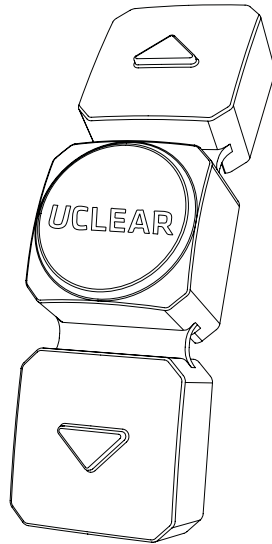HBCR001

UCLEAR
D I G I T A L

Universal Remote User Manual

FCC ID:NMCHBCR001
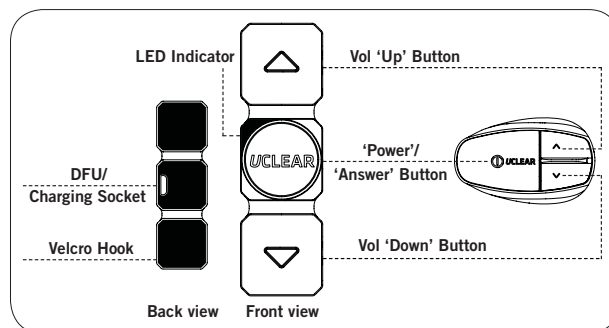
Make sure your HBC unit is updated with the latest firmware
which can support your Universal Remote.

Contents

Quick User Guide

General Functions and Layouts

LED Indicator   Vol 'Up' Button

DFU/
Charging Socket

'Power'/
'Answer' Button

Velcro Hook   Vol 'Down' Button

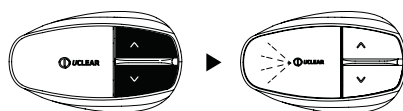Back view   Front view

Button functionality is identical to HBC Unit.
For more complete instructions, please refer to your HBC Series User Manual.
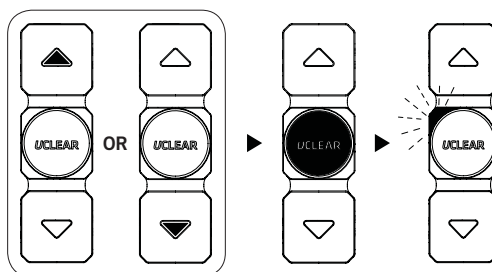
Pairing with HBC unit

1.   'Power' on the HBC unit first, hold 'Up' and 'Down' buttons for 2 seconds until LED blink blue and red alternatively.

Quick User Guide

2. While holding the 'Up' or 'Down' button, power 'On' the Universal Remote, only release the 'Up' or 'Down' button until the LED blinks blue and red alternatively.

Just Connect Mode
It is only necessary to do the pairing for the first time. After pairing with your unit, your Universal Remote will connect automatically to your paired unit once you power on your device.

1. Make sure the 'Power' for the paired HBC unit is on.

2. Power on Universal Remote by pressing the 'Answer' button once, it will connect to the paired HBC unit automatically.

Attention:
If pairing or Just Connect Mode fails, the Universal Remote will be turned off automatically. If fails, redo step 1 and 2.

Quick User Guide

Power On
Press the 'Power' button once, the Universal Remote will be turned on.

Power Off
The Universal Remote will be turned off automatically once the paired HBC unit is off.

Reset
Connected Micro USB cable to the computer USB port or power sources.
Plug in and plug out the micro USB cable from Universal Remote.

Battery Low
LED indicator will appear blinking red every second to indicate that the battery is low, hence charging is required.
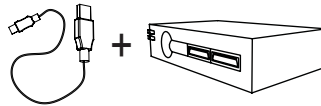
Charging
Insert the Micro USB charger to the Universal Remote DFU/ Charging Socket.
> Solid red LED will appeared while charging.
> Solid blue LED will appeared when fully charged.

<u>**DO NOT PRESS**</u> on any buttons while plugging in. It may cause the device to enter firmware updating mode.

