

HEALTHCARE PRODUCTS 2014



Digital Blood Pressure Monitor

Digital Thermometer

Digital Pedometer

Nebulizer

*Determined to develop as a corporation
that offers new value for everyone everywhere through high-quality products and services . . .
. . . Citizen Systems is reinventing itself.*

“Leading Technology for Humanity”

*— Our corporate slogan expresses the aspirations of every Citizen
Systems employee, each of whom is striving to realize a shared ideal.
We have superior miniaturization and refinement technologies cultivated by
members of the Citizen Group.*

We have a desire to design products that are easy for anyone to use.

*And we have the skills required to pursue quality at every turn,
combined with an unswerving commitment to manufacturing.*

*We draw on these strengths to manufacture more advanced products for
a wide range of fields, including health information management,
information/entertainment and business information equipment.*

*Our aim is to achieve advances in convenience,
enabling people to lead more abundant and comfortable lives anytime and anywhere*

*— and to disseminate people-friendly technologies and services
that help individuals lead healthier, more fulfilling lives.*

“Leading Technology for Humanity”

*— We continue to take up new challenges with an eye on
our customers and with these words in mind.*

Connecting personal health data with doctors

We have introduced evolutionary advanced healthcare systems.

Lifestyle related diseases that typically show no external symptoms and often lead to further complications, such as heart failure and stroke, have been on the rise.

Therefore, it is crucial to undergo periodic health examinations at medical institutions as well as carryout daily health checks at home, as this increases the possibility of an early diagnosis.

To facilitate the latter and to support a healthy lifestyle, Citizen Systems supplies topnotch user-friendly healthcare products, such as digital blood pressure monitors and thermometers.



Digital Blood Pressure Monitor 2

Digital Thermometer 14

Digital Pedometer 18

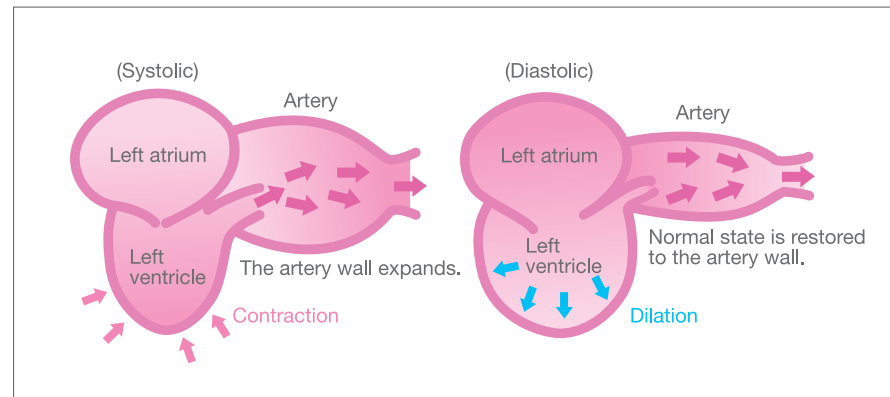
Nebulizer 20

Model Index 21

Digital Blood Pressure Monitor

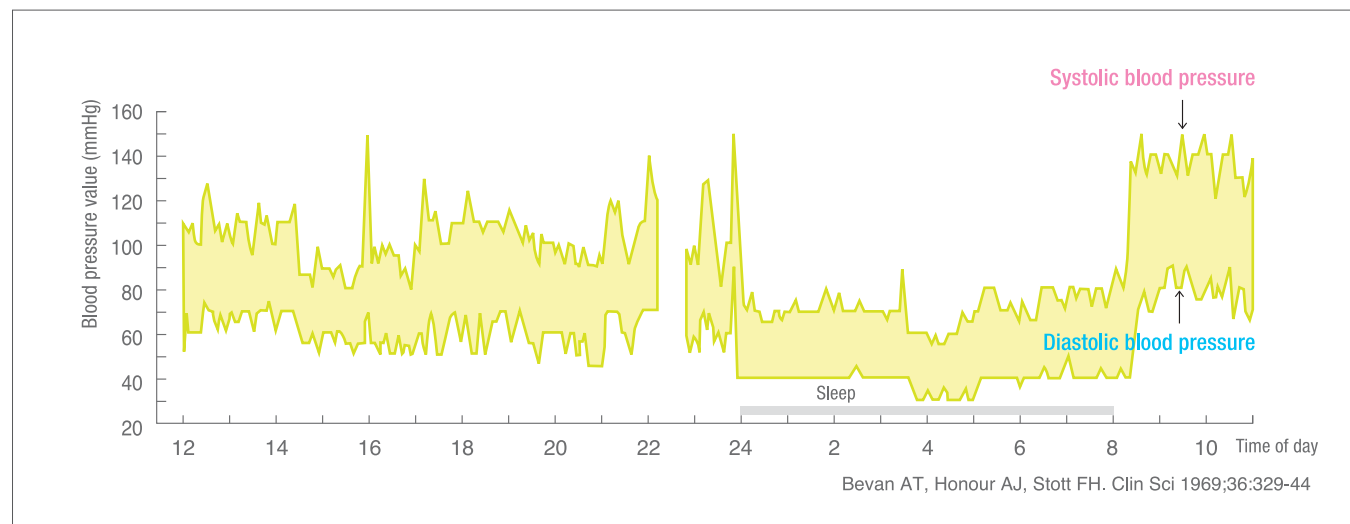
What is blood pressure?

The heart is a pump that circulates blood throughout your body. Blood is pumped from the heart at a constant pressure into arteries. This pressure is called the arterial blood pressure and represents, in general terms, your blood pressure. Blood pressure is indicated by several kinds of pressures, including the systolic pressure that occurs when the heart pumps blood and the diastolic pressure that occurs when blood returns to the heart.



Your blood pressure changes all the time.

