WELCOME TO

VholdR™

WEAR SHOOT SHARE

Wear Your VholdR

Congratulations and welcome to the VholdR Community. We are committed to creating the easiest way to shoot and share action video.

CONTENTS:
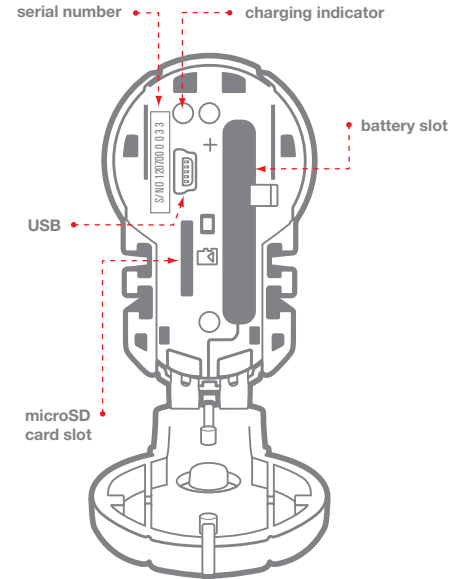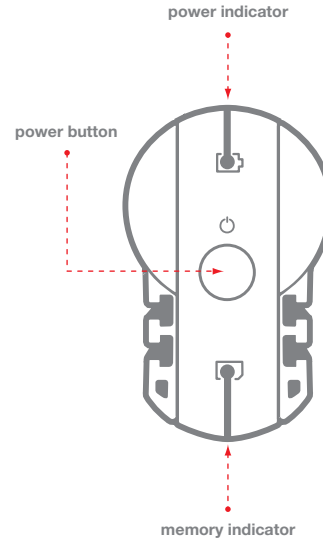
What's in the Box:

a   VholdR Camera

b   MicroSD Card

c   Software (on MicroSD card)

d   USB Cable

e   Battery

f   Helmet Mount w/ Leash

g   Manual

Part One: Getting to know your VholdR Camera

You probably want to get started using your VholdR right away, so we'll try and get you up and running quickly. Follow along as we help you record your first VholdR video, right out of the box.

record switch

192° rotating lens

rear door

stop

record

VHOLDR LENS

500mm - ∞ - >90°

TRail™ mounting system

dual alignment lasers

serial number

charging indicator

power indicator

battery slot

power button

S/N 0 1207000 0 1 3 3

USB

microSD card slot

memory indicator
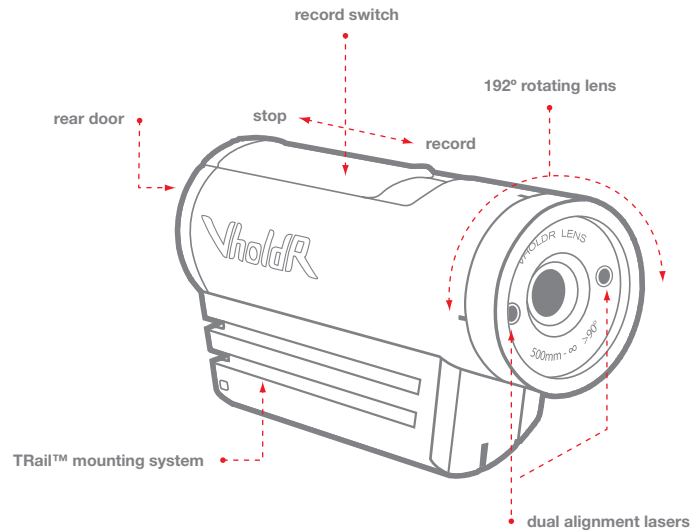
MicroSD Card & Battery

1   To open VholdR's back door, place your thumb at the bottom of the door and gently push upwards.
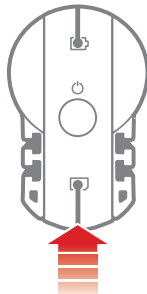
2   Your MicroSD memory card is already in place. press on the card until you hear a gentle click and the top of the card has ejected.

