

Instruction Manual

e-pill[®] MedTime Plus

Locked Automatic Pill Dispenser

SKU 992030 | US Patent 9,027,787 B2



Carefully review and save this setup guide

e-pill® MedTime Plus Locked Automatic Pill Dispenser



Introduction

The e-pill® MedTime Plus locked automatic pill dispenser is designed to remind and dispense pills according to the patient's dosing schedule, reminding by means of auditory alarm and flashing light. MedTime Plus will make the correct dose available at the correct time, keeping all other pills secure via a locked lid plus an additional Secure Mode feature.

We recommend that you always keep the e-pill MedTime Plus locked. Two keys are included - one key for the caregiver and one key as a backup. e-pill MedTime Plus is locked but it is not tamperproof, therefore it should NOT be used to administer pain medications or Schedule II/III drugs.

How it Works

At dose time the alarm will sound, and the internal tray will rotate, making the correct dose available. Turn the dispenser over as seen in the picture above to dispense - this will release the correct dose and silence the alarm.

Components



Locked Automatic Pill Dispenser (1)
SKU 992030



Medication Tray (2)
SKU 992040



Keys (2)
SKU 995030



Dosage Template Set (1)
SKU 991038

Note: We recommend that you always keep e-pill MedTime Plus locked. Two keys are included: One key for the caregiver and one key as a backup.

e-pill MedTime Plus can be locked but it is not tamperproof and therefore should NOT be used to administer Schedule II or III drugs or any medications where the patient may try to get to them by force.



AA Batteries (4)

SETUP - STEP 1

Turning On and Opening e-pill MedTime Plus:

1. Turn the pill dispenser upside down and remove the battery door
2. Remove the battery insulator strip to power on the dispenser
3. e-pill MedTime Plus is now on
4. Replace the battery door and turn the dispenser right-side up
5. Open the lid by placing your index finger on top of the clear shutter and your thumb on the front catch. Press with your thumb and lift up.

Setup Menu A: Carefully to go Through All of Menu A for Proper Setup

Menu A Settings: Clock, Date, Doses, Alarms

CLOCK:

1. Press Button 1 until "CLOCK" is displayed
2. Press Button 2 (reverse) or 3 (forward) to set the correct time

DATE:

1. Press Button 1 until "DATE" is displayed
2. Wait until "YY" appears
3. Press Button 2 (reverse) or 3 (forward) to set the correct YEAR
4. Press Button 1 to move to the month "MM"
5. Press Button 2 (reverse) or 3 (forward) to set the correct MONTH
6. Press Button 1 to move to the month "DD"
7. Press Button 2 (reverse) or 3 (forward) to set the correct DAY

DOSES: The number of alarms needed per day

1. Press Button 1 until "DOSES" is displayed
2. Press Button 2 (decrease) or 3 (increase) to set the number of alarms

ALARMS: Alarms are to be set in order, the earliest alarm needs to be set first

1. Press Button 1 until "ALARMS" is displayed
2. Set the earliest alarm first ("1") using Button 2 (reverse) or 3 (forward)
3. Repeat for all alarms needed - Button 1 to move to the next alarm, Buttons 2 and 3 to set the alarm time

SAVE and EXIT Menu A:

1. Press and hold Button 1 for a few seconds to save and exit Menu A
2. The display will switch between the current time and the current date

Setup Menu B: Carefully to go Through All of Menu B for Proper Setup
To access Menu B: Press and hold button 3 until “BEFORE” is displayed.
Menu B Settings: Before, After, Sound, Light, Filled, Batt, Secure, Hours, DLS, Start, Stop, Record.

BEFORE: Allows dispensing of medication before the set alarm time.

This setting can be set from 5 minutes to 5 hours.

Useful if needing to take a dose earlier than scheduled in order to not miss out on important appointments or events that may take you away from your dispenser. **TURN OFF:** If this function is not required set to 00:00

Note: Do not use this function with someone who may get confused by its function or use.

