Smart Reader VET

ULR01.1V1

EN-US Installation and Operating Instructions

216210002 3L29 2310V002

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Important information

1 About this document

These installation and operating instructions are an integral part of the unit.

The manufacturer and the distributor accept no responsibility or liability for safe operation and reliable functioning of the device if the information and instructions contained in these installation and operating instructions are not observed.

The German version of the installation and operating instructions is the original manual. All other languages are translations of the original manual.
These operating instructions apply to:
Smart Reader VET (ULR01.1V1)
REF: 2162100020

1.1 Warnings and symbols

Warnings

The warning notes in this document highlight possible injury to persons or damage to machinery.
They are marked with the following warning symbols:

General warning symbol

The warnings are structured as follows:

> **SIGNAL WORD**
> **Description of type and source of danger**
>
> Here you will find the possible consequences of ignoring the warning
>
> › Follow these measures to avoid the danger.

The signal word differentiates between different levels of danger:

- **DANGER**
  Direct danger of severe injury or death
- **WARNING**
  Possible danger of severe injury or death
- **CAUTION**
  Risk of minor injuries
- **NOTICE**
  Risk of extensive material/property damage

Miscellaneous symbols

These symbols are used in the document and on or in the unit:

Note, e.g. specific instructions regarding the efficient use of the unit.

REF Part number

SN Serial number

Model number

CE mark

UK CA Conformity mark of the UK and Northern Ireland

Manufacturer

Dispose of correctly in accordance with EU Directive 2012/19/EU (WEEE).

Take note of the accompanying electronic documents.

Wear hand protection.

DC current

1.2 Copyright information

2 Safety

The unit has been developed and designed appropriately such that hazards are largely excluded if the unit is used in accordance with its Normal Use.
Despite this, the following residual risks can remain:

– Personal injury due to incorrect use/misuse
– Personal injury due to mechanical effects
– Personal injury due to electric shock
– Personal injury due to radiation
– Personal injury due to fire
– Personal injury due to thermal effects to skin
– Personal injury due to lack of hygiene, e.g. infection

2.1 Unauthorized modification

Pursuant to Part 15.21 of the FCC rules, any changes or modifications to this equipment not expressly approved by the manufacturer may cause, harmful interference and void the FCC authorization to operate this equipment.

2.2 General safety information

› Comply with the guidelines, laws, rules and regulations applicable at the site of operation when you use this unit.
› Prior to each use, check the function and proper condition of the device.
› Do not convert or modify the unit.
› Comply with the Installation and Operating Instructions.
› Make the Installation and Operating Instructions always available to the operator in the vicinity of the device.

2.3 Specialist personnel

Operation

Persons operating the unit must ensure safe and correct handling based on their training and knowledge.
› Instruct or have every user instructed in handling the unit.

Installation and repairs

› Installation, readjustments, alterations, upgrades and repairs must be carried out by the manufacturer or by qualified personnel specifically approved and authorized by the manufacturer.

2.4 Protection from electric shock

The device is designed for use in a basic electromagnetic environment with connection to the public power supply network in accordance with IEC 61326-1 (EN 61326-1).
› Replace damaged cables or plugs immediately.

2.5 FCC note

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
› This device may not cause interference.
› This device must accept any interference, including interference that may cause undesired operation.

Note: 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.

2.6 ISED Statement

EN:
This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
– This device may not cause interference.
– This device must accept any interference, including interference that may cause undesired operation of the device.

FR:
Cet appareil contient des émetteurs/récepteurs exemptés de licence conformes aux RSS (RSS) d'Innovation, Sciences et Développement économique Canada. Le fonctionnement est soumis aux deux conditions suivantes:
– Cet appareil ne doit pas causer d'interférences.
– Cet appareil doit accepter toutes les interférences, y compris celles susceptibles de provoquer un fonctionnement indésirable de l'appare.

Canada ICES-003 compliance statement
This Class B digital apparatus complies with Canadian ICES 003.

2.7 Only use genuine parts

› Only use accessories and optional items that have been recommended or specifically approved by the manufacturer.
› Only use original working parts and spare parts.

