<tr>
<td>ng/kg/min</td>
<td>munit/kg/h</td>
<td>mmol/kg/h</td>
<td>g/min</td>
<td>mEq/h</td>
</tr>
<tr>
<td>ng/kg/h</td>
<td>munit/kg/day</td>
<td>mol/kg/min</td>
<td>g/h</td>
<td>mEq/day</td>
</tr>
<tr>
<td>ng/kg/day</td>
<td>unit/kg/min</td>
<td>mol/kg/h</td>
<td>g/day</td>
<td>mmol/min</td>
</tr>
<tr>
<td>µg/kg/min</td>
<td>unit/kg/h</td>
<td>mol/kg/day</td>
<td>munit/min</td>
<td>mmol/h</td>
</tr>
<tr>
<td>µg/kg/h</td>
<td>unit/kg/day</td>
<td>ng/min</td>
<td>munit/h</td>
<td>mmol/day</td>
</tr>
<tr>
<td>µg/kg/day</td>
<td>kunit/kg/min</td>
<td>ng/h</td>
<td>munit/day</td>
<td>mol/min</td>
</tr>
<tr>
<td>mg/kg/min</td>
<td>kunit/kg/h</td>
<td>ng/day</td>
<td>unit/min</td>
<td>mol/h</td>
</tr>
<tr>
<td>mg/kg/h</td>
<td>kunit/kg/day</td>
<td>µg/min</td>
<td>unit/h</td>
<td>mol/day</td>
</tr>
<tr>
<td>mg/kg/day</td>
<td>mEq/kg/min</td>
<td>µg/h</td>
<td>unit/day</td>
<td></td>
</tr>
<tr>
<td>g/kg/min</td>
<td>mEq/kg/h</td>
<td>µg/day</td>
<td>kunit/min</td>
<td></td>
</tr>
<tr>
<td>g/kg/h</td>
<td>mEq/kg/day</td>
<td>mg/min</td>
<td>kunit/h</td>
<td></td>
</tr>
<tr>
<td>g/kg/day</td>
<td>mmol/kg/min</td>
<td>mg/h</td>
<td>kunit/day</td>
<td></td>
</tr>
</tbody>
</table>

When selecting a unit at Dose Settings, the selectable units at Concentration Settings will change. The unit selected at Concentration Settings determines the unit of Dilution (Drug conc.) and Soft Upper Limit (Concentration settings).
### Unit selected at Dose Settings.

<table>
<thead>
<tr>
<th>Unit</th>
<th>Selectable units at Concentration Settings.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ng/kg/min</td>
<td>ng/kg/h</td>
</tr>
<tr>
<td>µg/kg/min</td>
<td>µg/kg/h</td>
</tr>
<tr>
<td>mg/kg/min</td>
<td>mg/kg/h</td>
</tr>
<tr>
<td>g/kg/min</td>
<td>g/kg/h</td>
</tr>
<tr>
<td>ng/min</td>
<td>ng/h</td>
</tr>
<tr>
<td>µg/min</td>
<td>µg/h</td>
</tr>
<tr>
<td>mg/min</td>
<td>mg/h</td>
</tr>
<tr>
<td>g/min</td>
<td>g/h</td>
</tr>
</tbody>
</table>

### Selectable units at Concentration Settings.

<table>
<thead>
<tr>
<th>Unit</th>
<th>Selectable units at Concentration Settings.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ng/mL</td>
<td></td>
</tr>
<tr>
<td>µg/mL</td>
<td></td>
</tr>
<tr>
<td>mg/mL</td>
<td></td>
</tr>
<tr>
<td>g/mL</td>
<td></td>
</tr>
</tbody>
</table>

### Unit selected at Dose Settings.

<table>
<thead>
<tr>
<th>Unit</th>
<th>Selectable units at Concentration Settings.</th>
</tr>
</thead>
<tbody>
<tr>
<td>munit/kg/min</td>
<td>munit/kg/h</td>
</tr>
<tr>
<td>unit/kg/min</td>
<td>unit/kg/h</td>
</tr>
<tr>
<td>kunit/kg/min</td>
<td>kunit/kg/h</td>
</tr>
<tr>
<td>munit/min</td>
<td>munit/h</td>
</tr>
<tr>
<td>unit/min</td>
<td>unit/h</td>
</tr>
<tr>
<td>kunit/min</td>
<td>kunit/h</td>
</tr>
</tbody>
</table>

### Selectable units at Concentration Settings.

<table>
<thead>
<tr>
<th>Unit</th>
<th>Selectable units at Concentration Settings.</th>
</tr>
</thead>
<tbody>
<tr>
<td>munit/mL</td>
<td></td>
</tr>
<tr>
<td>unit/mL</td>
<td></td>
</tr>
<tr>
<td>kunit/mL</td>
<td></td>
</tr>
</tbody>
</table>

### Unit selected at Dose Settings.

<table>
<thead>
<tr>
<th>Unit</th>
<th>Selectable units at Concentration Settings.</th>
</tr>
</thead>
<tbody>
<tr>
<td>mEq/kg/min</td>
<td>mEq/kg/h</td>
</tr>
<tr>
<td>mEq/min</td>
<td>mEq/h</td>
</tr>
</tbody>
</table>

### Selectable units at Concentration Settings.

<table>
<thead>
<tr>
<th>Unit</th>
<th>Selectable units at Concentration Settings.</th>
</tr>
</thead>
<tbody>
<tr>
<td>mEq/mL</td>
<td></td>
</tr>
</tbody>
</table>