1. When in menu B, press and hold Button 3 until “BEFORE” is displayed
2. Press Button 2 (decrease) or 3 (increase) to set length of BEFORE time
 - a. How to Use: If this function has been set the user may access their medication in advance by turning the dispenser upside down (past 180°) and then upright 2 times in succession. The dispenser will then rotate, and the next dose will become available. If medication is taken before the normal time the dispenser will not activate again until the following medication is due.

AFTER: Alarm duration. This setting can be set from 5 minutes to 5 hours.

1. When in menu B, press Button 1 until “AFTER” is displayed
2. Press Button 2 (decrease) or 3 (increase) to set alarm duration

SOUND: Alarm melody

1. When in menu B, press Button 1 until “SOUND” is displayed
2. Press Button 2 (reverse) or 3 (forward) to set alarm melody
 - a. 00 for silent (visual alarm only), 01 – 04 for sound

LIGHT: Visual alarm

1. When in menu B, press Button 1 until “LIGHT” is displayed
2. Press Button 2 to turn off, Button 3 to turn on

FILLED: Sets and enables the display warning “DOSES LEFT”

1. When in menu B, press Button 1 until “FILLED” is displayed
2. Press Button 2 (decrease) or 3 (increase) to set the exact number of compartments filled in the medication tray
3. When no doses remain “- - -” is displayed

BATT: Sets the type of battery used for optimal battery life

1. When in menu B, press Button 1 until "BATT" is displayed
2. Press Button 2 or 3 to set battery type to "ALC" (alkaline/non-rechargeable) or "NIMH" (rechargeable)

SECURE: Auto-locking Dispensing Door (blocks opening of clear shutter)

ON: The clear shutter in the front of the lid is always locked except at the programmed alarm time plus the subsequent "AFTER" time (alarm duration)

OFF: The clear shutter in the front of the lid is never locked.

1. When in menu B, press Button 1 until "SECURE" is displayed
2. Press Button 2 to turn on, Button 3 to turn off
 - a. If Secure is on, the clear shutter will lock two minutes after medication has been dispensed (dispenser turned over)

HOURS: Use either a 12-hour clock (AM/PM) or 24-hour clock

The dispenser's default uses the 24-hour clock

1. When in menu B, press Button 1 until "HOURS" is displayed
2. Press Button 2 or 3 to set to:
 - a. 12 hour - "AM" or "PM" will be displayed next to the time
 - b. 24 hour - "AM" or "PM" will NOT be displayed next to the time

DLS: Set the dispenser to automatically adjust for daylight saving

1. When in menu B, press Button 1 until "DLS" is displayed
2. Press Button 2 or 3 to set to:
 - a. "OFF" to disable,
 - b. "EU" for European Daylight Savings
 - c. "US" for United States Daylight Saving

START: Delay the time at which the dispenser will start to operate. Useful if the dispenser is being filled, for example, by a pharmacy and is not being delivered to the user until a later date.

1. When in menu B, press Button 1 until "START" is displayed
2. If you DO NOT need to use START which is the most common.
 - a. Set:
 - i. Year (YY) to 00 by pressing button 2 to decrease
 - ii. Month (MM) to 01 by pressing button 2 to decrease
 - iii. Day (DD) to 01 by pressing button 2 to decrease
 - iv. Hour (HH) to 00 by pressing 2 to decrease

3. If you DO need to use START, set the Year (YY), Month (MM), Date (DD) and Hour (HH) to when you want e-pill MedTime Plus to wake up. Press Button 2 (decrease) or 3 (increase) and Button 1 to move to the next setting.

STOP: Set the time at which the dispenser will stop to operate. Useful if two or more dispensers are being used by a user in sequence and ensures that only one dispenser is active at one time.

