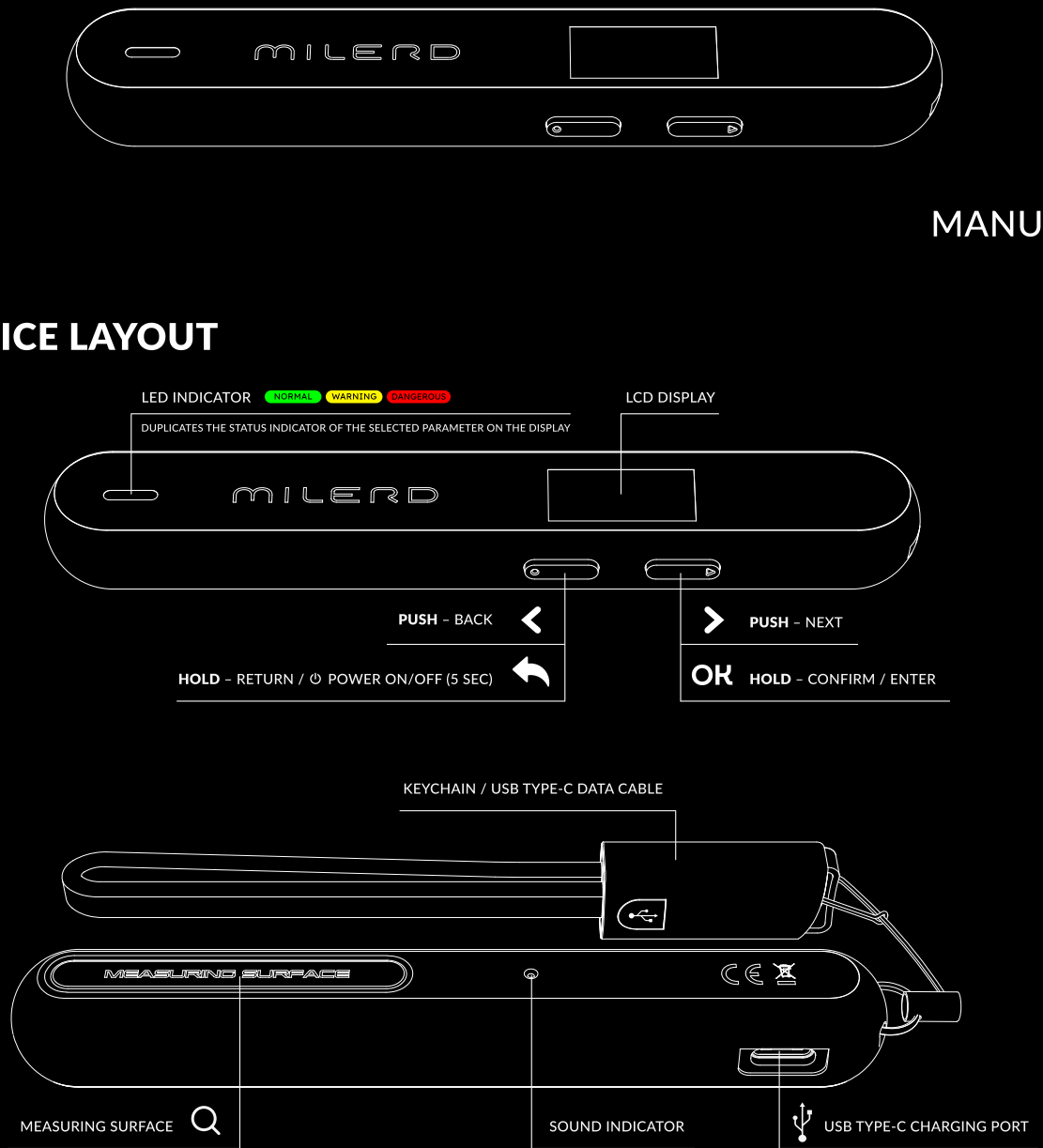


## DEVICE LAYOUT

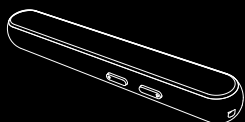


## GENERAL INFORMATION

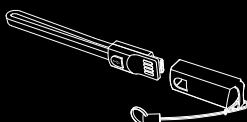
### 1. MILERD HIRANGE

MILERD HIRANGE RADIO & EMF DETECTOR IS A PORTABLE MEASURING DEVICE. IT IS DESIGNED TO MONITOR THE LEVEL OF ELECTROMAGNETIC RADIATION AND DISPLAYS AN ACCUMULATED DOSE FOR 30 DAYS. DUE TO ITS COMPACT SHAPE AND LONG-LIFE BATTERY, IT IS SUITABLE FOR PERSONAL EVERYDAY USE.

