Catapult Vector 8 User Manual

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CATAPULT

1. OUTLINE

The Catapult Vector 8 product suite is a professional-grade GNSS system designed to measure the performance of elite athletes within individual and team sports. This document introduces the Vector 8 hardware components and provides an explanation of functionality and general operation.

The console-less experience of the Vector 8 system is enabled by the brand new dock design. Device-to-dock downloads and cloud uploads start as soon as the Vector S8 Devices are inserted into the Wi-Fi enabled Vector 8 Dock. The Vector 8 system combines speed, onboard computing, and automated cloud data management to bring workflow optimization to the next level.

The hardware components of the Vector 8 system include:

- Vector S8 wearable device
- Vector 8 Dock
- Vector 8 Receiver
- Vector 8 Relay
- Vector 8 Stadium Relay

2. VECTOR S8 WEARABLE DEVICE

The Vector S8 is a wearable (combined) GNSS / LPS device with embedded microsensors that is used to measure the performance of elite athletes, in both real-time and post session.

The Vector S8 device contains the following measurement sensors and components:

- GNSS module (10Hz GNSS)
- GNSS antenna
- Tri-axial Accelerometer (up to 1000 Hz)
- Tri-axial Gyroscope (up to 1000 Hz)
- Tri-axial Magnetometer (up to 1000Hz)
- Magnetic Heart Rate Receiver
- ECG heart rate board (up to 250Hz)
- Bluetooth Low Energy
- Device status LED’s
- Haptic feedback via vibration unit
- UWB Antenna

All sensors are sampling continuously, and data is logged onto an onboard SD card as well as transmitted live via ultra-wide-band (UWB) or Bluetooth (BLE).

Figure 1. Vector S8 wearable device.

Vector S8 Device Operation Overview

- **Charging:** Each Vector S8 device is charged and configured, prior to use, using the specifically designed Vector 8 Dock. This is a 30-device tray that connects to mains supply for the purpose of Vector S8 charging, data download and firmware upgrades.
- **Configuration:** Configuration of the Vector S8 occurs via the Catapult Vector App where athlete and device settings are transferred and stored on the Vector S8 device. Any changes that are made to the settings are then applied automatically when the Vector S8 wearable devices are inserted into the Vector 8 Dock.
- **Download Session:** Turn the Vector S8 wearable devices off by holding the button on the side of the device for 2 seconds and release. Place Vector S8 devices in Vector 8 Dock, press the dock power button, and the session files will be transferred from the wearable devices to the Vector 8 Dock which will then upload them to the cloud using the configured internet connection.

Device Connectors & Features

- **Power Button:** The power button has been placed on the edge of the device to make the device harder to press during play and thus minimizing accidental device turn offs.
- **HR Pins:** Allows the user to clip the device into a vest to collect heart rate data using an integrated heart rate vest.
- **Charging Pins**: Allows the device to connect to the Vector 8 Dock which enables the device(s) to charge and transfer data.

First Use and Charge

Ensure the devices are fully charged before using them to collect session data. To charge the devices, connect the Vector 8 Dock to a power supply and then place the Vector S8 wearable

devices into the slots on the Vector 8 Dock making sure they are seated correctly. The S8 wearable device's top LED charging light will breathe while the S8 wearable devices are charging. The top battery LED will turn solid green when the device is fully charged. The S8 wearable devices can be powered on by removing them from the Vector 8 Dock if the Vector 8 Dock is powered on and Ignition Mode active which is set to on by default. If the S8 wearable devices are not docked they can be powered on by pressing the power button on the side of the S8 wearable device or set by setting a time specific alarm in the Catapult Vector App.

Vest Pouch Insertion

The S8 wearable device is placed into the device pocket located on the back of the vest. It is clipped into the vest via the HR Clips located on the back of the device. Please ensure the device has been turned on prior to inserting the device into the vest. The device is now ready to record your player's data.

LED Layout

Figure 2. Vector S8 LED layout.

- **Top LED:** Top LED refers to the topmost LED on the S8 wearable device.
- **North LED:** North LED refers to the higher of the two grouped LEDs on the face of the S8 wearable device.
- **South LED:** South LED refers to the lower of the two grouped LEDs on the face of the S8 wearable device.

