

TM2441-16

ABPM Data Manager

INSTRUCTION MANUAL

Simplified Manual



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1. Introduction

This document is a simplified manual for installation and operation of the optional software "ABPM Data Manager (TM2441-16)" for the ABPM recorders (TM2440 and TM2441). In order to understand this software and make full use of it, please read this manual thoroughly before use and keep it in an easily accessible place for future reference.

ABPM : Ambulatory Blood Pressure Monitor

2. Compliance

The software conforms to Medical Devices Directive 93/42/EEC.

This is evidenced by the CE mark of conformity accompanied by the reference number of a designated authority.

The software conforms to RoHS Directive 2011/65/EU.

3. System Requirements

Computer CPU	: 1GHz or faster processor
Memory	: 2 GB or more
Operating System	: Windows 10 (x64), Windows 11 (x64)
SVGA	: 800 x 600 pixels or more recommended
Disk	: DVD drive (Drive corresponding to enclosed media)
Hard Disk	: 24 GB available space
Printer	: Environment in which XPS format files can be printed

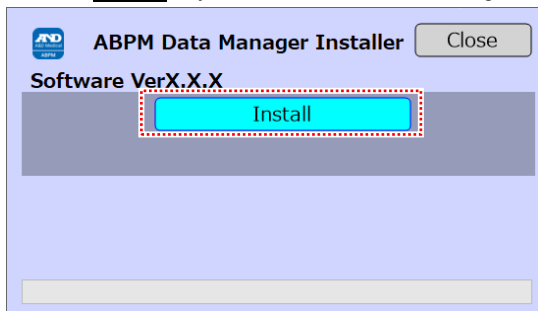
- ※ Patient / measurement data can be managed using this product database (MySQL 8.0). If MySQL is already installed, there is possibility that it will not work properly.

4. Installing the ABPM Data Manager

1. Insert the software DVD into the DVD drive on your computer and run "Setup.exe".

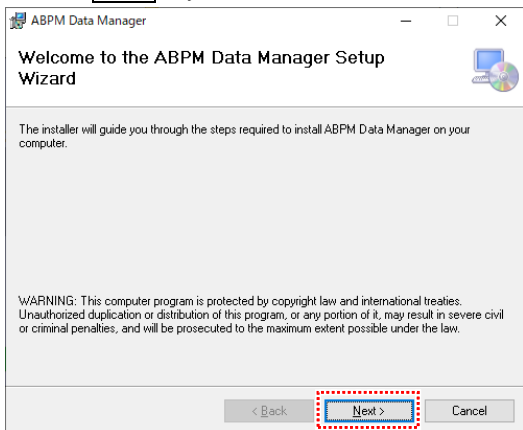
Name	Type
AND	File folder
Setup.exe	Application

2. Click the **Install** key to install the ABPM Data Manager.



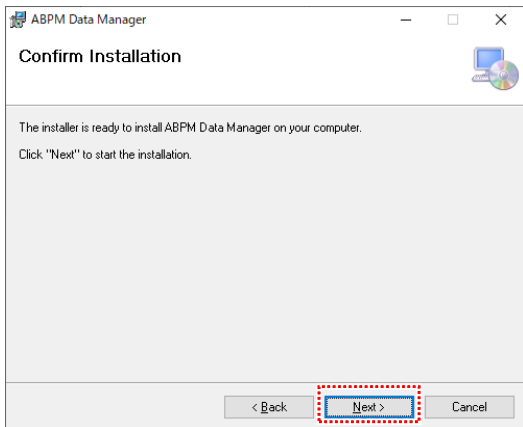
4. Installing the ABPM Data Manager

3. Click the **Next** key.

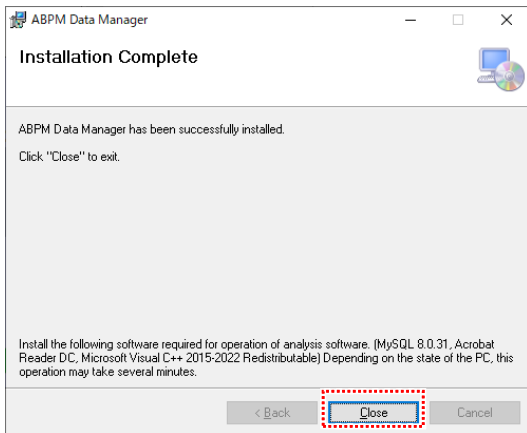


4. Click the **Next** key.

✘ If the user account control popup window appears during software installation, please allow changes to the computer.



