

# A&D Ambulatory Monitoring System

## Quick Start Guide

TM-2440 and TM-2441



Español



Français



# A&D

A&D Medical

[andmedical.com](http://andmedical.com)

## Step 1: Software installation

1. Scan the QR code below or go to <https://www.aandd.jp/products/medical/professional/abpm.html> to fill out the registration and download the software.



2. When the .zip file is done downloading (this may take a few minutes):

- 2a. Double click on the file



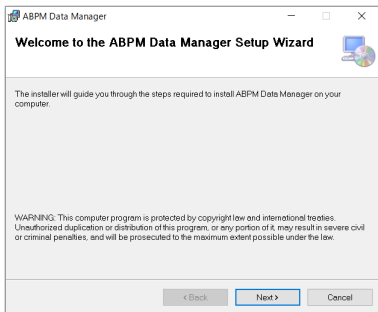
- 2b. Next, double click on the folder inside.



- 2c. Double click on Setup.exe file




3. Follow the guided instructions. This may take a few minutes.

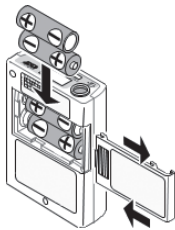


4. To open the application, navigate to your desktop and double click the A&D Medical **ABPM Data Manager** icon. If it is not on your desktop, search for **ABPM Data Manager** in recently installed programs.



## Step 2: Inserting the batteries

1. Open the battery cover.
2. Refer to the  symbol inside the battery compartment. Insert two new AA batteries into the proper “+” and “-” direction.
3. Close the battery cover.

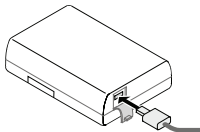


### Battery Tips

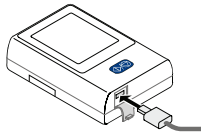
1. New AA batteries will last approximately 200 measurements. This varies depending on the quality of batteries used and operating temperatures.
2. There is an internal coin cell battery that will retain measurement results and clock settings if the AA batteries die. This is charged by new AA batteries.
3. During first use or if monitor is stored for a month or longer, replace AA batteries and leave in for at least 48 hours. This will recharge the internal coin cell battery. The monitor CAN be used during this time.

## Step 3: Connecting the monitor

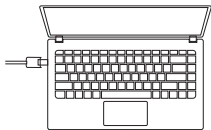
1. Connect the micro USB cable between the monitor and computer.



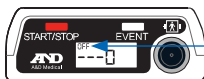
TM-2440



TM-2441



2. The buzzer will sound and **OFF** appears on the OLED display. The monitor enters its standby mode.



Standby Mode

## Step 4: Programming the monitor

1. The first time the software launches, you will be prompted to enter your license code that you received by email when you registered. Then press the Register button.

2. Click on **Recorder** icon.



3. Select settings for a new ABPM study. Once complete, select **Save**. The device is now programmed.


**Toggle ABPM Display**  
Select OFF to hide the display during the study or ON to allow it to be visible.

**Schedule Start Time**  
Check the Auto Start and Auto Stop checkboxes, then select the date and time for each.

**Interval Settings**  
From 13:00 to 19:00 --> 30 minute intervals  
From 19:00 to 13:00 --> 60 minute intervals

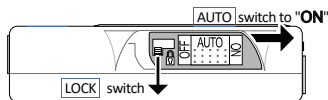
Section	Section Time (Hours)	Interval (mins)
1	13	30
2	19	60
3	OFF	OFF
4	OFF	OFF
5	OFF	OFF
6	OFF	OFF

4. Disconnect the micro USB cable from the device.

5. Turn the ABPM function ON. For the TM-2440 only, press and hold **Event** for at least three seconds. The  icon should appear on the display. For the TM-2441 only, slide the **Auto Switch** to ON, then lock it.



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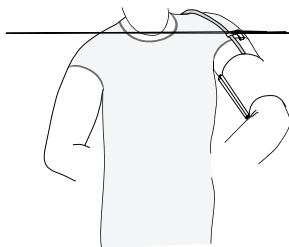
TM-2441

## Step 5: Prepare the patient

1. Wrap the cuff around the patient's upper arm (refer to below cuff guide).

0.5" (1-2 cm)

2. Position tube around the back of the neck and attach monitor to the belt loop. ~~Clip the tube to the undershirt. If user does not have undershirt,~~ tape to skin. Wrap the belt loop around waist. Fasten the air plug from the air hose into the air socket. Secure monitor into the carrying case.



3. Press the **START/STOP** button on the top of the device to start the first measurement. The programmed intervals will automatically begin.

## Patient Tips

### DO

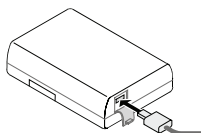
1. When inflation begins, relax arm, stay still and quiet.
2. Ensure the tube is not compressed or kinked.
3. Track your bed time and awake time then report to clinician.

### DO NOT

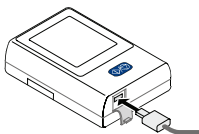
1. Operate heavy machinery. Vibrations may disrupt measurements.
2. Remove batteries during session.
3. Drop or shock the device.
4. Expose the device to rain or water.
5. Arrange the cuff hose around your neck during sleep.

## Step 6: Downloading the data

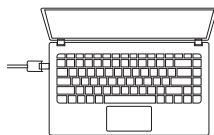
1. After the study is complete, connect the micro USB cable between the monitor and computer. **Please ensure you are using the cable that came with your monitor.**



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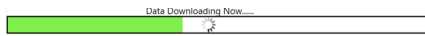
TM-2441



2. Open the A&D Medical **ABPM Data Manager** application from your computer.



3. Click the **Download** icon. The download will begin.



- Enter the patient information, including accurate sleep information. The reporting is based on this sleep input.

