



X40



X16

User Manual & Warranty



www.bhaptics.com

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Before Getting Started

Be sure to read the user manual before using the product to ensure safe and proper use of the product.

- Please read carefully the bHaptics Limited Warranty before using the product.
- Do not use the product for any purpose other than the intended purpose.
- Do not attempt to modify, disassemble or repair the product.
- Do not drop the product or subject the product to other forms of strong impacts.
- Users with sensitive skin should avoid wearing the product directly on the skin.
- Do not excessively pull on the side straps while wearing the product, as it may irritate your body.
- This product is not waterproof. Store the product in a dry place free from humidity and moisture.
- The main body of the product contains electronic components and must not be washed in water under any circumstances. Should the product need to be cleaned, gently wipe it with a soft cloth. The mesh lining may be removed, and machine washed with neutral detergent. (Do not use strong chemicals or strong detergents.)
- The latest user manual for the device and related software can be found at https://www. bhaptics.com/support/download.

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Introducing the TactSuit X40, a wireless haptic vest that packs 40 individually controllable vibrotactile motors.

Stay immersed in your content with positional haptic feedback delivered to every corner of your body.

TactSuit is compatible with a wide range of platforms, including PC, VR, Mobile, and console.





TactSuit X16 is designed to be a strong, yet lightweight haptic vest that you can wear for hours. The short and breathable design makes long sit-down gaming sessions much more enjoyable.

TactSuit X16 packs the same vibro-tactile motors used in the TactSuit X40, giving you the same powerful haptic feedback.



What's in the Box









This product uses 3.63V, 9,800mAh, and 35.574Wh battery and charges to 5V (maximum 2A).





This product uses 3.63V, 4,900mAh, and 17.787Wh battery and charges to 5V (maximum 2A).

LED Indicator

Blue	Purple	Min	t	Red/Green	Yellow		
Bluetooth	Wired	Button Lo	ock	Battery Status	Device Management		
	LED State			Indica	ation		
3 2	Yellow Activated		Pow	rer On			
	Blue Blinking				Bluetooth Pairing		
$\overline{\mathbf{V}}$	Blue Solid				Bluetooth Paired		
$\overline{\mathbf{V}}$	Purple Solid			Audio Cable In			
	Purple & Blue Blinking			Audio Cable In & Bluetooth Pairing			
$\overline{\mathbf{\nabla}}$	Purple & Blue Solid		Audio Cable In & Bluetooth Paired				
	Mint Solid		Power Button Lock				
∇	Red Solid		Low Battery or Charging				
∇	Green Solid			Fully Charged			
	Yellow Rotating			ating Firmware			

Getting Started

Product Charging

TactSuit is shipped in Sleep Mode for safety during transportation.

Before using your TactSuit for the first time, plug it into a charger to bring it out of sleep mode and fully charge the device.



You can use 2A charging cable included in the package to charge the device.

It takes about 5 hours, TactSuit X40, and 2.5 hours, TactSuit X16, to fully charge the device using 2A charging current.



Be sure to use an authorized AC adapter and included charging cable to charge the product. Use of an unauthorized device or accessory may result in personnel injury, may cause damage of the product or your property, and may void your warranty.

If the product is left unattended for a long time while the battery is discharged, the LED may not light even if the charging cable is connected. In this case, the light turns on again after charging for more than 1 hour.

Power On / Off



If the Power does not turn on, check if it is released from the sleep mode and sufficiently charged.



Product Fitting



1 Loosen all the side straps and unzip the zipper.



2 Wear the device, zip up and pull the side straps (*4) towards the front to adjust the suit and fit to your body.



% You can also adjust the length of the device using the shoulder snap buttons.



3 After adjusting the size, organize the straps hanging with the elastic loop located at the end of the strap. You do not need to repeat this step again once it is organized to fit your body.



Enjoy

Enjoy state-of-the-art haptic feedback and seamless connectivity for every media.



OB How to Play





D Playing Content with Embedded Haptics

Embedded haptic feedback for this content will be delivered according to the events, enhancing your immersion more than ever before.



Be sure to disable the "Audio-based Haptics" feature. Leaving the feature ON will deliver automatic feedback generated by the "Audio-based Haptics" function instead of the content's embedded feedback.

1) Pairing the TactSuit with PC



PC VR

Windows > Settings > Bluetooth & Other Devices



% If the toggle button is disabled, please insert the included bluetooth dongle to the PC



Do NOT try pairing on Windows Settings.



www.bhaptics.com/support/download

3 Right click the blinking device icon and click "Pair"



2) Open "bHaptics Portal"



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SD

3) Choose the content you want to play and install it

					$\langle \rangle$
BONE WORKS	Half Life Alyx	BIADE & SORCERY	ONWARD	DODDIN ATION.	UPERHOT
ame Finder (32)					
😭 Arizona Sunshine	Open VR Mod	Click			MelerLoader
	al Offensive Mappics Mad	🚖 Crisis VRigade			
	Nexus Mod				
	Nexus Mod				

Playing content without Embedded Haptics

Enjoying Audio-based Haptics (Wireless)

Audio-based Haptics feature creates haptic feedback in real time based on audio output of content. You can now enjoy all content regardless of native integration.



