

VR CONTROLLER REQUIREMENTS

VR CONTROLLER proper operation requires:

- Windows Mixed Reality compatible PC
- Windows Mixed Reality compatible Head Mounted Display (HMD)
- Windows 10 creators update software release

VR CONTROLLER LAYOUT



FIRST RUN EXPERIENCE

CONNECTING YOUR CONTROLLER

The first run experience will guide the user through powering on and connecting the controller. It's also possible to power on and connect the controller through the native Bluetooth page in Windows Settings.

BEFORE SETUP

Before pairing, you will need:

- Two VR CONTROLLERs.
- Batteries for the controllers. Each controller takes two AA batteries.
- A Bluetooth dongle (if your machine doesn't support Bluetooth).

PAIRING YOUR CONTROLLERS FOR THE FIRST TIME

- 1. Choose one of the controllers to pair. We'll run through this process for each controller.
- 2. **Turn the controller on** by pressing the Windows button for 2 seconds. You should see the LEDs on the constellation flash and device vibrate, indicating that the device is on.
- 3. Go to Settings -> Devices -> Bluetooth and other devices.
- 4. **Remove old controllers,** if necessary. If you've already paired a different controller in the past, remove it by clicking on the controller that appears in the panel and choosing 'Remove Device'.

⇔	Motion controller - Right Connected	
		Remove device

5. Pairing Your Device

1. Click Add Bluetooth or other device on the Settings menu.



- 2. Choose Bluetooth
- 3. Remove the battery cover.
- 4. Press pairing button more than 3 seconds on one device.
 - The pairing button is located underneath the battery door next to the batteries.



- 5. Device LED constellation will blink, indicating that device is in pairing mode. Device is on pairing mode 60 seconds at the time.
- 6. You should see "VR CONTROLLER Left" or "VR CONTROLLER Right" appear in the Bluetooth menu.
- 7. Select "Connect", device will make single vibrate when connected. Windows Bluetooth settings should indicate state as 'Connected'.
- 8. Replace the battery cover.
- 9. Repeat these steps to pair the other VR CONTROLLER.

Device can be bonded with single host PC at the time.

You can un-pair device by removing controller from Windows Bluetooth setting or setting the device again into pairing mode.

RECONNECTING AFTER FIRST PAIRING

• After device has been successfully paired with host, it will reconnect next time when powered on.

POWERING OFF CONTROLLER

- Press Windows button for 4 seconds to power off the controller. The device will vibrate twice and the LEDs will turn off.
- If device is not tracked or it is motionless 30 seconds, controller will move to low power state to save power, picking up controller or pressing button will wake up the device.
- Your device will also automatically power off if there has not been motion for 10 minutes.

DEVICE INDICATORS

VR CONTROLLER uses LED constellation ring and haptics for indicating about its state.

Activity	Trigger	Indication
Power on/off	Windows button press	LED goes on/off and device vibrates 2 times
Idle	Controller not tracked by HMD or motionless for 30 seconds	Light blink slowly every 3 seconds to indicate the device is in idle mode
Pairing	Pairing button press	Lights slowly pulse when the device is in pairing mode
Connect/Disconnect	Controller connected or disconnected to/from host PC	Device vibrates once
Low Battery Level	During power on when battery level is "Low"	Lights blink twice when the device is turned on

Critical Battery Level	During power on when battery level is "Critical"	Light will blink three times when turned on if the battery is critically low. It will then turn off by itself.
Device Update	When firmware update started	LED constellation has circular blinking pattern

DEVICE RECOVERY

If the controller isn't working correctly and you're unable to update the device, you can always restore the device to factory conditions. To Recover your device:

- 1. Power off device
- 2. Open battery cover (Ensure you have good batteries when performing device recovery)
- 3. Press pairing button
- 4. Keep the pairing button pressed and power on the device by pressing home/Windows button for 4 seconds
- 5. Release both buttons and let the device power on, It's ok if it takes a few seconds for it to turn on (there is no indication during device recovery process)
- 6. Once the recovery is complete, you'll need to pair the controller to your PC again
- 7. After connecting with host and HMD device will update firmware to latest available

UPDATING DEVICE FIRMWARE

VR CONTROLLER firmware will be updated automatically when there is new firmware available through Windows Update service.

Firmware update will happen immediately after establishing connection with HMD and controller cannot be used during the update. Update duration depends on new firmware to be programmed and is indicated by illuminating LED constellation in circular blinking pattern.

After update is completed device re-connects to host PC and is ready to use.



Federal Communication Commission Interference 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 operation.

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 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.

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

Radiation Exposure Statement :

The product comply with the FCC portable RF exposure limit set forth for an uncontrolled environment and are safe for intended operation as described in this manual. This Transmitter must not be colocated or operating in conjunction with any other antenna or transmitter.

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 interference, and
 - 2) this device must accept any interference, including interference that may cause undesired operation of the device.
- 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.
- This Class B digital apparatus complies with Canadian ICES-003.
- Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.
- This device complies with RSS-310 of Industry Canada. Operation is subject to the condition that this device does not cause harmful interference.
- Cet appareil est conforme à la norme RSS-310 d'Industrie Canada. L'opération est soumise à la condition que cet appareil ne provoque aucune interférence nuisible.
- This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter, except tested built-in radios.
- Cet appareil et son antenne ne doivent pas être situés ou fonctionner en conjonction avec une autre antenne ou un autre émetteur, exception faites des radios intégrées qui ont été testées.
- The County Code Selection feature is disabled for products marketed in the US/ Canada.
- La fonction de sélection de l'indicatif du pays est désactivée pour les produits commercialisés aux États-Unis et au Canada.

Battery

This product use non- chargeable AA battery 2 pcs per controller.

"Use only batteries listed in the user-instructions" .

CAUTION RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS

CE

Declaration of Conformity

Hereby, Quanta Computer Inc. declares that the radio equipment type VRC100-L,VRC100-R is in compliance with,

EMCD Directive: 2014/30/EU

- EN 300 328 V2.1.1: 2016-11

RED Directive 2014/53/EU

- EN 301 489-1 V2.2.0 2017-03 (draft)
- EN 301 489-17 V3.2.0 2017-03 (draft)
- EN 55032:2015+AC:2016-07
- EN 61000-4-2 : 2009
- EN 61000-4-3: 2006+ A1: 2008 + A2: 2010

LVD Directive 2014/35/EU

- EN 60950-1: 2006/ A11: 2009 / A1:2010 / A12: 2011 / A2: 2013

Year to begin affixing CE marking 2017.

Radio Type / Descrip	otion	Transmitter Frequency (MHz)	Maximum Output Power
Bluetooth	BR + EDR	2402 ~ 2480	5.5 dBm