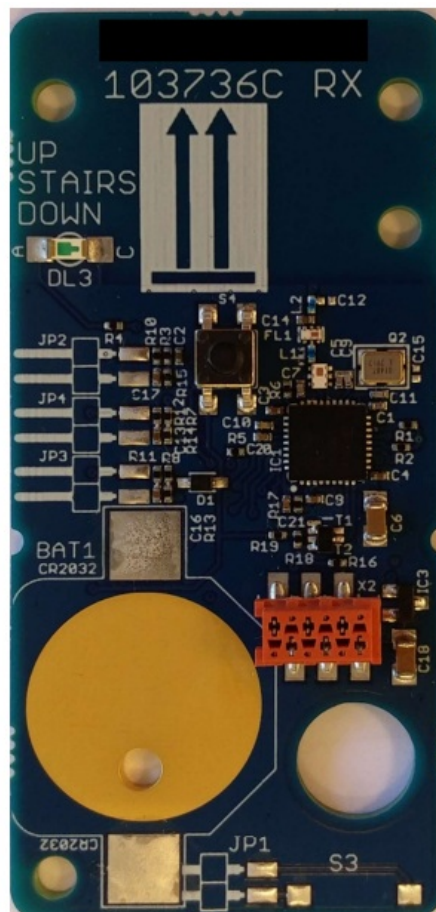


DHG Module1 Installation Guide

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Installation Manual Module1

US-version 2.2

DHG

Withey Court, Western Industrial Estate, Caerphilly, United Kingdom, CF83 1BF

T: +44 (0) 800 043 0881

F: +44 (0) 845 459 9832

info@directhealthcaregroup.com

Company Number: 05252571

VAT Registration Number: 241 6574 10

www.dhg-healthcare.com

Foreword

The MODULE1 is a generic radio receiver module for integration into various DHG products. The MODULE1 provides access to remote operation of the end products after installation. The installation of MODULE1 will per default be a factory installation. Post installation at the customer performed by DHG product service is not an option due to regulatory rules.



It is important to read this manual before installing the "MODULE1".

This is an original user manual for the "MODULE1".

Usage:

The MODULE1 is intended for integration into DHG products, e.g., Raizer II. After integration the Raizer II the MODULE1 can be operated by a DHG remote control. The personal lift e.g., Raizer II operation is a so-called "dead man operated" lift, i.e., the buttons of the associated remote control must be pressed and held during the entire motion. Also called "Hold to run operated". This feature is implemented for safety reasons.

Declaration

Corporate Office:

Direct Healthcare Group Ltd.

Withey Court, Western Industrial

Estate, Caerphilly, United Kingdom, CF83 1BF

Phone: T: +44 (0) 800 043 0881

www.dhg-healthcare.com

Manufacture: Direct Healthcare Group Ltd.
Withey Court, Western Industrial Estate, Caerphilly, United Kingdom
CF83 1BF Phone: T: +44 (0) 800 043 0881
www.dhg-healthcare.com

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All other trademarks are the property of their respective owners.

Release Notice

This document is release 2.2 of the MODULE1 User Installation Manual.

End product statements

The final end product e.g., Raizer must provide the following claims in the user manual for the product according to the regulatory rules specified for EU, US, Canada and Australia:

The following Product Limited Warranty gives Resellers specific legal rights. You may have others, which vary from state/jurisdiction to state/jurisdiction

Product Limited Warranty

Subject to the terms and conditions set forth herein, DHG LTD. ("DHG") makes the following warranty only to its Resellers who purchase the MODULE1 hardware product ("Product") directly from DHG: for a period of one (1) year from the date of shipment from DHG, the Product will substantially conform to DHG's standard published specifications for the Product and the Product hardware will be substantially free from defects in materials and workmanship. The foregoing warranty shall not apply to embedded software/firmware components.

