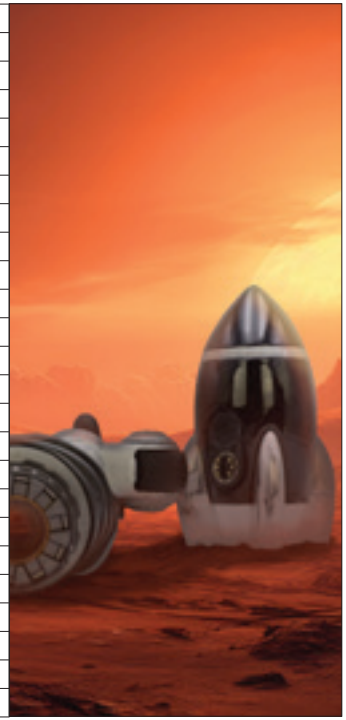
MyoRocket®

Instructions for Use

REBEL

Powered by AM Healthcare Group

1.0 Table of Contents



2.0 Getting Started

Thank you for choosing the MyoRocket® by Rebel Bionics. This Instructions for Use (IFU) document is designed to guide you through the safe and effective use of your MyoRocket device.

The MyoRocket® is a revolutionary tool for assessing myoelectric signals during the early stages of prosthetic fitting. Before using the device, please read this document thoroughly. It contains essential safety information, setup instructions, and maintenance guidelines.

The device should be used under the supervision of a trained clinician or technician. Keep this document for future reference and ensure your device's serial number is recorded for support and warranty purposes.

3.0 Safety Precautions

3.1 Indications of Use

The MyoRocket® is intended for individuals with upper-limb differences who are exploring myoelectric prosthetic options. It enables users to test and evaluate their muscle signals before committing to a full prosthetic fitting. This early-stage assessment helps clinicians and users determine signal strength, consistency, and suitability for myoelectric control, leading to a more personalized and successful prosthetic experience.

3.2 Contraindications

- Do NOT use the MyoRocket® if the user is unable to follow safety instructions.
- Do NOT use if the user has open wounds or severe skin conditions at the electrode site.
- Do NOT use near flammable gases or liquids.
- Do NOT operate the device while charging.
- Do NOT use if the device or cables are visibly damaged.
- Avoid using the device near strong electromagnetic fields, such as MRI machines or theft prevention systems.
- If the device exhibits unexpected behaviour or damage, discontinue use and contact support immediately.
- Residual risks such as signal interference, incorrect electrode placement, or reduced performance due to environmental exposure are mitigated through design and training but may still occur. Users should report any unexpected behaviour to their clinician or Rebel Bionics support.

3.3 Conditions of Use

The MyoRocket® is designed for clinical environments where users can safely test their myoelectric signals. It must be used with compatible digital or analogue electrodes and should be operated within the environmental and electrical specifications outlined in this document. The device is water-resistant but not waterproof, and it should not be exposed to extreme temperatures or high-impact activities. If a serious incident occurs while using the MyoRocket®, users must report it to Rebel Bionics and the relevant national competent authority.

3.4 Clinical Benefits

The MyoRocket® provides a critical step in the prosthetic journey by allowing users to visualize and understand their muscle signals before being fitted with a prosthesis. This insight helps clinicians tailor prosthetic solutions to individual needs, improving long-term outcomes. The device supports dual-channel signal testing, gain adjustment, and app-based feedback, making it a powerful tool for optimizing prosthetic compatibility and user confidence.

4.0 Environmental Exposure

The MyoRocket® should be stored and operated in environments with a maximum humidity of 80%, non-condensing. The recommended temperature range for use and storage is between -20°C and +38.9°C (-4°F to +140°F). The device should not be exposed to direct sunlight, freezing conditions, or high humidity for extended periods. Pressure range tolerance is between 700–1060 hPA.

5.0 Electrical Safety

Only use the MyoRocket® with approved power sources and cables. The device features a USB-C charging port and should not be operated while charging. If any part of the power system is visibly damaged, discontinue use immediately.