5. Click the **Close** key on the window below after the installation is completed. Then proceed to installation of files necessary for software startup.

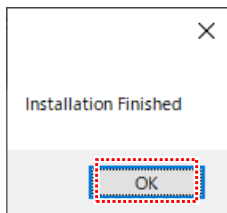


6. When the ABPM Data Manager is installed automatically, the following window is displayed. If the compatible software already exists in the computer, the software is not installed. This installation requires 10 minutes.

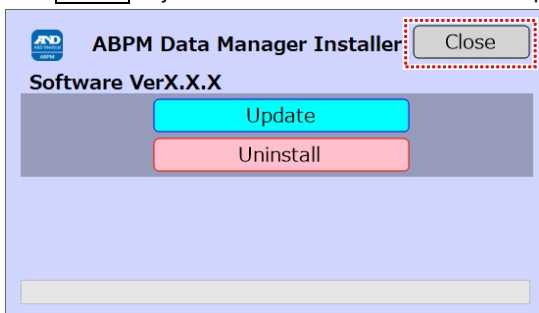
```
C:\Windows\System32\cmd.exe
===== Start Initialization =====
MySQL Installer is running in Community mode
Loading product catalog.
The product catalog has not yet been loaded. Skipping merge operation.
Initializing product requirements.
Loading product catalog.
Checking for product packages in the bundle.
Categorizing product catalog.
Finding all installed packages.
```

4. Installing the ABPM Data Manager

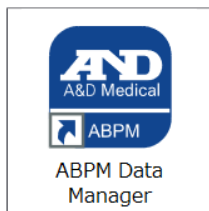
7. Click the **OK** key.



Click the **Close** key after this installation to close the installer program.



When the software installation is completed, ABPM Data Manager is installed in "C:\¥ANDTools" and the following shortcut is created on the desktop.



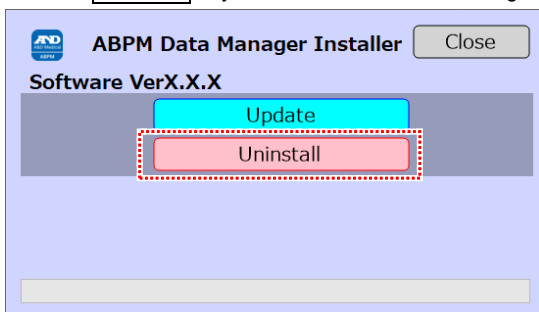
- ※ When the installer is displayed at the time of initial software startup a popup for user account control is displayed. Please allow changes to the computer if prompted.

5. Uninstalling the ABPM Data Manager

1. Insert the software DVD into the DVD drive on your computer and run "Setup.exe".



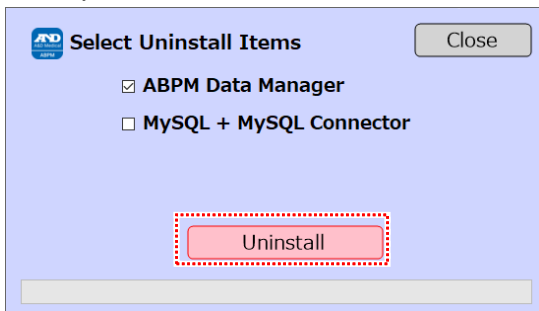
2. Click the **Uninstall** key to delete the ABPM Data Manager.



3. Specify the ABPM Data Manager. Click the **Uninstall** key.

✘ If you uninstall MySQL used by program, that may affect operation.

✘ When MySQL is uninstalled, all of the data in the database is deleted.



