

SEIKO COMPACT METRONOME DM90 INSTRUCTION MANUAL

Thank you for purchasing the SEIKO COMPACT METRONOME DM90. Carefully read this instruction manual before using your DM90 as proper use is important to ensure the life of the product.

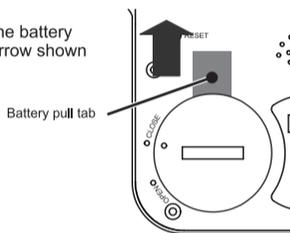
Store this instruction manual in a place that is readily accessible and refer to it regularly.

PRECAUTIONS

The following warnings and cautions are important in ensuring safe and proper use of the product, preventing injury to yourself and others, and preventing damage to your belongings. Please adhere to the following warnings.

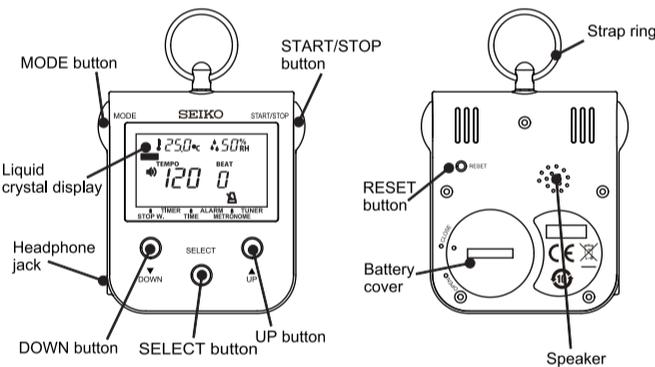
- Do not disassemble, attempt to repair, or tamper with the metronome or battery.
- Do not handle the metronome with wet hands.
- Do not use or store the metronome in places where it may become wet such as in bathrooms, near sinks, or outdoors.
- Do not expose the battery to fire.
- Use only the battery specified for the metronome.
- Do not insert pins or other foreign objects into the metronome.
- Do not place the metronome on unstable surfaces.
- Do not intentionally throw or drop the metronome.
- Do not use or store the metronome in places where it may be exposed to extremely high temperatures such as near heaters, on devices that generate heat, in direct sunlight, or in vehicles.
- Do not use or store the metronome in places where it may be exposed to extremely high levels of humidity.
- Do not use the metronome when precise measurement or control of temperature and humidity is required.
- Carefully monitor use of the metronome by children.
- Keep removed batteries and the battery lid out of the reach of small children. In the event that a child swallows these parts, contact a physician immediately.
- Do not apply excessive force to the buttons or body of the metronome.
- Do not let leaked battery fluid come in contact with your skin.
- Do not use or store the metronome in dusty places or places prone to vibration.
- Do not use thinner or alcohol to clean the metronome.
- Do not wrap the strap tightly around a body part, such as the neck or a finger. Do not pull on the metronome when it is hung around the neck.
- Do not swing the strap around with the metronome attached.
- Install the battery properly, checking that the (+) and (-) terminals are oriented correctly.
- Remove the battery when it is depleted or when not using the metronome for a long period of time.

Before using the metronome for the first time, remove the battery pull tab by gently pulling the tab in the direction of the arrow shown in the drawing, being careful to avoid injury.



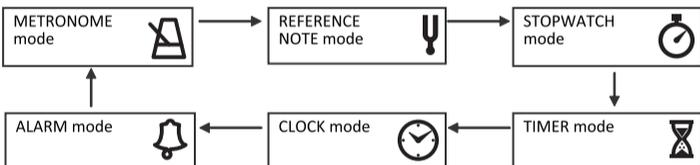
The battery included with the metronome is for functionality testing and its battery life may be shorter than expected.

NAMES OF PARTS



Modes

This metronome has 6 functions (modes), which can be selected by pressing the MODE button.



STOPWATCH mode, TIMER mode, and ALARM mode can be used at the same time as other modes.