    Note: VholdR only supports up to a 2GB MicroSD card (non-HC format)

3   To insert the battery, align the plus sign (+) on the camera with the plus sign (+) on the battery and insert the gold contacts first. Hold the battery tab away from the opening to allow enough space for the battery to slide into place. Slide the tab over the top of the battery and ensure it is resting in one of the grooves on top of the battery.

    Note: It is important that the battery clip is firmly engaged to secure the battery in place.

4   Close the back door by aligning it slightly above the body of the camera and then sliding downward until it locks into place.
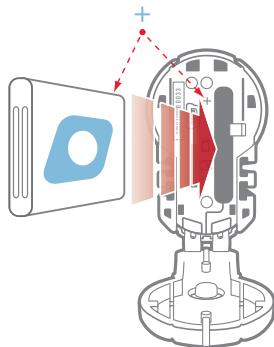
Charging the Battery

Your VholdR battery will have some juice out of the box, but we recommend a fresh charge before recording your first adventure. VholdR is designed to charge directly from your computer via the included USB cable.

USB connection

charging indicator
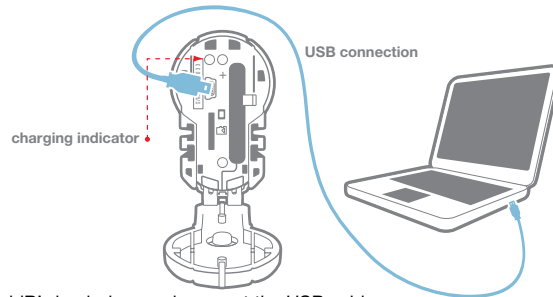
1   Open VholdR's back door and connect the USB cable.

2   Connect the other end of the USB cable to your computer.
    USB input: 5V 500mA

    Note: The VholdR will charge fastest while not powered on.

3   VholdR's charging indicator light (located inside the back door) will be red when the battery is charging.

4   The battery indicator light will turn green once the VholdR is full charged provided the VholdR is powered off while charging. The battery will take about 4 hours to full charge.

5   Your VholdR uses a rechargeable Lithium-Ion, 3.7V, 900mAh battery. Do not use batteries other than those specifically designed for the VholdR. Use of any other battery may present a risk of fire or explosion.

    Note: A VholdR wall charger is available as an accessory at www.vholdr.com

Powering Up

Before you power up, make sure your VholdR is in the 'Stop' position by sliding the top record switch all the way back against the rear door.

Note: Do not toggle the record switch or connect to a computer until the unit is fully booted. (Approximately 15 seconds).

rear   front
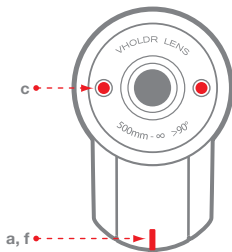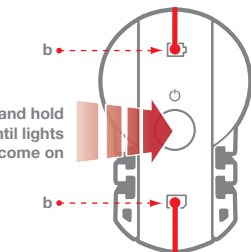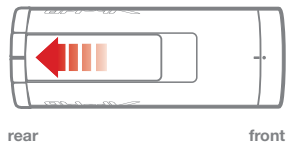
Press and hold the power button until the status lights on the back light up, then release.

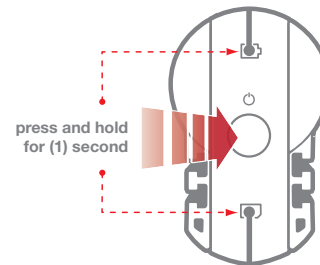a   The front red power light will turn on.

b   The rear two lights will stay amber for about 10 seconds.

c   Next, the lens lasers will turn on for about five seconds as the back two indicator lights turn off.