LED Functionality

LED Patterns

- **Solid:** A LED that is 'solid' maintains its brightness at a steady state. The feedback of a solid light is that the device is functioning as expected, or has completed any required operations.
- **Breathe:** An LED that 'breathes' performs a cycle of illumination and dimming at a controlled speed. A single cycle consists of an LED starting in a state of low

brightness, illuminating to the high state, then returning to the low state. The feedback of a breathing light is that the device is performing an operation. Examples include pairing, charging or uploading.

- **Flash:** An LED that 'flashes' performs an on/off sequence with no dimming. The feedback of a flashing light is a warning or representative of a failure in function. Examples include a device reaching a critical battery level or failing to charge or upload.

LED Behaviour

When Powering On/Off

When the S8 wearable device is powering on all three LEDs will do a single 'breath' on.
When the S8 wearable device is powering off all three LEDs will do a single 'breath' off.

	Top LED	**North LED**	**South LED**
Function	Device Power Up / Power Down		
LED Behaviour	Breath White		
Trigger	Power Up / Power Down		

Table 1. Vector S8 LED behaviour when powering on/off.

When Recording

2 minutes after entering recording mode, the brightness of the Vector S8 LEDs will dim. If the Power Button is pressed during this two minutes, the timer will be restarted. To bring the LED brightness back to 100% after it has dimmed, short press the Power Button.

	Top LED				**North LED**		**South LED**	
Function	Battery Status				GNSS Status		UWB Status	
LED Behaviour	Flash Red	Solid Red	Solid Amber	Solid Green	Breathe Green	Solid Green	Breathe Amber	Solid Amber
Trigger	Battery <10%	Battery 10-30%	Battery 30-80%	Battery 80%+	GNSS Searching	GNSS Lock	UWB Searching	UWB Lock

Table 2. Vector S8 LED behaviour when in recording mode.

When Docked

	Top LED				
Function	Battery Status				
LED Behaviour	Flash Red	Breathe Red	Breathe Amber	Breathe Green	Solid Green
Trigger	Charging Fault	Charging: Battery <30%	Charging: Battery 30-80%	Charging: Battery 80%+	Charged: Battery 100%

Table 3. Vector S8 Top LED behaviour when docked.

	North LED			**South LED**
Function	Enumeration/Upload			NA
LED Behaviour	Flash White	Breathe White	Solid White	OFF
Trigger	Enumeration / file transfer fault.	Enumerated and downloading data to dock	Enumerated with Dock	NA

Table 4. Vector S8 North/South LED behaviour when docked.

3. VECTOR 8 DOCK

The Vector 8 Dock has the following features and components:

- Up to 4 hours battery life
- USB-C connectivity
- On board memory
- Bluetooth connectivity
- WiFi connectivity (2.4 GHz, 5.2/5.3 GHz, 5.8 GHz)

Figure 3. Vector 8 Dock.

The Vector 8 Dock consists of 30 individual device slots, a power button, a USB-C port and a power supply port. The power button will ready the dock to perform functions such as charging connected devices and transferring session data. The Vector 8 Dock can also be configured to automatically upload recorded data from docked devices to the cloud using inbuilt WiFi functionality. To enable this feature, the Vector 8 Dock must first be connected to a supporting mobile phone application via inbuilt Bluetooth connectivity. The Vector 8 Dock is built to last up to 4 hours without a power supply with use of an onboard battery. This allows for pitch-side data download and device configuration. The travel case for the Vector 8 Dock is built to accommodate the power adapter and cables.

To operate the Vector 8 Dock, plug the dock into mains power with cables provided and press the power button. Insert Vector S8 devices to charge. Vector S8 wearable devices that are correctly inserted into the Vector S8 Dock will display their battery/charging status through their top LED. For more information please refer to ‘LED Behaviour’ under the Vector S8 wearable device section of this manual.

LED and Button Layout

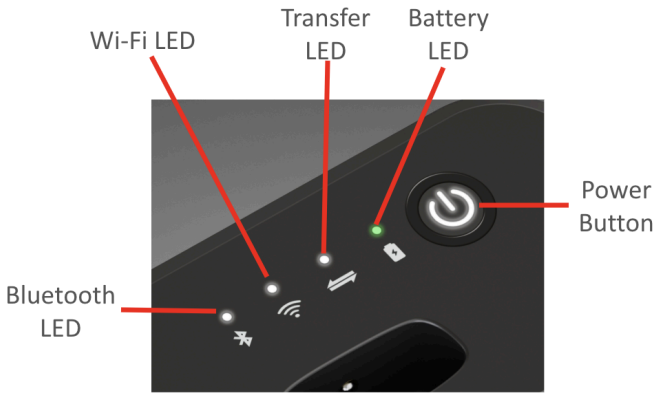


Figure 4. Vector 8 Dock LED and button layout.