* Refer to 25pg.

1) Pairing the TactSuit with PC*

* Refer to 14pg.

2) Turn on Audio to Haptic function

When Audio to Haptic function and audio signals are on, the audio signal animation will appear on the device icon.

3) Select Content Type (VR / PC FPS / Music), Theme and Mode (stereo/surround) you will be using



4) Click C to sync audio capturing device and playback device of Windows

% Click 2 to customize frequency, threshold, activation area using bHaptics Studio*

*Refer to 29pg for more details.



Standalone VR

D Playing Content with Embedded Haptics

Check the Standalone VR content with embedded haptics at www.bhaptics.com/games.

1) Download and Install Content

Download the content you want to play from the content store (such as the Oculus Store) and run it.

2) Connect devices from In-game Menu

Run your game > Go to in-game settings menu > Find bHaptics Settings > Press pair button to pair.



Pairing steps from in-game menu may vary by each game. Please refer to the setup guide from bHaptics youtube channel (www.youtube.com/bhaptics) for further assistance.



3) Enjoy

Enjoy optimized haptic feedback pre-embedded in VR games.



Playing content without Embedded Haptics

Enjoying Audio-based Haptics (Wired)

You can use Y jack and audio cable (stereo only) to enjoy every standalone VR content with TactSuit.

1) Plug & Play

Connect your 1) Audio Source with 2) Headphone and 3) TactSuit using Y jack and audio cable as shown in the diagram below.



*Y jack and audio cable can be purchased as separate accessory from bHaptics online shop. (shop.bhaptics.com) **TactSuit does not generate sound output. The audio jack is used for converting external sound sources into haptic feedback.

2) You can customize the intensity, theme, frequency and threshold using bHaptics Player app on your phone*



"bHaptics Player" Application is available in Google Play Store and iOS App Store.

*Refer to 26pg for more details





PC Game

Enjoying Audio-based Haptics (Wireless)

Feel the trembling bass, beats, rhythm and action with audio-based haptics.

Please refer to PC VR > Enjoying Audio-based Haptics (Wireless)*

*Refer to 16pg

*

*



Console



Enjoying Audio-based Haptics (Wired)

Plug in Audio Jack and take your console gaming to the next level with real-time stereo haptics.

1) Plug & Play

Connect your 1) Audio Source with 2) Headphone and 3) TactSuit using Y jack and audio cable as shown in the diagram below.



*Y jack and audio cable can be purchased as separate accessory from bHaptics online shop. (shop.bhaptics.com)
**TactSuit does not generate sound output. The audio jack is used for converting external sound sources into haptic feedback.

2) You can customize the intensity, theme, frequency and threshold using bHaptics Player app on your phone*



"bHaptics Player" Application is available in Google Play Store and iOS App Store.

*Refer to 26pg for more details

0/2 bHaptics Software



bHaptics Player

bHaptics Player is an essential software required to connect your device with PC and mobile. You can manage the play mode (Embedded Haptics / Audiobased Haptics), haptic intensity, visualization tool and access bHaptics Portal using this software.

https://www.bhaptics.com/support/download



bHaptics Studio

bHaptics Studio is an audio based haptic customization tool which allows you to create or edit the theme by selecting range of frequencies, threshold and activation area of the vest to feel the sound.

https://studio.bhaptics.com/



bHaptics Designer

bHaptics Designer is a web-based haptic feedback authoring tool that you can use to create haptic patterns by clicking and dragging between visualized haptic feedback points. Simply click on the "Export" button to integrate haptic patterns into your content.

https://designer.bhaptics.com/



SDKs

SDKs are available for Unity and Unreal. The SDKs include a library of over 300 different haptic feedback. For more information, please refer to the manual that is provided with respective plug-in.

https://www.bhaptics.com/support/developer/



bHaptics Player (PC)

>>>

https://www.bhaptics.com/support/download



Feedback Monitoring	Monitor the haptic feedback in realtime
2 Content Portal	Find, download and install the list of games with Embedded Haptics
3 Audio to Haptic	Activate wireless Audio-based Haptics
4 Pair/Unpair All	Pair or Unpair all scanned or paired devices
S Play & Pause	Play & Pause haptic feedback
6 Device Panel	List of devices which are paired and waiting to be paired. Pairs, unpairs and controls intensity of haptics for each devices
Settings	Manage device pairing, run feedback test, find opensource license and control settings

bHaptics Player (PC)

E Device Control







Intensity Adjustment

You can adjust the feedback intensity of each device in realtime by clicking on each device icons.