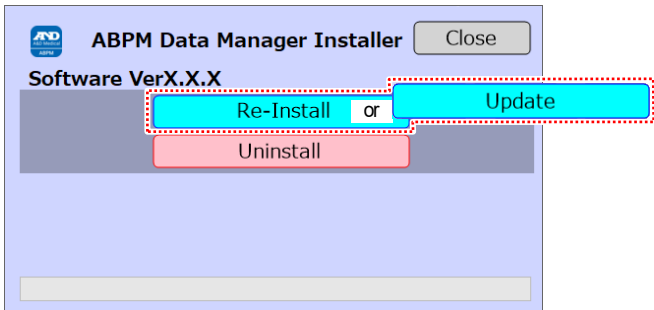
6. Reinstalling the ABPM Data Manager

✘ The last settings are reset to factory settings by reinstalling the ABPM Data Manager. Memorize last settings before reinstalling.

1. Insert the software DVD into the DVD drive on your computer and run "Setup.exe".



2. Click the **Re-install** key or **Update** key to overwrite the ABPM Data Manager.

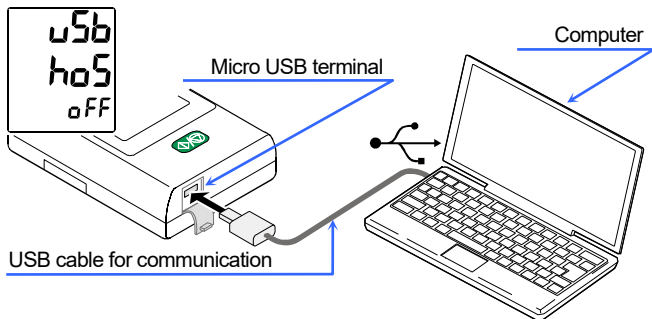


3. Proceed to step 3 at page 3.

7. Connection Procedure

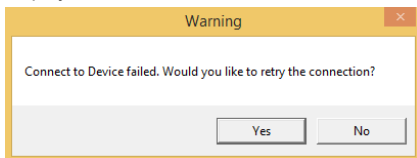
7.1. Initial Settings of the TM2440 / TM2441

1. Confirm the blood pressure measurement is stopped.
Connect the recorder to the personal computer using the USB cable.

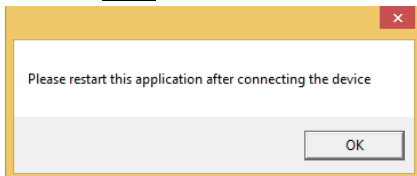


2. Run the ABPM Data Manager.

- ✘ When the software cannot communicate, the following message is displayed.

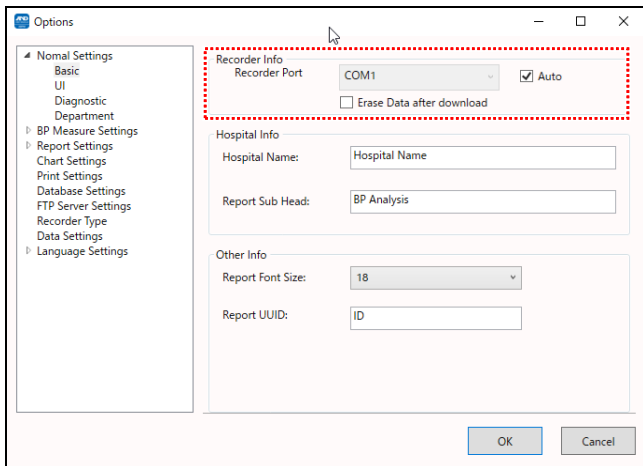


When the **NO** key is clicked, the following message is displayed.

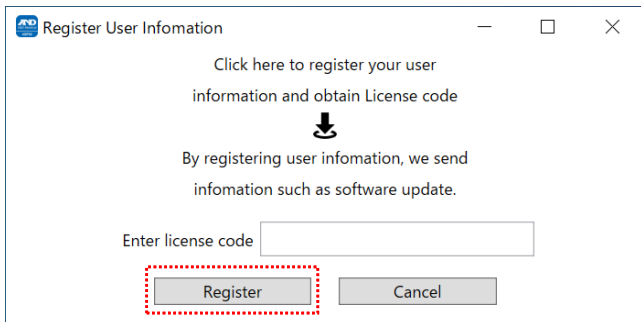


7. Connection Procedure

- ✘ The default recorder port is set to "AUTO" on the "Options" window in the factory settings. If you want to specify the recorder port to be fixed, set a port at the "Options" window.

