



Radio transmitter
VFF/CDL-BF-07
with Bluetooth-Technology

Operating Instructions



For adjustable beds with a
VIBRADORM dual drive
V-MAT-Basic



Foreword

Revision history

Version	Date
1.0	01.04.2019
Change	
First edition	

In your own interest

Read these operation instructions and keep them in a safe place. Observe the safety instructions.

Disclaimer

We would like to point out that the company VIBRADORM GmbH will not assume any liability for injuries or damage that occurs as a result of

- non-observance of these operating instructions,
- changes to the product that were not approved by VIBRADORM GmbH, or
- the use of spare parts not manufactured or released by VIBRADORM GmbH, or
- plug-in parts not manufactured or released by VIBRADORM GmbH.

Manufacturer's address

VIBRADORM GmbH
Relystraße 38
64720 Michelstadt
GERMANY
Tel.: ++49 (0)6061 / 94 44 0
Fax: ++49 (0)6061 / 94 44 10
<http://www.vibradorm.de>
E-Mail: info@vibradorm.de

Table of contents

Foreword	2
Revision history	2
In your own interest	2
Disclaimer	2
Manufacturer's address	2
Table of contents	3
1 General	4
1.1 How to use these instructions	4
1.2 Information about these operating instructions.	4
2 Safety instructions	4-6
2.1 Intended use.	5
2.2 Improper use.	5
2.3 Specific safety instructions	6
2.4 Information about radio operation . . .	7
2.5 Electronic medical equipment.	7
Remote control & dual drive overview	8
3 Commissioning	9
3.1 Inserting the batteries	9
3.2 Teach-in process	9
3.3 Teach-in of a second dual drive (optional)	10
4 Operation	12
5 Reset to factory settings	14
6 Malfunctions / troubleshooting	15
7 Technical data	15
8 Maintenance and cleaning	15
9 Disposal	16
10 Attachment	17
10.1 Operation via a smartphone or tablet PC	17

1 General

1.1 How to use these instructions Symbols used



Warning

Indicates about a dangerous situation; potential consequences: death or serious injury.



Caution

Potentially dangerous situation; potential consequences: slight or minor injuries.



General information; Information that is important for the function or operation, or that will facilitate operation or assembly.

1.2 Information about these operating instructions

These operating instructions serve the successful and safe use of the radio transmitter VFF/CDL-BF-07.

The operating instructions will help you to avoid dangers, and minimise repairs and failures.

These operating instructions were compiled with great care. No liability will be assumed for the accuracy and completeness of the data, images or drawings, unless prescribed by law.



Subject to technical amendments that serve continuous product improvement without prior announcement!

2 Safety instructions

The radio transmitter VFF/CDL-BF-07 can be used by children aged 8 and upwards and by persons with limited physical, sensory or mental aptitude or lack of experience and/or knowledge if they are supervised or have received instruction from a person responsible for their safety as to how the radio

transmitter is used and the associated risks.

Children may not play with the radio transmitter.

Children may not clean or service the device without supervision.

2.1 Intended usage

The radio transmitter VFF/CDL-BF-07 is designed for:

- operating VIBRADORM dual drives.
- use within the home



Caution

The radio transmitter VFF/CDL-BF-07 is only designed for the designated purpose. Any other use is deemed improper and can lead to accidents or the destruction of the device.

This will lead to immediate invalidation of the warranty and any warranty claims by the end user with respect to the manufacturer.

2.2 Improper usage

Please observe the following information about improper usage.



Warning

The radio transmitter VFF/CDL-BF-07 may not be used

- with a medical product or installed in a medical product,
- in an environment in which there are inflammable or explosive gases or vapours (e.g. anaesthetics),
- in damp environments,
- outdoors,
- in applications that are washed in mechanical washing systems,
- for lifting and lowering of loads, in craftsman or industrial areas or in the household.

2.3 Specific safety instructions



Caution

The following safety instructions serve to protect you, third parties and the equipment, and must therefore be adhered to strictly.

Operating environment

- The radio transmitter may not come into direct contact with damp or water. The radio transmitter is only suitable for dry indoor rooms.
- When switching from cold to warm environments, allow the radio transmitter time to adjust to the ambient temperature for a few hours before use, otherwise it may suffer damage as a result of condensation.
- Never use the radio transmitter close to devices that emit strong electromagnetic fields. This could impact on its function.
- Also avoid environments exposed to direct sunlight, high temperatures, cold, damp or wet.