- **Power Button:** The Power Button shows the current power state of the dock - being On, Off or in Standby.
- **Battery LED:** The Battery LED shows the current charge level of the Vector 8 Dock.
- **Data Transfer LED:** The Data Transfer LED shows the data transfer status of the Vector 8 Dock - reflecting whether it is busy or idle.
- **WiFi LED:** The WiFi LED shows the connection status of the Vector 8 Dock to a WiFi network - reflecting whether it is searching or connected.
- **Bluetooth LED:** The Bluetooth LED shows the connection status of the Vector 8 Dock to a Bluetooth application - reflecting whether it is searching or connected.

LED Behaviour

	Battery LED								
Function	Battery Status								
Condition	Dock is running on Battery				Dock is using DC Power (and charging)				
LED Behaviour	Flash Red	Solid Red	Solid Yellow	Solid Green	Flash Red	Breathe Red	Breathe Yellow	Breathe Green	Solid Green
Trigger	Battery <10%	Battery 10-30%	Battery 30-80%	Battery 80%+	Charging Fault	Charging: Battery <30%	Charging: Battery 30-80%	Charging: Battery 80%+	Charged: Battery 100%

Table 5. Vector 8 Dock battery LED behaviour.

	Transfer LED

Function	Data Transfer Status			
LED Behaviour	Breathe Pink	Solid Pink	Off	Flash Red
Trigger	Data Transfer Pipeline Open, Transfer Active	Data Transfer Pipeline Open, Idle	Data Transfer Pipeline Closed / not connected	Error

Table 6. Vector 8 Dock transfer LED behaviour.

	WiFi LED			
Function	WiFi Connection Status			
LED Behaviour	Breathe Yellow	Solid Yellow	Off	Flash Red
Trigger	WiFi Searching	WiFi Connected	WiFi Off/Disabled	Error

Table 7. Vector 8 Dock WiFi LED behaviour.

	Bluetooth LED			
Function	BLE Connection Status			
LED Behaviour	Breathe Blue	Solid Blue	Off	Flash Red
Trigger	BLE Searching	BLE Connected	BLE Off/Disabled	Error

Table 8. Vector 8 Dock Bluetooth LED behaviour.

4. VECTOR 8 RECEIVER

The Vector 8 Receiver has the following features and components:

- WBT Antenna (center frequency 6489.6 MHz)
- IPX5 rating
- RJ45 port
- USB-C port
- SDI port
- Bluetooth connectivity
- WiFi connectivity (2.4 GHz, 5.2/5.3 GHz, 5.8 GHz)

Figure 5. Vector 8 Receiver.

The water-resistant wireless Vector 8 Receiver communicates with Vector devices for professional sports player data capture in a ~250 m range by using wbt communication (6.5GHz). The wbt provides robust communication between devices and receiver(s) and improves immunity to third party environmental interference. Users have the option to add multiple Vector 8 Relays to the same system to further improve live data capture capabilities. Player data can be streamed live to the cloud using in-built Wi-Fi, which also supports remote configuration, diagnosis and firmware update. Inbuilt Bluetooth connectivity allows for first time setup and configuration via the Catapult Vector App.

The Vector 8 Receiver should be operated by mounting it on a tripod, which improves portability and allows it to be placed in the most optimal position.

5. VECTOR 8 RELAY

The Vector 8 Relay has the following features and components:

- UWB Antenna (center frequency 6489.6 MHz / 7987.2 MHz)
- Magnetic strap mounting
- IPX5 rating
- USB-C port
- Bluetooth connectivity

Figure 6. Vector 8 Relay.

The ultra-portable Vector 8 Relay increases UWB coverage where required, with fast/flexible mounting options. The Vector 8 Relay's pocket sized design and light weight makes it extremely portable. The magnetic mounting strap allows for quick mounting and adjustments with its velcro strap and magnetic socket, placement is easy. The Vector 8 Relay's USB-C port allows for charging from most suitable USB-C charging solutions.