Devic	e Manage	ment		
			ce from Settings (දිටු) > Device . Here you can pair/unpair prmation, and change the devices settings.	
DEVI	CE	DEVIC	E	
SETT	JBACK TEST ING N SOURCE LICENSE	Device Posi Wired Audic Haptic Notil Turn Off Aff	katon	
• Wi	ired Audio		You can deactivate Wired Audio-based Haptics when the audio cable is plugged in.	
Ha			You can activate and deactivate the "haptic alerts" which you can feel when you turn the device on and off.	
Tur			You can set the time to turn off the device automatically when there is no active haptic feedback for the set time.	
4 Bu	Itton Lock		You can lock the power button to avoid the device turning off during your play.	



bHaptics Player (Mobile) is an application used to change themes and settings when using "wired" options for Audiobased Haptics.



https://www.bhaptics.com/support/download



Scan	Scan all TactSuit devices in pairing mode
2 Device Panel	Check scanned or paired device information
Pair/Unpair All	Pair all scanned devices / Unpair all paired devices
4 Menu	Manage device pairing, configure audio-based haptic frequency settings, run feedback test, and control settings

Device Control



Audio to Haptic

When using **wired options** for Audio-based Haptics, you can select the theme and customize the settings by connecting the device with bHaptics Player (Mobile).



1 Select device.

Select a device which has the audio jack plugged in.

2 Select Theme (Rhythm, Beat, FPS, Sport).

3 Change frequency ranges and thresholds of the sound you want to feel.



https://studio.bhaptics.com/

bHaptics Studio is an Audio-based Haptics customization tool which allows you to create or edit the theme by selecting range of frequencies, threshold and activation area to feel the sound.





 Menu 	Create new theme / Import / Export / Delete
2 Theme List	Select/Edit list of themes
Audio to Haptic Mode (Stereo / Surround)	Select sound channels (Stereo/Surround)
Tools	Edit the theme using the tools
Frequency and Threshold Setting	Set threshold value by monitoring the dB changes of each frequencies for each audio input real-time.
Feedback Point Setting	When an audio signal is input, the haptic feedback point for each devices can be selected.
 Haptic Feedback Monitoring 	Monitor how the audio signal input is being converted to haptic feedback real-time.





bHaptics Designer

https://designer.bhaptics.com/

bHaptics Designer is a web-based haptic feedback authoring tool that you can use to create haptic patterns by clicking and dragging between visualized haptic feedback points. Simply click on the "Export" button to integrate haptic patterns into your content. This tool will help you minimize development time and effort significantly.



How to Use
Projects > Create Project.
2 Create Effect.
3 Click on feedback point and drag to the next point to create path and design patterns you wish to create.
4 Edit more sophisticated settings such as timing, speed and directions.
3 Play and edit timeline of the haptic feedback pattern you have created.
6 Export Project and import your ".tact" files into your own engine.
% Full guide video is available at www.youtube.com/bhaptics



(i) Product Specifications

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Product Name	TACTSUIT X40		
Model Name	BHTV40D000		
Main Functions	Replicate and deliver stimulation through vibrotactile feedback		
Feedback Point	Total: 40 (front: 20, rear: 20)		
Size	Body Circumference : 25–50 inches Length : 22.5 inches / 24 inches		
Weight	1.7 kg		
Operation Time	18 hours (Measured when all feedback points operating for 1 second every 10 seconds with maximum intensity.)		
Operational Temperature	0 ~ 35 °C		
Operational Relative Humidity	From 5% to approx. 95%		
Wireless Frequency	2.402 - 2.480 GHz (Bluetooth LE)		
Peak Output Power	0.299 mW		
Connection Type	Bluetooth Low Energy (BLE) & Auido Port		
Battery	3.63 V, 9,800 mAh, 35.574 Wh		
Charging Type	5 V, 2 A max		

TACTSUIT χ^{16}

Product Name	TACTSUIT X16
Model Name	BHTV16D000
Main Functions	Replicate and deliver stimulation through vibrotactile feedback
Feedback Point	Total: 16 (front: 8, rear: 8)
Size	Body Circumference : 25–50 inches Length : 19.7 inches / 20.8 inches
Weight	0.95 kg
Operation Time	22 hours (Measured when all feedback points operating for 1 second every 10 seconds with maximum intensity.)
Operational Temperature	0 ~ 35 °C
Operational Relative Humidity	From 5% to approx. 95%
Wireless Frequency	2.402 - 2.480 GHz (Bluetooth LE)
Peak Output Power	0.299 mW
Connection Type	Bluetooth Low Energy (BLE) & Audio Port
Battery	3.63 V, 4,900 mAh, 17.787 Wh
Charging Type	5 V, 2 A max

⑦ Support

Which Content(Platform) can I enjoy?

You can enjoy various contents on VR(PCVR, Standalone VR), PC(Games, Music and Movie) and Console etc, using embedded haptics or audio-based haptics.

Does TactSuit provide body tracking? / Can I use Vive Trackers with TactSuit?

TactSuit does not provide body tracking. If you want to use Vive Tracker, wear your tracking devices on top of or under your TactSuit and Bluetooth signals will not interfere with each other.

What is the playtime of TactSuit?

You can use TactSuit X40 for 18 hours and TactSuit X16 for 22 hours. (Measuared when All feedback points are operating for 1 second in every 10 second at maximum intensity.)