The MyoRocket® contains sensitive electronic components that may be affected by electrostatic discharge (ESD) or radio frequency interference. Avoid using the MyoRocket® near strong electromagnetic sources such as mobile phones, Wi-Fi routers, or MRI machines, as these may interfere with signal acquisition or device performance.

6.0 Physical Limitations

The MyoRocket® is not designed for high-impact or strenuous physical activity. It should be used in a stable environment where the user can remain seated or stationary during signal testing. Any signs of overheating, unusual noises, or performance issues should prompt immediate removal and inspection by a technician.

7.0 Maintenance

Maintenance of the MyoRocket® should only be performed by authorized service personnel. Users should not attempt to open, modify, or repair the device. Damage caused by misuse or unauthorized repairs will void the warranty.

The MyoRocket® is reusable and should be inspected regularly for signs of wear or damage. Only authorized personnel may perform repairs or reconditioning to ensure continued compliance with safety standards.

8.0 Training

Initial use of the MyoRocket® should be accompanied by professional guidance. Clinicians should instruct users on proper electrode placement, signal testing, and gain adjustment. The device includes advanced features such as Boost Mode and dual-channel signal visualization, which require proper understanding to avoid misinterpretation or misuse.

9.0 Cleaning

Wipe the MyoRocket® with a soft cloth and hot soapy water. Do not use solvents, alcohol, or abrasive materials. Ensure the system is powered off before cleaning.

10.0 Storage

Store the MyoRocket® in a cool, dry place within the recommended environmental limits. Use the original packaging for protection during transport. Avoid prolonged exposure to sunlight, moisture, or extreme temperatures.

11.0 MyoRocket® System

11.1 What's Included?

There are three kit options when it comes to the MyoRocket®:

	RBROCK1 –		
	**Part Number**	**Description**	**Quantity**
	B10-A024	MyoRocket®	1
	B10-0061	5v Power Supply with UK, US, EU & AUS Adapters	1
	RBROCK2 –		
	**Part Number**	**Description**	**Quantity**
	B10-A037	MyoStrap	1
	B13-0159	Rebel electrode retainer	2
	B13-0160	Ottobock electrode retainer	2

11.1 What's Included?

There are three kit options when it comes to the MyoRocket:

RBROCK3 –		
Part Number	**Description**	**Quantity**
B10-A024	MyoRocket®	1
B10-0061	5v Power Supply with UK, US, EU & AUS adapters	1
B10-A037	MyoStrap	1
B13-0159	Rebel electrode retainer	2
B13-0160	Ottobock electrode retainer	2
B13-A005	4-way cable	1
B13-A004	Digital Electrodes	2
B13-A008	IDC Connector	2

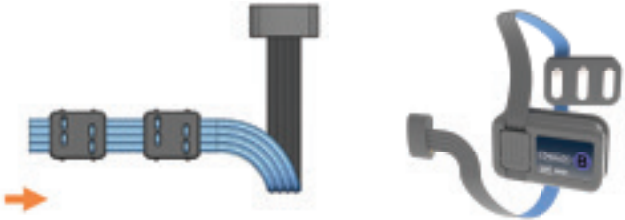
12.0 Electrode Integration – Fitting the MyoStrap

The MyoRocket® supports both digital and analogue electrodes. Digital electrodes connect via a 4-way IDC connector, while analogue electrodes use 3-way connectors.

Proper orientation and secure connection are essential for accurate signal detection. Electrode placement should follow the perforation guide on the Myo strap, and cables should be routed as shown in the setup guide.

12.1 Digital Electrodes

STEP 1



Take the digital cable and slide the two IDC connectors onto the cable.
Ensure the side with the four holes faces the blue side of the cable.

