



## Joystick Interface Omni-DX

P002-31

### Contact & Product

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***User & Installation manual***

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## Important information about this Manual

Congratulations for choosing a mo-Vis product! If you would like to learn more about mo-Vis and its products, we invite you to visit our website: [www.mo-vis.com](http://www.mo-vis.com).

Before you install or begin using this product, it is important that you read and understand the content of these installation and operating instructions, the safety instructions in particular.

The installation instructions will guide you as an installer through the options and possibilities with the mo-Vis product.

The operating instructions are primarily intended to acquaint you with the functions and characteristics of the mo-Vis product and how you can use it in the best manner possible. They also contain important safety and maintenance information, as well as describe possible problems that can arise during use. Always keep the operating instructions handy in connection with your wheelchair, since the need for important information can arise concerning its use, safety and maintenance.

All information, pictures, illustrations and specifications are based on the product information that was available at the time of printing. Pictures and illustrations shown in these instructions are representative examples and are not intended to be exact depictions of the various parts of the product.

We reserve the right to make changes to the product without prior notice.

### ***Ordering documentation***

You can download additional copies of this User & Installation manual on the mo-Vis website: [www.mo-vis.com](http://www.mo-vis.com).

## Support, scrapping and spare parts

### ***Technical support***

In case of technical problems, we advise you contact your dealer.

If the dealer is not available, or unknown, please contact mo-Vis bvba by email [support@mo-vis.com](mailto:support@mo-vis.com) or by phone +32 9 335 28 60.

Always state the device serial number when contacting mo-Vis. This ensures you are provided with the correct information.

### ***Spare parts and accessories***

Spare parts and accessories must be ordered by the dealer at mo-Vis bvba.

### ***Scrapping & recycling***

For scrapping, adhere to your local waste legislation.

Dispose of obsolete electronic parts responsibly in accordance with local recycling regulations.

## **Warranty**

mo-Vis bvba warrants the unit to be free from defects in material and workmanship for a period of 2 years under proper use, care and service. All warranties only cover parts and do not extend beyond the initial purchaser from an authorised mo-Vis dealer.

### ***Start of the warranty period***

Each warranty shall begin on the date the product is first delivered to the customer.

### ***Repair and replacement***

For warranty service, we advise you contact the dealer from whom the product was purchased. In the event of a defect in material or workmanship, the dealer must obtain a return authorisation (RA) number from mo-Vis and the product must be shipped to a service centre designated by mo-Vis. mo-Vis will repair or, at mo-Vis' option, replace any product covered by the warranty.

### ***Disclaimer and Limitations of Remedies***

The express warranties set forth in this agreement are in lieu of all other warranties of merchantability or fitness of purpose. In no event shall mo-Vis be liable for any direct, indirect, incidental or consequential damages resulting from any defect in this product. Warranty of parts subject to "normal wear and tear" (e.g. pads, joystick balls, batteries ...) are not covered in the warranty except as it applies to defects in material or construction.

### ***Amendments***

No person is authorised to alter, extend or waive the warranties of mo-Vis.

### ***Voiding of warranties***

The foregoing warranties are contingent upon the proper installation, use, maintenance and care of the product. The warranty will be void if the product has been installed or used improperly, or if it has been repaired or any part replaced by persons other than mo-Vis or an authorised dealer. The unit is considered as a non-serviceable part.

The addition of equipment or features that are not manufactured or recommended by mo-Vis could affect the intended function of the mo-Vis product and may invalidate the warranty.

### ***Understanding usage***

The health care professional (authorised installer) is responsible for understanding the intended use of the mo-Vis equipment, the specifications and its programming parameters. mo-Vis cannot be held responsible for damage caused by incorrect installation or incorrect use of the product. Misuse, mishandling, or storage is not covered by this warranty.

## **Safety precautions**

### ***General***

The Joystick Interface Omni-DX is intended to be fitted on any power wheelchair with “Dynamic Controls” DX / DX2 electronics to connect a mo-Vis Omni compatible device.

Incorrect use or installation may lead to risk of injury to the user and damage to the wheelchair or other property.

In order to reduce these risks, you should carefully read this instruction manual, paying particular attention to the safety instructions and warning texts.

Only install this product on a wheelchair where the wheelchair manufacturer allows the installation of third party parts.

Any unauthorised use of the product may lead to increased risk of accident. Carefully follow the recommendations in this manual in order to prevent accidents from use.

The Joystick Interface Omni-DX is a non-serviceable part.

In case of doubt for alterations and adjustments, always contact a qualified service engineer.

In case any serious incident occurs in relation to this device, this should be reported immediately to mo-Vis and the competent authority of the Member State in which the user is established.

### **Warning labels**

This manual contains the following warning labels, which are intended to draw attention to situations that could lead to unwanted problems, e.g. personal injury or damage to the wheelchair.