How can I control the intensity of haptic feedback?

- P C Pair the device using bHaptics Player on your PC. The intensity control bar will appear when you click on the paired device icon. You can click and drag the bar to adjust the intensity of haptic feedback.
- Mobile Pair the device using bHaptics Player app on your mobile device. Feedback intensity control buttons will appear under each paired device on the Device tab.

Can I wash TactSuit?

The main part of TactSuit contains electric motors and wires and cannot be washed. In case of contamination, gently wipe the contaminated area with a soft cloth. (The mesh lining can be detached and washed)



I can't connect TactSuit to my PC. Is the TactSuit or Bluetooth dongle defective?

Open Device Manager on your PC and disable PC's internal Bluetooth before inserting the provided dongle. If you see CSR Bluetooth Radio under Bluetooth, please uninstall all software related to CSR Bluetooth, then insert the provided dongle.

I can't connect TactSuit to Oculus Quest 2.

Please make sure you are pairing the vest in the in-game bHaptics settings, not on the Quest's Bluetooth settings. Before starting the game, go to the game's "Permissions" settings and enable permission for "Location".

I keep losing connection to the PC when I turn around or stand up.

Securing the line-of-sight between the TactSuit and the Bluetooth dongle is required for seamless Bluetooth connection. Please insert the Bluetooth dongle to the front of the PC, rather than the back.

I can't feel surround feedback while playing content with 7.1 channel sound (ex. PC FPS game).

You need to select Audio-based Haptics from bHaptics Player, then turn on surround mode. Please note that you need to have a surround audio driver installed on your PC in order to use the Surround mode. Please also note that surround mode is not supported for Wired Audio-based Haptics.

The device can be turned off during your play if you lean back to rest against the chair.

You can lock the device during your play from the settings menu in bHaptics Player. If you are using bHaptics Player (PC), please go to **Settings** > **Device** > **Device List**. Press + button next to the paired device icon to turn on the "Button Lock". If you are using bHaptics Player (Mobile App), please go to **Device List**. Press \bigcirc button next to the paired device icon to turn on the "Button Lock".

A Health & Safety Warnings

To ensure the safety of all users and to minimize the problems that may occur during using the product, please carefully read and follow the manual and warnings before using the product.

Before Using the Product

- Please read and follow all the instructions and warnings for set up and operate the product.
- The product is not a toy and should not be used children under age 12. The product is not sized for children and improper sizing can lead to discomfort or adverse health effects.
- Be sure to use recommended hardware, software and certified devices, accessories. If you
 don't, it may result in device performance and may cause damage not covered by your warranty.
 Also may result in injury to you or others.
- Do not use the product if you have muscle aches, headache, colds, hangover, stress, intoxicated or while taking any kind of medicine.
- If you are pregnant, elderly, mentally ill or suffering from heart disease or spinal/skin/muscle diseases, please consult your doctor before using the product
- Keep the product out of the reach of children and pets. Children and pets may swallow small
 parts, may pull on the charging cables and cause the damage of processor unit, or may wrap
 the cables around themselves, which may inflict injury or cause an accident or a malfunction of
 the product.
Always use in a safe environment to secure physical/mental safety and prevent damage to property.

- Never handle dangerous goods such as fire, knives, hot water, etc. while using the product, and do not use the product in situations that require attention(such as bicycling, driving or walking and in unstable locations such as car, train or bus). And do not do any activities that may cause serious consequences(any activities that may cause death, personal injury or damage to property).
- You may experience reflex actions when startled by haptic feedback of the product, so please be sure to check your surroundings before use the product.
- Especially, if you using the product with VR HMD should pay special attention because wearing the VR headset will completely block your ability to see your surroundings.
- Before using the product, clean up the things that may cause serious injuries such as sharp objects and furniture, and always pay special attention while using the product.
- Be careful that people, pets and other obstacles do not suddenly appear during use of the product.

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If you are affected by any of the following, please be use caution when using the product.

Heart Disease	If you are startled by the haptic feedback delivered by the product, it can be hard on your heart. Please consult your doctor before using this product.
Respiratory Disease	Excessive tightening of the side straps may cause breath problems or seizures.
Spine/ Muscle Disease	When strong haptic feedback is delivered to your body, it can affect your spine and muscles. Please consult your doctor before use and do not use the product for too long.
Skin Disease	Do not put on the product on bare skin if you have sensitive or weak skin(especially children). If haptic feedback is delivered to the bare skin directly, it may cause itching, rash or swelling of skin.

If you experience any of the following symptoms, stop to use the product immediately and consult your doctor.

- Difficulty in breathing, dizziness, seizures, muscle cramps or stiffness, skin burning, excessive sweating, headache, fatigue, involuntary movements, nausea, swelling, itching or rashes.
- Don't use the product until symptoms described above are relieved. If symptoms persist, consult your doctor and you have to get your doctor's approval to use the product again.
- You may be more sensitive to specific content. Therefore remember the type of content you
 were playing while you experience those symptoms and please take special care when you use
 that type of content.