LED and Button Layout

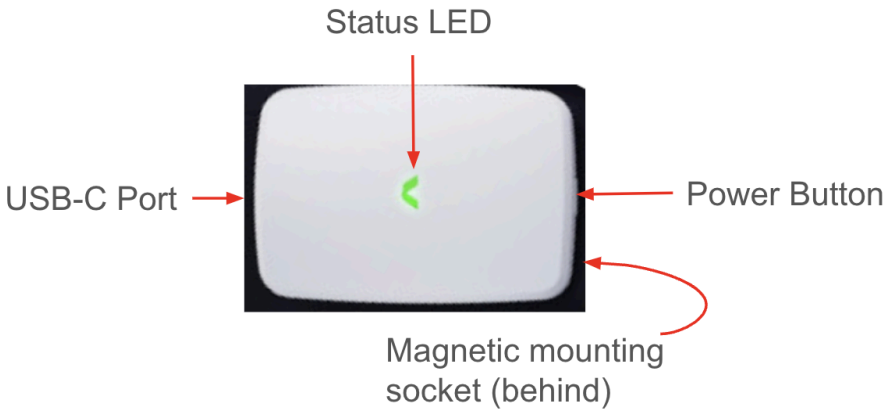


Figure 7. Vector 8 Relay LED and button layout.

LED Behaviour

The Vector 8 Relay uses a single LED to communicate a number of key functions to the user.

Function	Relay is Powering On
Colour	White
Pattern	Breathe
Pre-Condition	Relay is Off
Trigger	Power Button is short pressed (less than 5 seconds)

Table 9. Vector 8 Relay LED behaviour when powering on.

Function	Relay is Powering Off
Colour	White
Pattern	Breathe
Pre-Condition	Relay is On
Trigger	Power Button is short pressed (less than 5 seconds)

Table 10. Vector 8 Relay LED behaviour when powering off.

Function	Relay is connected to the Vector 8 Receiver and ready to use
Colour	Green
Pattern	Solid
Pre-Condition	Relay is On
Trigger	Power Button is short pressed (less than 5 seconds)

Table 11. Vector 8 Relay LED behaviour when connected to a Receiver.

Function	Relay is connected to the Receiver and advising you on optimal placement range		
Colour	Green	Yellow	Red
Pattern	Solid		
Pre-Condition	Relay is in Rangefinder mode - triggered via double button press (2 within 2 seconds)		
Trigger	RSSI value is ‘good’	RSSI value is ‘average’	RSSI value is ‘bad’

Table 12. Vector 8 Relay LED behaviour when positioning.

Function	Relay is Updating something - do not use
Colour	Rainbow

Pattern	Flash
Pre-Condition	Relay is On
Trigger	Firmware of Configuration update is sent to Relay via UWB via Receiver

Table 13. Vector 8 Relay LED behaviour when updating.

Function	Relay is advertising via BLE and ready for provisioning
Colour	Blue
Pattern	Breathe
Pre-Condition	Relays has not been provisioned (i.e. absence of user account data)
Trigger	Firmware of Configuration update is sent to Relay via UWB via Receiver

Table 14. Vector 8 Relay LED behaviour when advertising.

6. VECTOR 8 STADIUM RELAY

The Vector 8 Stadium Relay has the following features and components:

- WBT Antenna (center frequency 6489.6 MHz)
- IPX5 rating
- RJ45 port
- DC input

Figure 8. Vector 8 Stadium Relay.

The Vector 8 Stadium Relay is used to establish infrastructure in-stadium environments. The water-resistant wireless receiver communicates with Vector devices for professional sports player data capture in a ~250 m range by using WBT communication (6.5GHz). The WBT provides robust communication between devices and Relay(s) and improves immunity to third party environmental interference. Users have the option to add multiple Stadium Relays to the same system to improve live data capture capabilities.

At the start of a training session or game, the Vector 8 Stadium Relays are placed in pre-installed mounting brackets, on top of tripods or can be handheld. If mounting brackets are used, they must be installed by Catapult installation technicians. At the end of the training session or game, the PoE cables are removed, the Vector 8 Stadium Relays turned off and then they are removed from the mounting brackets or tripods and stored for later use. The Vector 8 Stadium Relays are portable in nature and can easily be moved, held, and re-positioned.

