The TM-2440 and TM-2441 have been validated in accordance with ISO protocols. Lightweight and compact design facilitates easy operation by patients and research participants. New features allow for the detection of Irregular Heartbeat (IHB) as well as standard ABPM measurements. The TM-2441 also has an LCD screen and slide switch to enable easy self-measurement. Collects data on various external factors (temperature, pressure, etc.) that influence blood pressure fluctuations. Included software provides useful analysis from data collected.

New global and regional guidelines recommend Out-of-Office measurements.
TM-2441

TM-2441 can process five types of self-measurement while recording environmental data (temperature, pressure, activity) through a multi-sensor. It is an “All-in-One” model that covers any environment from the doctor’s office to home. Pulse data during BP measurement is recorded in the device, with analysis software (included) providing the precise waveform. Viewing this data improves the accuracy of BP measurements and helps to verify irregular pulse waves.

- 24-hour ambulatory blood pressure monitoring
- Self-measurement
  - OBP: Office Blood Pressure
  - AOBP: Automated Office Blood Pressure
  - HBP: Home Blood Pressure
  - ANBP: Automated Night Blood Pressure
  - ASBP: Automated Self Blood Pressure
- Easy to use mode slide switch
- New pulse correction algorithm for faster measurement & noise rejection
- Battery Power (2 alkaline or Ni-MH “AA”)
- Output to data to analysis software (included with device)
- USB & BLE2 Connectivity
- Ingress protection IP22
- Protocol ISO810601

1) Hypertension CANADA
2) SDK available for Medical Developer

A&D’s TM-2440 is an entry-level model designed for ABPM measurement. Its compact body simplifies the monitoring of research participants and comes standard with an Irregular Heartbeat (IHB) function, which detects pulse irregularities and can check waveforms easily via analysis software (included). The new features in the TM-2440 support ABPM measurement.

- 24-hour ambulatory blood pressure monitoring
- Lightweight & compact size
  - 120g*, 66(W)×24.5(H)×95(D) mm *Without batteries
- OLED display (ABPM mode)
- New pulse correction algorithm for faster measurement & noise rejection
- Battery powered (2 alkaline or Ni-MH “AA”)
- Output of data to analysis software (included with device)
- USB connectivity
- Ingress protection IP22
- Protocol ISO810601

1) Hypertension CANADA
2) SDK available for Medical Developer
The newly designed software can analyze environmental data collected by the multi-sensor in addition to ABPM measurement data. Temperature, pressure and activity can be graphed alongside blood pressure. TM-2441 only (TM-2440 does not have a multi-sensor).

The TM-244x series records blood pressure as an oscillometric waveform. With our new analysis software you can check the waveform record for each measurement. Quickly determine the accuracy of measured values.

**Analysis Software Included with every unit**

- Multisensor data analysis with new software
- Waveform data recording and displaying

**System requirements**
- Computer CPU: 1GHz or higher processor
- Memory: 1GB or more (×86), 2GB or more (×64)
- Operation System (recommended):
  - Windows 10 (×86/×64)
  - Windows 8.1 (×86/×64), Windows 7 (×86/×64)
- SVGA: Recommended 800×600 pixels or more
- Disk: CD drive (drive corresponding to enclosed media)
- Hard disk: Available space of 16GB or more (×86), Available space of 24GB (×64)
- Printer: Environment in which XPS format files can be printed

**Options**

- **Cuff**
  - TM-CF502A: Extra large cuff for left arm (36-50cm)
  - TM-CF402A: Large cuff for left arm (28-38cm)
  - TM-CF302A: Adult cuff for left arm (20-31cm)
  - TM-CF202A: Small cuff for left arm (15-22cm)
  - TM-CF802A: Adult cuff for right arm (20-31cm)
  - TM-CF306A: Disposable cuff (10 sheets)
- **Cuff cloth**
  - AX-133024503-S: Extra large cuff cover for left arm (10 sheets)
  - AX-133024663-S: Large cuff cover for left arm (10 sheets)
  - AX-133024500-S: Adult cuff cover for left arm (10 sheets)
  - AX-133024667-S: Small cuff cover for left arm (10 sheets)
  - AX-133024353-S: Adult cuff cover for right arm (10 sheets)
  - AX-133025103-S: Extra large cloth for left arm (2 sheets)
  - AX-133025102-S: Large cloth for left arm (2 sheets)
  - AX-133024487-S: Adult cloth for left arm (2 sheets)
  - AX-133025101-S: Small cloth for left arm (2 sheets)
  - AX-133025104-S: Adult cloth for right arm (2 sheets)
  - AX-133025995: Carrying holder
  - AX-110B-20-S: Clips (5 pieces)
- **Cuff cover**
- **Carrying holder**
- **Clip**
## Specifications