Quick User Guide

Firmware Update

1. Download and install the new version software from UCLEAR website. Make sure your HBC unit is updated with the latest firmware which can support your Universal Remote.

2. Connected securely the USB cable to the computer USB port.

3. Powered off the Universal Remote by holding 'Up' and 'Down' buttons at the same time.
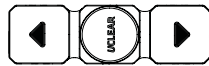
4. Insert the Micro USB to the Universal Remote DFU/ Charging Socket.
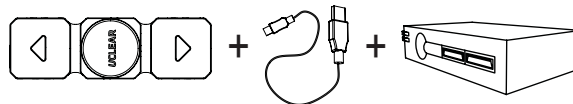
5. Red LED will blink once (Indicate firmware update progressing)

Warning and Safety Instructions

This manual uses the ⬢ and ⚠ icons to highlight certain instructions. Below is an explanation of the icons.

⚠ **Attention**

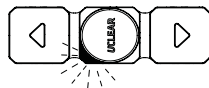This icon highlights special instructions and precautions intended to avoid damage to the system. Non-compliance may void the product warranty.

⬢ **Warning**

This icon provides precautions important to prevent injuries to the user.

⚠ **Attention**

Please read through the operating instructions to understand how to operate the system, in particular the safety instructions.

⬢ **Warning**

• Prolonged exposure to loud sounds may lead to permanent hearing damage.

• Speaker volume is greater than 90dBm may lead to permanent hearing damage.

• Do not attempt to place an outgoing call through the mobile phone while riding on the motorcycle at any point of time.

• Please do not use the Universal Remote in anyway that may distract you or hinder your judgment while on the move. Never ever compromise your safety and the safety of others.

Warning and Safety Instructions

⚠ **Attention**

Charging and handling rechargeable battery products incorrectly may cause them to overheat, catch fire or explode. To prevent this please follow the instructions below:

- Never change the batteries yourself, always bring the device to an authorised dealer to perform the replacement for you.

- When charging, use **<u>ONLY</u>** the charging cable provided or replacement cable from the UCLEAR dealer. Using similar, compatible or any other cables may lead to permanent product damage and will void the product warranty.

- Never make any modifications to any part of the UCLEAR Universal Remote in any way as it may cause the system to malfunction causing hurt to you.

Features

The UCLEAR Universal Remote is a convenient and safe alternative or replacement for the 3 buttons on Helmet Communicator.

- Compatible with product series (HBC200, HBC100+, and future product series)

- Firmware upgradable

- Rechargeable battery

- Versatile mounting mechanism

- Weather resistant

- Auto shut down

Kit Includes

Universal Remote Package Contains:

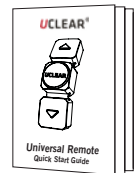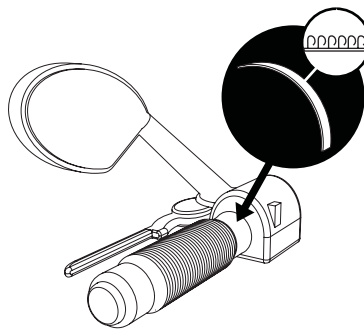1 Universal Remote

1 Micro USB Charger
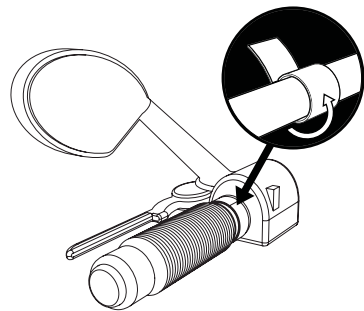(1m long)
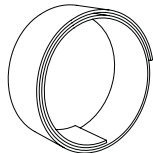
1 Velcro Strap
(150mm long)