7. SUPPORT & HELP

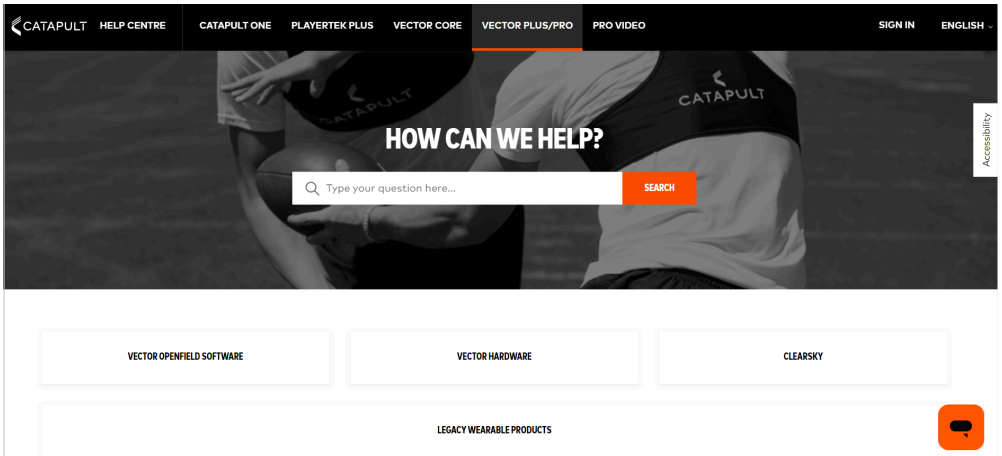
Any questions or requests for help with the Vector devices or the OpenField software system can either be submitted by email or via the help centre.

Email Support

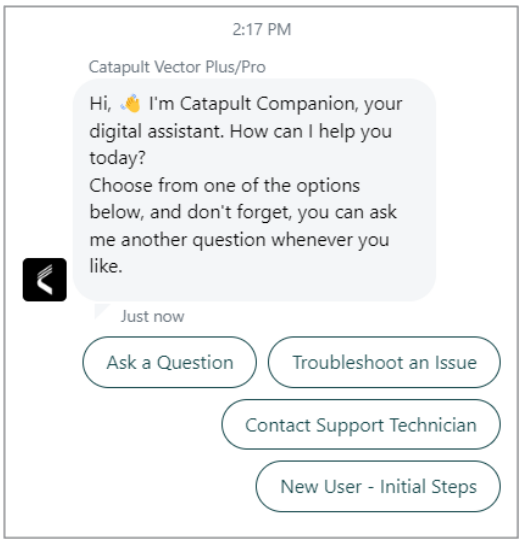
Contact us via email at: support@catapultsports.com

Help Center Support

1. Navigate to the Help Centre by going to https://support.catapultsports.com/hc
2. Click the digital assistant at the bottom right of the homepage.



3. It is often quickest to find a solution by troubleshooting it first. Simply select "Troubleshoot an Issue" and follow the instructions in the chat.



4. If you still need assistance from our Support team select "Contact Support Technician" or just type 'talk to support' at any point throughout the chat.
5. Once you submit your request, one of our Support Agents will be in contact with you as soon as possible.

8. REGULATORY NOTICES

Vector S8 Wearable Device - WD-S8-08-V1

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/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.

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.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and must not be co-located or operating in conjunction with any other antenna or transmitter.
For body worn operation, this device has been tested and meets FCC RF exposure guidelines. When used with an accessory that contains metal may not ensure compliance with FCC RF exposure guidelines.

Operation on board an aircraft or a satellite is prohibited. Devices operating under this section may not be employed for the operation of toys.

Vector S8 Receiver - RE-V8-VR-V1-2

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/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.

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.

FCC Radiation Exposure Statement:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and must not be co-located or operating in conjunction with any other antenna or transmitter.
This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

Operation on board an aircraft or a satellite is prohibited. Devices operating under this section may not be employed for the operation of toys. Except for operation onboard a ship or a terrestrial transportation vehicle, the use of a fixed outdoor infrastructure is

prohibited. A fixed infrastructure includes antennas mounted on outdoor structures, e.g., antennas mounted on the outside of a building or on a telephone pole.