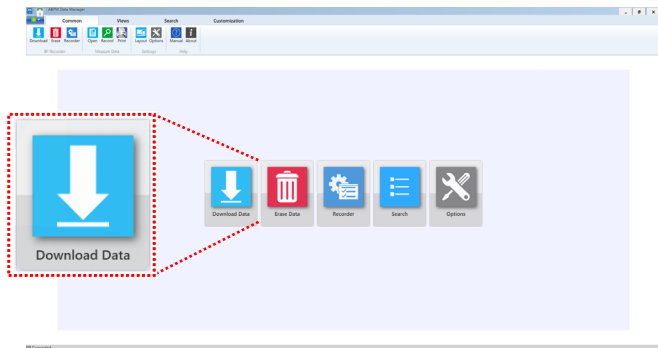


The following window is displayed when the software is activated. Input the license code obtained by the icon to the "Enter License code" field. Click the **Register** key. The following window will not be displayed from the next startup.



7.2. Downloading Data

Click the **Download** key to download data from TM2440 / TM2441 to the computer.



The "Patient Info" window will be displayed after the data download is complete.

1. If you need to identify each patient, be sure to input each person's name in the "Name" field. File management is performed with the stored content.
2. Input bedtime and wakeup time in the "Sleep Time" field for processing data.
3. Input other necessary details. Each entry data is separately saved to each record for the patient. Click the **Save** key to apply the settings and the data list window will be displayed.

7. Connection Procedure

ABPM Patient Info

File: hirose1 Date: 2018-03-07 Time: 11:00

Search by Name or No.

Basic

Name Social Insurance Medical Insurance

Telephone Outpatient No. Hospitalization No.

Details

Sex Age Height

Address Weight

Outpatient Info

Department Bed No. Insurance

Sleep Time From To Comments

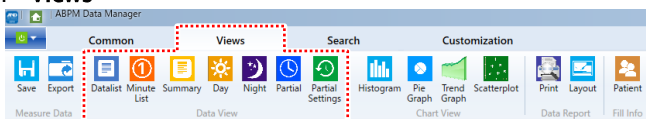
0:00~23:00

Report Comments

> PC > Win10(C:) > ANDTools >

Name	Type
Data	Folder
Language	Folder
Log	Folder
Setup	Folder
UI	Folder
zh-Hans	Folder
ABPMDDataManager.exe	Application

7.3. Views



Data List : Blood pressure measurement time, blood pressure value, pulse rate and waveform are displayed.

Minute List : The position average information for 1 minute is displayed as "x, y, z". The variation integrated value with respect to the position average information is displayed as "Activity". The average value information on temperature and pressure is displayed as "Atmospheric Temperature".

Summary : Summary of all sections.

Day : Summary at waking up.

Night : Summary at sleep.

Partial : Summary of arbitrary processing section by partial settings.

Partial Settings : All or arbitrary processing sections can be set.

Layout of Data List

1. Blood pressure measurement time, blood pressure value, pulse rate (MAP, DP are calculated values).
2. Exclusion : Measurement results with "✓" are excluded and are not reflected in graphs and report results.
3. Click to display the waveform graph corresponding to the measurement.

The screenshot shows the 'ABPM Data Manager' interface. The 'Current Data' table is displayed with the following columns: #, Date, Time, SYS, DIA, MAP, DP, PUL, Status, exclude, Wave, and Comments. The 'exclude' column contains checkboxes, and the 'Wave' column contains links to waveform graphs. A red dashed box highlights the 'exclude' and 'Wave' columns. Red arrows point from the numbered list above to these columns.

