
Technical guide

Monitoring device

Monitoring device for pill medicine package

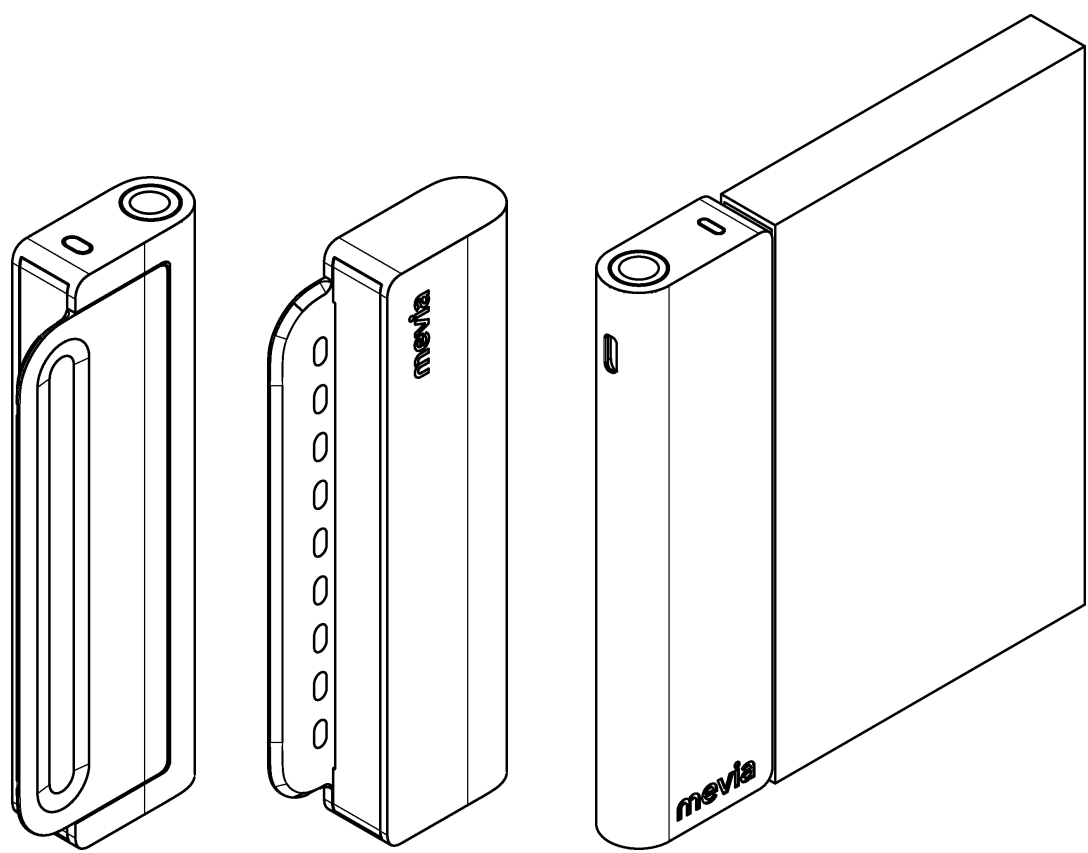


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Device features

Real-time adherence monitoring
Automatic detection of inserted package
Exact per-pill registration
6-8 weeks battery life / charge
1,5 hour charge time to full battery
GSM-module
Internal antenna
Global roaming SIMs included

Monitoring dose intakes in real-time

The device is connected to a package which has a trace of conductive ink for every cavity. The device measures the package every 15 seconds and via its LTE Cat M1/NB-IoT and 2G modem transfers this data directly to Mevia's servers. It detects exactly which cavity is taken by measuring the conductive traces in the package. The roaming 4FF nano sims mean that it always has access to at least two networks for superb coverage.

Package monitoring

The device automatically detects if it is connected or disconnected from a package. The device supports packages from 1-28 pills/cavities and can be adapted to any primary blister package.