1 Quick Start Guide

Installation

1. Place the Velcro strap near to the handle bar.
   (As per illustration above)

2. Loop the Velcro strap around the handle bar.

Installation
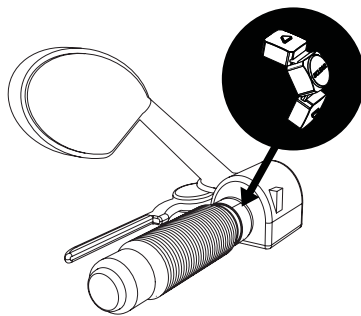
3. Place the Universal Remote onto the Velcro strap.
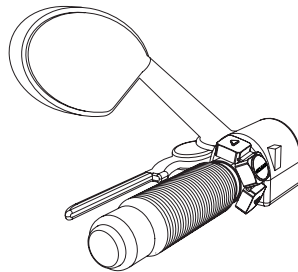
4. Ensures the Universal Remote is fastened.
Installation completed. Enjoy!

General Operations

Your UCLEAR Universal Remote is now all set and ready to go!

Universal Remote to HBC, HBC to Mobile Phone
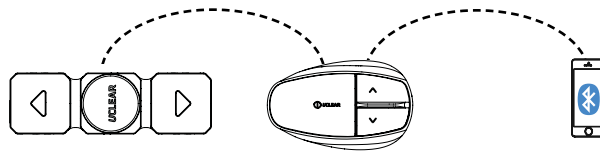
Establish connection between Universal Remote and HBC:

• Power 'On' the HBC unit, hold 'Up' and 'Down' buttons for seconds until LED blinks blue and red alternately.

• While holding the 'Up' or 'Down' button, power 'On' the Universal Remote, only release the 'Up' or 'Down' button until the LED blinks blue and red alternately.

• Once the connection is successful, HBC unit and Universal Remote will blink blue.

• Pairing is only necessary for the first time connection. Just Connect Mode is a more convenient way of establishing connection between HBC unit and Universal Remote.
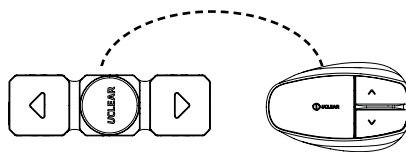
General Operations

Establish connection between HBC and Mobile Phone

• Hold the 'Up' and 'Down' buttons on the HBC unit for 2 seconds.

• The LED indicator would blink blue and red alternately.

• Turn on the mobile phone bluetooth and select the respective UCLEAR HBC name to pair with the unit.

When prompted to enter a passcode, enter '0000'.

 *Most mobile phones when paired would be automatically connected with both phone and music bluetooth capabilities.
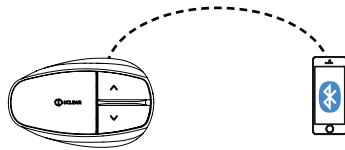
All the connections among Universal Remote, Helmet Communicator, and Mobile Phone are established. You may now use the Universal Remote to control the helmet communicator to answer your calls, make outgoing calls or listen to music.

General Operations

Pick up incoming call:
Press the Universal Remote 'Answer' button once.

Reject calls:
Hold the Universal Remote 'Answer' button for 2 seconds.

Voice calls:
Hold the Universal Remote 'Down' and 'Answer' buttons for 2 seconds.

Last number redial:
Hold the Universal Remote 'Up' and 'Answer' buttons for 2 seconds.

Play music
Press the Universal Remote 'Answer' button for 2 times.

Stop music
Press the Universal Remote 'Answer' button 1 times.

Fast forward music
Press the Universal Remote 'Up' button for 2 times.

Back track music
Press the Universal Remote 'Down' button for 2 times.

Attention
Please **DO NOT HOLD** the Universal Remote 'Answer' button for too long while rejecting calls. It may turn off the connected HBC unit (5 seconds will turn off the connected HBC unit), unless you want to turn it off.

Intercom Connection

Step 1
Pair the Universal Remote to respective HBC unit, if they have not been paired before.

To connect the Universal Remote to the helmet communicator,

• Power 'On' the HBC unit and hold 'Up' and 'Down' buttons for 2 seconds until LED blinks blue and red alternately.

• While holding the 'Up' or 'Down' button, power 'On' the Universal Remote, only release the 'Up' or 'Down' till the LED blinks blue and red alternately.

