A&D Ambulatory Monitoring System

Quick Start Guide TM-2440 and TM-2441









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Step 1: Software installation

 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.

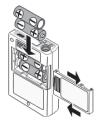


4. To open the application, navigate to your desktop and double click the A&D Medical ABPM Data Manager icon. If it is not on your desktop, search for ABPM Data Manager in recently installed programs.



Step 2: Inserting the batteries

- 1. Open the battery cover.
- 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

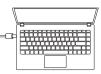
- 1. New AA batteries will last approximately 200 measurements. This varies depending on the quality of batteries used and operating temperatures.
- 2. There is an internal coin cell battery that will retain measurement results and clock settings if the AA batteries die. This is charged by new AA batteries.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

- 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.



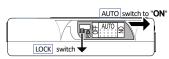
3. Select settings for a new ABPM study. Once complete, select **Save.** The device is now programmed.

6	244 Setting	Toggle ABPM I Select OFF to h during the stud allow it to be vi	ide the display ly or ON to		
	Ambulatory Blood Pressure Measurer	ment Condition Settings			
Schedule	ABP(Auto)			ABP(Auto.Sleep)	
Start Time	✓ Auto Start Time		Section Time	Interval	Interval
Check the Auto Start	11/18/2021 15 V (Hours)	5 ~ (mins)	(Hours)	(mins)	Settings
and Auto Stop	🗹 Auto Stop Time		1 13 ×	30 ~	From 13:00 to 19:00>
checkboxes,	11/19/2021 15 16 ~ (Hours)	6 ~ (mins)	2 19 ×	60 ~	30 minute
then select	Preset Time		3 OFF ~	OFF ~	intervals
the date and time for each.	1: 07:00-22:00: 15 mins 22:00-07:00: 30 r	nins	4 OFF ~	OFF ~	From 19:00 to 13:00>
	2: All Time: 30 mins		5 OFF ~	OFF ~	60 minute
	Preset 1 Pres	set 2	6 OFF ~	OFF ~	intervals

- 4. Disconnect the micro USB cable from the device.
- 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



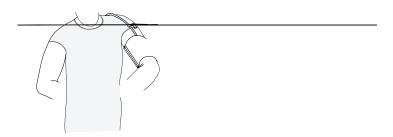


Step 5: Prepare the patient

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

0.5″ (1-2 cm)

 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.



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.

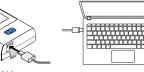
DO NOT

- 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.



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

	ient Info					-	×
File: SampleData			Date: 2018-03-07		Time: 11:00		
earch b	by Name or So	cial No.	SampleData				
Basic -							
	Name	SampleData	Social Insurance		Medical Insurance		
	Telephone		Outpatient No.		Hospitalization No.		
Details							
	Sec	Male ~	Age	0	Height	0	
	Addres	5			Weight	0	
Outpati	ient Info						
	Departmen	t	 Bed No 		Insurance		
- 1	Sleep Time	From	То	Comments			
	0:00~23:00	21:00	09:00				
enort	Comments						
						_	_
		Reset	Save	Save and Print	Cancel		

Step 7: Reviewing data and printing report

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

0	•	Common		View	vs	Search		Customi	zation				
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Ma		ssure Data Data View Data Report Fill Info								double click			
Juick Inpo	#	Date	Time	SYS	DIA	MAP	DP	PUL	Status	Exclude	Comments ①		here and enter comment
Input Patient Info	1	2018/03/07	11:44	104	77	86	75	73					comment
tient	2	2018/03/07			72	82	75	73	HB				
Info	3	2018/03/07	12:00	***	***	***	***	***	AA 8		Pulse Err		
	4	2018/03/07	12:03	126	76	92	102	81	AA		IHB_		
	5	2018/03/07	12:30	116	82	93	90	78	AA				To manually
	6	2018/03/07	13:00	115	75	88	89	78	AA				
	7	2018/03/07			71	83	91	85			IHB_		exclude a
	8	2018/03/07			82	93		76					measurement
	9	2018/03/07			77	89		88					from the
	10	2018/03/07			76	90	90	76					report, click
	11	2018/03/07			81	92	80	69	AA		IHB_		
	12	2018/03/07			78	88	75	69	AA				on the box and
	13	2018/03/07			***	***	***	***	AA10		Motion Err		a check mark
	14	2018/03/07	16:32	119	78	91	89	75	AA		IHB_		will appear
	15	2018/03/07	17:00	112	80	90	77	69	AA				
	16	2018/03/07	17:30	126	90 1	102	95	76	AA		IHB_		