#### **CAUTION!**

*Please use caution where this symbol appears.*



#### **WARNING!**

*Please use extreme caution where this warning symbol appears. Failure to observe warnings can lead to personal injury or property damage.*



#### **CAUTION!**

##### **Limited liability**

*mo-Vis accepts no liability for personal injury or damage to property that may arise from the failure of the user or other persons to follow the recommendations, warnings and instructions in this manual.*



#### **CAUTION!**

##### **EMC Requirements**

*The electronics of a power wheelchair and its options can be affected by external electromagnetic fields (for example from mobile telephones). Similarly, the electronics of the wheelchair or options themselves can also emit electromagnetic fields that can affect the immediate surroundings (for example certain alarm systems in businesses).*

*The limit values for Electromagnetic Compatibility (EMC) with respect to power wheelchairs are set in the harmonised standards for the EU in the Medical Devices Directive, No. 93/42/EEC. The Adjustable Fused Power Supply complies with these limit values.*



#### **WARNING!**

##### **Assembly**

*The unit should only be installed or adjusted by a qualified service engineer or someone with adequate knowledge to perform the adjustment in an expert manner.*

### ***Maintenance and service***

*Carry out only the service and maintenance activities specified in this manual, as long as you comply with the demands stated in this manual for a specific action. All other service, alterations to and interventions on the Joystick Interface Omni-DX must be carried out by a qualified service engineer or someone with adequate knowledge to perform the adjustment in an expert manner. In case of doubt, contact a qualified service engineer or mo-Vis.*

*Use only spare parts or accessories approved or recommended by mo-Vis. All other use could lead to changes which might impair the function and safety of the product. It could also lead to the warranty becoming void.*

## Design and function of the Joystick Interface Omni-DX

### ***Intended use***

The Joystick Interface Omni-DX can be used to connect any mo-Vis Omni joystick to a power wheelchair with “Dynamic Controls” DX / DX2 electronics.

Do not use the device to connect any non mo-Vis Omni device.

### ***Indicator LED***

When in use, a green LED on Joystick Interface Omni-DX indicates the proper functioning of the unit.

### ***Not included***

DX cable between the interface and wheelchair DX bus connector.

## Installation instructions

### Preparations

#### ***Qualified service engineer***

Only a qualified service engineer may install the Joystick Interface Omni-DX.

## **Installation plan**

Set up an installation plan before beginning the installation. Based on the users' needs and with actual measurements of the wheelchair, this plan should specify where the unit will be placed, and how the cabling will be guided.

## **Serial number sticker**

An additional serial number sticker can be found in the package and should be adhered to the back of this manual.

## Connecting the cabling to the Joystick Interface Omni-DX



### **WARNING!**

*All wheelchair electronics must be switched off before connecting any cabling.*

To connect the cabling to the Joystick Interface Omni-DX, proceed as follows:

1. Place the unit according to the installation plan on the wheelchair.



### **WARNING!**

*Firmly secure the unit to the wheelchair.  
You can e.g. use Velcro or double-sided tape on the back of the unit.*

2. Connect the Omni Joystick cabling to the Omni Joystick input.
3. Guide and secure all cabling according to the installation plan.



### **WARNING!**

*Mind damaging the unit and wiring. Make sure the cabling is mounted in such a way the excessive wear and tear is avoided.*

4. Use a DX Bus straight cable from the DX bus to the wheelchair DX/DX2 system to connect the device.
5. Switch the wheelchair electronics on.  
The green LED on the unit switches on.
6. Change the joystick source in the DX wizard from Master to Remote Joystick (RJM).



### **CAUTION!**

*Not checking or adjusting the DX settings may lead to malfunctioning of the joystick.*

7. Test the usage of the joystick according to the joystick test plans.



# Using the Joystick Interface Omni-DX

## Use conditions

The Joystick Interface Omni-DX is intended for use as installed by the dealer, in accordance to the installation instructions in this manual.

The foreseen use conditions are communicated by the dealer or service engineer to the user and/or attendant during the first time use.

## Troubleshooting

Below, is a list of possible problems and their probable cause.

Problem	Possible cause	Remedy
Green LED off	Wheelchair power off.	Power up wheelchair.
	Disconnected cabling.	Reconnect cabling.
	Damaged cabling.	Check cabling, and replace if necessary.
Green LED flashes	Joystick not or not properly connected to the interface.	Connect the joystick properly.
	Faulty joystick.	Check the joystick.
Wheelchair does not react to joystick actions	Disconnected cable.	Reconnect cabling.
	Damaged cabling.	Check cabling, and replace if necessary.
	Joystick not correctly set.	Check if the joystick source is set to 'remote joystick' in the DX wizard.
	Faulty joystick.	Check the joystick.

If the problem persists after intervening, please contact your local dealer or mo-Vis to attend to the problem.

## Maintenance

### *Cleaning*

- Gently remove dust and dirt with a damp cloth.
- The use of non-aggressive disinfectant cleaning agents is allowed.



### **WARNING!**

*Do not immerse the unit in water or use excessive amounts of liquid.*

### *Unit maintenance*

The Joystick Interface Omni-DX is maintenance-free. Under regular use circumstances, the unit does not require additional maintenance.

## Technical data

### *Name*

- Joystick Interface Omni-DX (P002-31)

### *Connections*

- DX bus male chassis connector
- Omni (SUB D9) male connector

### *Dimensions*

26 mm X 74 mm x 51 mm (HxWxD)

1.02 in x 2.91 in x 2.01 in (HxWxD)



Installation date: . . / . . / . . . .

Dealer: . . . . .

***Dealer stamp:***



***Serial number sticker***