### 2. IN THE BOX



MILERD HIRANGE



KEYCHAIN / USB TYPE-C DATA CABLE

### 3. SAFETY

1. READ THIS MANUAL BEFORE USE.
2. USE THE DEVICE ONLY FOR ITS INTENDED PURPOSE AS SPECIFIED IN THE MANUAL.
3. AVOID SHAKING AND DROPPING THE DEVICE TO PREVENT DAMAGE TO THE WORKING PARTS.
4. PREVENT MOISTURE FROM REACHING POWER CONNECTORS.
5. BEFORE CONNECTING THE DEVICE TO A POWER SUPPLY, MAKE SURE THAT THE VOLTAGE CORRESPONDS TO THAT INDICATED ON THE RATING TABLE.
6. DO NOT SUBMERGE THE DEVICE IN WATER.

IN CASE OF NON-COMPLIANCE WITH THE RECOMMENDED OPERATING PROCEDURES, SAFETY IS COMPROMISED.

### 4. DISPOSAL



THIS SYMBOL INDICATES THAT THE PRODUCT AND / OR ITS BATTERY SHALL NOT BE DISPOSED OF WITH HOUSEHOLD WASTE. DISPOSE OF THE DEVICE IN ACCORDANCE WITH LOCAL LAWS AND REGULATIONS.

### 5. STORAGE AND TRANSPORTATION

1. TRANSPORT AND STORE THE DEVICE AT A TEMPERATURE FROM -60 °C TO 45°C WITH RELATIVE HUMIDITY OF UP TO 95%. PROTECT THE PACKAGING FROM DIRECT SUNLIGHT AND MOISTURE.
2. THE SERVICE LIFE OF THE DEVICE IS 5 YEARS AND IS SUBJECT TO OPERATING CONDITIONS.

### 6. WARRANTY

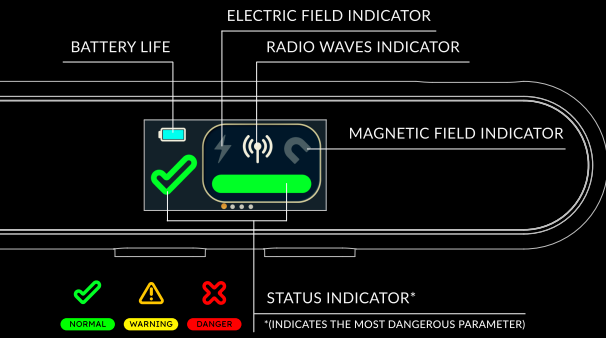
1. THE WARRANTY PERIOD FOR THE DEVICE IS 12 MONTHS FROM THE DATE OF SALE THROUGH A RETAIL NETWORK. IF THE MARKING FROM THE TRADING ORGANIZATION IS ABSENT, THE WARRANTY PERIOD SHALL START FROM THE DATE OF THE PRODUCT MANUFACTURE. THE MONTH AND YEAR OF THE PRODUCT MANUFACTURE ARE SPECIFIED IN THE WARRANTY CERTIFICATE.
2. ALL RECHARGEABLE BATTERIES ARE CONSUMABLE ITEMS THAT BECOME LESS EFFECTIVE AS THEY CHEMICALLY AGE. CONSUMABLES SHALL NOT BE COVERED BY THE WARRANTY.
3. WARRANTY REPAIRS SHALL BE CARRIED OUT BY THE MANUFACTURER.
4. CLAIMS FOR PRODUCTS WITH DAMAGES CAUSED BY INAPPROPRIATE OPERATION SHALL NOT BE ACCEPTED.
5. BREAKDOWN OF THE DEVICE CAUSED BY THE VIOLATION OF SAFETY RULES SHALL NOT BE COVERED BY THE WARRANTY.

