

iMerciv BuzzClip

Product Manual

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Getting Familiar with your BuzzClip

Your BuzzClip consists of 3 main parts:

The Rounded Top (A) – This rounded enclosure is the main control panel for the BuzzClip and can be found at the top of the device. The sensor is housed here and it slightly protrudes out of the rounded enclosure. The buttons are located to the left and right of the sensor.

The Main Body (B) – This is where the battery, circuit board and charging port are housed. The main body has a chamfered edge around it so you can run your finger along it to find the Micro-USB charging port.

The Vibrational Arm (C) – This part is always in contact with your body, so you can easily feel the vibrations. It is located at the back or bottom of the device. The arm has a rounded rectangular protrusion that houses the vibration motor. This arm can be opened or closed through a simple push and pull motion so that you can adjust it in order to ensure proper contact with your body while you wear it.



Operating Bu

Turning On your BuzzClip:

1. With the BuzzClip in your palm, you should be able to feel a circular ring which is the sensor. To the left of the sensor, there is a groove with a single tactile marking to indicate the On/Off button.

2. Press and hold this button to turn on your BuzzClip. You should then immediately feel a series of vibrations followed by two longer vibrations. The shorter initial vibrations indicate the BuzzClip's battery level:

- 4 vibrations indicate that the battery is above 75%.
- 3 vibrations indicate that the battery is between 50% -75%.
- 2 vibrations indicate that the battery is between 25% -50%.
- 1 vibration indicates that the battery is less than 25%. Charge it soon!

The two longer vibrations that follow are to let you know that the BuzzClip is ready to go and begin detecting obstacles around you.

3. Your BuzzClip's default starting mode is a two-meter range.

Switching Between Modes on your BuzzClip:

1. With the BuzzClip turned On and in your palm, you should be able to feel a circular ring which is the sensor. To the right of the sensor, there is a groove with two tactile markings to indicate the Mode button.

2. Press and hold this button to change modes on your BuzzClip. You should then immediately feel one short rapid vibration. This indicates that the BuzzClip is now in the 1-meter mode.

3. The device comes with two-modes: a 1-meter mode and a 2-meter mode. We suggest using the 1-meter mode indoor use



and the 2-meter mode for outdoor use. To change back to the BuzzClip's default 2-meter mode, press and hold the Mode button again. You should then feel two short rapid vibrations. This indicates that the BuzzClip is now in the 2-meter mode.

Turning Off your BuzzClip:

1. With the BuzzClip in your left palm, you should be able to feel a circular ring which is the sensor. To the left of the sensor, there is a groove with a single tactile marking to indicate the On/Off button.
2. Press and hold this button to turn off your BuzzClip. You should then immediately feel one long continuous vibration. Your BuzzClip is now Off!

Wearing your BuzzClip

The rounded top where the sensor and buttons are housed can be slightly pulled away from the main body due to an angled spring clip. Your clothes are to go in between this space that separates the rounded top from the main body of the BuzzClip. Please ensure that your clothing goes all the way to the end of the bend in the angled spring clip so that it is securely fastened onto your person.



Fastening the BuzzClip:

1. The main body and the vibrational arm always go under or between your clothing. Only the rounded top with the sensor and the buttons should be exposed on the outside of your clothing (i.e. on the lapel of a jacket, between the buttons on a shirt or blouse, on the rounded neck of a T-shirt, on the beltline, out of pockets, on the sleeves of a shirt, etc.)
2. Always ensure that the sensor is exposed outwards and is not covered by anything so that you do not receive any false positive responses.
3. Ensure that the sensor is parallel to your body as possible. For example, if you are wearing a buttoned up shirt, make sure that the sensor is parallel to your chest and that it is not tilted to the left or right.
4. Ensure that you are able to operate both buttons on the BuzzClip from where you are wearing it.
5. Ensure that the vibrational arm on the back of the device is in proper contact with your body. You can make sure of this by pulling out so that it is pushing up against your body. This also helps in delivering stronger vibrations that you will feel,



particularly when wearing loose clothing.

The BuzzClip can be worn many on one's mobility needs. It can be easily clipped onto shirts, (long or short), sweaters, jeans, sweatpants, and can also be used at once for greater coverage around one's body. This would give a blind or partially sighted user much more information about their immediate surroundings. For example, one on the chest and one of each sleeve in order to protect your front and sides.

Using your BuzzClip

The BuzzClip is not a replacement for a cane but a complementary mobility tool. It is intended to be used in combination with a cane or a guide dog. For those who frequently travel with a cane or a guide dog, we recommend using the BuzzClip to address upper body and head level obstacles while the cane can address changes in elevation and lower obstacles. The BuzzClip can also be used on its own for when in familiar indoor environments and for people living with partial sight who do not use a cane or a guide dog.