The device can emit radio wave that could affect the operation of nearby electronic devices including medical devices.

- To not use the product in hospitals or any transportations including aircrafts and automobiles.
- If there is any electronic devices nearby, make sure to maintain a safe distance between the product and the electronic devices.
- We recommend do not use the product if you or nearby person has a pacemaker or any other implanted medical devices.
- If you have to use the product inevitably even though you have pacemaker, please consult your doctor before using the product and be sure to maintain at least 15cm distance between the product and you.
- Stop using the product as soon as you experience interference between the product and your medical devices.

△ Cautions

1 Product Usage Precautions

- Use the product only for its intended purpose.
- The recommended environments for stable operation are as follows:
 - Temperature : 0 ~ 35 °C, Huminity : 5~95%
 - Do not use the product in dusty places
- You may get zapped when you use the product in a dry place. This is caused by static electricity, and not a product malfunction.
- Be sure to use accessories and parts that bHaptics Inc. provides, or get official approval from us before using. If not, we cannot guarantee the safety of the user and we are not responsible for any damage caused by this.
- Please follow the instructions to wear the device fit to your body. Otherwise, you may feel discomfort and may not feel the haptic feedback properly.
- When you use the product while the charging cable is connected, be careful the cable is not wrapped around your body or legs and check frequently during use.
- Use of the product in a moving vehicle such as a car, bus, plane or train may increase your susceptibility to adverse symptoms due to variation in speed or sudden movement.
- We recommend you not to share the product with the others. If you have to inevitably, clean the device between each use with clean and soft cloth. Also we recommend you to replace or wash the inner mesh lining periodically to maintain the product in hygienic conditions.

- If you use the product frequently or for long time period, you may experience tiredness or soreness in your muscles and body parts. Therefore, take a rest between uses even if you do not think you need it. And if you feel discomfort, take longer and more frequent breaks.
- The product contains a rechargeable Lithium-Ion battery. Please follow below instructions for your safe usage of the product and prevent personal injury, damage of the product.
 - Do not use external battery packs or power sources other than the included charging cable and if you want to use your own cable, please contact bHaptics official service center.
 - If you have any problems related to the battery, contact official service center. Never open the main controller of the device and attempt to repair or replace the battery by yourself.
- Please follow the instructions below when pairing via Bluetooth.
 - When pairing, place the product near your PC, laptop or mobile. If not, the product can be connected to a different device or can fail to pair with your device.
 - To secure a stable connection remove any obstacles between the product and your device.
 Also please use the product within the Bluetooth range.
 - Bluetooth uses the same frequency band as some industrial, scientific, medical devices and electronics, and low power devices such as wireless LAN, which may cause electronic interference between devices. Therefore please do not use this device in the places where it can cause malfunctioning of the electronic devices, resulting in serious personal injury and damage to property (ex. hospital, transportation etc.)
 - The product may not be compatible with some devices, including those that are not approved by Bluetooth Special Interest Group (SIG)
 - Do not use Bluetooth for illegal purposes (ex. Pirating copies, Illegal public transmission etc.)



- Stop using the product immediately when you have an allergic reaction to the clothes or metals of the product.
- To prevent electric shot, do not disassemble, modify or open any of the product component. And if the product is broken or damaged(especially any cable is damaged or a wire is exposed) do not use the product and ask for repairs from the official service center.
- Do not cause a strong impact to the product(do not drop the product or place a heavy object on it).

We recommend you not to share the product with the others. If you have to inevitably, clean the device between each use with clean & soft cloth. And replace or wash the inner mesh lining periodically to maintain the product in hygienic conditions.

2 Product Care Precautions

- Keep the product in the following environment to prevent degradation of the product.
 - Keep the product in cool and dry place(Recommended storage temperatures: 0~35 °C, 5~95% humidity)
 - Do not expose the product to dust, smoke, steam or direct sunlight.
 - The product includes haptic motors and cables, so to prevent breakdown of the product, do not leave or store the product folded and crumped. Put the product in the package box and store it in safe place when not in use.



- Keep the product out of reach of children and pet for their safety and to prevent the damage of the product.
 - Children or pets may swallow small parts of the product or wrap the cables around themselves which may inflict injury or cause an accident or malfunction.
 - If they swallow any of parts, please consult with the doctor immediately.



- Be careful not to drop, throw and bend the product. Those may cause damage of the product. If it happens and suspect any damages please contact to the bHaptics official service center.
- If the product is damaged or malfunctioning, stop to use it immediately and contact bHaptics
 official service center. Unauthorized repairing may cause further damage of the product and your
 Warranty will become null and void.
- Do not allow liquid, small particles or other foreign objects to get into the product. If this
 happens, stop use, turn off the product and disconnect the product from electrical outlet
 immediately and contact the official service center.
- If battery leaks:
 - Do not allow the leaking fluid to come in contact with skin, eyes or clothing. If already in contact, DO NOT RUB; flush the affected area immediately with clean water and consult with your doctor.
 - Take extra precautions to keep a leaking battery away from fire as there is a danger of ignition or explosion.
- The product is an electronic device, so it is non-washable. If it is contaminated, just drop a few drops of water and gently wipe with soft cloth.
 - Do not use strong chemicals such as solvents, cleaners, chemically treated cloth etc. to clean the product and inner mesh lining. If you use these on the devices, it will cause internal and external damage to the product.