12.1 Digital Electrodes

STEP 2

Push the 4-way connector onto the daggers of the IDC connector. You will need to ensure this is firmly connected. **PLEASE TAKE CAUTION WHEN LIFTING THE IDC CONNECTOR AWAY. GENTLY PRY THE CAP AWAY USING A PLASTIC TOOL.**

STEP 3

Place the electrodes in the required position as provided by the perforations on the strap. The numbers and letters are to give you a guide on where each electrode is placed.

STEP 4

Ensure the buckle is attached correctly to the strap. Position your arm in between the electrode sites and push the button clasps into a perforated hole on the band to secure. Adjust the tightness on your arm as required.

STEP 5

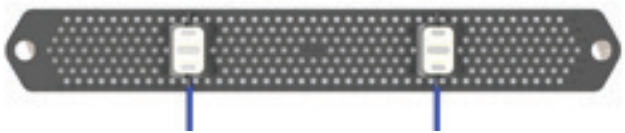
Connect the 4-way cable to the port on the MyoRocket® as shown. Ensure the connection is secure before proceeding.

12.2 Analogue Electrodes

STEP 1

NOTE: For analogue electrodes you will need 2 x 3-way cable instead of 4-way. Contact Rebel Bionics about this.
Route the 3-way cable through the retainer and ensure the cut out on the retainer is aligned with the cable. Push the electrode into the retainer. Repeat this for both electrodes.

STEP 2



Place the electrodes in the required position as provided by the perforations on the strap. The numbers and letters are to give you a guide to where each electrode is placed. Position the 3-way cable so they are facing towards the distal end of the forearm.

STEP 3

Ensure the buckle is attached correctly to the strap. Position your arm in between the electrode sites and push the button clasps into a perforated hole on the band to secure. Adjust the tightness on your arm as required.

STEP 4

Connect the 2 x 3-way cables to the ports on the MyoRocket® as shown. Ensure the connection is secure before proceeding.
NOTE: You will not require the use of the DAC when connecting analogue electrodes.

12.3 Socket Connection

COAXIAL CORE
6-way connection

The MyoRocket® can be locked into sockets with standard lamination ring and 6-pin connection.

13.0 Use

13.1 Socket Connection

When the electrodes are connected to the MyoRocket® via the 4-way cable, long hold the black button. 6 x purple lights will illuminate clockwise and then go blank on the charge port and the DAC.	

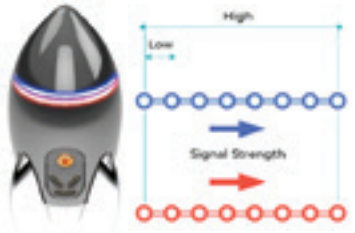
13.2 Proper Electrode Connection

If the electrodes are connected properly, you will see two green lights on the DAC. If a channel has a connection issue, the DAC will return a single red light signifying which electrode has the issue. If you see a red light, check the connections and ensure that the pins aren't bent.	

13.3 Electrode Signals

With your digital electrodes connected, when you activate on your sites, you will see the LED array on the MyoRocket increase. There's a total of 8 LED's that illuminate for **Channel A** and **Channel B**.

The aim is to control either **Channel A** or **Channel B** independently of one another. By achieving signal separation and clean signals on each channel, you will be able to easily control your terminal device.



13.4 Change the electrode gain sensitivity settings

If when the electrodes are connected, you notice that one of the signals is barely registering / registering too strong you can adjust the gain.

Press down on the orange DAC button for 3 second to enter clinical set up mode. When in the mode, you will be presented with a flashing green light.

13.4 Change the electrode gain sensitivity settings

To reduce the gain setting, use the 2.5mm hex driver and turn the orange button anti clockwise.

To increase the gain setting, use the 2.5mm hex driver and turn the orange button clockwise.

A green flashing light will show that you are in clinical set up (manual) mode.

13.5 Clinical Set Up Mode (Manual Mode)

Clinical set up mode also known as manual mode allows you to manually adjust the gain levels.

Press and hold the orange DAC button for up to 5 seconds to confirm this mode is the one you want to use.

The you will either see blue or red lights on the DAC.