The device

- Check first whether the housing is damaged. If this is the case, do not use the radio transmitter but contact the supplier for a replacement.
- For safety reasons, it is prohibited to make any unauthorised changes to the radio transmitter. Do not open the housing of the radio transmitter, except to change the batteries, otherwise the warranty will become void.

Operation

- The radio transmitter only functions correctly if it is commissioned and used properly.
- To avoid injury, never allow children or other vulnerable persons to use the radio transmitter unsupervised.
- Radio signals can pass through walls and ceilings!. Only use the radio transmitter in the room in which the adjustable bed is located!

2.4 Information about radio operation

Please note that the transmitter range depends on the local conditions. It may impact on other devices operated by radio, for instance WLANs, cordless phones or microwave ovens.

Transmission / receiving frequency:
2.4GHz ISM band.

Devices according to the standard of the Bluetooth SIG transmit as Short Range Devices (SRD) in a license-free ISM band (Industrial, Scientific and Medical band) between 2.402 GHz and 2.480 GHz.

2.5 Electronic medical equipment

This product is designed and manufactured according to the Standard DIN EN 60335-1 (Safety of Household and similar Electrical Appliances) and carries the CE mark. If you use a Medical Device such as pacemaker you may wish to contact your specialist to answer any questions.

Remote control & dual drive overview



- S** Status LED
- 1** All drives up
- 2** All drives down
- 3** Back drive up
- 4** Back drive down
- 5** Leg drive up
- 6** Leg drive down



- 7** Torch LED on/off
- T** Torch LED
- B** Battery compartment
- L** Teach-in button



3 Commissioning

3.1 Inserting the batteries

Insert the supplied batteries (2x 1,5V AAA LR03) into the battery compartment as shown in the picture. Ensure that the batteries are inserted in the right direction (+/-)!



Once the batteries have been inserted, close the battery compartment lid again and the radio transmitter is operational.

3.2 Teach-in process

A teach-in process must be carried out to enable the radio transmitter and the dual drive V-MAT-Basic to communicate with each other.



This teach-in process is normally carried out by the manufacturer and you can skip this step.

After the batteries have been inserted, the Status LED **S** and the Keypad illumination are flashing.

- Briefly press any button.
- The status LED **S** and the keypad illumination flash alternately.
- Press button **L** on the dual drive for approx. 1 s.
- The back adjustment motor moves briefly up/down.
- The status LED **S** goes off, the keypad illumination lights up constantly.
- The teach-in process has been completed successfully.

3.3 Teach-in of a second dual drive (optional)

The radio transmitter VFF/CDL-BF-07 can operate two dual drives simultaneously (Parallel function). For this purpose, a teach-in process for the second dual drive must be carried out.

After you carried out the teach-in process for the first dual drive (see page 9), you carry out the same process for the second dual drive:

- Press the buttons **1** and **2** on the radio transmitter at the same time and keep them pressed for approx. 3 seconds until the status LED **s** starts flashing.
- Release the buttons now.
- The status LED **s** and the keypad illumination flash alternately.
- Press button **L** on the second dual drive for approx. 1 s.
- The back adjustment motor moves briefly up/down.
- The status LED **s** goes off, the keypad illumination lights up constantly.
- The teach-in process has been completed successfully.



This function can only be switched off by resetting the radio transmitter to its factory settings (see page 9).



The parallel function will not synchronize the drives, they will just move simultaneously. Depending on the load of each drive, over time there might show differences of the tilt angles of the back and leg motors. In this case use button **1 to move all drives completely up. After that the motors should move parallel again.**



4 Operation

Status LED **S**

When a button is pressed, this LED lights up. If the button is kept pressed, the LED flashes.

Background illumination (optional)

The radio remote control is equipped with a keypad background illumination. It is switched on, when the remote control is moved or any button is pressed, and turns off after approx. 5 seconds if no other button is pressed, the same button is kept pressed or the remote control is moved again.

Bed adjustment



Caution

**Before making any adjustments:
Check that neither you nor anyone else or any pets are at risk from the moving parts of the adjustment mechanics!**

- 1 Both drives upwards.
- 2 Both drives downwards.
- 3 Back adjustment upwards.
- 4 Back adjustment downwards.
- 5 Leg adjustment upwards.
- 6 Leg adjustment downwards.

As long as you keep the buttons pressed, the drives will move.

Torch function



Caution

Do not look directly into the torch LED!

Pressing button **7** for approx. 3 seconds activates the torch LED **T**. The LED will switch off automatically after approx. 20 seconds.

Pressing button **7** again shortly will switch off the torch LED.