Your blood pressure differs according to your age, gender and a range of other factors. It is likely to be affected by your biorythm during the day and by your posture, physical activities, mental activities, level of stress and even by the air temperature. The blood pressure of a healthy person generally varies within a day.

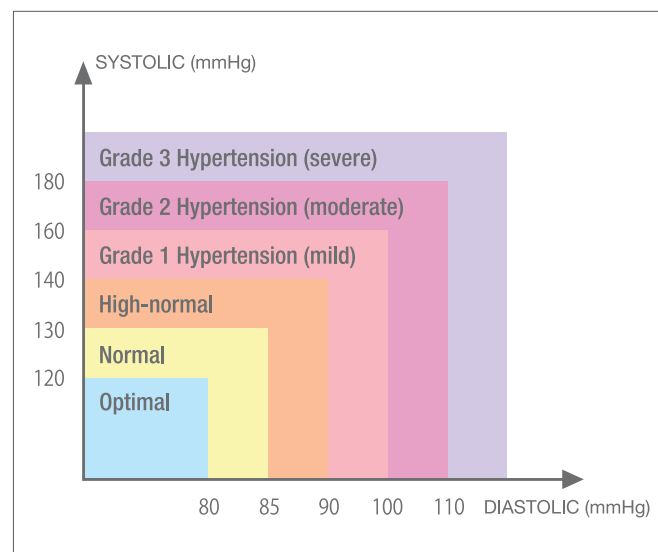


Blood pressure classifications

The figure right shows the blood pressure classifications under the WHO standards.

(Taking measurements while sitting in the hospital)

[WHO / ISH : 1999]

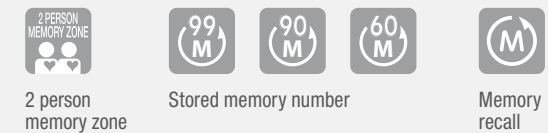


Function mark explanation

Measurement Method Measurement Point



Main Features Memory Function



Average Memory



Markings



Other Specifications



Battery Life



Accessories



How to operate

CHU503、CH-456、CH-453、CH-452



1 Wrap the Cuff around your arm and make sure the blue marker is located in the center of your arm.



2 Place your arm on a table with your palm opened and relaxed. Press the START/STOP switch to start measurement.



3 The blood pressure generally varies in a day. Preferably, you should measure your blood pressure at the same time each day wherever possible.

STYLISH BLACK

Only available in select markets.



CH-453



CH-657

Limited Edition



CH-453

Irregular heart beat indicator
Body movement indicator
90 memory
Average of last 3 readings
Easy to read LCD display

Automatic power off
Simultaneous blood pressure
and pulse reading
Large cuff is optional



CH-452

90 memory
Average of last 3 readings
Easy to read LCD display
Automatic power off
Large cuff is optional



CH-657

Irregular heartbeat indicator
Body movement indicator
90 memory
Average of last 3 readings
Easy to read LCD display

Automatic power off
Handy and slim design
With compact storage case
Simultaneous blood pressure
and pulse reading



CH-650

Irregular heartbeat indicator
Body movement indicator
60 memory
Average of last 3 readings
Easy to read LCD display

Automatic power off
With storage case
Simultaneous blood pressure
and pulse reading

Digital Blood Pressure Monitor

Upper arm/ Full automatic

new

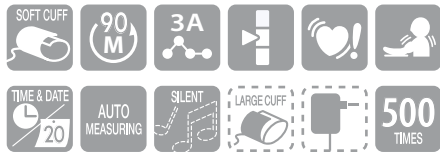
CE 0086

CHU503



Measurement system Oscillometric method
 Measurement range Pressure : 0 - 280 mmHg
 Pulse : 40 - 180 pulse/min
 Accuracy Pressure : ±3 mmHg
 Pulse : ±5 %
 Power source AA size×4
 Optional AC/DC adapter (DC 6V, 0.6A)
 Battery life Manganese battery : Approx. 150 times
 Alkaline battery : Approx. 500 times
 Rated voltage DC6V≐3W (≐ : Direct Current)
 Outside dimensions W145×H76×D96 mm
 Weight Unit : Approx. 290g (without batteries)
 Cuff : Approx. 130g

- Hypertension indicator
- Irregular heartbeat indicator
- Body movement indicator
- 90 memory
- Average of last 3 readings
- Easy to read LCD display
- Automatic power off
- Simultaneous blood pressure and pulse reading
- Time and date
- Large cuff is optional
- AC adapter is optional (AC-230CZ)



CE 0086

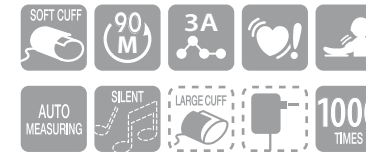
CH-453 CH-453-AC



Measurement system Oscillometric method
 Measurement range Pressure : 0 - 280 mmHg
 Pulse : 40 - 180 pulse/min
 Accuracy Pressure : ±3 mmHg
 Pulse : ±5 %
 Power source AA size×4
 Optional AC/DC adapter (DC 6V, 0.6A)
 Battery life Manganese battery : Approx. 300 times
 Alkaline battery : Approx. 1,000 times
 Rated voltage DC6V ≐ 3W (≐ : Direct Current)
 Outside dimensions W130×H53×D118 mm
 Weight Unit : Approx. 240g (without batteries)
 Cuff : Approx. 130g

- Irregular heartbeat indicator
- Body movement indicator
- 90 memory
- Average of last 3 readings
- Easy to read LCD display
- Automatic power off
- Simultaneous blood pressure and pulse reading
- Large cuff is optional

CH-453-AC
 ■ AC adapter is optional (AC-230CZ)