Environmental requirments / Operating conditions

Use in temperature range between 4°C - 35°C
Do not immerse in water or other liquids
Designed to withstand normal use in a home environmenty

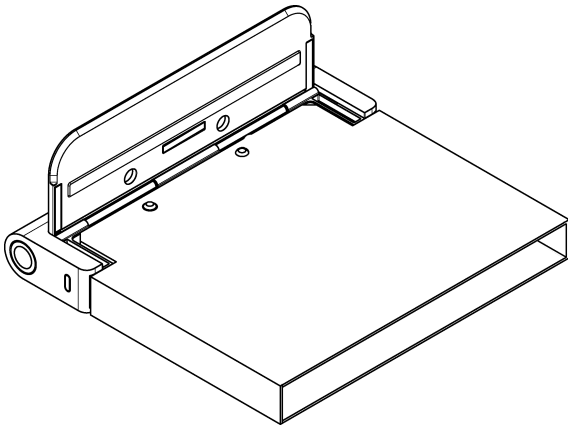
Storage capacity

Only timestamps for the dose intakes and events are stored on the device. (No personal or medical data is stored on the device). More than 500 events are stored, once storage is full the oldest events are erased. All events can be found, stored and backed-up on our database

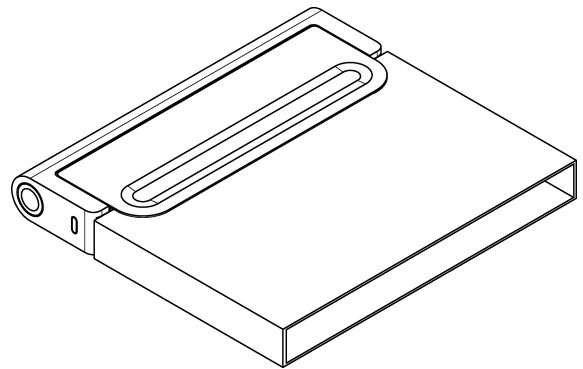
Monitoring device with standard pill-pack

The device is connected to the package by lifting the lid and inserting the package which fits into the right position by two small guiding lumps. When the lid is closed, the device and package is flipped and the package can be opened on the short side by a simple flap that gets inserted in a slit.