CAUTION: DO NOT stare directly into the laser beams.

d   Finally, the lasers will turn off and you will hear a beep.

e   The VholdR is now fully booted and ready to record.

f   The red power light will remain on to indicate the VholdR is on and ready to go.

b

press and hold until lights come on

b

VHOLDR LENS
500mm - ∞   >90°

c

a, f

VholdR Camera Status

You can check the status of your VholdR camera by pressing and holding the power button for one second after the camera has finished booting.

press and hold for (1) second

| Battery Status	
Green light	More than 66% full
Yellow light	Between 33% and 66% full
Red light	Less than 33% - time to recharge
No lights	Recharge your VholdR or power up again
Memory card status	
Green light	More than 66% free recording space
Yellow light	Between 33% and 66% free recording space
Red light	Less than 33% - time to swap out cards or download
Flashing Red	Your memory card is full, you are missing a card, or your card has an error and needs to be formatted (see Tips & Troubleshooting to format your MicroSD Card)
Power off	Press and hold rear button for 3 seconds or until all lights turn off

Part Two: Mount, Align, and Record

Mounting, Aligning, and Recording great action video out of the box is
an important part of the VholdR experience. The following explains how
to record video from your point of view successfully on the first try.

Mount

1   Your standing position and riding positions are different. When going down hill your
    head is lower than you think and when traveling uphill your camera can be filming
    the sky. Therefore, first get into a true riding position.

2   Select your preferred mounting location on your helmet.
    Note: The top of the helmet provides the most centered view.

3   Find a flat or slightly curved surface. Clean off the surface with alcohol or a damp
    cloth and let dry. Remove the cover on the adhesive pad and then adhere the base
    to your surface.
    Note: Press firmly and for best results let sit overnight to cure.

**attach and adjust camera according to your riding position
(it's no fun watching videos of the ground)**
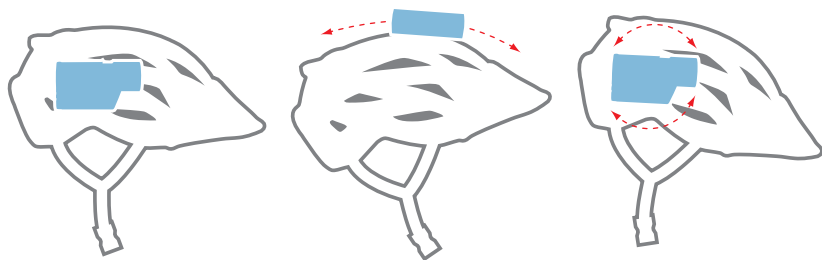
Mount

4   Loop the leash through either of the two holes on the back of VholdR before attaching
    the VholdR to the mount.

5   Slide your camera onto the rails of the mount with the two notches on the mount facing
    towards the back of the camera.

6   To adjust the vertical position of your mount you can detach the rails from the base of
    the mount. Simply hold down the base and pull the VholdR away from the mount until
    the Velcro detaches. For best results and longevity it is best to not pull straight but to
    apply pressure out from the rear half.

**after detaching, rotate
vertically to align and then
reattach firmly into mount**

**hold base of
mount firmly
against
surface as
you pull
camera
away
from
velcro**

**attach leash
before using**
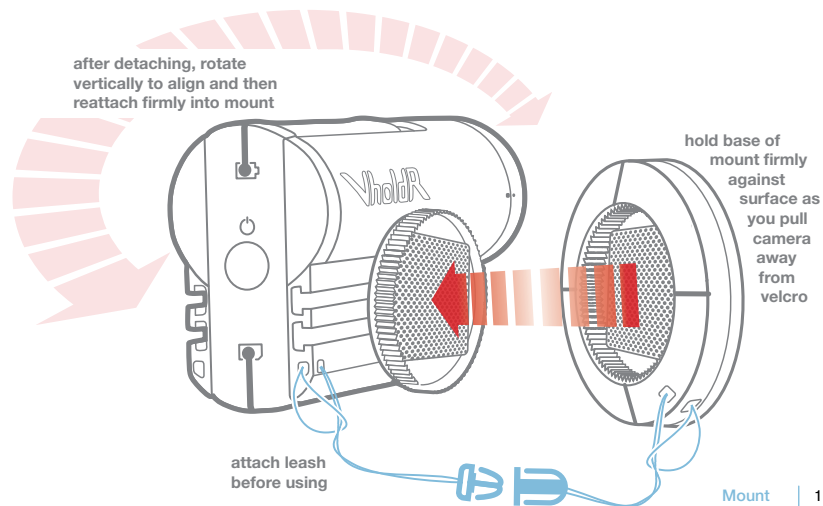
Align

Now let's align your VholdR. Remember, there is no screen so the lasers
are designed to give you a visual level of what you will be shooting.