Vector S8 Stadium Relay - RE-V8-SR-V1-2

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/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.

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.

FCC Radiation Exposure Statement:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and must not be co-located or operating in conjunction with any other antenna or transmitter.
This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

Operation on board an aircraft or a satellite is prohibited. Devices operating under this

section may not be employed for the operation of toys. Except for operation onboard a ship or a terrestrial transportation vehicle, the use of a fixed outdoor infrastructure is prohibited. A fixed infrastructure includes antennas mounted on outdoor structures, e.g., antennas mounted on the outside of a building or on a telephone pole.

Vector 8 Relay - RE-V8-RL-V1

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/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.

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.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and must not be co-located or operating in conjunction with any other antenna or transmitter.
For body worn operation, this device has been tested and meets FCC RF exposure guidelines. When used with an accessory that contains metal may not ensure compliance with FCC RF exposure guidelines.

Operation on board an aircraft or a satellite is prohibited. Devices operating under this section may not be employed for the operation of toys.

Vector 8 Dock - DO-V8-VD-V1

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/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.

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.

Canada

CAN ICES-3 (B)/NMB-3(B)

This device complies with Industry Canada's license-exempt RSSs. 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.

Important Note:
Radiation Exposure Statement (Vector S8)
For body worn operation, this device has been tested and meets RF exposure guidelines when used with an accessory that contains no metal. Use of other accessories may not ensure compliance with RF exposure guidelines.

Déclaration d'exposition aux radiations RF:
Pour une utilisation sur le corps, cet appareil a été testé et respecte les directives sur l'exposition aux RF lorsqu'il est utilisé avec un accessoire sans métal. L'utilisation d'autres accessoires peut ne pas garantir la conformité aux directives d'exposition aux RF.

Radiation Exposure Statement (Vector 8 Receiver, Relay and Stadium Relay)

1. To comply with the Canadian RF exposure compliance requirements, this device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.
2. To comply with RSS 102 RF exposure compliance requirements, a separation distance of at least 20 cm must be maintained between the antenna of this device and all persons.

Déclaration d'exposition aux radiations RF:

1. *Pour se conformer aux exigences de conformité RF canadienne l'exposition, cet appareil et son antenne ne doivent pas être co-localisés ou fonctionnant en conjonction avec une autre antenne ou transmetteur.*
2. *Pour se conformer aux exigences de conformité CNR 102 RF exposition, une distance de séparation d'au moins 20 cm doit être maintenue entre l'antenne de cet appareil et toutes les personnes*

Stadium Relay
The use of a fixed outdoor infrastructure is prohibited. A fixed infrastructure includes antennas mounted on outdoor structures, e.g., antennas mounted on the outside of a building or on a telephone pole.

"L'utilisation d'une infrastructure extérieure fixe est interdite. Une infrastructure fixe comprend des antennes montées sur des structures extérieures, par exemple des antennes installées à l'extérieur d'un bâtiment ou sur un poteau téléphonique."

CE

For all compliance enquiries - please address all correspondence to:
Catapult Support
34 Boar Lane, Leeds LS1 5DA, UK

Declaration of Maximum Output Power

S8 Vector Wearable Device - WD-S8-08-V1		
Technology	**Frequency / BW**	**Max Output Power**
UWB	6.5GHz / 500MHz	58.68dBµV/m
UWB	8GHz / 500MHz	60.88dBµV/m
BTLE	2404MHz-2480MHz / 2MHz	+6dBm
Vector S8 Receiver - RE-V8-VR-V1-1		
Technology	**Frequency / BW**	**Max Output Power**
WBT	6.5GHz / 500MHz	TBD
BTLE	2404MHz-2480MHz / 2MHz	TBD
WIFI	2.4GHz, 5GHz / 80MHz	TBD
Vector 8 Relay - RE-V8-RL-V1		
Technology	**Frequency / BW**	**Max Output Power**
UWB	6.5GHz / 500MHz	TBD
UWB	8GHz / 500MHz	TBD
BTLE	2404MHz-2480MHz / 2MHz	TBD

Vector S8 Stadium Relay - RE-V8-SR-V1-1		
Technology	**Frequency / BW**	**Max Output Power**
WBT	6.5GHz / 500MHz	59.85dBµV/m