Detection Accuracy and Range of the BuzzClip:

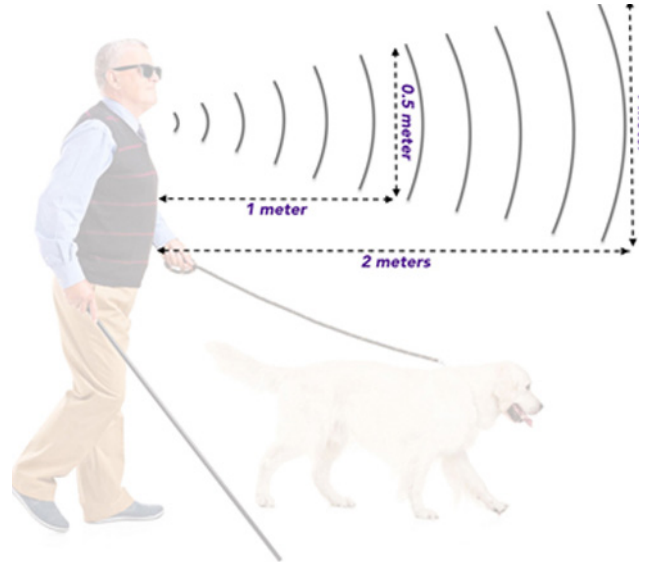
1. The BuzzClip can accurately detect anything coming into its range of detection. The sensor ensures that the distance to any nearby obstacles is accurately measured regardless of lighting conditions or transparency of the object. It does this by sending and receiving sound waves. The received information is then relayed back to the user instantly through intuitive vibrations.

2. The angle of detection is a conical shape from the center of the sensor (mesh within circular ring) and the BuzzClip has two ranges of detection: a 1-meter mode and a 2-meter mode.

3. When the BuzzClip is clipped around your upper body or chest area, it will detect any oncoming obstacles covering from about your waist till just the top of your head in the 2-meter mode.

4. The frequency and intensity of the vibrations from the BuzzClip increase as you get closer to an obstacle (and vice versa).

5. The BuzzClip delivers three strong rapid vibrations when it is 50 cm (arm's length) away from an obstacle as an indication to stop and proceed with caution as there is something that is now less than 50 cm away from you.



The Automatic Sleep Feature:

1. The BuzzClip has a built-in automatic sleep feature to conserve battery and to reduce irritation for when remaining a fixed distance away from a person or obstacle.

2. For example, if you were having a conversation with someone face to face, you would be within 1 or 2 meters of each other, meaning the BuzzClip would be vibrating constantly while you are conversing.

3. The automatic sleep feature activates when you are a fixed distance away from a person/object for longer than 5-7 seconds.

4. After 5 to 7 seconds of being a fixed distance away from something (i.e. you are not moving and neither is the obstacle/person), the BuzzClip will stop vibrating and is now in the 'sleep mode'.

5. As soon as you or the person/object begins to move more than 10 cm, the BuzzClip will kick back into gear and start detecting and vibrating again. Using your BuzzClip in Wet Winter Weather: you get closer to an obstacle (and vice versa).

Using your BuzzClip in Wet Winter Weather:

1. The BuzzClip is water resistant. It will function perfectly in light rain. Don't go swimming with it though!

2. If rain drops land directly into the sensor, the rain may create a film of water in the sensor's mesh. The unit may stop functioning temporarily. Simply wipe or shake the water off the sensor and it should be good to go!

3. The BuzzClip can function in extreme cold conditions (-30°C)

Charging your BuzzClip

The BuzzClip's battery will easily last up to 10 hours under rigorous use and can be charged using a standard Micro-USB cable. The battery does not require a replacement for at least 3 to 5 years (depending on use).

To Charge your BuzzClip:

1. Plug in the provided Charger into an electrical outlet in your home.
2. Plug in the larger end (USB) of the provided charging cable into the Charger.
3. Locate the Micro-USB Charging Port on the main body of the BuzzClip.
4. Plug in the smaller end (Micro-USB) of the charging cable into the Micro-USB charging port on the BuzzClip.
5. Your BuzzClip is now charging! It should take less than an hour for the BuzzClip to reach a full charge. The BuzzClip indicates its battery level to you through specific vibrations as soon as it's turned on:
 - 4 vibrations indicate that the battery is above 75%.
 - 3 vibrations indicate that the battery is between 50% -75%.
 - 2 vibrations indicate that the battery is between 25% -50%.
 - 1 vibration indicates that the battery is less than 25%. Charge it soon!
 - replacement for at least 3 to 5 years (depending on use).