• Once the connection is successful, HBC and Universal Remote will blink blue.

• Power 'Off' the Universal Remote and respective HBC unit. The Universal Remote to the respective HBC unit preparation is done.

Attention
Pairing is only necessary for establishing your initial connection. You can use Just Connect Mode to establish future connections between your Universal Remote and HBC controller.

Intercom Connection

Step 2
Pairing between HBC units.

To use the intercom for the first time, you must pair your communicator to other HBC units.

Pairing process needs to be carried out only once.

• Power off all HBC units first.

• Pick one units as the 1st device, hold 'Answer' and 'Up' buttons for 3 seconds.The status indicator wouldblink purple.

• For the 2nd device, hold 'Answer' and 'Up' buttons for 3 seconds. The status indicator wouldblink purple. Wait until the 1st device status indicator to turn blue, then proceed to pair the next device.

• Hold 'Answer' and 'Up' buttons for 3 seconds on the 3rd device. The status indicator will blink purple. Wait for the 2nd device status indicator to turn blue, then proceed to pair the next device.

• Repeat all steps for all other units until all the devices are paired.

• The last device will remain blinking purple if the maximum HBC that can be connected have not been reached. You can press any button on the device toend the pairing process. The status indicator will turn blue.

• Off all the HBC units and the preparation is done.

| Unit 1 | Unit 2 | Unit 3 | Unit 4 | Or More... |
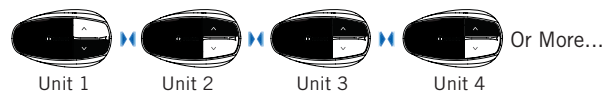
Intercom Connection

The time of in use

Step 2

Turn 'On' all HBC units, connecting up all the intercom.

To enable the intercom, hold the 'Up' button for 2 seconds. All the paired HBC units will be chained up automatically.

 Or more...

Step 3

Connect respective Universal Remote by pressing 'Power' button once. (Turning 'On' the power, the Universal Remote will connect to the already paired HBC units).

 Or more...
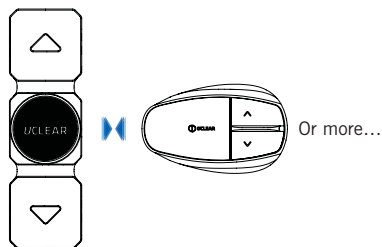
Step 4

Connect the Phone to HBC device if phone is used

• If the phone is paired with the respective HBC unit, turn on the mobile phone bluetooth functions, select the UCLEAR HBC device name to connect.

 Or more...
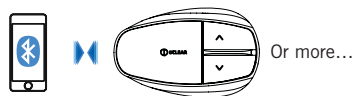
Intercom Connection

• If the phone has not paired with the respective HBC unit yet, pairing is necessary by holding the 'Up' and 'Down' buttons of the Universal Remote for 2 seconds. This will let the helmet communicator into pairing mode. The status indicator ofthe HBC unit would blink blue and red alternately.

Or more…
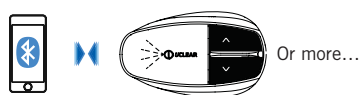
• Next turn on the mobile phone bluetooth functions and search for bluetooth devices. Select the UCLEAR HBC device name to pair with the desired device.

• Most mobile phones when paired would be automatically connected with both phone and music bluetooth capabilities.