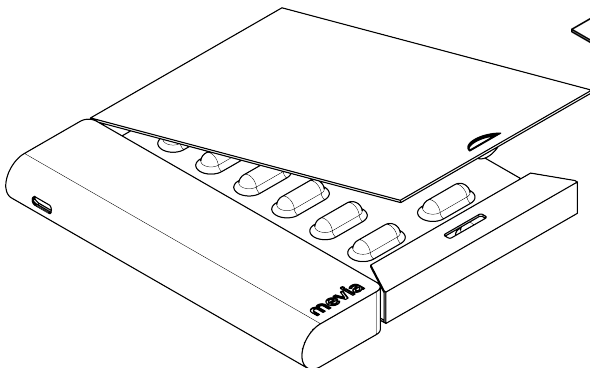
Open lid and insert package



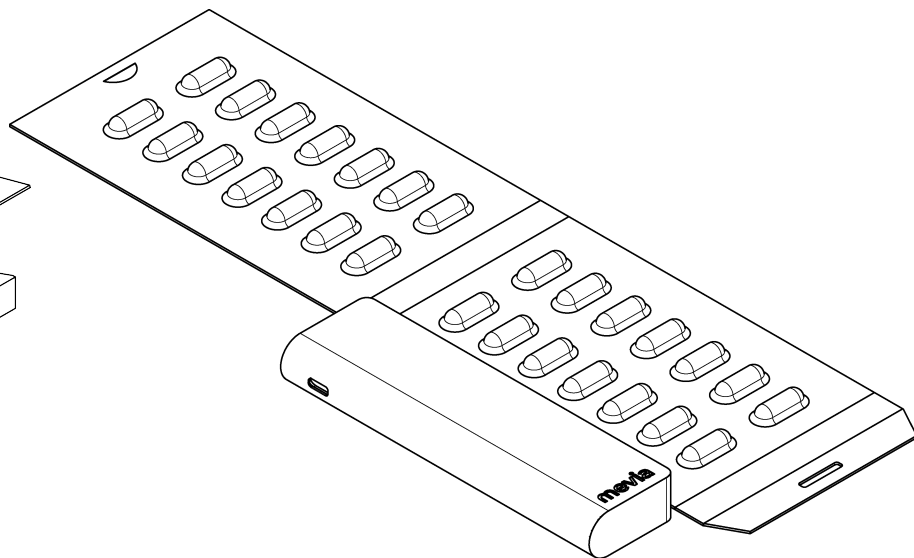
Close lid to fasten package



Flip device with package



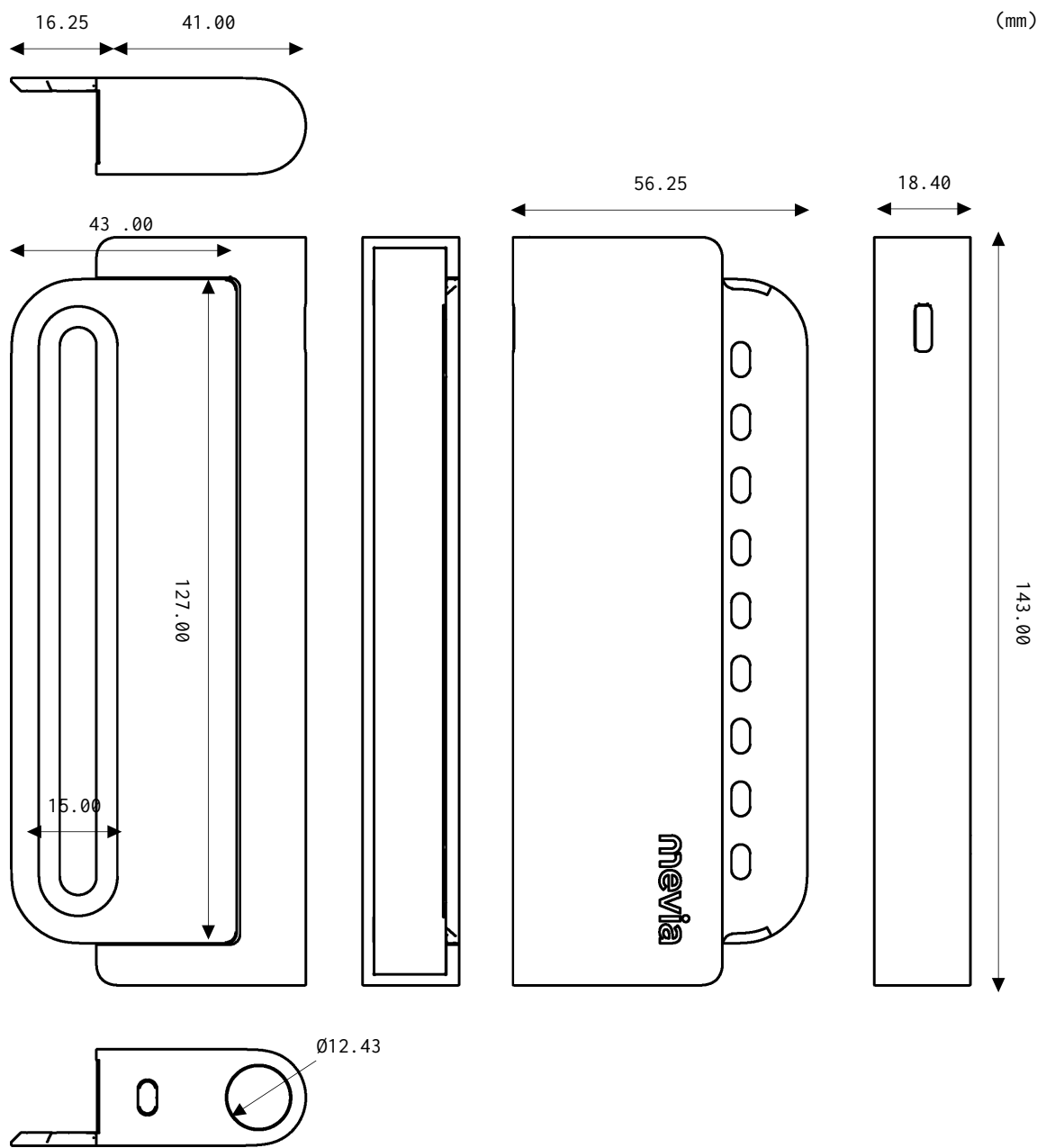
Open package to take dose



Size and weight

Device

Size: 143.00 × 56.25 × 18.40 mm
Weight: 88 gram (0.194 pounds)



Material and finish

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Materials

Silicon inserts - , TPE & PC-UL94

Plastic components - PC/ABS

Magnets

Brass rod

Finish

VD1 21-24 Finish on all plastic components and silicon insert.



Device colours

The device has one primary colour on the main plastic part and a secondary colour for the silicone inserts. It can be ordered in customised colours as well. Mevia has a proposal of colours to provide a solution that suits various user groups with differing needs and wishes.

Smooky

Primary colour:
Smooky transparant

Secondary colour:
HEX #8E9291
RAL 7042
PANTONE COOL
GRAY 7C

Blue

Primary colour:
HEX #0D223D
RAL 5003
PANTONE 282

Secondary colour:
HEX 005E83
RAL 5019 CAPRI
PANTONE 2187

Grey

Primary colour:
HEX #575D5E
RAL 7012 BASALT
GREY
PANTONE 431

Secondary colour:
HEX #8E9291
RAL 7042
PANTONE COOL
GRAY 7C

Orange

Primary colour :
HEX #BA481B
RAL 2001 RED
ORANGE
PANTONE 173






Secondary colour:
HEX: #E25303
RAL 2004 PURE ORANGE
PANTONE 158



Communication through a check-button and LED-indicator light