**rotate lens to align
lasers horizontally**

**press and hold
for (1) second**

aim lasers
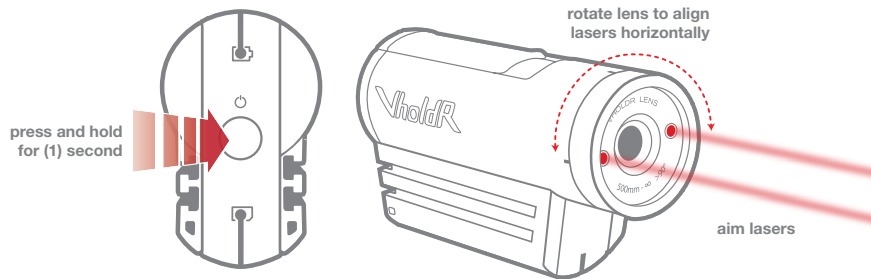
1   Assume the riding position. Then press and hold the power button for one second until
     the lasers turn on. Lasers will show for 5 seconds.

     CAUTION: Avoid staring directly into the laser beams.

2   Aim the two laser points at your hand, a wall, or object in front of you. Rotate the FRONT
     of the VholdR lens and/or adjust the mount until the lasers are aligned
   HORIZONTALLY. This ensures the horizon is correctly aligned.

     *Note: There is a limit of just over 90 degrees in either direction so if you reach that point try rotating the
     lens in the opposite direction or adjust the mounting position.*

Record Video

When sliding the switch all the way forwards or backwards you will feel a
slight click to indicate the switch is in the final position.
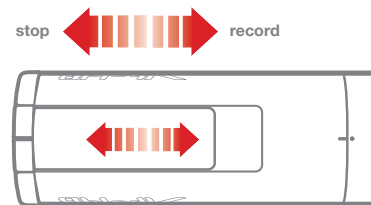
stop   record

•   Start Recording: Slide the record switch forward towards the lens.

     Indicator: you will hear (1) beep. The red power light (in front) will blink.

•   Stop Recording: Slide the record switch back against the rear door.

     Indicator: you will hear two beeps. The red power light (in front) will stop blinking.

     *Note: Slide the switch all the way forward and backwards until you feel a slight click to indicate the switch
     is in its final position. Be patient with hearing the beeps, but if you do not hear the proper beeps please
     see Tips and Troubleshooting.*

Part Three: VholdR Software

The VholdR camera supports both PC and Mac, but the
VholdR Desktop software is only PC compatible at this time.

Minimum PC Requirements:

Operating Systems: XP & Vista
Language: English
Browsers: IE 6.0, 7.0 & Firefox 1.0, 2.0, 3.0
Windows Media Player 10
Microsoft Dot Net 3.0

*Note: In order to properly install and activate your VholdR Desktop, your account
needs to have 'System Administrator' privileges.*

Windows XP:
1 Click the 'Start' button.
2 Select 'Control Panel'.
3 Open 'User Accounts'.
4 Your login account should be labeled "Computer administrator".

Windows Vista:
1 Click the 'Start Menu'.
2 Select 'Control Panel'.
3 Open 'User Accounts'.
4 Your login account should be labeled 'Administrator'.
5 Select 'Turn User Account Control on or off'.
6 Uncheck the 'Use User Account Control (UAC) to help protect your
   computer' checkbox and select OK.
7 You will need to restart your computer.

Macintosh

We love Macintosh and many of us at VholdR are lifetime Mac users,
but we're still working on VholdR Desktop for Mac so please be patient
with us while we work on developing Mac software. To check our
status on a Mac version please visit: http://www.vholdr.com/mac.
In the meantime, the following directions are written just for you.