## Step 7: Reviewing data and printing report

- After saving the patient information, the study measurements will appear.

#	Date	Time	SYS	DIA	MAP	DP	PUL	Status	Exclude	Comments
1	2018/03/07	11:44	104	77	86	75	73	HB--	<input type="checkbox"/>	
2	2018/03/07	11:46	104	72	82	75	73	HB--	<input type="checkbox"/>	
3	2018/03/07	12:00	***	***	***	***	***	AA 8	<input checked="" type="checkbox"/>	Pulse Err
4	2018/03/07	12:03	126	76	92	102	81	AA--	<input type="checkbox"/>	IHB
5	2018/03/07	12:30	116	82	93	90	78	AA--	<input type="checkbox"/>	
6	2018/03/07	13:00	115	75	88	89	78	AA--	<input type="checkbox"/>	
7	2018/03/07	13:30	108	71	83	91	85	AA--	<input type="checkbox"/>	IHB
8	2018/03/07	14:00	115	82	93	87	76	AA--	<input type="checkbox"/>	
9	2018/03/07	14:30	113	77	89	99	88	AA--	<input type="checkbox"/>	
10	2018/03/07	15:00	119	76	90	90	76	AA--	<input type="checkbox"/>	
11	2018/03/07	15:30	116	81	92	80	69	AA--	<input type="checkbox"/>	IHB
12	2018/03/07	16:00	110	78	88	75	69	AA--	<input type="checkbox"/>	
13	2018/03/07	16:30	***	***	***	***	***	AA10	<input checked="" type="checkbox"/>	Motion Err
14	2018/03/07	16:32	119	78	91	89	75	AA--	<input type="checkbox"/>	IHB
15	2018/03/07	17:00	112	80	90	77	69	AA--	<input type="checkbox"/>	
16	2018/03/07	17:30	126	90	102	95	76	AA--	<input type="checkbox"/>	IHB

- To generate report, click the **Layout** icon on the top menu.



### 3. Customize your report by selecting and deselecting items in the report layout. Click **Apply** and **Save** to set layout for future report generation.

**Template Settings**

Template Select  
 Template: Standard Print Template

Layout

Summary

Data

Partial Data

BP Data

Histogram

Pie Graph

Trend Graph

Summaryplot

Send Graph Settings

Accretion/loss

Activity

Summary Settings

of BP Avg

Awake Avg

of Min

of Max

of Circum

of %P

of PUL

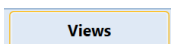
Missing

Comment

Apply Save

4A. Click on the **Print** icon to print results.

4B. To save as .PDF, choose **Views**. Then, click on the **Export** icon. Choose the file location and file name. Click Save As. It will automatically generate a .CSV and .PDF file and save it in the selected file location.



Hospital Name			
Name/patient	Sec	Age	Hospitalization no.
Outpatient No. 0101144	Department: 01	Bed No. 01	Order: 144-2019-01-01
Valid readings(35 items)			
Sleep Time(100 --- 0000)			
[1]BP Avg 115/78 mmHg(Reference:130/80 mmHg)			
[2]Awake Avg 117/81 mmHg(Reference:130/80 mmHg)			
[3]Sleep Avg 101/70 mmHg(Reference:120/70 mmHg)			
MMAP SYS 165mmHg	MAP210	Min Dia: 105mmHg	MAP232
Min SYS 72mmHg	Min DIA: 52mmHg	MAP200	
[4]Awake BP			
SYS +135 mmHg 5.13%			
SYS +120 mmHg 11.20%			
DIA +85 mmHg 25.00%			
DIA +70 mmHg 60.67%			
[5]Circadian Rhythms(blood pressure drop at night &42%			
Circadian blood pressure drop at night: 27.7% (Reference:0% -30%)			
[7CV]			
AB/VS 18.28 %			
DIA 18.32 %			
Awake SYS 7.07 %			
DIA 8.57 %			
Sleep SYS 18.57 %			
DIA 18.15 %			
BP/Rate Rate			
AB/VS_Avg 71			
MAX 96			
MIN 55			
[5]mmHg/min			
AwakePUL_Avg 76			
MAX 88			
MIN 66			
[5]mmHg/min			
SleepPUL_Avg 64			
MAX 86			
MIN 55			
[5]mmHg/min			
[8]Morning blood pressure(11/70)Sleep BP in the first two hours after awakening			
Normal reference value: 135mmHg / 85mmHg			
Comment			
Reported:		2020-12-4	
A&D Co., Ltd. All rights reserved			

Hospital Name			
Name/patient	Sec	Age	Hospitalization no.
Outpatient No. 0101144	Department: 01	Bed No. 01	Order: 144-2019-01-01
# Date			
1	2018/01/07	11:44	77
2	2018/01/07	11:46	78
3	2018/01/07	12:03	76
4	2018/01/07	12:30	116
5	2018/01/07	13:00	133
6	2018/01/07	13:30	106
7	2018/01/07	14:00	113
8	2018/01/07	14:30	115
9	2018/01/07	15:00	110
10	2018/01/07	16:00	119
11	2018/01/07	17:00	126
12	2018/01/07	18:00	120
13	2018/01/07	19:00	115
14	2018/01/07	20:00	121
15	2018/01/07	21:00	118
16	2018/01/07	22:30	146
17	2018/01/08	00:00	114
18	2018/01/08	00:30	106
19	2018/01/08	01:00	114
20	2018/01/08	01:30	108
21	2018/01/08	02:00	84
22	2018/01/08	03:00	87
23	2018/01/08	04:00	92
24	2018/01/08	05:00	97
25	2018/01/08	05:30	81