#	Date	Time	SYS	DIA	MAP	DP	PUL	Status	exclude	Wave	Comments
1	2018/03/07	11:44	104	77	86	75	73	HB--	<input type="checkbox"/>	Wave	
2	2018/03/07	11:46	104	72	82	75	73	HB--	<input type="checkbox"/>	Wave	
3	2018/03/07	12:00	***	***	***	***	***	AA 8	<input type="checkbox"/>	Wave	Pulse Err
4	2018/03/07	12:03	126	76	92	102	81	AA--	<input checked="" type="checkbox"/>	Wave	2A4_IHB_
5	2018/03/07	12:30	116	82	93	90	78	AA--	<input type="checkbox"/>	Wave	
6	2018/03/07	13:00	115	75	88	89	78	AA--	<input type="checkbox"/>	Wave	
7	2018/03/07	13:30	108	71	83	91	85	AA--	<input type="checkbox"/>	Wave	HB_
8	2018/03/07	14:00	115	82	93	87	76	AA--	<input type="checkbox"/>	Wave	
9	2018/03/07	14:30	113	77	89	99	88	AA--	<input type="checkbox"/>	Wave	
10	2018/03/07	15:00	119	76	90	90	76	AA--	<input type="checkbox"/>	Wave	
11	2018/03/07	15:30	116	81	92	80	69	AA--	<input checked="" type="checkbox"/>	Wave	PC_IHB_
12	2018/03/07	16:00	110	78	88	75	69	AA--	<input type="checkbox"/>	Wave	
13	2018/03/07	16:30	***	***	***	***	***	AA10	<input checked="" type="checkbox"/>	Wave	Motion Err
14	2018/03/07	16:32	119	78	91	89	75	AA--	<input checked="" type="checkbox"/>	Wave	MArt36_IHB_
15	2018/03/07	17:00	112	80	90	77	69	AA--	<input type="checkbox"/>	Wave	
16	2018/03/07	17:30	126	90 ↑	102	95	76	AA--	<input type="checkbox"/>	Wave	HB_
17	2018/03/07	18:00	113	81	91	77	69	AA--	<input type="checkbox"/>	Wave	
18	2018/03/07	18:30	120	98 ↑	105	90	75	AA--	<input checked="" type="checkbox"/>	Wave	MArt56_IHB_
19	2018/03/07	19:00	119	86 ↑	97	89	75	AA--	<input type="checkbox"/>	Wave	
20	2018/03/07	19:30	117	88 ↑	97	83	71	AA--	<input type="checkbox"/>	Wave	
21	2018/03/07	20:00	121	91 ↑	101	85	71	AA--	<input checked="" type="checkbox"/>	Wave	p12_
22	2018/03/07	20:30	128	94 ↑	105	84	66	AA--	<input type="checkbox"/>	Wave	
23	2018/03/07	21:00	118	85 ↑	96	73	62	AA--	<input type="checkbox"/>	Wave	
24	2018/03/07	21:30	124 ↑	85 ↑	98	76	62	AA--	<input type="checkbox"/>	Wave	
25	2018/03/07	22:00	130 ↑	91 ↑	104	72	56	AA--	<input type="checkbox"/>	Wave	
26	2018/03/07	22:30	166 ↑	100 ↑	122	102	62	AA--	<input type="checkbox"/>	Wave	

7.4. Chart View

Each list can be confirmed at "Data View" in "Views".

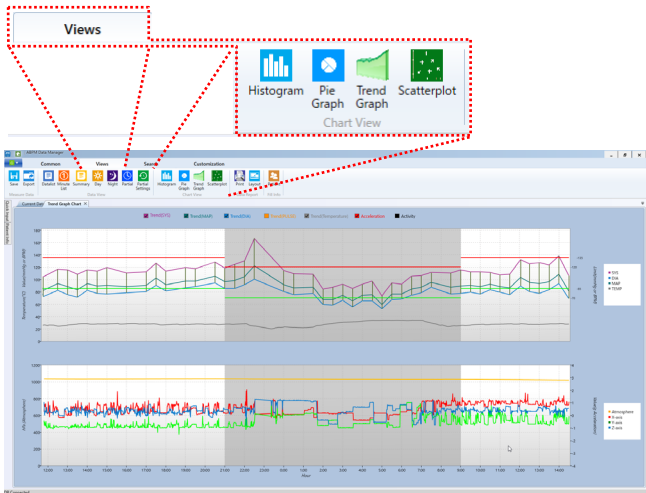
Histogram : Histogram is displayed.