HOW TO USE

METRONOME Mode

The DM90 can be used as an electronic metronome. In METRONOME mode, you can set the tempo, beat, and volume.

Use the SELECT button to choose the item you would like to set and the letters or icon for the selected item will flash for 3 seconds. While the letters or icon are flashing, press the UP button or DOWN button to adjust the item. Press and hold a button to fast-forward.

To start or stop the metronome, press the START/STOP button.

REFERENCE NOTE Mode

The DM90 can be used as an electronic tuner.

In REFERENCE NOTE mode, you can set the note name, reference pitch, and volume.

Use the SELECT button to choose the item you would like to set and the letters or icon for the selected item will flash for 3 seconds. While the letters or icon are flashing, press the UP button or DOWN button to adjust the item. Press and hold a button to fast-forward.

To start or stop playing the reference note, press the START/STOP button.

STOPWATCH Mode

The DM90 can be used as a stopwatch. (Maximum time: 99 hours 59 minutes 59 seconds)

To start or stop the stopwatch, press the START/STOP button.

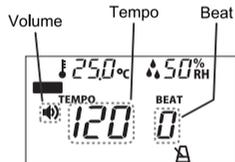
The SELECT button can be used as follows:

While the stopwatch is stopped: Reset the time

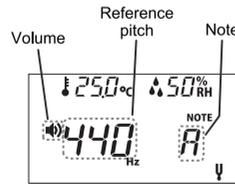
While the stopwatch is running: Display lap time, cancel lap

When lap time is being displayed, "LAP" will flash on the LCD.

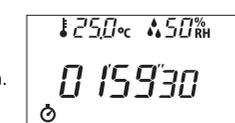
If you switch to another mode while the stopwatch is running, the stopwatch icon will blink.



METRONOME mode display example



REFERENCE NOTE mode display example



STOPWATCH mode display example

TIMER Mode

The DM90 can be used as a countdown timer (Maximum time: 12 hours 00 minutes).

To start or stop the timer, press the START/STOP button.

Use the SELECT button to reset the timer and display the set time.

To set the timer, press the UP button or DOWN button while the timer is stopped. The timer can be set in one minute increments. Press and hold a button to fast-forward.

If you switch to another mode while the timer is running, the timer icon will blink.

After the timer starts, it will beep when it reaches zero.

※The timer will shut off automatically after 20 seconds, or it can be turned off by pushing any button.

※The volume of the timer cannot be changed.



TIMER mode display example

CLOCK mode

The time is displayed. (24 hour clock)

To set the clock, follow the steps below.

① In CLOCK mode, press and hold the SELECT button for 2 seconds. The "seconds" digits will blink and the clock can now be set.

② First, set the "seconds". Press the UP button to reset the "seconds" to 00

③ Press the SELECT button to select the "minutes" digits and use the UP button and DOWN button to set the minute.

④ Press the SELECT button to select the "hours" digits and use the UP button and DOWN button to set the hour.

⑤ Once the time has been set, press the Start/Stop button to return to the normal time display.



CLOCK mode display example

ALARM Mode

In ALARM mode, an alarm will sound at a set time.

Use the START/STOP button to turn the alarm on and off.

To change the alarm time, follow the steps below.

① With the alarm on (alarm time displayed), press the SELECT button and the "minutes" will blink. The alarm can now be set.

② Use the UP button and DOWN button to set the minute.

③ Press the SELECT button to select the "hours" digits and use the UP button and DOWN button to set the hour.

④ Press the START/STOP button to finish setting the alarm time.

If you switch to another mode while the alarm is on, the alarm icon will blink.

※The alarm will shut off automatically after 20 seconds, or it can be turned off by pushing any button.

※The volume of the alarm cannot be changed.



ALARM mode display example

Temperature/Humidity display

Temperature and humidity are displayed on the upper part of the LCD.

To switch between Celsius (°C) and Fahrenheit (°F), while in CLOCK mode press and hold the UP button and DOWN button simultaneously for 2 seconds or more.