The LED Indicator light provides feedback of the device's status. When pressing the button a LED indicator light will light up to provide feedback of the device's status. The LED indicator will show when the device needs to be charged, if it is experiencing any package issues or technical difficulties or if no issues are present, ensure the user that all is well. The user will additionally get updates on the device status if necessary through text-messages or Mevia's application with further instructions. If the battery needs to be charged or if there is a hardware issue the LED will start blinking even if the button is not pressed.

LED Colour Interpretation

-  Green - Temporary solid light: Package is inserted correctly and the device is ready to use or indicates that an issue has been resolved.
-  Yellow - Temporary solid light: Device needs to be charged
-  Yellow - Pulsing light: Device is charging
-  Green - Solid light while charging: Device is fully charged.
-  Red - Solid temporary light: An issue is present. Check messages for further instructions.



Technical details

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Power and battery

Li-Po Battery 3.7V
650mAh

Compatible adapters

12W USB Power adapter
USB-A Output: 5V/2.4A
Power Input: 100-240V, 0.5A, 50/60Hz
Other adapter may work as well.

Cable

USB-C to USB-A Cable

Indicator LED

LED RGB DIFFUSED 4PLCC SMD

External connectors

USB C
Pressure connector to blister carbon
SIM-card tray

SIM card

4FF Nano-SIM

Network

Modem, LTE Cat M1/NB1 and 2G

Pogopins - Monitoring connectors

Rated Current : 2A
Rated Voltage : AC/DC12V
Contact Resistance: 50mΩmax
Pin Force: 9.8N on a pin from any direction
Cycle Durability: 20,000 times

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