CE 0086

CH-456



Measurement system Oscillometric method
 Measurement range Pressure : 0 - 280 mmHg
 Pulse : 40 - 180 pulse/min
 Accuracy Pressure : ±3 mmHg
 Pulse : ±5 %
 Power source AA size×4
 Optional AC/DC adapter (DC 6V, 0.6A)
 Battery life Manganese battery : Approx. 150 times
 Alkaline battery : Approx. 500 times
 Rated voltage DC6V≐3W (≐ : Direct Current)
 Outside dimensions W105×H166×D122 mm
 Weight Unit : Approx. 390g (without batteries)
 Cuff : Approx. 130g

- Irregular heartbeat indicator
- Body movement indicator
- 90 memory
- Average of last 3 readings
- Easy to read LCD display
- Cuff storage holder
- Automatic power off
- Simultaneous blood pressure and pulse reading
- Time and date
- Large cuff is optional
- AC adapter is optional (AC-230CZ)



CE 0086

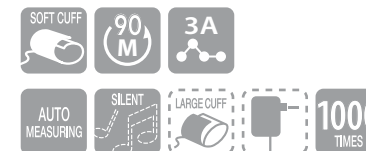
CH-452 CH-452-AC



Measurement system Oscillometric method
 Measurement range Pressure : 0 - 280 mmHg
 Pulse : 40 - 180 pulse/min
 Accuracy Pressure : ±3 mmHg
 Pulse : ±5 %
 Power source AA size×4
 Optional AC/DC adapter (DC 6V, 0.6A)
 Battery life Manganese battery : Approx. 300 times
 Alkaline battery : Approx. 1,000 times
 Rated voltage DC6V ≐ 3W (≐ : Direct Current)
 Outside dimensions W129×H55×D119 mm
 Weight Unit : Approx. 240g (without batteries)
 Cuff : Approx. 130g

- 90 memory
- Average of last 3 readings
- Easy to read LCD display
- Automatic power off
- Large cuff is optional

CH-452-AC
 ■ AC adapter is optional (AC-230CZ)



Digital Blood Pressure Monitor

Upper arm/ Semi automatic



CH-311B

Measurement system Oscillometric method
 Measurement range Pressure : 0 - 280 mmHg
 Pulse : 40 - 180 pulse/min
 Accuracy Pressure : ±3 mmHg
 Pulse : ±5 %
 Power source AAA size×2
 Battery life Manganese battery : Approx. 700 times
 Rated voltage DC3V --- 0.1W (--- : Direct Current)
 Outside dimensions W66.5×H44.5×D161.5 mm
 Weight Unit : Approx. 110g (without batteries)
 Cuff : Approx. 130g

- Memory recall function
- One handed operation
- Easy to read LCD display
- Automatic power off
- Simultaneous blood pressure and pulse reading



Wrist/ Full automatic

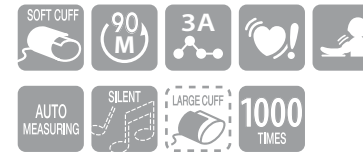
new Only available in select markets.

CH-453

BLACK

Measurement system Oscillometric method
 Measurement range Pressure : 0 - 280 mmHg
 Pulse : 40 - 180 pulse/min
 Accuracy Pressure : ±3 mmHg
 Pulse : ±5 %
 Power source AA size×4
 Optional AC/DC adapter (DC 6V, 0.6A)
 Battery life Manganese battery : Approx. 300 times
 Alkaline battery : Approx. 1,000 times
 Rated voltage DC6V --- 3W (--- : Direct Current)
 Outside dimensions W130×H53×D118 mm
 Weight Unit : Approx. 240g (without batteries)
 Cuff : Approx. 130g

- Irregular heartbeat indicator
- Body movement indicator
- 90 memory
- Average of last 3 readings
- Easy to read LCD display
- Automatic power off
- Simultaneous blood pressure and pulse reading
- Large cuff is optional



CH-308B

Measurement system Oscillometric method
 Measurement range Pressure : 0 - 280 mmHg
 Pulse : 40 - 200 pulse/min
 Accuracy Pressure : ±3 mmHg
 Pulse : ±5 %
 Power source AA size×4
 Battery life Manganese battery : Approx. 1,000 times
 Rated voltage DC6V --- 0.1W (--- : Direct Current)
 Outside dimensions W123×H44×D95 mm
 Weight Unit : Approx. 120g (without batteries)
 Cuff : Approx. 130g
 Pumping bulb unit : Approx. 40g

- Memory recall function
- Large button
- Automatic power off



new Only available in select markets.

CH-452

BLACK

Measurement system Oscillometric method
 Measurement range Pressure : 0 - 280 mmHg
 Pulse : 40 - 180 pulse/min
 Accuracy Pressure : ±3 mmHg
 Pulse : ±5 %
 Power source AA size×4
 Optional AC/DC adapter (DC 6V, 0.6A)
 Battery life Manganese battery : Approx. 300 times
 Alkaline battery : Approx. 1,000 times
 Rated voltage DC6V --- 3W (--- : Direct Current)
 Outside dimensions W129×H55×D119 mm
 Weight Unit : Approx. 240g (without batteries)
 Cuff : Approx. 130g

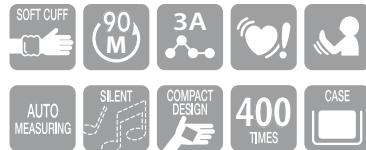
- 90 memory
- Average of last 3 readings
- Easy to read LCD display
- Automatic power off
- Large cuff is optional



Digital Blood Pressure Monitor

Wrist/ Full automatic

new Only available in select markets.