<table>
<thead>
<tr>
<th><strong>Measurement Method</strong></th>
<th><strong>TM-2441</strong></th>
<th><strong>TM-2440</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure detection method</td>
<td>Oscillometric measurement method</td>
<td>Semiconductor pressure sensor</td>
</tr>
<tr>
<td>Pressure display range</td>
<td>0 to 299 mmHg (299 mmHg or more is hidden)</td>
<td></td>
</tr>
<tr>
<td>Measurement accuracy</td>
<td>Pressure : ±3 mmHg</td>
<td>Pressure : ±3 mmHg</td>
</tr>
<tr>
<td>Minimum display division</td>
<td>Pulse rate : ±5 %</td>
<td>Pulse rate : ±3 mmHg</td>
</tr>
<tr>
<td>Measurement range</td>
<td>Pressure : ±1 mmHg</td>
<td>Pulse rate : ±3 mmHg</td>
</tr>
<tr>
<td>Pressurization method</td>
<td>Micro pump</td>
<td>Micro pump</td>
</tr>
<tr>
<td>Automatic pressurization</td>
<td>85 to 299 mmHg</td>
<td>85 to 299 mmHg</td>
</tr>
<tr>
<td>Interval Setting</td>
<td>Intervals at each section which divides 24 hours up to maximum six parts.</td>
<td>Intervals : OFF, 5, 10, 15, 20, 30, 60, 120 minutes</td>
</tr>
<tr>
<td>Display</td>
<td>A-BPM : OLED, 96 × 39 pixels, white characters</td>
<td>A-BPM : OLED, 96 × 39 pixels, white characters</td>
</tr>
<tr>
<td>Clock</td>
<td>24 hour clock</td>
<td>24 hour clock</td>
</tr>
<tr>
<td>Measurement count</td>
<td>200 times or more. varies due to measurement conditions.</td>
<td>200 times or more. varies due to measurement conditions.</td>
</tr>
<tr>
<td>Memory Data</td>
<td>600 data max</td>
<td>600 data max</td>
</tr>
<tr>
<td>Power supply</td>
<td>With the same type of batteries : 2 × 1.5V batteries (LR6 or AA size)</td>
<td>Alkaline battery or Nickel-hydrogen battery (Ni-MH) 1900 mAh or more</td>
</tr>
<tr>
<td></td>
<td>Backup battery for built-in clock : Lithium rechargeable coin cell battery ML2016</td>
<td></td>
</tr>
<tr>
<td>Rated voltage</td>
<td>DC 2.4 V and DC 3.0 V</td>
<td>DC 2.4 V and DC 3.0 V</td>
</tr>
<tr>
<td>Interface</td>
<td>USB : USB1.1 compliant.</td>
<td>USB : USB1.1 compliant.</td>
</tr>
<tr>
<td></td>
<td>Cable length : 1.5 m or shorter</td>
<td>Cable length : 1.5 m or shorter</td>
</tr>
<tr>
<td></td>
<td>Micro-USB B type terminal can connect to dedicated peripheral (using standard driver software).</td>
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</tr>
<tr>
<td></td>
<td>Bluetooth Ver.4.1 (BLE) :</td>
<td>Bluetooth Ver.4.1 (BLE) :</td>
</tr>
<tr>
<td></td>
<td>Wireless device can be connected.</td>
<td>Wireless device can be connected.</td>
</tr>
<tr>
<td></td>
<td>SDK available for Medical Developer</td>
<td>SDK available for Medical Developer</td>
</tr>
<tr>
<td>Operating conditions</td>
<td>Temperature : +10 to +40 °C</td>
<td>Temperature : +10 to +40 °C</td>
</tr>
<tr>
<td></td>
<td>Humidity : 30 to 85 %RH (no condensation)</td>
<td>Humidity : 30 to 85 %RH (no condensation)</td>
</tr>
<tr>
<td>Atmospheric pressure both for operation and storage condition</td>
<td>700 to 1060 hPa</td>
<td>700 to 1060 hPa</td>
</tr>
<tr>
<td>External Dimensions</td>
<td>Approx. 95 (L) × 66 (W) × 24.5 (H) mm</td>
<td>Approx. 95 (L) × 66 (W) × 24.5 (H) mm</td>
</tr>
<tr>
<td>Weight</td>
<td>Approx. 135 g (excluding batteries)</td>
<td>Approx. 120 g (excluding batteries)</td>
</tr>
</tbody>
</table>