Red is for electrode 1 (Channel A)
Blue is for electrode 2 (Channel B)

Quick press (less than 1.5s) to change between the electrodes

The number of lights shown on the DAC represent how sensitive the gain is.
The more lights shown, the higher the gain is set meaning that any signals you send will be amplified.
There are six segments and per each segment there are 4 levels. There are 24 gain levels total

- If a segment is blank, it means the gain is set at 0%
- If a segment has a slow flash, it means the gain is set at 33%
- If the segment has a fast flash, it means the gain is set at 66%
- If the segment has a solid light, it means the gain is set at 100%

13.5 Clinical Set Up Mode (Manual Mode)

To reduce the gain setting, use the 2.5mm hex driver and turn the orange button anti clockwise.

To increase the gain setting, use the 2.5mm hex driver and turn the orange button clockwise.

When you have set your gain level and you want to confirm the selection, hold the orange button down with the 2.5mm hex driver for up to 4 seconds.

You will see the purple clockwise illumination when successfully selected

13.6 Automatic Gain Mode

To select automatic gain mode, long press the orange button on the DAC to enter clinical adjustment mode.	
A green flashing light will show that you are in clinical set up (manual) mode.	

13.6 Clinical Set Up Mode (Manual Mode)

Press the orange button to switch to automatic mode. 2 amber flashing lights means you are in automatic mode.	
Send a weak signal via the electrodes to signify resting for one second then quick press the orange button to move to the next site. **NOTE: The aim is to ensure the DAC LED indication is as low as possible.**	

13.6 Clinical Set Up Mode (Manual Mode)

Now send a strong signal via the electrodes. Hold for a few seconds. Press the orange button to move to the next step. NOTE: The aim is to ensure the DAC LED rings are fully indicated at this signal.	
Hold the orange button for longer than 3 seconds to confirm the electrode one settings Repeat this for electrode two.	

13.6 Clinical Set Up Mode (Manual Mode)

Once selected, you can see each electrode channel signal via the blue and red LED's	

13.7 Co-contraction

A purple LED shows co-contraction. If the purple LED is on the red side, it shows that the co-contraction is on electrode one. If it shows on the blue side, co-contraction is on electrode two.	

13.7 Co-contraction

Once satisfied with the gain selections for both electrodes, press the orange button for longer than three seconds to confirm.

If not happy, do a quick press of the orange button to re-enter the correct gain adjustment mode (automatic or manual).

The DAC will display six purple LED lights to signify that the process is complete.

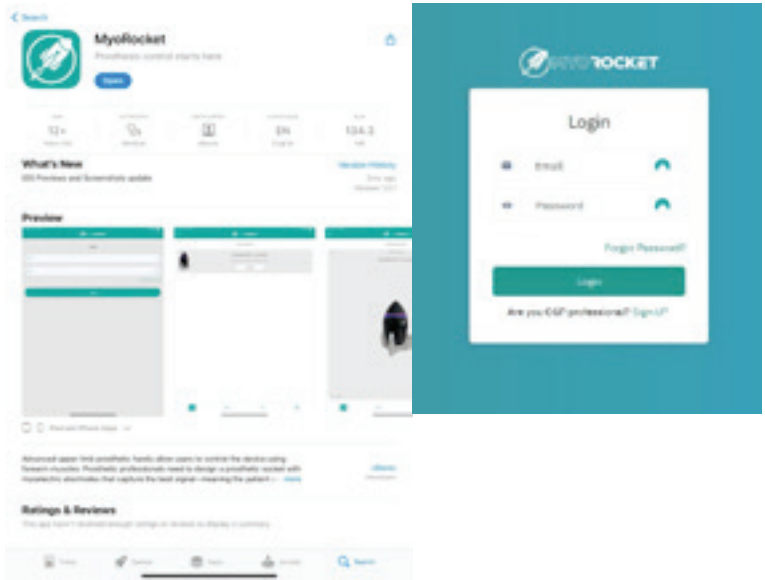
13.8 Activating Boost Mode

This mode is selectable by the user and gives a +25% boost to manually selected levels. This is to aid with user fatigue.