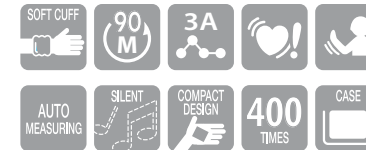


CH-657

BLACK

Measurement system Oscillometric method
 Measurement range Pressure : 0 - 280 mmHg
 Pulse : 40 - 180 pulse/min
 Accuracy Pressure : ± 3 mmHg
 Pulse : ± 5 %
 Power source AAA size $\times 2$
 Battery life Alkaline battery : Approx. 400 times
 Rated voltage DC3V \equiv 3W (\equiv : Direct Current)
 Outside dimensions W69 \times H70 \times D15 mm
 Weight Approx. 86g (without batteries)

- Irregular heartbeat indicator
- Body movement indicator
- 90 memory
- Average of last 3 readings
- Easy to read LCD display
- Automatic power off
- Handy and slim design
- With compact storage case
- Simultaneous blood pressure and pulse reading



CE 0086

CH-657

Measurement system Oscillometric method
 Measurement range Pressure : 0 - 280 mmHg
 Pulse : 40 - 180 pulse/min
 Accuracy Pressure : ± 3 mmHg
 Pulse : ± 5 %
 Power source AAA size $\times 2$
 Battery life Alkaline battery : Approx. 400 times
 Rated voltage DC3V \equiv 3W (\equiv : Direct Current)
 Outside dimensions W69 \times H70 \times D15 mm
 Weight Approx. 86g (without batteries)

- Irregular heartbeat indicator
- Body movement indicator
- 90 memory
- Average of last 3 readings
- Easy to read LCD display
- Automatic power off
- Handy and slim design
- With compact storage case
- Simultaneous blood pressure and pulse reading



new Only available in select markets.



CH-650

BLACK

Measurement system Oscillometric method
 Measurement range Pressure : 0 - 280 mmHg
 Pulse : 40 - 180 pulse/min
 Accuracy Pressure : ± 3 mmHg
 Pulse : ± 5 %
 Power source AAA size $\times 2$
 Battery life Alkaline battery : Approx. 400 times
 Rated voltage DC3V \equiv 3W (\equiv : Direct Current)
 Outside dimensions W65 \times H74 \times D29 mm
 Weight Approx. 103g (without batteries)

- Irregular heartbeat indicator
- Body movement indicator
- 60 memory
- Average of last 3 readings
- Easy to read LCD display
- Automatic power off
- With storage case
- Simultaneous blood pressure and pulse reading

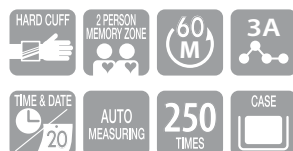


CE 0086

CH-650

Measurement system Oscillometric method
 Measurement range Pressure : 0 - 280 mmHg
 Pulse : 40 - 180 pulse/min
 Accuracy Pressure : ± 3 mmHg
 Pulse : ± 5 %
 Power source AAA size $\times 2$
 Battery life Alkaline battery : Approx. 400 times
 Rated voltage DC3V \equiv 3W (\equiv : Direct Current)
 Outside dimensions W65 \times H74 \times D29 mm
 Weight Approx. 103g (without batteries)

- Irregular heartbeat indicator
- Body movement indicator
- 60 memory
- Average of last 3 readings
- Easy to read LCD display
- Automatic power off
- With storage case
- Simultaneous blood pressure and pulse reading

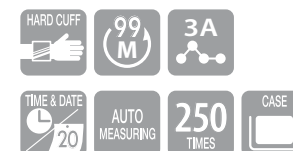


CE 0197

CH-618

Measurement system Oscillometric method
 Measurement range Pressure : 0 - 300 mmHg
 Pulse : 40 - 280 pulse/min
 Accuracy Pressure : ± 3 mmHg
 Pulse : ± 5 %
 Power source AAA size $\times 2$
 Battery life Alkaline battery : Approx. 250 times
 Rated voltage DC3V \equiv 3W (\equiv : Direct Current)
 Outside dimensions W70 \times H72 \times D29.5 mm
 Weight Approx. 127g (without batteries)

- 2-person memory zone (60 memories each)
- Simultaneous blood pressure and pulse reading
- Average of last 3 readings
- Time and date
- Automatic power off
- With storage case



CE 0197

CH-617

Measurement system Oscillometric method
 Measurement range Pressure : 0 - 300 mmHg
 Pulse : 40 - 280 pulse/min
 Accuracy Pressure : ± 3 mmHg
 Pulse : ± 5 %
 Power source AAA size $\times 2$
 Battery life Alkaline battery : Approx. 250 times
 Rated voltage DC3V \equiv 3W (\equiv : Direct Current)
 Outside dimensions W72 \times H72 \times D29.5 mm
 Weight Approx. 121g (without batteries)

- 99 memory
- Simultaneous blood pressure and pulse reading
- Average of last 3 readings
- Time and date
- Automatic power off
- With storage case



Digital Blood Pressure Monitor

Upper arm / Full automatic



| MODEL | CHU503 | CH-456 | CH-453 |
|--|--|--|--|
| Outside dimensions | 145 × 76 × 96 mm | 105 × 166 × 122 mm | 130 × 53 × 118 mm |
| Weight (without batteries) | Unit: Approx. 290 g Cuff: Approx. 130 g | Unit: Approx. 390 g Cuff: Approx. 130 g | Unit: Approx. 240 g Cuff: Approx. 130 g |
| Cuff (22.0 - 32.0cm) | Soft cuff | Soft cuff | Soft cuff |
| Memory | 90 memory | 90 memory | 90 memory |
| Average | Last 3 readings | Last 3 readings | Last 3 readings |
| Irregular heartbeat indicator | ● | ● | ● |
| Body movement indicator | ● | ● | ● |
| Hypertension indicator | ● | — | — |
| Display simultaneously | ● | ● | ● |
| Auto measuring | ● | ● | ● |
| Auto power off | ● | ● | ● |
| Time & Date | ● | ● | — |
| Battery life | 500 times | 500 times | 1,000 times |
| Power source | AA size × 4 | AA size × 4 | AA size × 4 |
| Option (Large cuff:32.0 - 42.0cm ^X) | ● | ● | ● |
| Option (AC/DC adapter) | ● | ● | White model only |
| Silent | ● | ● | ● |
| Page | P.6 | P.6 | P.7/P.9 |

X: The large cuff is available in gray only.