- The inner mesh lining can be detached and machine washed with neutral detergent (Frequent machine wash can cause deterioration)
 - If you use the dryer machine, please set the temperature as "low" to prevent deterioration of the product.
 - We recommend you replace the inner mesh lining periodically to maintain the product in hygienic conditions.



- If the product or accessories need repair, please contact bHaptics official service.
- Do not dispose the product in a fire and never place the product near the heating equipment or high voltage appliances.
 - When the product or the battery is overheated, it may explode.
 - Please follow all applicable laws and regulations when you recycle or dispose the product and battery. Disposal of certain electronic devices is strictly regulated in some areas.

🛇 Limited Customer Warranty

Read this information before using your device.

By using your bHaptics product, you agree to the limited warranty.

If you do not accept this limited warranty, do not use your bHaptics product.

Instead, Please return it to bHaptics or the retailer from whom you purchased it within the return period stated in bHaptics return policy (Found at www.bhaptics.com/legals/cancellation-return-refund) for refund.

Intellectual Property

All Intellectual Property, as defined below, owned by or which is otherwise the property of bHaptics or its respective suppliers relating to the Product, including but not limited to, accessories, parts, or software relating thereto, is proprietary to bHaptics and protected under international treaty provisions, country laws, federal laws, and states laws. Intellectual Property includes, but is not limited to, inventions (patentable or unpatentable), patents, trade secrets, copyrights, software, computer programs, and related documentation and other works of authorship.

You may not infringe or otherwise violate the rights secured by the Intellectual Property. Moreover, you agree that you will not (and will not attempt to) modify, prepare derivative works of, reverse engineer, decompile, disassemble, or otherwise attempt to create source code from the software. No title to or ownership in the Intellectual Property is transferred to you. All applicable rights of the Intellectual Property shall remain with bHaptics and its suppliers.

• Who is this warranty from?

This limited consumer warranty (the "Warranty") is issued by bHaptics Inc. of Bldg 3 Unit 503, 70, Yuseong-daero 1689beon-gil, Yuseong-gu, Daejeon, Republic of Korea (34047) ("bHaptics", "we", "us").

• Who is this warranty to?

bHaptics issues this warranty to you, as a consumer who has purchased a new, covered product from bHaptics or an authorized retailer ("you"). This Warranty is not available to products that were purchased from any source other than bHaptics or an authorized retailer.

This Warranty applies only to those countries to which bHaptics ships and supports. For information about the countries bHaptics supports, go to www.bhaptics.com/legals



· What is covered by this limited warranty and for how long?

This Warranty covers defects and malfunctions in the new bHaptics product(s) it accompanies (the "Product"). We warrant that the Product will, under normal and intended use, function substantially in accordance with our technical specifications or accompanying product documentation (the "Warranted Functionality") during the Warranty Period.

This limited Warranty continues for one (1) year from the date of purchase or deliver of the Product, whichever is later (the "Warranty Period"). However, if you purchase the Product from within the EU or EFTA, the Warranty Period shall be two (2) years.

If and to the extent the Product needs bHaptics software or services to achieve the Warranted Functionality, we will make and keep software and services available during the Warranty Period. We may update, modify or limit such software and services in our sole discretion so long as we continue to maintain (or exceed) the Warranted Functionality.

This Warranty gives you specific legal rights, and you may also have other rights, which vary from country to country (or by state or province). This Warranty is in addition to, and does not affect any rights you have under the laws in your jurisdiction concerning the sale of consumer goods.

· What is not covered by this limited warranty?

This limited Warranty does not apply: (i) if the Product serial number, the date code or the water indicator has been removed, erased, defaced, or altered, or is illegible; (ii) to any deterioration of the cosmetic appearance of the Product due to normal wear and tear; (iii) to rips and peeling of textile elements, straps, or zippers; (iv) to protective coatings that are designed to diminish over time or batteries, unless failure has occurred due to a defect in materials or workmanship; (v) to damage caused by misuse, accident (e.g. accidental physical impact, exposure to liqu id, food or other contaminants, etc.), neglect, abuse, forces of nature, or other actions beyond the reasonable control of bHaptics (including but not limited to deficiencies in consumable parts) unless the defect was caused directly by a malfunction; (vi) to damage caused by improper or unauthorized repair or other modification, tampering, or use with unsuitable equipment, devices, software, services or other unauthorized third-party item(s); (vii) to used or resold products; (viii) to Products purchased from sources of the Product in violation of any laws, regulations or ordinances in effect where the Product is used; (x) to features or performance parameters pertaining to any software or services beyond the Warranted Functionality of the Product.

This Warranty does not include any specific guarantees that the product will be error-free, or regarding uptime or continued availability, data security features of software or online accounts, or that any software, firmware or online sites will function uninterrupted or error-free.