(See Next Page for Disclaimer and Warranty Information)

Disclaimer and Warranty

DISCLAIMERS & WARRANTY

Warning: Please read this document before using the device. Follow the instructions listed below to operate the device safely.

1.0 PRODUCT DISCLAIMER

- Read the instruction manual carefully before use.
- Do not use the BuzzClip while it is charging.
- Do not wash your BuzzClip in the washing machine.
- Do not wash your BuzzClip with water.
- Do not clean it when the BuzzClip is turned on or being charged.
- Do not clean the BuzzClip with household cleaning products.
- Do not swim with your BuzzClip.
- Do not take showers with your BuzzClip.
- Do not dry it inside the microwave or drier.
- Do not expose the BuzzClip to temperatures above + 70°C.
- Do not use it under -30°C.
- Do not clip the BuzzClip onto your skin or your hair.
- Do not open the BuzzClip.
- Do not remove or replace parts.
- Do not leave it exposed to heat for long periods of time.
- Do not sink it into any liquid.
- Do not ingest parts of the BuzzClip.

1.1 Warning:

As with many other electrical devices, failure to take the following precautions can result in serious injury or death from electric shock, fire, or damage to the BuzzClip.

- Use only an approved charging cable
- Do not allow a wireless device or charging cable to become wet
- Unplug the charging cable during lightning storms or when unused for long periods
- To prevent damage, avoid sitting or stepping on a wireless device, its cable, or the cable plug or connector.

1.2 Cables and Cords:

To reduce potential trip hazards and entanglement hazards, arrange any cables and cords so that people and pets are not likely to trip over accidentally pull on them as they move around or walk through the area and do not allow children to play with cables and cords.

1.3 Charging

- Always use the charger provided with the device. The charger has the shape similar to a regular mobile phone charger and is placed in the packaging box adjacent to the device.
- Use the charger only in dry locations. Keep away from rain, snow or excessive moisture.
- It is recommended that the battery is charged before reaching the deep discharge state.

1.4 Battery Safety:

- Do not crush, open, puncture, mutilate, heat above 70°C, apply direct heat to, or dispose of batteries in fire.
- Do not leave a battery-powered device in direct sunlight for an extended period, such as on the dash of car during the summer.
- Do not connect batteries directly to wall outlets or car cigarette-lighter sockets.
- Do not attempt to disassemble or modify batteries in any way
- Do not recharge batteries near a fire or in extremely hot conditions

1.5 Warning: The Buzzclip is water resistance but not water proof.

- To reduce the risk of fire or shock, do not submerge the device under water or any other liquid.

1.6 Use in accordance with these instructions:

- Do not use the BuzzClip near any heat sources.
- Clean only with a dry cloth
- Unplug before cleaning

1.7 RECOMMENDATION

- Store the BuzzClip in a cool dry place.
- Clip the BuzzClip on your clothes only.
- Adjust the lanyard to be comfortable and not tight on the neck.
- Clean the outside of the buzzclip with a wet cloth. While cleaning, avoid spilling water on the sensor. Dry it with a clean and dry cloth.

2.0 Precautions in using the BuzzClip

Important precautions for user of the BuzzClip:

- Using the device effectively in day to day mobility requires regular practice and usage.
- The BuzzClip is not meant to replace white cane or guide dog.
- The device should be used only after setting the sensor at a correct angle. The sensor direction must point towards the chest of a person standing in front at a distance of 2 meters.
- Before starting a journey, check if the device is charged. Please ensure that the device is charged periodically every 1-2 days. More frequent charging may be required if the usage is more than 5 hours. Once the battery is fully charged, the device is expected to function for at least 10 hours under normal usage.
- Please ensure proper functioning by placing your hand in front of the sensors, thereby triggering pattern four vibrations. Set the MODE switch correctly depending upon whether you are indoors or outdoors.
- Please use the device only when the sensor is dry. If the sensor is wet due to rain or water spillage, the device might temporarily stop functioning or might function inaccurately. As in the case of most cell phones, please do not expose the device to water or wet environments. The device is “splash proof” and can withstand light spillage or splashes of water or other liquids. Allow the water in the sensor area to dry before checking and using the device.
- Never submerge the device in water or liquid, this may cause permanent damage to the device.
- Do not short circuit the charging point as it can damage the device and might lead to fire.
- While using the device in crowded places, the short range mode is recommended. This will reduce the detection range to 1 meter in front of you. However, if you continue operating in the long range mode, the device would continuously vibrate due to the numerous objects / people within 2 meters.
- There may be an initial adaptation phase while learning the use of the device. During this time your walking speed might reduce slightly due to increased focus on vibrations. However, with regular practice, you are likely to get accustomed to these vibratory patterns and be able to walk at your regular or increased speed.
- The detection of fast moving obstacles is done within the range of 2 meters only. This feature is intended only as a cautionary alert and you may not be able to fully move out of the way.
- The visually impaired USER is the intended OPERATOR. The BuzzClip needs to be used in accordance with the information provided in this manual.

