

A&D Ambulatory Monitoring System

Quick Start Guide

TM-2440 and TM-2441



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



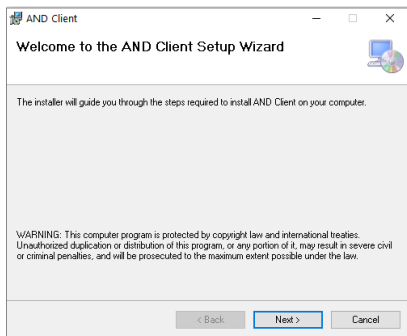
- 2b. Next, double click on the folder inside.



- 2c. Double click on Setup.exe file




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

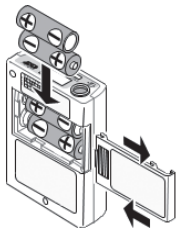


4. To open the application, navigate to your desktop and double click the **A&D Medical ABPM Data Manager icon**. If it is not on your desktop, search for **AND Client** in recently installed programs.



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.

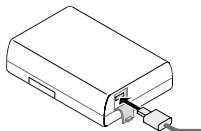


Battery Tips

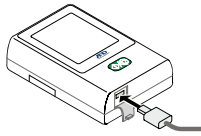
1. New AA batteries will last approximately 200 measurements. This varies depending on the quality of batteries used and operating temperatures.
2. There is an internal coin cell battery that will retain measurement results and clock settings if the AA batteries die. This is charged by new AA batteries.
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

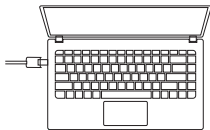
1. Connect the micro USB cable between the monitor and computer.



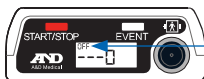
TM-2440



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.

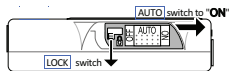
Interval Settings
From 13:00 to 19:00 --> 30 minute intervals
From 19:00 to 13:00 --> 60 minute intervals

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.



TM-2440



TM-2441

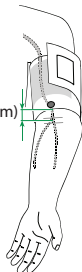
Step 5: Prepare the patient

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

Have room to
insert two fingers

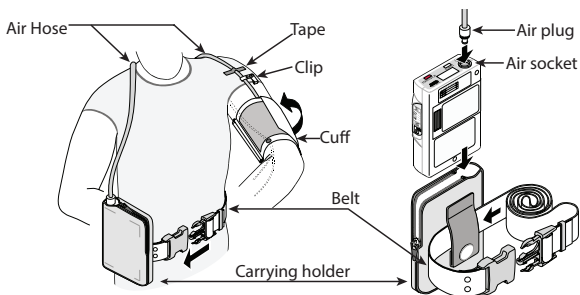


0.5" (1-2 cm)



Part Number	Cuff	Size
TM-CF202A	Small Cuff	5.9-8.7" (15-22 cm)
TM-CF302A	Medium Cuff	7.8-12.2" (20-31 cm)
TM-CF402A	Large Cuff	11.0-15.0" (28-38 cm)
TM-CF502A	Extra Large Cuff	14.2-19.7" (36-50 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

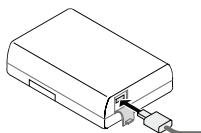
1. When inflation begins, relax arm, stay still and quiet.
2. Ensure the tube is not compressed or kinked.
3. Track your bed time and awake time then report to clinician.

DO NOT

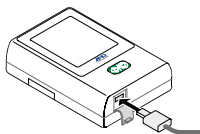
1. Operate heavy machinery. Vibrations may disrupt measurements.
2. Remove batteries during session.
3. Drop or shock the device.
4. Expose the device to rain or water.
5. Arrange the cuff hose around your neck during sleep.

Step 6: Downloading the data

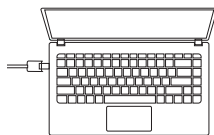
1. After the study is complete, connect the micro USB cable between the monitor and computer. **Please ensure you are using the cable that came with your monitor.**



TM-2440



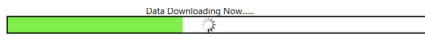
TM-2441



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. Ensure to enter accurate sleep information. **The reporting is based on this sleep input.**

Patient Info

File: _____ Date: 2021-02-01 Time: 17:00

Search by Name or Social 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

Report Comments

Reset Save Save and Print Cancel

Step 7: Reviewing data and printing report

- The datalist for all measurements appear.

Common Views Search Customization

Save Export Datalist Minute List Summary Day Night Partial Partial Settings Histogram Pie Graph Trend Graph Scatterplot Print Layout Patient

Measure Data Data View Data Report Filter Info

#	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 enter a comment, double click here and enter comment

To manually exclude a measurement from the report, click on the box and a check mark will appear

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

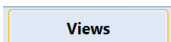


3. Customize your report by selecting and deselecting items in the report layout. Click **Apply** and **Save** to set layout for future report generation.