Upper arm / Semi automatic



| MODEL | CH-452 | CH-311B | CH-308B |
|--|--|--|--|
| Outside dimensions | 129 × 55 × 119 mm | 66.5 × 44.5 × 161.5 mm | 123 × 44 × 95 mm |
| Weight (without batteries) | Unit: Approx. 240 g Cuff: Approx. 130 g | Unit: Approx. 110 g Cuff: Approx. 130 g | Unit: Approx. 120 g Cuff: Approx. 130 g Pumping bulb: Approx. 40 g |
| Cuff (22.0 - 32.0cm) | Soft cuff | Soft cuff | Soft cuff |
| Memory | 90 memory | Memory recall | Memory recall |
| Average | Last 3 readings | — | — |
| Irregular heartbeat indicator | — | — | — |
| Body movement indicator | — | — | — |
| Hypertension indicator | — | — | — |
| Display simultaneously | — | ● | — |
| Auto measuring | ● | — | — |
| Auto power off | ● | ● | ● |
| Time & Date | — | — | — |
| Battery life | 1,000 times | 700 times | 1,000 times |
| Power source | AA size × 4 | AAA size × 2 | AA size × 4 |
| Option (Large cuff:32.0 - 42.0cm ^X) | ● | — | — |
| Option (AC/DC adapter) | White model only | — | — |
| Silent | ● | — | — |
| Page | P.7/P.9 | P.8 | P.8 |

Wrist / Full automatic



| MODEL | CH-657 | CH-650 |
|-------------------------------|-----------------|-----------------|
| Outside dimensions | 69 × 70 × 15 mm | 65 × 74 × 29 mm |
| Weight (without batteries) | Approx. 86 g | Approx. 103 g |
| Cuff (13.5 - 21.5cm) | Soft cuff | Hard cuff |
| Memory | 90 memory | 60 memory |
| Average | Last 3 readings | Last 3 readings |
| Irregular heartbeat indicator | ● | ● |
| Body movement indicator | ● | ● |
| Display simultaneously | ● | ● |
| Auto measuring | ● | ● |
| Auto power off | ● | ● |
| Time & Date | — | — |
| Battery life | 400 times | 400 times |
| Power source | AAA size × 2 | AAA size × 2 |
| Case | ● | ● |
| Page | P.10/P.11 | P.10/P.11 |

| MODEL | CH-618 | CH-617 |
|-------------------------------|-------------------|-------------------|
| Outside dimensions | 70 × 72 × 29.5 mm | 70 × 72 × 29.5 mm |
| Weight (without batteries) | Approx. 127 g | Approx. 121 g |
| Cuff (13.5 - 21.5cm) | Hard cuff | Hard cuff |
| Memory | 2 × 60 memory | 99 memory |
| Average | Last 3 readings | Last 3 readings |
| Irregular heartbeat indicator | — | — |
| Body movement indicator | — | — |
| Display simultaneously | ● | ● |
| Auto measuring | ● | ● |
| Auto power off | ● | ● |
| Time & Date | ● | ● |
| Battery life | 250 times | 250 times |
| Power source | AAA size × 2 | AAA size × 2 |
| Case | ● | ● |
| Page | P.10 | P.11 |

Digital Thermometer

Stick type

new

CE
0434

CTA301

CELSIUS(°C) · FAHRENHEIT(°F)

Measurement method Temperature peak hold thermometer
 Measurement range 32.0 °C - 42.9 °C (90.0 °F - 109.9 °F)
 Accuracy Celsius : ±0.1 °C (35.5 - 42.0 °C)
 Fahrenheit : ±0.2 °F (95.9 - 107.6 °F)
 Display 3 digits with decimal point, °C, °F,
 battery weak mark and memory mark
 Battery DC1.5V (Micro Alkaline Battery : LR41×1)
 Battery life Approx. 2 years (If used 10 minutes a day)
 Outside dimensions Approx. W19×L126.7×D11.2 mm
 Weight Approx. 9.7g (including battery)

- °C / °F switching
- General purpose use
- Auto memory recall of last reading
- Buzzer notice
- 3 digits display
- Auto power off



CT461C

CELSIUS(°C)

Measurement method Temperature peak hold thermometer
 Measurement range 32.0 °C - 44.0 °C
 Accuracy Celsius : ±0.1 °C
 Display 3 digits with decimal point, °C,
 battery weak mark and memory mark
 DC1.5V (Micro Alkaline Battery : LR41×1)
 Battery life Approx. 1.5 years (If used 10 minutes a day)
 Outside dimensions Approx. W18.2×L130.8×D11.6 mm
 Weight Approx. 11.2g (including battery)

- General purpose use
- Auto memory recall of last reading
- Buzzer notice
- 3 digits display
- Auto power off



new

CE
0434

CTA302

CELSIUS(°C) · FAHRENHEIT(°F)

Measurement method Temperature peak hold thermometer
 Measurement range 32.0 °C - 42.9 °C (90.0 °F - 109.9 °F)
 Accuracy Celsius : ±0.1 °C (35.5 - 42.0 °C)
 Fahrenheit : ±0.2 °F (95.9 - 107.6 °F)
 Display 3 digits with decimal point, °C, °F,
 battery weak mark and memory mark
 Battery DC1.5V (Micro Alkaline Battery : LR41×1)
 Battery life Approx. 2 years (If used 10 minutes a day)
 Outside dimensions Approx. W19×L126.7×D11.2 mm
 Weight Approx. 9.7g (including battery)

- °C / °F switching
- General purpose use
- Water resistant & fully washable
- Auto memory recall of last reading
- Buzzer notice
- 3 digits display
- Auto power off



CT561C

CELSIUS(°C)