### Unit selected at Dose Settings.

<table>
<thead>
<tr>
<th>Unit</th>
<th>Selectable units at Concentration Settings.</th>
</tr>
</thead>
<tbody>
<tr>
<td>mmol/kg/min</td>
<td>mmol/kg/h</td>
</tr>
<tr>
<td>mol/kg/min</td>
<td>mol/kg/h</td>
</tr>
<tr>
<td>mmol/min</td>
<td>mmol/h</td>
</tr>
<tr>
<td>mol/min</td>
<td>mol/h</td>
</tr>
</tbody>
</table>

### Selectable units at Concentration Settings.

<table>
<thead>
<tr>
<th>Unit</th>
<th>Selectable units at Concentration Settings.</th>
</tr>
</thead>
<tbody>
<tr>
<td>mmol/mL</td>
<td></td>
</tr>
<tr>
<td>mol/mL</td>
<td></td>
</tr>
</tbody>
</table>
This section describes the symbols (icons) used with TERUFUSION Drug Library Manager.

### Description of Symbols

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description of Symbols</th>
<th>Symbol</th>
<th>Description of Symbols</th>
<th>Symbol</th>
<th>Description of Symbols</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE</td>
<td>TERUFUSION Drug Library Manager is in conformance with the Medical Device Directive, 93/42/EEC.</td>
<td>📈</td>
<td>Consult instructions for use</td>
<td>📌</td>
<td>Notice</td>
</tr>
<tr>
<td>EC REP</td>
<td>Authorized representative in the European Community</td>
<td>☕️</td>
<td>Fragile, handle with care</td>
<td>🎉</td>
<td>Confirm</td>
</tr>
<tr>
<td>LOT</td>
<td>Batch code</td>
<td>⛃️</td>
<td>Keep dry</td>
<td>🚫</td>
<td>Impossible</td>
</tr>
<tr>
<td>REF</td>
<td>Catalogue number</td>
<td>☀️</td>
<td>Keep away from sunlight</td>
<td>📊</td>
<td>TERUFUSION Drug Library Manager</td>
</tr>
<tr>
<td></td>
<td>Date of manufacture</td>
<td>℃️</td>
<td>Temperature limit</td>
<td>📊</td>
<td>TERUFUSION Data Communicator</td>
</tr>
<tr>
<td></td>
<td>Manufacturer</td>
<td>🔥</td>
<td>Humidity limitation</td>
<td>#</td>
<td>Contents</td>
</tr>
<tr>
<td></td>
<td>Contents</td>
<td>✖️</td>
<td>Stacking limit by number</td>
<td>#</td>
<td>Contents</td>
</tr>
</tbody>
</table>
FOR INFORMATION ABOUT TERUMO PRODUCTS

• If this product should fail to perform as intended, immediately stop using the product and contact the nearest branch or sales office of TERUMO Corp.

TERUMO EUROPE N.V.
Interleuvenlaan 40
3001 Leuven, Belgium
Tel.: +32 16 38 12 11
Fax: +32 16 40 02 49

TERUMO EUROPE N.V.
BENELUX SALES DIVISION
Interleuvenlaan 40
3001 Leuven, Belgium
(Belgium)
Tel.: +32 16 39-25-80
Fax: +32 16 39-25-99
(Netherlands)
Tel.: +32 0800 0220396
Fax: +32 0800 0220414

LABORATOIRES TERUMO FRANCE S.A.
Parc Ariane
Bâtiment Uranus
1, rue Hélène Boucher
78284 Guyancourt Cedex, France
Tel.: +33 1 30 96 13 00
Fax: +33 1 30 43 60 85

TERUMO DEUTSCHLAND GmbH
Ludwig-Erhard-Strasse 6
65760 Eschborn
Germany
Tel.: +49 6196 80 23 00
Fax: +49 6196 80 23 200

TERUMO DEUTSCHLAND GmbH
ZWEIGNIEDERLASUNG SPREITENBACH
Bodenäckerstrasse 3
8957 Spreitenbach, Switzerland
Tel.: +41 56 419 10 10
Fax: +41 56 419 10 11

TERUMO EUROPE ESPANA SL
Avda. Juan Carlos I, Nº 13 - 7ª Planta,
Edificio Torre La Garena
28806 Alcalá de Henares (Madrid), Spain
Tel.: +34 902 10 12 98
Fax: +34 902 10 13 58

TERUMO ITALIA SRL
Via Simone Martini, 143/145
00142 Roma RM, Italy
Tel.: +39 0651 96 14 20
Fax: +39 0650 30 407

TERUMO SWEDEN AB
Nya Varvet, Byggnad 90
Sven Källflets Gata 18
426 71 Västra Frölunda, Sweden
Tel.: +46 3174 85 880
Fax: +46 3174 85 890

TERUMO DENMARK
FILIAL OF TERUMO SWEDEN AB
Tel.: +45 7020 93 80
Fax: +45 7020 94 80

TERUMO UK Ltd.
Tamesis, The Causeway
Egham, Surrey, TW20 9AW
United Kingdom
Tel.: +44 1784 476 200
Fax: +44 1784 476 201

TERUMO EUROPE N.V.
MOSCOW REPRESENTATIVE OFFICE
BC Northern Tower
13Fr., 10 Testovskaya Street
Moscow 123317, Russia
Tel.: +7 495 988 4740
Fax: +7 495 988 4739

TERUMO EUROPE N.V.
INTERLEUVENAAN 40, 3001 LEUVEN, BELGIUM

As of February, 2013

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