14.0 MyoRocket® App

Connect to the MyoRocket® app which is now available on the App Store. You will need to register an account and the best way to do this is to visit the myorocket website www.myorocket.com.

The MyoRocket® app requires a secure login and is designed to operate on iOS devices with minimum OS version 14.0. Users should ensure their device is updated and protected against unauthorized access.

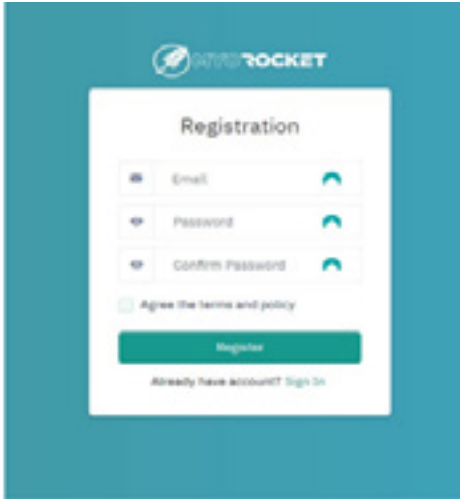


14.1 Registration

Registration is a very simple process. Once registered, you will shortly receive an email. You may need to check your junk or spam folder.

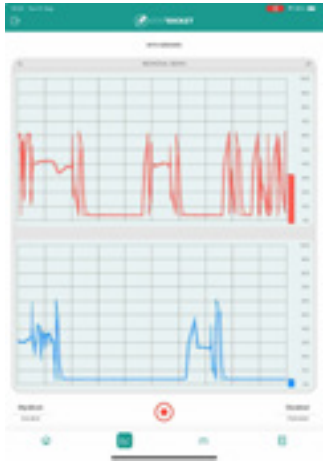
Users are required to create secure login credentials to protect their account and personal information.

- Enter a valid email address
- Set a secure password
- Confirm the secure password
- Agree to the terms and policy
- Click register



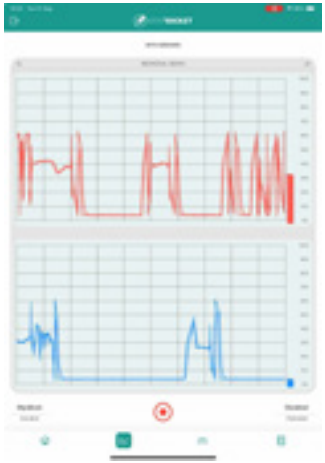
14.2 Connection

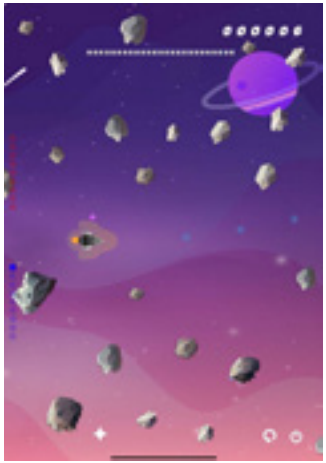
Once logged in and with your MyoRocket® Powered on, you should see your device visibly connected on the interface.



14.3 Expolring the App

You can view your dual site signals and play games to test your signal control.





15.0 Compatibility

The Rebel Bionics MyoRocket® supports both analogue and digital electrode inputs, allowing for flexible integration into a variety of clinical and research environments. This dual compatibility ensures that practitioners can use the device with existing setups or transition between technologies without needing additional hardware.

16.0 Disposal

The MyoRocket® device and its accessories must be disposed of in accordance with local electronic waste regulations. Do not discard the device with household waste or attempt to incinerate it. Components such as cables, electrodes, and batteries should be taken to certified recycling facilities.

If any parts are contaminated, follow clinical waste disposal protocols. Please follow your local regulations for electronic waste and battery disposal. If you're unsure how to dispose of the device safely, contact your clinician or local waste authority for guidance.