1. When in menu B, press Button 1 until "STOP" is displayed
2. If you DO NOT need to use STOP which is the most common.
 - a. Set:
 - i. Year (YY) to 99 by pressing button 2 to increase
 - ii. Month (MM) to 12 by pressing button 2 to increase
 - iii. Day (DD) to 31 by pressing button 2 to increase
 - iv. Hour (HH) to 23 by pressing button 2 to increase
3. If you DO need to use STOP, set the Year (YY), Month (MM), Date (DD) and Hour (HH) to when you want e-pill MedTime Plus to go to sleep. Press Button 2 (decrease) or 3 (increase) and Button 1 to move to the next setting.

RECORD: Will show the time at which the previous 28 doses were dispensed.

1. When in menu B, press Button 1 until "RECORD" is displayed – the time at which the last dose was taken is also shown
2. Press Button 2 or 3 to show the previous dispensing times

SAVE and EXIT Menu B:

1. Press and hold Button 1 for a few seconds to save and exit Menu B
2. The display will switch between the current time and the current date

SETUP - STEP 2

Filling the Tray:

1. With the lid still open, remove the tray that is inside the dispenser. This makes filling the tray easier.
2. e-pill MedTime Plus comes with three different dosing templates. The template identifies the number of alarms per day and, very importantly, the time of the day that you are filling the tray. The blank disc is used for 5 - 24 alarms per day. This disk has been intentionally left blank so it can be tailored to align with the exact number of alarms set. Place the correct template based on your needs on the tray, with the current day of week and time placed directly at 6 o'clock.
3. Fill compartments counterclockwise (up to 28 doses are available) with pills using the dosing template as a guide. Note: If you take medications three (3) times per day, the last compartment will be left empty.

Begin to Use:

1. Align the tray in the dispenser: The next dose will be the first compartment to the right of the compartment placed directly at 6 o'clock.
 - a. If set to operate in "SECURE" mode: (if not move to step 2)
 - i. Press Button 2 until "TRAY Z" is displayed.
 - ii. The tray will then move clockwise (forward) ½ a compartment to the correct position. The dividers between the tray's compartments is what locks the dispenser's clear shutter.
2. Close the lid.
3. Turn the dispenser over and lock the dispenser. WARNING: When locking/unlocking the cover do not turn the key more than 90 degrees.

Congratulations:

All of SETUP – STEP 1 and all of SETUP – STEP 2 is complete.
Your e-pill MedTime Plus is now 100% setup.

Refilling the Tray

Resetting “DOSES LEFT” count after refilling the tray:

The FILLED function will reduce “DOSES LEFT” by 1 each time medications are dispensed. Every time after the tray is refilled, it is required to reset the FILLED setting to the exact number of doses placed in the medication tray.

1. Press and hold button 3 until “BEFORE” is displayed
2. Press Button 1 until “FILLED” is displayed
3. Press Button 2 (decrease) or 3 (increase) to set the exact number of compartments filled in the medication tray
4. The number of “DOSES LEFT” displayed will now be the same as the number entered in “FILLED”. When no doses remain “- - -” is displayed.

General Information

SECURE Mode: Additional details

When operating in “SECURE” mode the clear shutter in the lid of the e-pill MedTime Plus only unlocks when the alarm is going off. The clear shutter automatically locks again two (2) minutes after the dose has been dispensed. Note: The shutter automatically locks by the dispenser turning the tray clockwise (forward) ½ a compartment to the correct position. The dividers between the tray’s compartments is what locks the dispenser’s clear shutter.

Diagnostic Test:

The rotation, light and sound functions can be tested and demonstrated by pressing and holding all three buttons down until TEST is displayed.

1. Press button 1 to test the light
2. Press button 3 to start a whole alarm-sequence test:
 - a. The display will show “DEMO”, the tray will move one half section to the open position, the alarm will sound and the light will flash.
 - b. “TAKE MED” will be displayed for 20 seconds
 - c. Pick the dispenser up and turn it over to demonstrate dispensing the medication after which “CLOSE” will then be displayed and the tray will move forward ½ a section to the closed position.
 - i. If the dispenser is not picked up, after 20 seconds “CLOSE” will be displayed and the tray will move forward ½ a section to the closed position
3. Press and hold button 1 for a few seconds to leave the Test function

Dispenser left upside down:

If the dispenser is upside down when the alarm occurs, the alarm will sound as normal but the internal tray will not move until the dispenser is turned upright. If more than one alarm time has passed while the dispenser has been upside down, the dispenser will make available the correct medication.