Measurement method Temperature peak hold thermometer
 Measurement range 32.0 °C - 44.0 °C
 Accuracy Celsius : ±0.1 °C
 Display 3 digits with decimal point, °C,
 battery weak mark and memory mark
 DC1.5V (Micro Alkaline Battery : LR41×1)
 Battery life Approx. 1.5 years (If used 10 minutes a day)
 Outside dimensions Approx. W18.2×L130.8×D11.6 mm
 Weight Approx. 11.2g (including battery)

- General purpose use
- Water resistant & fully washable
- Auto memory recall of last reading
- Buzzer notice
- 3 digits display
- Auto power off



new

CE
0434

CTA303

CELSIUS(°C) · FAHRENHEIT(°F)

Measurement method Temperature peak hold thermometer
 Measurement range 32.0 °C - 42.9 °C (90.0 °F - 109.9 °F)
 Accuracy Celsius : ±0.1 °C (35.5 - 42.0 °C)
 Fahrenheit : ±0.2 °F (95.9 - 107.6 °F)
 Display 3 digits with decimal point, °C, °F,
 battery weak mark and memory mark
 Battery DC1.5V (Micro Alkaline Battery : LR41×1)
 Battery life Approx. 2 years (If used 10 minutes a day)
 Outside dimensions Approx. W19×L126.7×D11.2 mm
 Weight Approx. 10.2g (including battery)

- °C / °F switching
- General purpose use
- Water resistant & fully washable
- Auto memory recall of last reading
- Buzzer notice
- 3 digits display
- Auto power off
- Antibacterial Thermometer



CE
0086

CT513W

CELSIUS(°C)

Measurement method Temperature peak hold thermometer
 Measurement range 32.0 °C - 42.0 °C
 Accuracy ±0.1 °C (35.5 - 42.0 °C)
 Display 3 digits with decimal point, °C,
 battery weak mark and memory mark "M"
 DC1.5V (Micro Alkaline Battery : LR41×1)
 Battery life Approx. 3 years
 (If used 3 times a day, for 10 minutes each time)
 Outside dimensions Approx. W17×L129×D8 mm
 Weight Approx. 10g (including battery)

- General purpose use
- Water resistant & fully washable
- Auto memory recall of last reading
- Buzzer notice
- 3 digits display
- Auto power off
- Antibacterial Thermometer



Digital Thermometer

Ear type

new



CTD504

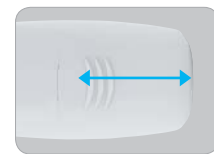
CELSIUS(°C) · FAHRENHEIT(°F)

Measurement range 34.0 °C - 43.0 °C (93.2 °F - 109.4 °F)
 Accuracy Celsius: ±0.2 °C (35.5 - 42.0 °C)
 Fahrenheit: ±0.4 °F (95.9 - 107.6 °F)
 Other range: ±0.3 °C (±0.5 °F)
 Display 3digit with decimal point, °C, °F,
 Low Battery Symbol mark,
 Too High Ambient Temperature mark,
 Too Low Ambient Temperature mark,
 Ready to Use Symbol mark,
 Memory Mode Symbol mark.
 Battery DC3V (Lithium Battery : CR2032×1)
 Battery life 1,500 times
 Outside dimensions Approx. W39×L120×D52 mm
 Weight Approx. 68.6g (including battery)

- Antibacterial Ear Thermometer
- No need to use probe cover
- 1 - 3 second measurement
- 12 memory
- °C / °F switching
- Auto power off



Easy-to-replace battery



Measurement result with this unit may be different from a result by other type of thermometers due to a different measuring place.

Function mark explanation

Celsius/
Fahrenheit



Celsius



°C/°F
Conversion

Measurement
Method
Measurement
Point



Earlobe
measuring

Main Features
and Specifications



Display



Water
resistant



Anti bacterial
material

Memory and
Notification



12 memory



Memory
recall



Buzzer
notice



Prove cover is
not necessarily



Measuring
Speed

Battery type
Battery Life

(Approximate Value)



Battery life



3
YEARS



2
YEARS



1.5
YEARS

Accessories



Case



Case



Basics of Ear Thermometers

How the ear thermometer works

Every object radiates heat. The CTD504 has an infrared sensor built into the probe. It detects heat radiated from the eardrum and its surroundings to measure body temperature.

Performing proper measurements

For accurate measurements, it is important to straighten the ear canal and direct the tip of the probe straight toward the eardrum.



Digital Thermometer



| MODEL | CTA301 | CTA302 | CTA303 | CT461C | CT561C | CT513W | CTD504 |
|----------------------------|----------------------|----------------------|----------------------|------------------------|------------------------|-----------------|------------------|
| Unit size (Approx.) | 19 × 126.7 × 11.2 mm | 19 × 126.7 × 11.2 mm | 19 × 126.7 × 11.2 mm | 18.2 × 130.8 × 11.6 mm | 18.2 × 130.8 × 11.6 mm | 17 × 129 × 8 mm | 39 × 120 × 52 mm |
| Weight (including battery) | Approx. 9.7 g | Approx. 9.7 g | Approx. 10.2 g | Approx. 11.2 g | Approx. 11.2 g | Approx. 10 g | Approx. 68.6 g |
| Display | 3 digits | 3 digits | 3 digits | 3 digits | 3 digits | 3 digits | 3 digits |
| Anti bacterial | — | — | ● | — | — | ● | ● |
| Water resistant | — | ● | ● | — | ● | ● | — |
| Buzzer | ● | ● | ● | ● | ● | ● | ● |
| Auto power off | ● | ● | ● | ● | ● | ● | ● |
| Memory | Memory recall | Memory recall | Memory recall | Memory recall | Memory recall | Memory recall | 12 memory |
| Battery life | 2 years | 2 years | 2 years | 1.5 years | 1.5 years | 3 years | 1,500 times |
| Power source | LR41 × 1 | LR41 × 1 | LR41 × 1 | LR41 × 1 | LR41 × 1 | LR41 × 1 | CR2032 × 1 |