Manufacturer and distributor accept no liability for damage or injury resulting from the use of non-approved accessories or optional accessories, or from the use of non-original wear parts or replacement parts.

The use of non-approved accessories, optional items or non-genuine wear parts / replacement parts (e. g. mains cable) can adversely affect the electrical safety and EMC.

2.8 Transport

The original packaging provides optimum protection for the unit during transport.
If required, original packaging for the unit can be ordered.

Manufacturer and distributor shall not accept any responsibility or liability for damage occurring during transport due to the use of faulty packaging, even where the unit is still under guarantee.

› Only transport the unit in its original packaging.
› Keep the packing materials out of the reach of children.
› Do not expose the unit to any strong vibrations or shocks.

2.9 Disposal

An overview of the waste keys for DÜRR MEDICAL products can be found in the download area at *www.duerr-medical.de* (document no. GA10100002).

Dispose of the unit correctly. Within the European Union, the unit must be disposed of in accordance with EU Directive 2012/19/EU (WEEE).

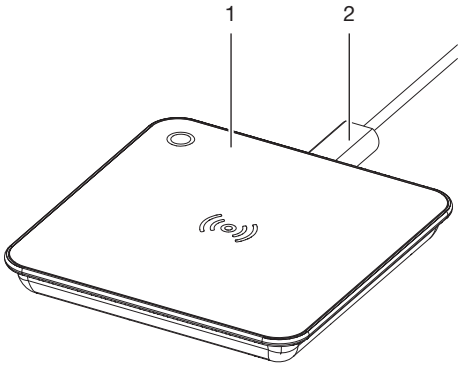
› If you have any questions about the correct disposal of parts, please contact your dental trade supplier.

2.10 Protection from cybersecurity threats

The unit is to be connected to a computer that can be connected to the Internet. Therefore, the system needs to be protected from threats from the Internet.
› Use antivirus software and update it regularly. Look for evidence of possible virus infection and, if applicable, check with the antivirus software and remove the virus.
› Perform regular data backups.
› Provide access to units only to trustworthy users, e.g. by means of user name and password.
› Make sure that only trustworthy contents are downloaded. Install manufacturer-authenticated software and firmware updates only.

Product description

3 Overview



1 Smart Reader VET
2 USB cable

3.1 Scope of delivery

The following items are included in the scope of delivery (possible variations may apply due to country-specific requirements and/or import regulations):

Smart Reader VET 2162100020

– Smart Reader VET basic unit
– USB cable (2 m)

3.2 Accessories

The following items are required for operation of the device, depending on the application:

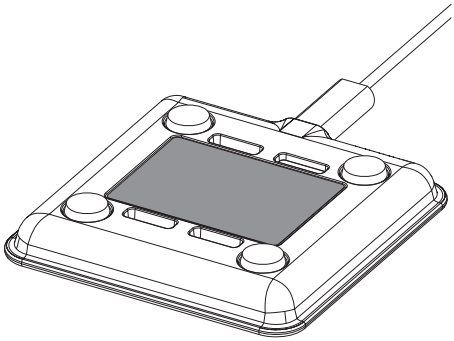
USB cable (2 m) 9000101692

4 Technical data

Electrical data of the device		
Nominal voltage (supplied via USB)	V DC	5
Max. current consumption	mA	200
Max. power consumption	W	< 1
Power draw in standby	W	0.16
General technical data		
Dimensions (W x H x D)	mm	90 X 13 X 90
	in	3.54 X 0.51 X 3.54
Weight	kg	approx. 0.13
	lb	approx. 0.29
Ambient conditions during operation		
Temperature	°C	+10 to +35
	°F	+50 to +95
Relative humidity	%	20 - 80
Air pressure	hPa	750 - 1060
Elevation above sea level	m	< 2000
	ft	< 6562
Ambient conditions during storage and transport		
Temperature	°C	-20 to + 60
	°F	-4 to +140
Relative humidity	%	10 - 95
Air pressure	hPa	750 - 1060
USB Connector		
USB technology		USB 2.0 or higher
Data Rate		Full Speed
Support for high-performance devices	mA	500
Connection, device side		USB type C
Technical data for the RFID module		
Frequency	MHz	13.56
Supported standard		ISO/IEC 15693
Modulation		ASK
Max. power	mW	400

4.1 Model identification plate

The type plate is located on the underside of the device.