· What will bHaptics do if there is a problem with the product?

If your Product is defective or malfunctioning, we will either repair or replace that Product, or update software or services, so that the Product performs substantially according to the Warranted Functionality. The approach taken to resolve any issues will be at our sole choice. If we determine that a product should be replaced, the replacement may be a new, refurbished, or remanufactured Product. If we determine, in our sole discretion, that none of the listed means are reasonable to correct for a defect or malfunction, then we may refund to you the price you paid to purchase the Product.

Any repaired or replaced Product will continue to be covered by this Warranty for the remainder of the original Warranty Period or ninety (90) days following your receipt of the replacement or repaired Product, whichever is greater.

· What must you do to obtain warranty service?

In the event of a perceived malfunction in the Product, please visit us at www.bhaptics.com/ support to get helpful services, the user manuals and contact information, and to submit a claim form to obtain warranty service.

If it is necessary for you to send your Product in for service, we will provide you with a preaddressed shipping label, and you will have to send the Product in an adequate container for shipping, accompanied by the sales receipt or comparableproof of purchase showing the original date of purchase by the first consumer purchaser, the serial number of the Product and the seller's name and address.

You may be required to pay the cost of shipping the Product to us, and by sending the Product, you agree to transfer ownership of that Product to bHaptics. When we receive the Product, we will determine if there is a defect or malfunction covered by this Warranty. If we find a defect or malfunction covered by this Warranty, we will repair or replace the Product to provide the Warranted Functionality, and we will send the repaired Product, if any, to you at our cost. We may not return the original Product to you.

If we are unable to verify your proof of purchase in advance, and you send us a Product without a valid proof of purchase, then we reserve the right to return the Product to you at your cost, subject to prepayment, or, if such costs are not prepaid, we will keep the Product for thirty (30) days for your pick-up before it is disposed of.

· What are the limits on bHaptics' liability?

TO THE EXTENT PERMITTED BY LAW, THIS LIMITED WARRANTY AND THE REMEDIES SET FORTH ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, REMEDIES, AND CONDITIONS. BHAPTICS LIMITS THE DURATION AND REMEDIES OF ALL STATUTORY AND IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND WARRANTIES AGAINST HIDDEN OR LATENT DEFECTS TO THE DURATION OF THIS WARRANTY AND, AT BHAPTICS' OPTION, THE REPAIR OR REPLACEMENT SERVICES DESCRIBED BELOW. IN NO EVENT SHALL BHAPTICS BE LIABLE FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE OF THE PRODUCT OR FOR, WITHOUT LIMITATION, COMMERCIAL LOSS OF ANY SORT; LOSS OF USE, TIME, DATA, REPUTATION, OPPORTUNITY, GOODWILL, PROFITS OR SAVINGS; INCONVENIENCE; INCIDENTAL, SPECIAL, CONSEQUENTIAL OR PUNITIVE DAMAGES; OR DAMAGES ARISING FROM THE USE OR INABILITY TO USE THE PRODUCT.

Some countries and jurisdictions (states and provinces) do not allow limitations on how long an implied warranty lasts, or the disclaimer or limitation of incidental or consequential damages, so the above limitations and disclaimers may not apply to you.

SEVERABILITY

If any portion of this Limited Warranty is held to be illegal or unenforceable, such partial illegality or unenforceability shall not affect the enforceability of the remainder of the Limited Warranty.

GENERAL

Nothing contained in the user manual or any other document shall be construed to create an express warranty of any kind with respect to the Product. No agent, employee, dealer, representative or reseller is authorized to modify or extend this Limited Warranty or to make binding representations or claims, whether in advertising, presentations or otherwise, on behalf of bHaptics regarding the Products or this Limited Warranty. The following terms and conditions of the limited customer warranty apply to U.S and Canadian customers only.

Agreement to arbitrate disputes (Not applicable to residents of Québec who enter into a contract to which the Consumer Protection Act (CPA) applies)

PLEASE READ THE FOLLOWING SECTION CAREFULLY BECAUSE IT REQUIRES YOU TO ARBITRATE CERTAIN DISPUTES AND CLAIMS WITH BHAPTICS AND LIMITS THE MANNER IN WHICH YOU CAN SEEK RELIEF FROM BHAPTICS

• Binding Arbitration

Except for disputes in which either party seeks to bring an individual action in small claims court, You and bHaptics agree (a) to waive Your and bHaptics' respective rights to have any and all disputes or claims arising from or related to this Limited Warranty or the sale, condition, use, or performance of the Product (collectively, "Disputes") resolved in a court, and (b) to waive Your and bHaptics' respective rights to a jury trial. Instead, You and bHaptics agree to arbitrate Disputes through binding arbitration (which is the referral of a Dispute to one or more persons charged with reviewing the Dispute and making a final and binding determination to resolve it instead of having the Dispute decided by a judge or jury in court).

· No Class Arbitrations, Class actions or Representative Actions.