TW610 (US model)

| | |
|-----------------------|---|
| Step detection system | 3-D acceleration sensor |
| Display | LCD |
| Display contents | Date and time 24-hour system Step maximum 999999 steps Calorie consumption Maximum 99999.9kcal Amount of burnt fat Maximum 9999.9g Walking distance Maximum 999.99 miles Walking time Maximum 99999 minutes Average of walking speed Maximum 99.99 mile/hr Exercise Maximum 99.9Ex Target attainment lever 0 to 8 (on a scale of 9) |
| Memory | 14-day |
| Power source | Type CR2032×1 |
| Battery life | Approx. 6 months (when walking approx. 10000 steps on average per day) |
| Outside dimensions | Approx. W73×H31×D10 mm |
| Weight | Approx. 25g |



Actual Size

- Thin-type pedometer
- 3-D acceleration sensor
- Indication of amount of exercise
- Accumulated data for 7-day period
- Memory for 14 days
- Drip-proof construction
- Function for preventing measuring errors when walking
- Power saving mode
- Colors available: red or black

What is an amount of exercise?

Amount of exercise (Ex) refers to the unit indicating the amount of physical activity. To prevent lifestyle diseases, you are recommended to actively engage in a minimum of 23 Ex physical activities (exercise and daily activities) a week. It is also recommended that you check with the guideline by the health authority in your area.

Amount of exercise (Ex)

= Intensity of physical activities (METs) × Time (hr)

Intensity of physical activities (METs) multiplied by duration (hr) of physical activity makes an amount of exercise (Ex) .

METs

= Metabolic Equivalents, the unit of intensity of physical activities

The unit for expressing the “intensity of physical activities” by the multiplication equivalent to the counterpart during rest. Normal walking is equivalent to 3 METs. This product indicates the amount of exercise (Ex) by the number of steps.

Reference)

Normal walking (3 METs) × 1 hour = 3 Ex

Fast walking (4 METs) × 1 hour = 4 Ex

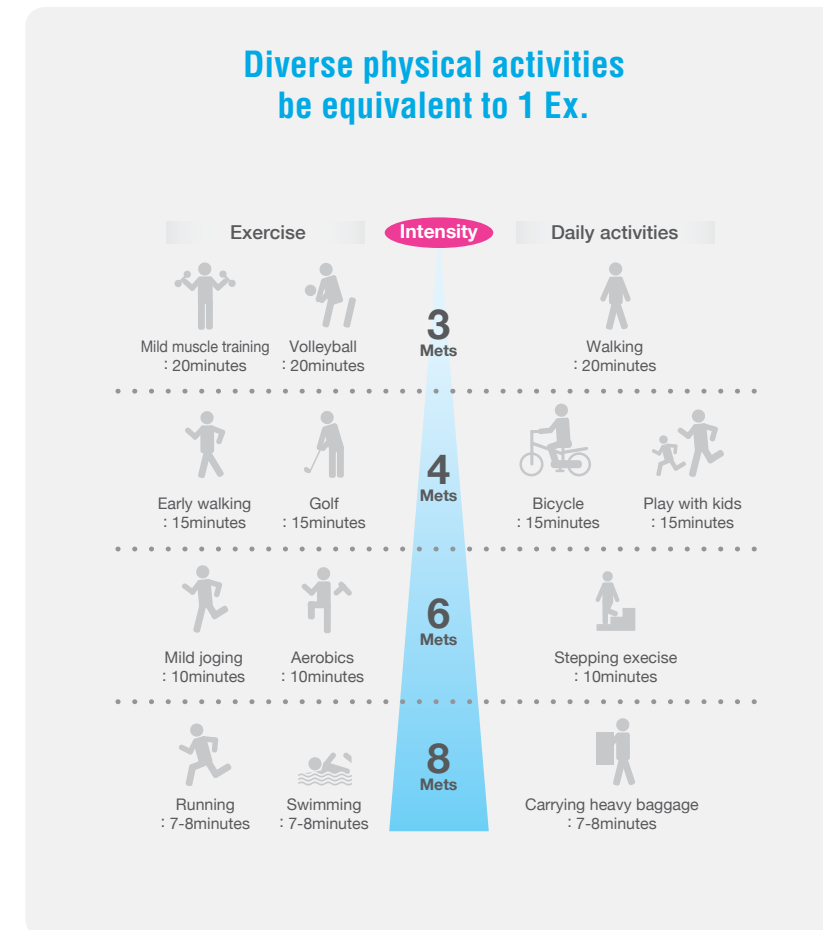
TW310 (US model)

| | |
|-----------------------|---|
| Step detection system | 3-D acceleration sensor |
| Display | LCD |
| Display contents | Step maximum 99999 steps |
| Memory | 1-day |
| Power source | Type CR2032×1 |
| Battery life | Approx. 1year (when walking approximately 10000 steps on average per day) |
| Outside dimensions | Approx. W65×H33×D12 mm |
| Weight | Approx. 18g |



Actual Size

- Thin-type pedometer
- 3-D acceleration sensor
- Automatic power off
- Function for preventing measuring errors when walking
- Power saving mode
- Colors available: red or white



Nebulizer

Ultrasonic type



CUN60-CE CUN60-120V



| | |
|-------------------------|---|
| Power | AC220-240V, 50/60Hz AC100V, 50/60Hz |
| Power consumption | Approx. 10W |
| Ultrasonic Frequency | 2.5 MHz |
| Nebulization rate | 3-speed adjustable |
| Particle size | 5µm MMAD |
| Medication cup capacity | Max. 8ml |
| Auto shut-off timer | Approx. 10min |
| Dimensions | W88×H143×D53 mm |
| Weight | Approx. 350g (including rechargeable battery-pack) |
| Accessories | Nose piece, Mouth nozzle, Extension tube, Adult & child masks, AC adapter, Medication cup (5 pcs.) and Soft carrying case |