Fault handling:

The alarm will sound continuously in the event of the dispenser failing to rotate properly. This might be caused by an obstruction between the body of the dispenser and the internal tray. In this event the display will show "ERROR 01" or "ERROR 04" or "ERROR 08". If an obstruction exists, it needs to be cleared immediately. Once the error has been resolved the error message can be deleted by pressing Button 3.

Medication:

Pills that should not be exposed to the air should not be used in the dispenser. If in doubt, please check with your pharmacist.

Note: Only tablets or capsules suitable for swallowing should be placed in the medication tray. DO NOT load the tray with nitroglycerine, liquid, injectable or patch medications.

Battery Types:

4 AA Alkaline batteries are supplied with the dispenser and will last up to 1 year. Uncommon: To use rechargeable AA batteries, set BATT to "NIMH".

1. Press and hold Button 3 until "BEFORE" is displayed
2. Press Button 1 until "BATT" is displayed
3. Press Button 2 or 3 to set "NIMH"
4. Press and hold Button 1 for a few seconds to save and exit

Batteries Change:

When the battery capacity is less than 20% the horizontal display will show "LOWBATT" in sequence with the date and time.

Changing batteries:

1. After changing the batteries all of your settings will be saved EXCEPT the current time.
2. To set the correct current time:
 - a. Press Button 1 until "CLOCK" is displayed
 - b. Press Button 2 (reverse) or 3 (forward) to set the correct time

- c. Press and hold Button 1 for a few seconds to save and exit

Cleaning:

Wipe with a damp cloth. The tray may be washed (after being removed from the dispenser) in warm water or in a dish washer at maximum 158 degrees Fahrenheit (70 C).

Transport:

If the dispenser is sent by mail or carried onto an airplane it is important that all the batteries are removed from the dispenser.

Assessment and Observations:

1. The e-pill MedTime Plus is a medication reminder and is not suitable for everyone; a patient assessment is important.
2. Users who wilfully try to get at their medication by force will eventually damage the unit. Problems occur due to misuse/interference in which case the user may not be suitable for the dispenser. This automatic pill dispenser should not be used for Schedule II or III medications or any medications where the patient may try to get to them by force.
3. e-pill MedTime Plus is locked but it is not tamperproof, therefore should NOT be used to administer pain medications or Schedule II/III drugs.
4. The dispenser's lock should only be turned $\frac{1}{4}$ of a turn. Over-turning with a heavy hand can cause the lock or case to break.
5. When replacing the tray do not force the tray around while it is in the dispenser. Always lift-up when replacing.

Technical Information:

Dimensions: Length 7.5 inches/Width 7.1 inches/Height 2.2 inches

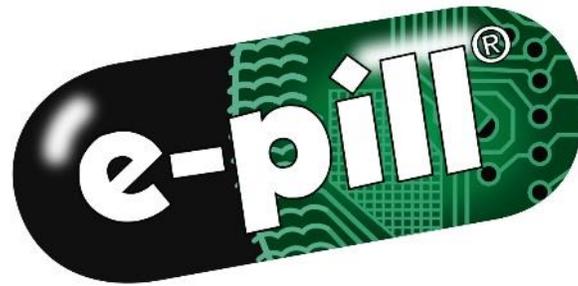
Weight: 1.08 lbs with batteries

Compartment volume: 18 aspirins sized tablets

Power: 6V (4 x AA Alkaline or 4 x AA NiMH batteries)

Battery life: Up to 1 year

US Patent: 9,027,787 B2 dated May 12, 2015 applies



Medication Reminders

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