General Button Configurations

Action	Button
Not Connected	
Power on	Press 'Answer' button once
Pairing	While holding 'Up' or 'Down' button, on the 'Power'
Connected to HBC (HBC connected to phone)	
Activate HBC pairing	Hold 'Up' and 'Down' buttons for 2 seconds
Reset HBC	Press 'Answer', 'Up' and 'Down' buttons simultaneously
Pick up call	Press 'Answer' button once
End call	Hold 'Answer' button for 2 seconds
Reject call	Hold 'Answer' button for 2 seconds
Voice dial	Hold 'Answer' and 'Down' buttons for 2 seconds
Last number redial	Hold 'Answer' and 'Up' buttons for 2 seconds
Play music	Press 'Answer' button 2 times quickly
Stop music	Press 'Answer' button 1 time
Fast forward track	Press 'Up' button 2 times quickly
Backtrack	Press 'Down' button 2 times quickly
Connected to HBC (Intercom is used)	
Connect intercom	Hold 'Up' button for 2 seconds
Disconnect intercom	Hold 'Down' button for 2 seconds
Common instruction commands (For phone call, music, intercom)	
Volume Up	Press 'Up' button once
Volume Down	Press 'Down' button once

General Status Indicator Configurations

The table below shows the status indicator configurations

	State	Status Indicator
1	Power on (No connection)	Blink purple once every second
2	Pairing to HBC unit	Blink blue and red alternatively slowly
3	Connecting to HBC unit	Blink blue and red alternatively quickly
4	Connected to HBC unit	Blink blue slowly once every 2 seconds
5	Battery low	Blink red every minute
6	Power off	Blink red 5 times
7	Battery charging	Solid red
8	Battery fully charged	Solid blue
9	Entering DFU mode	Blink red once (All LED off completely)
10	Power off	All LED off

Technical Data

Unit	
Dimension (L x W x H)	60mm x 20mm x 12mm
Weight	10g
Bluetooth	
Specifications	Version 4.1 , Class 2
Profiles	RFComm
Carrier frequency	2.402 – 2.480 GHz
RF output power	7.76dBm
Power	
Power consumption	50mW (max)
Power input (Charging)	5V / 300 mA
Built-in-battery	3.7V, 30mAh x 2, Lithium-ion Polymer (Rechargeable)
Operation time	15 hours
Temperature	
Operation temperature	- 28.9℃ to 60℃ (-20℉ to 140℉)
Charging temperature	0℃ to +45℃ (+35℉ to +113℉)
Storage temperature	-40℃ to +80℃ (-38℉ to +176℉)

Notices

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Notices

⚠ BATTERY WARNING:

The UCLEAR Universal Remote contains a rechargeable lithium ion polymer battery. To reduce risks of fire or burns, do not disassemble, crush, puncture, short external contacts or dispose in fire or water.

⚠ CHARGING NOTICE:

To reduce the risk of personal injury, electrical shock, fire or damage to equipments, please follow all the instructions below:

- Do not immerse the product, AC adaptor or speakers in water.

- Do not install, place or use the product near any source of heat for example: stove, radiator, oven, toaster, coffee maker or otherapparatus that gives off heat.

- Always use the provided AC power adaptor and cable included in the package to charge the product. Use of any incorrect power supply to charge the product may cause permanent damage to the product and render the warranty void.

WARRANTY:

Without prejudice of legal warranty, the product is covered under a 2 year warranty by manufacturer from the date of purchase. Please provide the proof of purchase when you return the item to the supplier. The warranty covers manufacturing defects only. The warranty is voided by any unauthorized repairs, misuse, misapplication, tampering of the product, modifications, upgrading or results of any failures to follow the guidelines as set out in the product brochure or by any of the actions specified in this brochure or anywhere in our technical publishing released to the public from time to time which would have voided the warranty.

Warranty does not cover data recovery and physical deterioration due to use, damages resulting from accidents, storage, loss or data loss or damage during repairs or transits. The sender will bear all transportation charges for functioning products but which were declared defective.

Notices

LIMITATIONS OF WARRANTY:
All product warranties for the product by are limited to those mentioned in the product manual.