- Handy design
with built-in detachable rechargeable battery pack, compact and light-weight
- Easy to use
uses water as ultrasonic conducting medium, no gel is required
- Silent operation
thanks to the ultrasonic vibration technology
- 3-speed nebulization rate control
provides optimal treatment for different density
- Built-in timer
automatically shuts off after 10 minutes use



Totally portable

Model Index

Digital Blood Pressure Monitor/Option

| Model No. | Gift Box Size | | | Weight (g) | Master Carton | | | Jan Code | Page |
|--------------|---------------------|-----|-----|------------|---------------|-------|------|---------------|------|
| | Dimension (L×W×Hmm) | | | | Packed Q'TY | M3 | Kg | | |
| CHU503 | 110 | 165 | 120 | 687 | 20 | 0.060 | 14.9 | 4580193651334 | 6 |
| CH-456 | 130 | 112 | 185 | 788 | 20 | 0.073 | 17.0 | 4580193650900 | 6 |
| CH-453 | 165 | 130 | 90 | 607 | 20 | 0.050 | 13.7 | 4580193650634 | 7 |
| CH-453-AC | 165 | 130 | 90 | 607 | 20 | 0.050 | 13.7 | 4580193650801 | 7 |
| CH-453 BLACK | 165 | 130 | 90 | 607 | 10 | 0.027 | 7.1 | 4580193651297 | 9 |
| CH-452 | 165 | 130 | 90 | 601 | 20 | 0.050 | 13.0 | 4580193650603 | 7 |
| CH-452-AC | 165 | 130 | 90 | 601 | 20 | 0.050 | 13.0 | 4580193650795 | 7 |
| CH-452 BLACK | 165 | 130 | 90 | 601 | 10 | 0.027 | 7.1 | 4580193651280 | 9 |
| CH-311B | 185 | 115 | 95 | 468 | 20 | 0.050 | 11.5 | 4562195130079 | 8 |
| CH-308B | 180 | 140 | 88 | 490 | 10 | 0.029 | 6.6 | 4966006708028 | 8 |
| CH-657 | 94 | 54 | 133 | 276 | 40 | 0.038 | 12.0 | 4580193650627 | 11 |
| CH-657 BLACK | 94 | 54 | 133 | 276 | 20 | 0.020 | 6.4 | 4580193651310 | 10 |
| CH-650 | 98 | 91 | 135 | 302 | 40 | 0.063 | 13.2 | 4580193650702 | 11 |
| CH-650 BLACK | 98 | 91 | 135 | 302 | 20 | 0.035 | 8.0 | 4580193651303 | 10 |
| CH-618 | 104 | 90 | 110 | 312 | 20 | 0.030 | 6.9 | 4580193650887 | 10 |
| CH-617 | 104 | 90 | 110 | 305 | 20 | 0.030 | 6.7 | 4580193650870 | 11 |
| AC-230CZ | 51 | 89 | 80 | 95 | 50 | 0.028 | 5.3 | 4580193650924 | - |

Digital Thermometer

| Model No. | Gift Box Size | | | Weight (g) | Master Carton | | | Jan Code | Page |
|-----------|---------------------|-----|-----|------------|---------------|-------|------|---------------|------|
| | Dimension (L×W×Hmm) | | | | Packed Q'TY | M3 | Kg | | |
| CTA301 | 40 | 170 | 20 | 24 | 200 | 0.044 | 6.6 | 4580193651259 | 14 |
| CTA302 | 40 | 170 | 20 | 24 | 200 | 0.044 | 6.6 | 4580193651266 | 14 |
| CTA303 | 40 | 170 | 20 | 25 | 200 | 0.044 | 6.7 | 4580193651273 | 14 |
| CT461C | 40 | 150 | 17 | 44 | 200 | 0.042 | 10.7 | 4966006627886 | 15 |
| CT561C | 40 | 150 | 17 | 44 | 200 | 0.042 | 10.7 | 4966006627909 | 15 |
| CT513W | 42 | 184 | 19 | 43 | 200 | 0.043 | 10.7 | 4966006627602 | 15 |
| CTD504 | 88 | 62 | 158 | 228 | 40 | 0.044 | 9.8 | 4580193651242 | 16 |

Digital Pedometer

| Model No. | Gift Box Size | | | Weight (g) | Master Carton | | | Jan Code | Page |
|------------------|---------------------|-----|----|------------|---------------|-------|------|----------|------|
| | Dimension (L×W×Hmm) | | | | Packed Q'TY | M3 | Kg | | |
| TW610 (US model) | 77 | 140 | 20 | 72 | 144 | 0.061 | 13.1 | — | 18 |
| TW310 (US model) | 77 | 140 | 20 | 50 | 144 | 0.061 | 10.0 | — | 18 |

Nebulizer

| Model No. | Gift Box Size | | | Weight (g) | Master Carton | | | Jan Code | Page |
|------------|---------------------|-----|-----|------------|---------------|-------|------|---------------|------|
| | Dimension (L×W×Hmm) | | | | Packed Q'TY | M3 | Kg | | |
| CUN60-CE | 175 | 175 | 120 | 1300 | 10 | 0.046 | 13.6 | 4966006689211 | 20 |
| CUN60-120V | 175 | 175 | 120 | 1250 | 10 | 0.046 | 13.1 | 4966006708158 | 20 |



CITIZEN SYSTEMS JAPAN CO., LTD.

6-1-12,TANASHI-CHO,NISHI-TOKYO-SHI,TOKYO 188-8511,JAPAN

Tel.(81)-424-68-4988 Fax.(81)-424-68-4996

<http://www.citizen-systems.co.jp>

e-mail : sales-oe@systems.citizen.co.jp

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