1 Connect VholdR - When you connect VholdR, a new drive should appear on your
   desktop. It should appear as 'untitled' if you did not previously format your card with
   a name. Double click on the icon to open up the file menu of your VholdR. Drag the
   video clips to your desktop or new folder.

2 Xvid Codec - In order to play your VholdR videos you will need an Xvid compatible
   player (QuickTime does not play native Xvid files) or to convert the VholdR videos to
   a QuickTime compatible file type.

   Player – VLC Media Player http://www.videolan.org/vlc/

   Convert Files – FFmpegX http://homepage.mac.com/major4/

3 To play a video with the VLC player, right click on video file and select the VLC
   player.

   Sharing to VholdR.com - We would love to see your videos on VholdR.com so go to
   www.vholdr.com, create an account, and then upload your videos one at a time.

Install Software and Register

VholdR Desktop is designed to simplify your video experience so you can share your videos with a single click. The installer for the VholdR Desktop is on the MicroSD card shipped with your VholdR.

1   The MicroSD card should already be in your camera. Power up your VholdR. (see Powering Up)

2   Connect your VholdR to your computer via the USB cable.

3   AutoPlay options will appear. To install VholdR Desktop, select the Install.HTML file and then select 'Download VholdR Desktop' to begin the download. You will need an internet connection to begin the download process (we have chosen this process so you only receive the latest of VholdR Desktop).

Note: If AutoPlay does not launch, go to My Computer, right click on the <Drive letter> VholdR camera and choose Open AutoPlay.

4   To Launch VholdR Desktop after completing the installation, select the shortcut icon on your desktop or select Start, All Programs, and then VholdR Desktop.

5   VholdR Desktop will prompt you to register.

Note: THIS IS A CRITICAL REQUIREMENT TO SHARING VIDEOS.

6   Register by creating a user name and password. This will enable you to share your videos at VholdR.com.

7   During the registration you will be asked for a serial number, this can be found inside the rear door of VholdR Desktop above the USB port.

Note: If you reformat the MicroSD card, the installer will not be available on the MicroSD card. Download the latest version of VholdR Desktop: http://update.vholdr.com/client/VholdRDesktop.exe

Community

Now that you have shared your videos to VholdR.com, how do you view your videos online?

http://www.vholdr.com

1   Sign in with your VholdR login.
2   Edit your profile; add a photo and user information.
3   If you haven't already, enhance your video clips with a title, tags, location, and a description.
4   This allows your content to be searchable and viewable to other VholdR enthusiast.

    How to Share your videos
•   Email your link to friends and family.
•   Embed the video into your site.
•   Store with social bookmarking sites: Digg, Del.icio.us, Reddit, StumbleUpon, Technorati, Newsvine.

Watch other Videos! Mark your favorites!
Interact with other enthusiasts!

Tips & Troubleshooting

The following troubleshooting guide is to help you solve any issues you come across with VholdR. We have provided simple steps for the top customer issues that you might face. If you are unable to resolve an issue with the guide below, please contact VholdR Support. We are happy to work with you and are here to support your VholdR adventures.

Support Hours: Monday - Friday, 9:00am to 6:00pm PST

866.397.6920 (USA)   206.792.5226 (International)

support@vholdr.com

www.vholdr.com/support

Tips & Troubleshooting

Battery Will Not Fit

Steps

1   To insert the battery, align the plus sign (+) on the camera with the plus sign (+) on the battery and insert the gold contacts first.

2   Hold the battery tab away from the opening to allow enough space for the battery to slide into place. Slide the tab over the top of the battery and ensure it is resting in one of the grooves on top of the battery.

3   The battery and camera were made to have a very tight fit to keep the connection as solid as possible which keeps the VholdR from accidentally powering off when in action. Move the battery from side to side until it slides into place.

VholdR Does Not Appear to Hold a Charge

Steps

1   Make sure the camera is completely off when charging via the USB cable; the battery takes approximately 4 hours for a full charge.
Note: Charging while the camera is on will take twice as long. The battery status light will not turn green when the camera is powered on while charging.