### 7. TECHNICAL SPECIFICATIONS

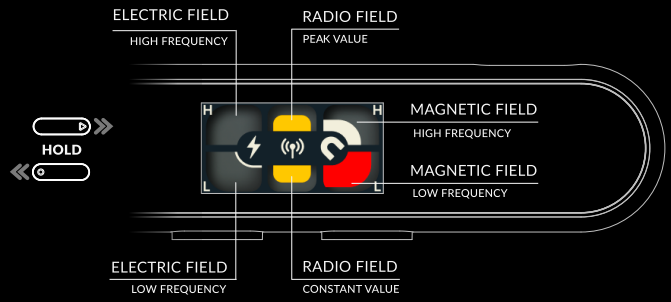
SCREEN	LCD
MAX ELECTRIC FIELD RANGE	5000 V/m (20Hz..10kHz) / 1000 V/m (10kHz..100kHz)
MEASUREMENT ACCURACY	±5%
MAX MAGNETIC FIELD RANGE	10 µT (20Hz..10kHz) / 4 µT (10kHz..100kHz)
MEASUREMENT ACCURACY	±4%
RADIO FREQUENCY RANGE	0..2000 mW/m2 (1MHz..8GHz)
MEASUREMENT ACCURACY	±20%
BATTERY	170 mAh, 3.7 V, LiPo
BATTERY LIFE	up to 160 h
POWER INTERFACE	USB TYPE-C 5V/1A
OVERALL DIMENSIONS (WITHOUT KEYCHAIN)	130 x 21 x 16.5 mm
WEIGHT	55 g
OPERATING TEMPERATURE	-10..40°C
PROTECTION RATING	IP 40

# INTERFACE

## 1. MAIN SCREEN

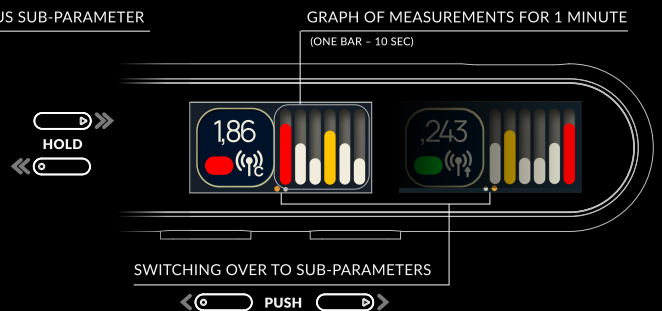
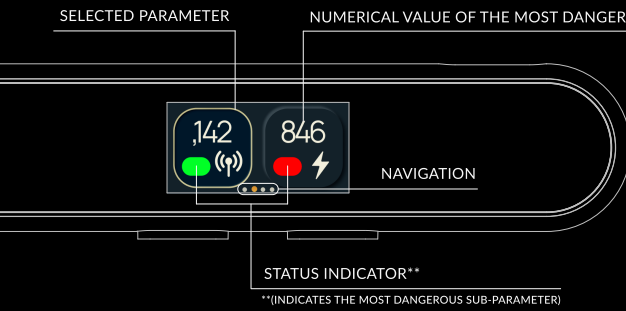


## 1.1 GRAPHICAL VIEW



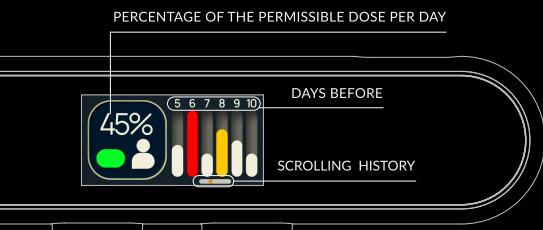
## 2. PARAMETER SCREENS

THE MENU CONTAINS 3 MEASUREMENT WINDOWS, EACH WITH 2 SUB-PARAMETERS. YOU CAN USE THEM TO VIEW MEASUREMENT STATISTICS FOR 1 MIN.