17.0 Symbols used

Symbol	Title	Description	Standard	Ref. No. of symbol
	Manufacturer	Indicates the medical device manufacturer	ISO 15223-1	5.5.1
	Consult instructions for use	Indicates the need for the user to consult the instructions for use.	ISO 15223-1	5.4.3
	Keep Dry	Indicates medical device kept away from moisture	ISO 15223-1	5.3.4
	Temperature Limit	Indicates temperature the medical device can be exposed	ISO 15223-1	5.3.7
	Humidity limitation	Indicates the range of humidity to which the medical device can be safely exposed.	ISO 15223-1	5.3.8

Symbol	Title	Description	Standard	Ref. No. of symbol
	Type BF applied part	Indicates an electrical medical device that complies as Type B	IEC 60601-1 IEC 60601-1 IEC 60878 ISO 9687:2015	5334
	Caution: Federal (USA) law restricts this device to sale by or on the order of a physician	Device is prescription use only by a designated healthcare professional	None; this is symbol generated by the company	21 CFR 801
	Caution	Indicates the need for the user to consult the instructions for use for important cautionary information such as warnings and precautions that cannot, for a variety of reasons, be presented on the medical device itself.	ISO 15223-1	5.4.4
		This product contains electrical and electronic components that may contain materials which, if disposed of with general waste, could be damaging to the environment. Residents of the European Union must follow specific disposal or recycling instructions for this product. Residents outside of the European Union must dispose of or recycle this product in accordance with local laws or regulations that apply.	IS EN 50419	Fig. 1

17.0 Symbols used

Symbol	Title	Description	Standard	Ref. No. of symbol
	Bluetooth®	Bluetooth® wireless or enabled technology	Trademarks of Bluetooth Special Interest Group (SIG)	N/A
	Follow instructions for use	Refer to instruction manual/ booklet	IEC TR 60878	N/A
	Ingress Protection Level	Protection against solid foreign objects of 12.5 mm diameter and greater, and protection against vertically falling water drops when tilted up to 15 degrees.	IEC 60601-1	Table D.3, Symbol 2
	FCC Part 15	Electromagnetic interference from the device is under limits approved by the Federal Communications Commission.	Federal Communications Commission	N/A
	Complies with Australian Radio communications requirements.	Complies with Australian Radio communications requirements.	AS/NZS 4417.1	N/A
	CE Mark	For European Compliance	93/42/EEC Medical Devices Directive	Annex XXII
	Recycling	Battery is recyclable - follow local recycling & reclaiming procedures	ISO 7000	1135

Symbol	Title	Description	Standard	Ref. No. of symbol
	China RoHS Mark	China RoHS Mark I logo. Product does not contain toxic and hazardous sub-stances or elements above the clip level in any material or application including those exempt from the requirements of the EU RoHS Directive.	SJ/T11364-2006	N/A
	Recycling under the Waste Disposal Act	Subject to recycling under the Waste Disposal Act.	Environmental Protection Administration, R.O.C. (Taiwan)	N/A
	Serial Number	Indicates a unique identifier used for identification and traceability purposes	ISO 7000 / IEC 60417	N/A
	Medical Device	Indicates the product is a medical device	ISO 15223-1	N/A
	Unique Device Identifier	A unique numeric code that identifies the labeler and the specific version of the device.	ISO 15223-1:2021	N/A
	European Union Representative	Indicates the authorized representative in the European Community/European Union.	ISO 15223-1:2016 Reference no 5.1.2	N/A
	Non Sterile	Indicates a medical device that has not been subjected to a sterilization process.	ISO 15223- 1:2016 Reference no. 5.2.7. (ISO 7000-2609)	N/A
	Single Patient - Multiple use	To indicate that the medical device may be used multiple times (multiple procedures) on a single patient	ISO/DIS 15223-1:2020(E) Ref no. 5.4.12. (ISO 7000-3706)	N/A

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.

Your notes:

Version 1.0

July 2025

REBEL

Powered by AM Healthcare Group

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