THIS PRODUCT LIMITED WARRANTY IS PROVIDED TO RESELLERS AND TO RESELLERS ONLY. RESELLER IS SOLELY RESPONSIBLE FOR ANY AND ALL WARRANTIES MADE TO ITS CUSTOMERS, AND DHG MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND SHALL HAVE NO OBLIGATIONS OR LIABILITY TO RESELLER'S CUSTOMERS OR END- USERS OF THE PRODUCT. RESELLER SHALL NOT MAKE ANY REPRESENTATIONS OR WARRANTIES ON DHG'S BEHALF, AND SHALL FULLY INDEMNIFY, DEFEND AND HOLD DHG HARMLESS FROM ANY BREACH OF THE FOREGOING. IF RESELLER DISTRIBUTES PRODUCT TO ENDUSER CUSTOMERS, RESELLER SHALL BE SOLELY RESPONSIBLE FOR PREPARING AND PROVIDING PRODUCT WARRANTIES AND PRODUCT LITERATURE TO END-USERS.

Warranty Remedies

If the Product fails during the warranty period for reasons covered by this Product Limited Warranty and Reseller notifies DHG of such failure during the warranty period, DHG at its option will repair OR replace the nonconforming Product OR refund the purchase price paid by Reseller for the Product, provided that Reseller returns the Product to DHG in accordance with DHG's standard return material authorization procedures or as otherwise instructed by DHG.

Warranty Exclusions and Disclaimers

The foregoing Product Limited Warranty shall only apply in the event and to the extent that (i) the Product is properly and correctly installed, configured, interfaced, maintained, stored and operated in accordance with DHG's specifications, and (ii) the Product is not modified or misused. This Product Limited Warranty shall not apply to, and DHG shall not be responsible for, defects or performance problems resulting from: (a) the combination or utilization of the Product with hardware or software products, information, data, systems, interfaces, services or devices not made, supplied or specified by DHG; (b) the operation of the Product under any specifications other than, or in addition to, DHG's standard published specifications for the Product; (c) the unauthorized installation, modification or use of the Product; (d) damage caused by: accident, lightning or other electrical discharge, water immersion or spray, or exposure to environmental conditions for which the Product is not intended; or (e) normal wear and tear on consumable parts, including by way of example and without limitation, batteries.

DHG DOES NOT WARRANT OR GUARANTEE THE RESULTS OBTAINED THROUGH THE USE OF THE

PRODUCT. THE FOREGOING TERMS OF THE PRODUCT LIMITED WARRANTY STATE DHG'S ENTIRE LIABILITY, AND RESELLER'S EXCLUSIVE REMEDIES, RELATING TO THE USE AND PERFORMANCE OF THE PRODUCT EXCEPT AS OTHERWISE EXPRESSLY PROVIDED FOR IN THIS PRODUCT LIMITED WARRANTY, THE PRODUCT, ACCOMPANYING DOCUMENTATION AND MATERIALS, AND/OR ANY EMBEDDED SOFTWARE/FIRMWARE AND UPDATES THERETO ARE PROVIDED "AS-IS"

AND WITHOUT EXPRESS OR IMPLIED WARRANTIES OF ANY KIND, BY EITHER DHG OR ANYONE WHO HAS BEEN INVOLVED IN ITS CREATION, PRODUCTION, INSTALLATION OR DISTRIBUTION, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NONINFRINGEMENT. THE STATED EXPRESS WARRANTIES ARE IN LIEU OF ALL OBLIGATIONS OR LIABILITIES ON THE PART OF DHG ARISING OUT OF, OR IN CONNECTION WITH, THE PRODUCT. WITHOUT LIMITING THE GENERALITY OF THE FOREGOING:

THE PRODUCT MAY CONTAIN TECHNOLOGY THAT IS NOT FAULT TOLERANT AND IS NOT DESIGNED, MANUFACTURED OR INTENDED FOR USE IN ENVIRONMENTS OR APPLICATIONS IN WHICH THE FAILURE OF THE PRODUCT WOULD LEAD TO DEATH, PERSONAL INJURY OR SEVERE PHYSICAL OR ENVIRONMENTAL DAMAGE OR SEVERE FINANCIAL LOSS. ANY USE OR DISTRIBUTION BY RESELLER OR ITS CUSTOMERS IN CONNECTION WITH ANY SUCH ENVIRONMENT OR APPLICATION SHALL BE AT RESELLER'S AND ITS CUSTOMERS' SOLE RISK, AND DHG SHALL HAVE NO LIABILITY WHATSOEVER IN CONNECTION THEREWITH. RESELLER SHALL INDEMNIFY AND HOLD DHG AND ITS SUPPLIERS HARMLESS FROM ANY CLAIM BROUGHT AGAINST DHG WHICH ARISES FROM RESELLER'S USE OR DISTRIBUTION OF THE PRODUCT IN CONNECTION WITH SUCH ENVIRONMENTS OR APPLICATIONS. SOME STATES AND JURISDICTIONS DO NOT ALLOW LIMITATIONS ON DURATION OR THE EXCLUSION OF AN IMPLIED WARRANTY, SO CERTAIN OF THE ABOVE LIMITATIONS MAY NOT APPLY TO EVERY RESELLER.

Embedded Software/Firmware

The Product and associated tools, if any, may contain embedded software/firmware, which is licensed, not sold, and is only for use within the Product as an integral part thereof. Such embedded software/firmware (which includes all updates thereto) contains valuable trade secrets and is proprietary to DHG and its suppliers. To the greatest extent permitted by law, such embedded software/firmware may not be modified, copied, disassembled, decompiled or reverse engineered. DHG reserves all other rights.

Limitation of Liability

DHG'S ENTIRE LIABILITY REGARDING THE PRODUCT SHALL BE LIMITED TO THE AMOUNT ACTUALLY PAID BY RESELLER FOR THE PRODUCT. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL DHG OR ITS SUPPLIERS BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES WHATSOEVER UNDER ANY CIRCUMSTANCE OR LEGAL THEORY RELATING IN ANY WAY TO THE PRODUCTS, ACCOMPANYING DOCUMENTATION AND MATERIALS, AND ANY EMBEDDED SOFTWARE/FIRMWARE AND UPDATES THERETO (INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION, LOSS OF DATA OR ANY OTHER PECUNIARY LOSS), REGARDLESS OF WHETHER DHG HAS BEEN ADVISED OF THE POSSIBILITY OF ANY SUCH LOSS AND REGARDLESS OF THE COURSE OF DEALING BETWEEN DHG AND RESELLER. BECAUSE SOME STATES AND JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES, THE ABOVE LIMITATION MAY NOT APPLY TO EVERY RESELLER

Notices

Class B Statement Notice to Users. 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 communication. 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 the receiver.
- Consult the dealer or an experienced radio/TV technician for help.

Changes and modifications not expressly approved by the manufacturer or registrant of this equipment can void your authority to operate this equipment under Federal Communications Commission rules.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

FCC/IC

The MODULE1 product comply with the FCC Part 15.249 and the Innovation, Science and Economic Development (ISED) Canada requirements RSS-210 The MODULE1 product complies with Part 15 of the FCC rules and with ISED license exempt standard(s). 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.

The MODULE1 product is SAR test excluded according to FCC KDB 447498 D01 v06 and KDB 447498 D01 DR04-4449, RSS102 and EN 62479 at separation distances larger than 5 mm and less than 50 mm.

With respect to radiofrequency radiation exposure Information, it is declared; that this module complies with FCC radiation exposure limits set forth for an uncontrolled environment. This gives an extra margin, since the remote control normally, only is used in "controlled environment" for approx. 30 seconds when lifting, and typically only a few times a day.