2. 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 I Standard I	Print Template
Layout	
Summary	Summary Settings
Data	Awake Avg
	Asleep Avg
Partial Data	Max Max
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🖌 💷 Data	Circadian
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Scatterplot	
Trend Graph Setting	· · · · · · · · · · · · · · · · · · ·
Activity	
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.

views	<u> </u>	
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Outpatient No: Department: Bed No: Time:11:44 2010 03 07 14:30 2010 03 08 ID:	Outpatient No: Department: Bed No: Time:11:44 2018-02-07 14:30 2018-02-08 ID:	: Outpatient No: Department: Bed No: Time:11:44 2018-03-07 14:30 2018-03-08 ID:
Valid readings35 items Sleep Time2100 ··· 0900	# Date Time SVS DIA MAP DP PUL Status Comments	Blood pressure average
(1)8P Avg 113/78 mmHggReference130/80 mmHg)	1 2010/03/07 11/44 104 77 06 75 73 HB	W(2)
	2 2010/03/07 1146 104 72 82 75 73 H8- 4 2010/03/07 12:03 126 76 92 102 81 AA- 86.	
(2)Awake Aug 117/81 mmHg(Reference135/85 mmHg)	5 2016/03/07 12:30 116 82 91 90 78 AA-	
(3)Sleep Avg 107/75 mmHg(Reference120/70 mmHg)	6 2018/03/07 13:00 115 75 88 89 78 AA	140 (A)
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	12 2010/03/07 16:00 110 70 00 75 69 AA	2 N
5Y5(>135 mmHg) 3.13% 5Y5(>120 mmHg) 17.39%	14 2018/03/07 1632 119 78 91 99 75 4A HB, 15 2018/03/07 1200 112 80 90 77 69 4A	
DM(>85 mmHg) 25.00% DM(>70 mmHg) 60.87%	15 2018(03/07 17/20 112 80 90 77 89 AA 16 2018/03/07 17/20 126 90 1 102 95 76 AA HB	The second second
	17 2018/02/07 18:00 112 81 91 77 69 AA-	
(B)Circadian Rhythm:Systolic blood pressure drop at night 8.45% , Diastolic blood pressure drop at night 7.71% (Reference10% - 20%)	18 2018/03/07 18:30 120 98.1 105 90 75 AA- 840_	นี้สถาน สสร้าน สสร้าน เปล่ามา สสร้าน สสร้าน เปล่าน
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ARSYS 13.28 % DIA 13.52 %	21 2018/03/07 20:00 121 91 7 101 85 71 AA 22 2018/03/07 20:30 128 94 7 105 84 66 AA	
Awake 5Y5 7.07 % DIA 8.57 %	23 201A/03/07 21:00 118 851 96 73 62 AA-	
Sever SYS 18.57 % Dia 18.15 %	24 2018/03/07 21:30 124:1 85:1 98 76 62 44	
	25 2018/03/07 22:00 130 T 91 T 104 72 56 AA**	
(E)Pulse Rate:	26 2018/03/07 22:30 166 1 100 1 122 102 62 AA 28 2010/03/07 23:32 120 105 1 110 115 96 AA H0.	
AllPLA: Avg. 71 MAX 96 MIN 55 dimestration	29 2018/03/09 22/32 120 105 110 115 96 AA- F6, 29 2018/03/08 00:00 114 80 T 91 80 71 AA-	
	30 2018/03/08 00:30 109 75 1 86 68 63 AA	
AwakePULakig 76 MAX 88 MIN 66 (times/min)	31 2018/03/08 01:00 114 78.1 86 64 57 AA	
SleepPULJug 64 MAX 96 MIN 55 (times/min)	32 2018/03/08 01:30 108 77 1 87 66 62 AA- 33 2018/03/08 02:00 84 i 59 67 52 62 AA-	
(8)Morning blood pressure:111/78/Mean 8P in the first two hours after awakening.	34 2018/03/08 02:30 87.1 58 67 53 62 44	
Normal reference value 135mmHg / 85mmHg)	35 2018/03/08 03:00 92 66 74 57 62 AA	
Comment	36 2010/03/08 02:30 05 i 55 65 52 62 AA 37 2010/03/08 04:00 92 65 74 52 57 AA	
Contraction (38 2018/03/08 04:30 97 65 75 55 57 AA-	
	39 2018/03/08 05:00 73 L 52 59 40 56 AA	
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