2   Charge the battery more quickly using the wall charger. (http://vholdr.com/shoot/accessories/overview)

3   Remove the battery and make sure the gold connectors are not dirty or damaged.

4   Reinsert the battery making sure that the gold connectors are aligned with the plus sign (+) and that this side is inserted into the camera first.

Tips & Troubleshooting

5   Engage ensuring the clip securely over the top of the battery so that the battery is snuggly
    seated in the battery slot.

6   Ensure the mini-USB cable is securely connected to the VholdR and the USB connector is
    securely connected to a USB port on the computer which is capable of providing sufficient
    current for charging.

Power Button Not Functioning

Steps

1   Press down firmly until the indicator lights blink to indicate the VholdR is booting.

2   Ensure the back door is properly closed and secure when turning the VholdR on or off.

3   Remove and reinsert the battery to reset the VholdR.

Excessive Wind Noise While Recording

Steps

1   Wind is an issue when recording action video so cover the microphone with tape or foam.
    (see 'Getting to Know Your VholdR')

2   Adjusting the angle at which the camera is recording so that the microphone falls more into
    the slipstream and not directly in the path of the wind.

Computer Not Recognizing Camera

Steps

1   After 'Powering Up' the VholdR, wait for the boot process to complete then connect the

Tips & Troubleshooting

VholdR to the computer. If you connect before the boot is complete, windows will give you
an 'Unrecognized USB Device' error.

2   Ensure the record switch is in the off position when connecting to the computer. If the record
    switch is in the recording position when connected to the computer, the computer may
    prompt you to download drivers for unrecognized hardware.

3   Remove and reinsert battery to reset the VholdR.

4   MicroSD card may not be properly inserted in the SD slot. It may be positioned between the
    slot and housing. Remove the MicroSD card, confirm the contacts are not dirty or damaged,
    and carefully reinsert into the SD slot.

5   MicroSD card may be corrupted and may need to be reformatting. Refer to Tips and
    Troubleshooting for complete directions.

VholdR Camera Not Recording

Steps

1   Do not remove the MicroSD card while the camera is recording.

2   Do not remove the MicroSD card while the camera is on.

3   Do not remove the MicroSD card while the camera is booting. (wait for the beep,
    not the lights)

4   Make sure while booting the camera with record switch in the stop position.

    *Note: How to tell if you've accidently done one of the above. When you've connect your VholdR to the
    computer and you find that it recognizes the device, but it doesn't show a drive letter, then you need
    reformat your card.*

Tips & Troubleshooting

Formatting your MicroSD card

Steps
1   Insert MicroSD card into a MicroSD card reader/adapter and plug into the computer directly.
2   Plug your VholdR into the computer.
3   After you've created a back up of your content, right click on drive letter and select format.
4   Format settings:
    a   Capacity: Use default
    b   File System: FAT32
    c   Allocation unit size: Default allocation size
    d   Volume Label: VholdR
    e   Format options: Quick Format
    f   Select Start.
    g   Warning appears, select OK.

Slow or Choppy Playback of Video

Steps
1   Make sure VholdR Desktop has been fully installed and if FFDshow appears, you should
    check the box to always use it with Xvid codec videos.

2   The video should be viewed after it has been downloaded from the camera to the computer.
    Do not play videos right off the VholdR; otherwise it will be slow and choppy.
    When recording a video, make sure the camera is finished booting before recording.

3   Ensure the record switch is fully engaged when starting a recording.

4   Ensure the record switch is off when stopping a recording.

5   When installing the battery, ensure the battery clip is securely holding the battery in place.

Tips & Troubleshooting

Video Failed to Upload to VholdR.com

Steps
1   Check the size of your video file. The largest file type we accept is 100MB.

2   Uploading a large video clip via a wireless connection has a higher probability of interruption
    and may cause the upload to fail.

3   Once you upload a video, it will take 15 to 30 minutes to render/process your video before it
    is viewable on the site.