The firmware setting is not accessible by the end user. The end product, must be labelled in a visible area with the following:

"This device contains:

FCC ID: 2A8IL-MODULE1

IC: 29071-MODULE1

ACMA (AUS/NZ)

The MODULE1 product complies with the Australian/New Zealand Radiocommunications Act 1992 for operation in the band 2400-2483 MHz by the RCM mark:

AS/NZS 4268.....Radio Equipment and Systems Short Range devices

AS/NZS 2772.2..... Radio Frequency Fields (mean power < 1 mW)

2.1 Regulatory Approvals

EU/International

The MODULE1 product comply with the essential requirements of the RED Directive 2014/53/EU as stated by the EU Declaration of Conformity (CE). The MODULE1 product comply with the European Telecommunications Standards Institute Specifications EN 300 440 operating in the 2.400 GHz to 2.483 GHz band for Radio Equipment and Systems

The MODULE1 complies with the essential requirements of the 2011/65/EU directive with amendment 2015/863/EU directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (ROHS 3).

Complies with the essential requirements of the EU 1907/2006 regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Complies with the requirements of the 2012/19/EU directive on waste electrical and electronic equipment and directive 2006/66/EC on batteries and accumulators and waste batteries and accumulators (WEEE).

2.2 EU Declaration of conformity

Manufacturer: Address:.....Direct Healthcare Group Ltd

Hereby declares that:..... Withey Court, Western Industrial Estate, Caerphilly, United Kingdom, CF83 1BF. T: +44 (0) 800 043 0881

MODULE1 for integration into other DHG products complies with:

RED.....2014/53/EU, Radio Equipment Directive

ROHS-Directive:..... 2011/65/EU. substances in electronic equipment

MODULE1 meets the relevant requirements notably in following standards:

Article 3.1a:

EN 62479:2010..... Human exposure

Article 3.1b:

EN 301489-1, v2.2.0.....Electromagnetic compatibility + Radio spectrum Matters

EN 301489-17, v3.2.0..... Electromagnetic compatibility + Radio spectrum Matters

Article 3.2: EN

300 440, v2.1.1.....Electromagnetic compatibility + Radio spectrum Matters

Testing and conformity assessment performed by Jens-EMC and DHG
The above products are manufactured under the following management system:



EN ISO 13485: 2016.....Quality Management System, UL Certificate No. 1646.220508

Technical specifications

3.1 Module1 Remote control

2,4GHz remote control:	Short Range devices. Receiver
Class 3 Dimensions (L x W x H)	72 x 33 x 10mm / 2,83 x 1,30 x
0,40 in. Weight:	10 g (0,035 lbs.)
Frequency's:	2,410GHz 2,435GHz and 2,460GHz
Duty cycle	< 1%
Power:	< 0,6mW
Supply:	5,6Volt 30mA
Water and dust:	N/A
Working temperature:	+5°C to +40°C / 41°F to
104°F Storage temperature: 158°F	-25°C to +70°C / 13°F to
Expected operational life:	> 5 years