You and bHaptics agree that any Dispute arising out of or related to this Limited Warranty, is personal to You and bHaptics and that such Dispute will be resolved solely through individual arbitration and will not be brought as a class arbitration, class action, or any other type of representative proceeding. You and bHaptics agree that there will be no class arbitration or arbitration in which and individual attempt to resolve a Dispute as a representative of another individual or group of individuals. Further, You and bHaptics agree that a Dispute cannot be brought as a class or other type of representative action, whether within or outside of arbitration, or on behalf of any other individual or group of individuals.

Notice; Informal Dispute Resolution.

Notice; Informal Dispute Resolution. You and bHaptics agree that each party will notify the other party in writing of any arbitrable or small claims Dispute not less than thirty (30) days of the date it arises, so that the parties can attempt in good faith to resolve the Dispute informally. Notice to bHaptics shall be sent to bHaptics Inc., Bldg 3 Unit 503, 70, Yuseong-daero 1689beon-gil, Yuseong-gu, Daejeon, Republic of Korea (34047). Your notice must include (a) Your name, postal address, telephone number, the email address You use, (b) a description in reasonable detail of the nature or basis of the Dispute, and (c) the specific relief that You are seeking.

Our notice to You will be sent electronically to the email address You use and will include (a) our name, postal address, telephone number, and an email address at which we can be contacted with respect to the Dispute, (b) a description in reasonable detail of the nature or basis of the Dispute, and (c) the specific relief that we are seeking. If You and bHaptics cannot agree how to resolve the Dispute within thirty (30) days after the date notice is received by the applicable party, then either You or bHaptics may, as appropriate and in accordance with this Limited Warranty, commence an arbitration proceeding or, to the extent specifically provided for above, file a claim in small claims court.

• Authority of Arbitrator.

As limited by the Federal Arbitration Act, this agreement and the applicable AAA rules, the arbitrator will have the authority to grant any remedy that would otherwise be available in court, provided that the arbitrator's award may not exceed, in form or amount, the relief that a United States District Court could order under the Limited Warranted; provided, however, that the arbitrator does not have the authority to conduct a class arbitration or a representative action, which is prohibited by this Limited Warranty.

Rules of AAA.

The rules of AAA and additional information about AAA are available online at www.adr.org or by calling the AAA at 1-800-778-7879. By not opting out of this agreement to arbitrate as specified below, You either (a) acknowledge and agree that You have read and understand the AAA Rules, or (b) waive Your opportunity to read the AAA Rules and any claim that the AAA Rules are unfair or should not apply for any reason.

• Applicability of Agreement to Arbitrate.

IF THE PROHIBITION ON CLASS ARBITRATIONS SET FORTH ABOVE IS DEEMED TO BE UNENFORCEABLE, THEN THE AGREEMENT TO ARBITRATE WILL NOT APPLY TO THE CLASS CLAIM.

• RIGHT TO OPT OUT.

You may opt out of this agreement by providing notice to bHaptics no later than 30 calendar days from the date of the first consumer purchaser's purchase of the Product. To opt out, you must send notice by e-mail to support@bhaptics.com, with the subject line: "Arbitration Opt Out." You must include in the optout email (a) your name and address; (b) the date on which the Product was purchased; (c) the Product model name or model number; and (d) Serial Number (please visit www.bhaptics.com/support/faqs to see how to find a serial number).

No other form of notice will be effective to opt out of this agreement to arbitrate. Opting out of this Agreement will not affect in anyway the benefits to which you would otherwise be entitled, including the benefits of the Limited Warranty.

Compliance



Bldg 3 Unit 503, 70, Yuseong-daero 1689beon-gil, Yuseong-gu, Daejeon, Republic of Korea (34047)

Company bHaptics Inc. Manufacturer bHaptics Inc. Country of Origin Republic of Korea

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or television technician for help.

FCC Caution: Any changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Industry Canada Statement

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

European Economic Area

Hereby, bHaptics Inc. declares that TactSuit X40 (BHTV40D000) and TactSuit X16 (BHTV16D000) are in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: https://www.bhaptics.com/legals

Disposal and Recycling Information (European Economic Area only)

The crossed-out wheeled bin means that you are obliged by law to dispose of this equipment separately from the unsorted municipal waste collection system. Disposing of it in the residual waste bin or the yellow bin for recyclable materials is prohibited. If the product contains one-way batteries or rechargeable batteries that are not permanently installed, these must be removed before disposing of the product and be disposed of separately as batteries.



Owners of waste electrical and electronic equipment (EEE) are allowed to return them to those facilities for returning or collecting waste electrical and electronic equipment set up and provided by the public-sector waste disposal authorities, to ensure that the waste electrical and electronic equipment is disposed of correctly. For more information about where and how to drop off your EEE waste, please contact your local authorities, retailer or household waste disposal service.

(Germany only) bHaptics Inc. are registered as a manufacturer of electrical and/or electronic quipment with registration number DE69516062 at stiftung elektro-altgeräte register, Nordostpark 72, 90411 Nürnberg.



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Any Questions? contact@bhaptics.com