If you keep the button pressed, the LED remains switched on. It then goes off about 20 seconds after releasing the button.

5 Reset to factory settings

Resetting the remote control:

- Simultaneously press and hold the buttons **3**, **5** and **7** or **2**, **4** and **6**.
- The status LED **S** starts flashing.
- When the status LED **S** is steady, release the buttons.
- The status LED **S** goes off, the remote control is reset.

Resetting the double drive:

- Press button **L** on the double drive for approx. 10 s.
- The drive for the leg adjustment moves briefly to confirm a reset to the factory settings.
- Remove the plug from the mains socket and wait until the green LED on the power supply goes off.



- Then reconnect the mains plug.
- The double drive is now returned to its default settings.



PLEASE NOTE:

After resetting the double drive to the factory settings, the pairings of remote controls and Apps are removed, the pairing process has to be carried out again.

6 Malfunctions / troubleshooting

Before contacting the service office of the furniture manufacturing company, please try the following in the event of a malfunction:

- Check to ensure that the dual drive VMAT-Basic is connected to the mains supply (power socket).
- Check (e.g. with a lamp) that the power socket actually works (fuse).
- Replace the batteries of the radio transmitter (see page 8).
- Carry out the teach-in process again (see page 9).
- Reset the dual drive to the default settings (see page 14) and then carry out the teach-in process again (see page 9).

7 Technical data

Operating voltage 3VDC
via batteries

Power consumption

Idle typ. 1µA

Operational 2mA

Transmission freq. . . 2,4GHz (ISM-Band)

Transmission range 10 - 50m

Housing material ABS

Protection grade IP20

Battery type . . . 2 pcs. 1,5V AAA (LR03)

Weight (incl. batteries and packaging) approx.. 80g

8 Maintenance and cleaning

The radio transmitter is maintenance-free, apart from the replacement of the batteries.

Clean the housing with a slightly damp cloth. Do not use any aggressive detergents or scouring agents.

9 Disposal



This symbol on the product or its packaging indicates that the product may not be disposed of via the household waste system. Users have a duty to dispose of the old equipment via the collection point for electronic and electrical scrap. Separate collection and correct disposal of your old equipment helps conserve natural resources and guarantees recycling, which protects human health and preserves the environment. Please contact your local council or waste disposal authority to find out where the collection points are for your old equipment.

Disposal of the manual radio transmitter VFF/CDL-BF-07 in Germany is subject to the Electrical Equipment Act, internationally to the EU Directive 2011/65/EU RoHS or the respective national laws.

(The product is not subject to the EU Directive 2002/96/EC (WEEE) and its supplement EU Directive 2003/108/EC.)

Disposal of batteries in the EU is subject to the Battery Directive 2006/66/EU, in Germany to the Battery Act (BattG) dated 25.6.2009, and internationally to the respective national laws.

10 Attachment

10.1 Operation via a smartphone or tablet PC



The smartphone or tablet must support Bluetooth 4.0 (Bluetooth Smart, BLE, Bluetooth Low Energy)!

You will need to download and install an app to operate the dual drive via your smartphone or tablet PC.

The app is available for both Android ¹⁾ and iOS ²⁾ systems.

Once the app has been installed, please proceed as follows:

- Activate the Bluetooth function on your smartphone or tablet PC. You will usually find this in the menu >Settings<. Please check that the function is activated.
- Press the button **L** on the dual drive for approx. 1 second (see page 8).
- Now start the connection process on your smartphone / tablet PC. Usually the message 'Searching for devices' will be displayed.
- If the dual drive is still in its default settings, the smartphone will find a device called 'V-Mat-...', or a name that the dual drive was previously given.
- Now activate the connection process (pairing; bonding) on your smartphone. This may take a few seconds. As soon as the connection had been made, the app can be used.

There is a description of the app on the above-mentioned download website.

¹⁾ The app for Android operating systems is available on Google Play.

²⁾ The app for iOS® (Apple®) operating systems is available on Apple® iTunes®.

Document is subject to change without prior announcement.

© 2019 VIBRADORM GmbH. All rights reserved.

It is strictly forbidden to duplicate this document in any form without the prior consent of the company VIBRADORM GmbH. VIBRADORM GmbH is not liable for any errors in this document or for any ensuing damages connected to the delivery, performance or use of this material.

VIBRADORM GmbH

Relystrasse 38 • D-64720 Michelstadt

eMail: info@vibradorm.de

Internet: www.vibradorm.de

© VIBRADORM GmbH, April 2019

Drawing No. 080.000.509

Item No. 006115