4   If it has been longer than 30 minutes and your video still indicates 'Processing' on VholdR.
    com, it could be that it did not upload successfully. This may be due to some sort of timeout
    between your computer and our server. Try uploading the video again.

Difficulty Playing Video on a Mac

Steps
1   Read the previous section above titled 'Macintosh'.

2   View our latest support of Mac (http://www.vholdr.com/mac).

Warranty

TWENTY20, INC. LIMITED WARRANTY
WHAT THE WARRANTY COVERS

Twenty20, Inc. ("Twenty20") warrants for 180 days from the date of purchase of product it will be free from defects in material and workmanship.

WHAT IT DOES NOT COVER

This warranty does not cover damage due to:

1   Accidents of any kind.
2   Exposure to pressure, extreme temperatures (outside of -20°C to 45°C), and submersion in water. This product is water resistant but not waterproof, shock resistant but not shock proof, and its performance can be hindered by extreme temperatures.
3   Installation and operation contrary to the instructions which come with the product, including misuse, abuse, and negligence.
4   Cosmetic damage.
5   Modification of or to any part of the product.

This warranty does not cover any product for which the factory applied serial number has been altered or removed or any damage due to improper maintenance. This warranty is valid in any countries Twenty20 sells the product or is legally represented.

EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WAR-
RANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON
THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY.
REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLU-
SIVE REMEDY OF THE CONSUMER, TWENTY20 SHALL NOT BE LIABLE FOR ANY
INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND CAUSED BY
BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT.

Warranty

HOW YOU CAN GET SERVICE AND WHAT TWENTY20 WILL DO:

To obtain warranty service, register your product at www.vholdr.com (http://www.vholdr.com) within 180 days from the date you purchased this product. If service is required, you may be instructed to deliver the product freight prepaid, in either its original packaging or packaging affording an equal degree of protection, to the company address below and provide proof of purchase in the form of a bill of sale or receipt which evidences that the unit is within the warranty period.

Twenty20 will, at its sole discretion, replace or repair the product. Please do not return the product to Twenty20 unless specifically instructed to do so.

Twenty20 Customer Information Services Center
Phone number: (866)397.6920
Email: support@vholdr.com

YOUR RIGHTS UNDER STATE LAW:

Some states do not allow the exclusion or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclu-
sions may not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

Warranty

Twenty20 Disclaimer

All purchasers, users, and any or all parties involved or engaging in the use of Twenty20, Inc ("Twenty20") products agree to the following:

- Twenty20 does not promote or endorse careless and or dangerous actions when using its products.
- Twenty20 is not liable for any use or misuse of Twenty20 Products in applications other than those for which it was designed.
- Twenty20 does not take any responsibility in relation to the use of our products or any video captured that may be considered illegal.
- Twenty20 is not responsible for any illegal actions taken while recording, attempting to record, or editing video that was captured with our products.
- Twenty20 products primary purpose is for recording legal action sports activities as seen by all Local, State, Federal, and Country laws.
- Twenty20 is indemnified from consequential or indirect loss, damage, injury, or death resulting from the use of Twenty20 products.

All trademarks and registered trademarks mentioned herein are recognized as the property of their respective holders.

VholdR is a product of Twenty20 Corporation in Seattle Washington www.vholdr.com

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Battery Handling

The lithium-ion battery may present a hazard if mistreated. Do not disassemble, crush, or puncture the lithium-ion battery. Do not immerse battery in water and store in a cool dry place when not in use. Do not use or leave battery near a heat source or in direct sunlight.

Do not dispose of either the VholdR or lithium-ion battery in a fire. Dispose of batteries in accordance with local laws and regulations.

Use only the lithium-ion battery specified for use in the VholdR. Using any other lithium-ion battery may invalidate the warranty provided by Twenty20, Inc. and may present a risk of fire or explosion.

User Manual FCC Information

VholdR   Model: 1102   FCCID: J61250712V1100

Warning: Changes or modification to this unit not expressly approved by party responsible for compliance could void the user's authority to operate the equipment.

Note: 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 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 of 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 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.

THANK YOU.