## 3. ACCUMULATED DOSE

ACCUMULATED DOSE DISPLAYS THE PERCENTAGE OF THE PERMISSIBLE DOSE PER DAY, INCLUDING MEASURING HISTORY FOR 30 DAYS. ONE COLUMN DISPLAYS THE STATISTICS FOR 24 HOURS. THE TIME COUNTS DOWN WHEN THE DEVICE IS SWITCHED ON FOR THE FIRST TIME AND SETS TO ZERO AFTER RESETTING. FOR ACTIVE MONITORING OF THE DAILY ACCUMULATED DOSE, RESET THE DEVICE AT 00:00 AND DO NOT SWITCH IT OFF\*\*\*. \*\*\* THE ACCUMULATED DOSE IS NOT MEASURED WHILE THE DEVICE IS SWITCHED OFF.



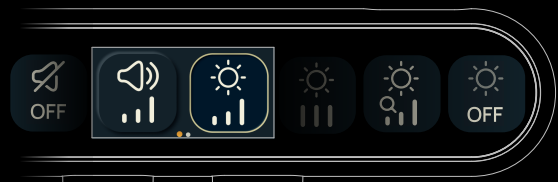
## 4. LAB MODE

IN LAB MODE YOU CAN SEE ALL THE MEASUREMENT PARAMETERS IN NUMBERS ON THE SCREEN. THE COLOUR OF THE VALUE INDICATES ITS DANGER LEVEL.

L	451	⚡ V/m	7	H
C	042	📶 μW/m²	103	↑
L	212	📶 nT	651	H

## 5. SETTINGS

IN SETTINGS, YOU CAN SWITCH THE SOUND INDICATOR ON/OFF BY HOLDING THE [HOLD] BUTTON AND SELECT A VISUAL INDICATOR MODE.



# USAGE

## 1. EXPOSURE TO RADIO WAVES AND EMF

RADIO FREQUENCY AND ELECTROMAGNETIC FIELDS CAN VARIOUSLY INFLUENCE LIVING SYSTEMS SUCH AS CELLS, PLANTS, ANIMALS AND HUMANS. THE NATURE OF THIS INFLUENCE DEPENDS ON THE FREQUENCY AND INTENSITY OF THE FIELD AS WELL AS EXPOSURE TIME. THEREFORE, IT IS SO IMPORTANT TO MONITOR EMF EXPOSURE AND TAKE TIMELY ACTION TO MINIMISE THEIR IMPACT ON ORGANISMS.

## 2. DEVICE OPERATION

THE DEVICE CONTINUOUSLY MEASURES EMF AND GIVES AN ACOUSTIC AND LED SIGNALS WHEN PERMISSIBLE VALUES ARE EXCEEDED.



## 3. ELECTRIC FIELDS

SOME AREAS IN RESIDENTIAL BUILDINGS SUCH AS ELECTRIC OUTLETS, ELECTRICAL DEVICES, AREAS NEAR INCORRECTLY GROUNDED EQUIPMENT, ETC., SHOW HIGH ELECTRIC FIELD VALUES.

## 4. MAGNETIC FIELDS

MAGNETIC FIELD SOURCES INCLUDE DEVICES SUCH AS VIDEO DISPLAYS, SOUND SYSTEMS, CONVERTERS INSIDE CONSUMER DEVICES, HEATERS, AND EQUIPMENT WITH ELECTRIC MOTORS.

## 5. RADIO WAVES AND CELLULAR SIGNALS

RADIO FIELD SOURCES INCLUDE DEVICES SUCH AS MOBILE PHONES, WI-FI ROUTERS, MONITORS AND VIDEO DISPLAYS, CELLULAR AND 5G CELL TOWERS, RADIO RECEIVERS, INDUSTRIAL INDUCTION HEATERS, MICROWAVE OVENS, ETC.

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# WARRANTY CERTIFICATE

## MILERD HIRANGE

No. \_\_\_\_\_  
 Manufacturing date \_\_\_\_\_  
 QC department representative \_\_\_\_\_  
 QC stamp \_\_\_\_\_  
 Quality claims address: Sr Tech LLC, 97500 Radomsko;  
 Zeromskiego 22/2; Poland, info@milerd.com milerd.com  
 TO BE FILLED BY RETAILER  
 Date of sale \_\_\_\_\_  
 day, month, year  
 Seller \_\_\_\_\_  
 signature  
 Seal

# ACCEPTANCE CERTIFICATE

## MILERD HIRANGE

No. \_\_\_\_\_  
 Head of QC department \_\_\_\_\_  
 signature  
 full name  
 day, month, year  
 Seal