Pie Graph : Pie chart is displayed.

Trend Graph : Line graph is displayed.

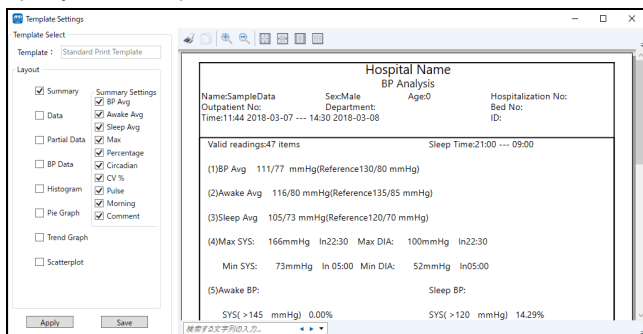
Scatter Plot : Correlation graph is displayed.

For the display of "Trend Graph", you can display the item for which the check box is marked. The graphs for acceleration and activity are exclusive, and only one of them can be displayed.



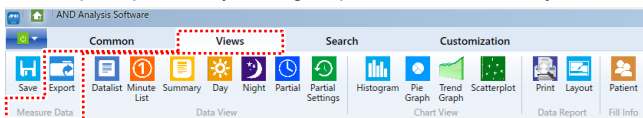
7.5. Layout

Specify items to be printed and mark the checkbox for selected items.



7.6. PDF Output

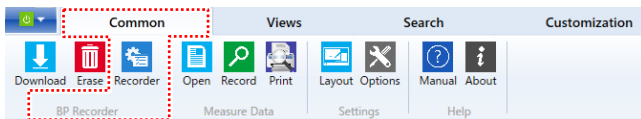
PDF output is possible by running "Export" for details set at layout.



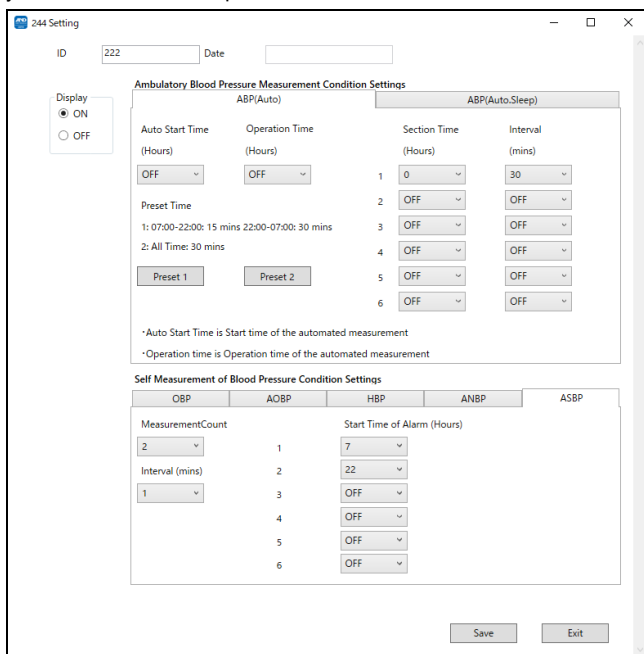
7.7. Recorder

By running the recorder, it is possible to customize the default settings for the recording data of the TM2441 series.

Refer to the TM2440 / TM2441 instruction manual for the further details.

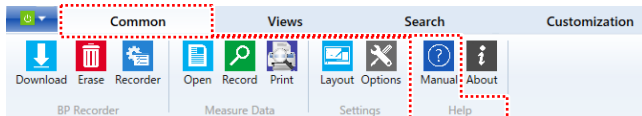


When the **Save** key is clicked, TM2441 operation mode is set to the mode selected on the tab. If you move the mouse cursor over the tab, you can check the description for each mode.



7.8. Manual

Refer to the "Manual" in the help menu about detailed methods of operations and settings concerning the software.





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