3.0 Maintenance and repairs

No modification of this equipment is allowed. In case repairs or servicing are required, please contact the concerned service personnel.

- Do not attempt to expose or remove the internal components of this device as this may expose you to risks arising from the electronic or mechanical components.
- Do not short circuit the charging point as it can damage the device and might lead to fire.
- Do not attempt to clean, service or conduct maintenance while the device is charging.
- Do not attempt to replace the battery yourself. If required please contact the concerned service personnel.
- Do not put this device in fire, as there could be an explosion hazard due to the presence of the battery.
- Do not attempt to take apart, open, service, or modify the BuzzClip. Doing so could present the risk of electric shock, damage, fire, or other hazard. Any evidence of any attempt to open and/or modify this device, including any peeling,

puncturing, or removal of any of the labels, will void the Limited Warranty and render the BuzzClip ineligible for authorized repair. For repair Services, Please contact sales@bapingroup.com.

4.0 WARRANTY INFORMATION

Thank you for your interest in the products and services of iMerciv Inc.

This Limited Warranty applies to physical goods, and only for physical goods, purchased from iMerciv Inc.

4.1 What does this limited warranty cover?

This Limited Warranty covers any defects in material or workmanship under normal use during the Warranty Period. The warranty will cover any products that proved defective because of improper material or if the customer received the product broken. During the Warranty Period, iMerciv Inc. will repair or replace, at no charge, products or parts of a product that proves defective because of improper material or workmanship, under normal use and maintenance.

4.2 What will we do to correct problems?

iMerciv Inc. will either repair the Product at no charge, using new or refurbished replacement parts.

4.3 How long does the coverage last?

The Warranty Period for Physical Goods Purchased from iMerciv Inc. is 365 days from the date of purchase. A replacement Physical Good or part assumes the remaining warranty of the original Physical Good or 30 days from the date of replacement or repair, whichever is longer.

4.4 What does this limited warranty not cover?

The Limited Warranty does not cover any problem that is caused by:

- Conditions, malfunctions or damage not resulting from defects in material or workmanship.
- Damage resulting from improper maintenance or unauthorized modification of the product
- Damage resulting from natural disasters
- Theft or loss of a product
- Damage of a product resulting from negligence

4.5 What do you have to do?

To obtain warranty service, you must first contact us to determine the problem and the most appropriate solution for you. Contact us at info@imerciv.com.

5.0 Production Specifications

5.1 Physical Specifications

Dimensions (H x W x D) : (45 x 35 x 65) mm
Sensor-angle : 30 degrees
Device Weight with Battery : 62g
Enclosure Material : Aluminum

5.2 Environmental Specifications

Operating Temperature : -30° to +70° C
Storage Temperature : -30° to +70° C
Relative Humidity Range : 15% to 93% (RH)
Storage Humidity Range : 0% to 95% (RH)
Barometric Pressure Range : 700 to 1060 hPa
Storage Pressure Range : 500 to 1060 hPa

5.3 Battery Specifications

Type : Rechargeable Li-polymer
Rating : 3.7 V; 350mAh
Size (L x B x W) : (50 x 20 x 3.5) mm
Weight : 8 grams

Operating Time : Approximately 10 hrs
Charging Time : 2 hours

5.4 Charger Specifications

Type : Travel charger, certified
Input rating : 100-240 V AC~, 50/60 Hz, 0.5A
Output rating : 5 V DC, 0.5 A

5.5 Detection Characteristics

Sensor Type : 41 kHz Ultrasonic
Maximum Angular Coverage : 30°
Resolution : 1 cm at 2 m
Indoor Range : 0.3 to 1.0 m
Outdoor Range : 0.3 to 2.0 m

5.6 Service Life

The expected service life of this product is five years, if it is maintained and used as per the manufacturer's instructions.

5.7 Others

No significant effects of ultrasound have been identified on pets or pests. No significant effects of sun light, dust or water have been observed on the sensor.

Thank You.