WAIVER AND DISCLAIMER:
BITwave, and all their representatives, partners, agents, distributors, suppliers and resellers shall not be liable and will be held harmless from any and all litigation, claims, debts, demands, actions and liability which may arise, directly or indirectly, from operating or using the product for any damages, losses, distress, pain, suffering, discomfort, loss and injuries including bodily harm illness, strains, fractures, partial and/or total paralysis, death or other ailments that could cause serious disability either to any persons, or any parties whether the user or other third parties or their possessions, or to any goods, vehicles, properties, assets among others including your own suffered by any persons, organizations, or any third parties whether physical or otherwise and which may accrue to you in the future, to the fullest extent permitted by law as a result of the use, operation, malfunctioning, misuse, disposal or repairs of the product or any other reasons, conditions or circumstances or attempts to do so whether due to negligence, omissions, or otherwise of BITwave, or any of their representatives, partners, agents, .distributors, suppliers, resellers, designer, manufacturer or any others in its supply and distribution chain or any third parties involved.

All risks from operating or usage of the product rest solely and entirely with the user of this product, the original purchaser or any third parties, who assumes full responsibility for all injuries, losses and/ or damages, whether caused in whole or in part by the negligence, omissions or other conduct of others, including that of BITwave, and all their representatives, partners, agents, distributors, suppliers, resellers and all others in its supply and distribution chain either due to the designer's or manufacturer's negligence or omissions or any third parties involved.

Notices

CORRECT DISPOSAL OF THIS PRODUCT:

Do not dispose this product with other household wastes at the end of its working life. There is a separate collection system for used electronic products in accordance with legislation that requires proper treatment, recovery and recycling. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling. Business users should contact their suppliers and refer to the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

PRODUCT INFORMATION:

BITwave, and all their representatives, agents, distributors, suppliers or resellers shall not be held responsible for any consequences arising from any errors or omissions in the guide or resulting directly or indirectly from the use of the information herein. BITwave reserves the right to amend or improve the product design or user guide without any restrictions and without any obligation to notify users. All information here is accurate as of the date of printing.

Please check for the latest version of any the modified or upgraded product on www.uclear-digital.com from time to time

PERSONAL SAFETY:

Do not open the seal of the hardware, tamper, repair or modify any parts. Do not touch the product with metal objects or parts or chemical products. Violation of the above will lead to potential fire hazards and mishaps. Please contact the technical support or your local supplier if your product malfunctions. Always comply with the local law and traffic regulations. Where use of the product is not permitted or allowed by any laws and regulations including the traffic laws of your country, we warn you not to go against such restrictions. You will bear the full responsibilities of any breaches of law and regulations.

Notices

You should not allow the operations or use of the product or any attempts to use it by any persons including yourself to compromise anyone's safety including your own or to cause harm to any vehicles, property, objects, livestock, inventories, assets and the like under any circumstances. You or any users of the product are to take all necessary safety measures and precautions and to remain alert to all surrounding conditions. You are warned not to operate the product if you are not physically capable of doing so in a safe manner, if you have or will consume any alcohol or any mind-altering substance during its operation so that your alertness is compromised or if you have any medical conditions or needs that may compromise your abilities to do so in a safe manner. We warn you of the inherent, unforeseeable and unlimited risks and dangers in using the product while in traffic, including injury or illness, strains, fractures, partial and/or total paralysis, death or other ailments that could cause serious disability due to any causes.This product is only for use by persons eighteen (18) years of age and above who have understood the warnings, risks and the terms of use. You confirm that you have read this release of liability and fully understand its terms and that you have given up substantial rights by using or attempting to use the product.

TECHNICAL SUPPORT:

For additional information please visit our website at
www.uclear-digital.com

For customer and technical support in the US and Canada, please contact:

BITwave USA LLC
1093 E Iron Eagle Dr. #115
Eagle, ID 83616
1-855-BIT-WAVE

Notices

FCC COMPLIANCE STATEMENT:

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 operations.

Note: The manufacturer is not responsible for any radio or tv interference caused by unauthorized modifications to this equipment. Any modifications to the equipment will void the manufacturer's warranty.

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 interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device. This Class[B] digital apparatus complies with Canadian ICES-003.

Notices

Cet appareil s'accorde avec Industrie Canada licence-exempte RSS standard. (1) cet appareil ne peut pas causer l'intervention, et (2) cet appareil doit accepter de l'intervention, y compris l'intervention qui peut causer l'opération non désirée de.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada

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