Temperatures from 0 ~ 50°C/32 ~ 122°F and humidity from 20 ~ 90% relative humidity can be measured.

When the temperature or humidity is lower than the lower limit above, "Lo" will be displayed. When higher than the upper limit above, "Hi" will be displayed.

When the temperature is outside the measurable range, humidity will be displayed as "--".

The display is updated at regular intervals. However, when the metronome is in use or the reference note is being played, the temperature and humidity will not be updated.

Headphones

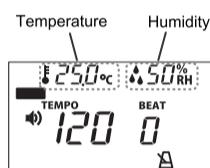
Use Φ3.5 mm plug headphones (sold separately).

※Check volume settings prior to using headphones.

Strap

The included strap can be attached to the strap ring.

For safety, the safety piece will detach when pulled with sufficient force.



Safety piece

CAUTION

※ The accompanying strap is only for use with the DM90. Do not use it for any other purpose.

※ Do not swing the DM90 around by the strap or pull forcefully on the strap as this may cause accidents or injuries, or damage the metronome.

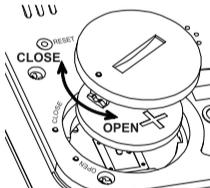
※ Do not wrap the strap tightly around a body part, such as the neck or a finger. Do not pull on the metronome when it is hung around the neck. This may cause asphyxiation or other injuries.

BATTERY REPLACEMENT

When the LCD becomes faint or the volume becomes low, it is time to replace the battery.

Locate the battery cover on the back side of the metronome. Use a coin, etc. to rotate the battery cover counterclockwise until the ○ mark on the cover aligns with the OPEN position and remove the depleted battery. Install a new battery (model number: CR2032) with the (+) side facing up. Replace the battery cover and rotate it clockwise until the ○ mark on the cover aligns with the LOCK position. After the battery is replaced, the DM90 will beep and return to the settings at the time of purchase. The settings for each mode will be cleared and the factory settings will be restored.

Factory settings: [METRONOME] Tempo 120/minute, Beat 0, Volume High, [REFERENCE NOTE] A4, reference pitch 440 Hz [STOPWATCH] 0:00'00" [TIMER] 01'00 [CLOCK] 00:00:00 [ALARM] Off (---)



※ Be sure that the (+) and (-) terminals of the battery are oriented correctly.

※ Follow all local ordinances and regulations when disposing of the depleted battery.

※ Store the removed battery and battery cover out of the reach of small children. In the event that a child swallows these parts, contact a physician immediately.

※ If the metronome malfunctions during use, use a fine-tipped object to press the reset button. The DM90 will return to factory settings, as when the battery is changed.

SPECIFICATIONS

- Modes: METRONOME, REFERENCE NOTE, STOPWATCH, TIMER, CLOCK, ALARM
- Additional function: Temperature/Humidity display
- Tempo range (accuracy): 30 ~ 250 beats/min. (±0.2%)
- Beat/rhythm types: 0 ~ 9, ♩, ♪, ♫, ♬
- Reference note range (accuracy): C4 ~ B4 (±1 cent)
- Reference pitch: 410 ~ 450 Hz
- Volume: 3-level volume control (mute, low, high)
- Clock accuracy: ±30 sec. monthly deviation
- Temperature range (accuracy): 0 ~ 50°C (±2°C) / 32 ~ 122°F (±3.6°F)
- Humidity range (accuracy): 20 ~ 90%RH (±10%RH at 25°C)
- Headphone jack: Φ3.5 mm monaural output
- Power supply: Lithium battery (CR2032×1)
- Battery life: Approximately 80 hours (When used continuously in METRONOME mode, tempo 120, Beat 2, Volume high) Approximately 1 years (CLOCK mode)
- Overall dimensions and weight: 57 (W) × 61.3 (H) × 19 (D) mm (not including projections), Approximately 45 g (including the battery)
- Accessories: One (1) Lithium battery CR2032 (for functionality testing), strap, instruction manual

※ The design and specifications are subject to change without prior notice for product improvement.