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			
BP Data		Hospitalization No.	
Name/patient	Sec	Age	ICD
Outpatient No. 1402-2018-02-07	Department 1402-2018-02-08	Bed No. 02	ICD
Valid readings(35 items)			
Sleep Time(100 --- 0000)			
[1]BP Avg 115/78 mmHg[Reference(130/85 mmHg)]			
[2]Wake Avg 117/81 mmHg[Reference(130/85 mmHg)]			
[3]Sleep Avg 101/72 mmHg[Reference(120/70 mmHg)]			
Max SYS 160mmHg	Max DIA 105mmHg	Max DIA 105mmHg	Max DIA 102-32
Min SYS 72mmHg	Min DIA 52mmHg	Min DIA 52mmHg	Min DIA 50-00
[Circulation] Sleep 6h			
SYS < 135 mmHg 5.31%			
SYS < 120 mmHg 13.06%			
DIA < 85 mmHg 25.00%			
DIA < 70 mmHg 60.67%			
[Circulation] Hypotension: blood pressure drop at night 8.42%			
[Circulation] Blood pressure drop at night 3.73% [Reference(0% - 30%)]			
[CV%]			
ABV% 18.28 % DIA 13.32 %			
Awake SYS 7.07 % DIA 6.57 %			
Sleep SYS 18.57 % DIA 16.15 %			
[BP Rate Rate]			
ABV/Avg 71 MAX 96 MIN 55 (Stim/night)			
Awake P/A/Avg 76 MAX 88 MIN 66 (Stim/night)			
Sleep P/A/Avg 64 MAX 86 MIN 55 (Stim/night)			
[Morning blood pressure] 111/70mmHg BP in the first two hours after awakening			
Normal reference value 135mmHg / 85mmHg			
Comment			
Reported:		2020-12-4	

Hospital Name			
BP Data		Hospitalization No.	
Name/patient	Sec	Age	ICD
Outpatient No. 1402-2018-02-07	Department 1402-2018-02-08	Bed No. 02	ICD
4	Date	Time	SYS DIA MAP DP P/A Status
1	2018/03/07	11:44	84 77 86 79 73 108
2	2018/03/07	11:46	86 72 82 72 73 108
3	2018/03/07	12:03	116 76 92 102 81 AA -H8
4	2018/03/07	12:30	116 82 93 90 78 AA--
5	2018/03/07	13:00	133 75 88 78 AA--
6	2018/03/07	13:30	108 71 83 81 85 AA -H8
7	2018/03/07	14:00	113 62 83 87 76 AA--
8	2018/03/07	14:30	113 77 89 89 88 AA--
9	2018/03/07	15:00	119 76 89 82 76 AA--
10	2018/03/07	15:30	119 76 89 82 76 AA--
11	2018/03/07	15:35	125 81 82 88 AA--H8
12	2018/03/07	16:00	110 78 88 78 69 AA--
13	2018/03/07	16:30	119 76 91 89 75 AA--H8
14	2018/03/07	17:00	132 80 96 72 69 AA--
15	2018/03/07	17:30	126 90 72 89 76 AA--H8
16	2018/03/07	18:00	120 96 105 90 75 AA -H8
17	2018/03/07	18:30	120 96 105 90 75 AA -H8
18	2018/03/07	19:00	115 88 97 88 78 AA--
19	2018/03/07	19:30	117 88 97 88 78 AA--
20	2018/03/07	20:00	121 91 101 89 71 AA--
21	2018/03/07	20:30	128 94 103 84 66 AA--
22	2018/03/07	21:00	118 85 94 76 67 AA--
23	2018/03/07	21:30	134 1 85 98 76 62 AA--
24	2018/03/07	22:00	101 91 104 72 66 AA--
25	2018/03/07	22:30	146 1 100 112 102 142 AA--
26	2018/03/07	23:00	136 105 118 115 96 AA -H8
27	2018/03/08	00:00	114 80 101 85 71 AA--
28	2018/03/08	00:30	109 75 84 88 83 AA--
29	2018/03/08	01:00	114 79 84 84 84 AA--
30	2018/03/08	01:30	108 77 87 82 66 AA--
31	2018/03/08	02:00	84 1 59 67 52 62 AA--
32	2018/03/08	02:30	87 1 58 67 51 62 AA--
33	2018/03/08	03:00	87 66 74 67 62 AA--
34	2018/03/08	03:30	85 65 72 62 62 AA--
35	2018/03/08	04:00	92 65 74 52 57 AA--
36	2018/03/08	04:30	97 65 75 57 57 AA--
37	2018/03/08	05:00	73 62 69 64 64 AA--
38	2018/03/08	05:30	81 67 75 52 56 AA--