Right reserved to make technical modifications

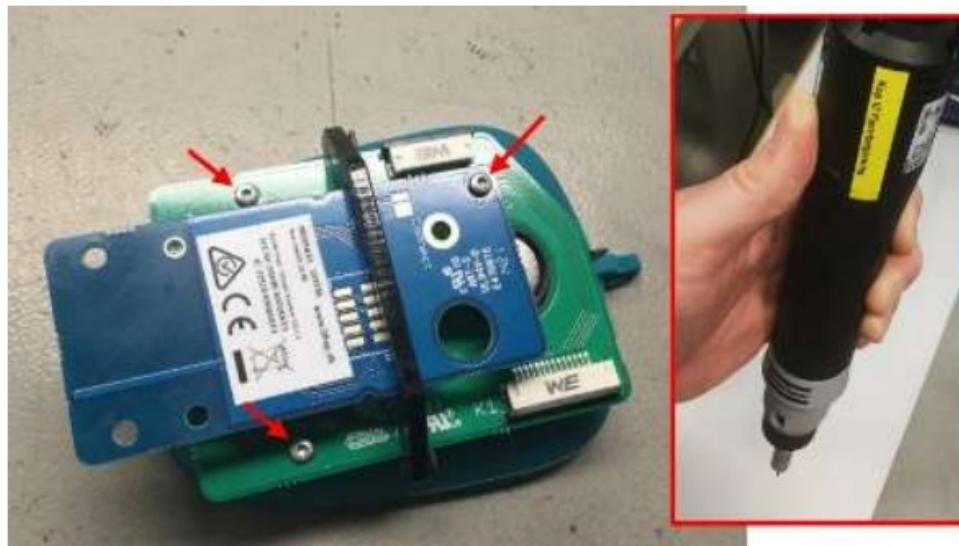
Mounting inside DHG products

For Raizer II

1. Mount MODULE1 to adapter PCB and secure with clip.



2. Secure assembly to the side pocket using screws.



3. Connect signal ribbon to adapter PCB.



4. Position assembly in side cut-out of lower case



4.1 Pairing of remote control

Pairing of the associated remote control is normally done by the dealer or the factory. Consult the end product user manual for detailed pairing instructions.

Disposal

It is the duty of the owner to dispose of the MODULE1 in relation to the dispose of the lift product in accordance with the regulations applicable at the time. When disposing of this device, ensure compliance with local ordinances and regulations.

Consider contacting your dealer for assistance with disposal.

Right of warranty

The right of warranty is subject to the General Conditions for Supply which are presented here:

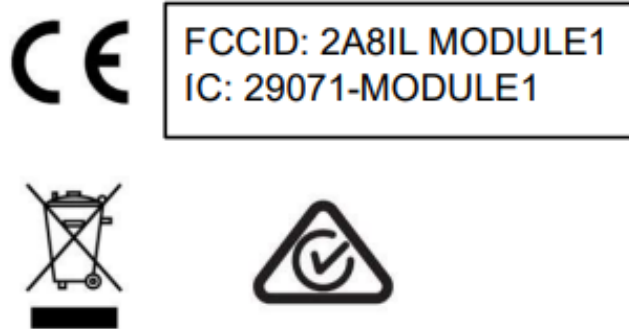
<https://www.directhealthcaregroup.com/app/uploads/TermsConditions-2018-Issue-1.pdf>.



Approvals and certificates

The MODULE1 product is tested in compliance with the European radio and medical specifications (CE – Declaration of Conformity) and certified according to the following radio recommendations US and Canada:

MODULE1:



FCC and IC Statements

The MODULE1 product contains radio transmitters that comply with CFR 47 Part 15.249 of the FCC rules and with RSS-102 and RSS-247 of ISED Canada requirements.

Notice statements according to CFR 47 Part 15.19 / RSS-GEN:

The MODULE1 product complies with Part 15 of the FCC rules and with ISED Canada license exempt standard(s). 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.

NOTICE statements according to CFR 47 Part 15.21:

Changes or modifications made to this equipment not expressly approved by DHG LTD. may void the FCC authorization to operate this equipment.

Statements according to CFR 47 Part 2.1091/2.1093 and OET bulletin 65/RSS102:

The MODULE1 product is SAR test excluded according to FCC KDB 447498, RSS102 and EN 62479 at separation distances larger than 5 mm and less than 50 mm with respect to the human body as the maximal radiated power is below the limits.

The MODULE1 product is by declaration of RF Exposure Compliance for Exemption from Routine Evaluation Limits according to RSS102

ATTESTATION:

It is attested that the radio communication apparatus meets the exemption from the routine evaluation limits in RSS102 Section 2.5 of this standard; that the Technical Brief was prepared, and the information contained therein is correct; that applicable measurement methods and evaluation methodologies have been followed; and that the device meets the SAR and/or RF field strength limits of RSS102.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

SAR test exclusion according to EN 62479

The MODULE1 product is compliant according to EN 62479 as the output power is less than 20 mW.

AUS/NZ:


The MODULE1 complies with the AS/NZS 4268 requirements for 2.4 GHz transceiver.



DHG

Withey Court, Western Industrial Estate, Caerphilly
United Kingdom, CF83 1BF
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F: +44 (0) 845 459 9832

Documents / Resources

	<p>DHG Module1 [pdf] Installation Guide MODULE1, 2A8IL-MODULE1, 2A8ILMODULE1</p>
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References

-  [Moving Health Forward | DHG](#)