REF Order number
SN Serial number

4.2 Conformity assessment

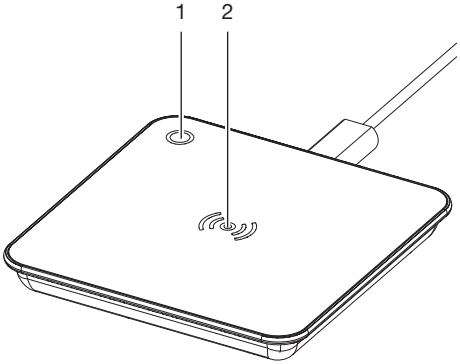
This device has been subjected to conformity acceptance testing in accordance with the current relevant guidelines of the European Union. This equipment conforms to all relevant requirements.

4.3 Simplified declaration of conformity

The manufacturer hereby declares that the device satisfies the requirements of, among others, Directive 2014/53/EU.
The full text of the EU declaration of conformity can be viewed online in the Download Center:

http://q-r.to/VET-downloads

5 Function



1 Status LED
2 Scanner

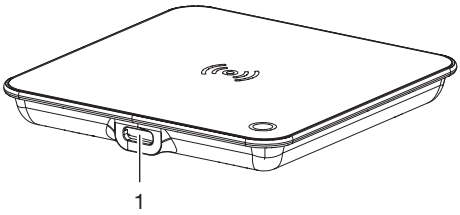
The Smart Reader is an RFID reader that connects to a computer via a USB cable. It reads RFID chips and transmits the read data to software on the connected computer.
With the Smart Reader and SmartScan, for example, a phosphor storage plate is assigned to a specific patient via the imaging software. This allows the phosphor storage plate to be read without a scan job on all devices in the network that support SmartScan.

5.1 Status LED

Depending on the software used, the status LED displays different colors. Refer to the relevant descriptions for the status LED in the software used.

5.2 Connections

The connections are located on the rear of the unit.



1 USB port (type C)

Installation

6 Requirements

6.1 Installation/setup room

The room chosen for set up should fulfil the following requirements:

– Closed, dry, well-ventilated room
– Should not be a room made for another purpose (e.g., boiler room or wet cell)

6.2 System requirements

For information about system requirements for computer systems please refer to the information sheet (order no. 9000-608-100) or visit our website online at *www.duerr-medical.de*.

7 Installation

7.1 Setting up the unit

Portable and mobile HF communication appliances can interfere with the effectiveness of electrical medical devices.

› Do not stack the unit next to or together with other appliances.
› If, however, this unit is operated next to other units or stacked with other units, monitor the unit carefully in the configuration selected in order to ensure normal operation.
› Place the unit on a firm, horizontal surface.

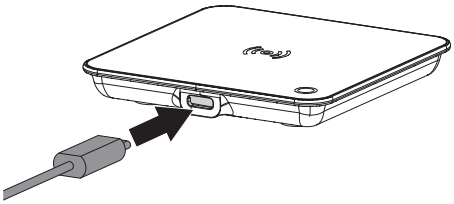
7.2 Connecting the unit

Combining devices safely

› When connecting the unit to other devices, such as a computer system: make sure that e.g. the computer, monitor, or printer that is/are connected is/are compliant with at least the standard IEC 60950-1 or IEC 62368-1.

Connecting the unit via the USB port

› Plug the supplied USB cable into the USB port of the device.



› Connect the USB cable to the computer.

8 Commissioning and first start-up

NOTICE

Short circuit due to the build-up of condensation

› Do not switch on the unit until it has warmed up to room temperature and is dry.

The unit supports the following imaging programs:

– Vet-Exam Pro from DÜRR MEDICAL

Always use the current version of the imaging program in the commissioning of the device.

The device is a so-called ‘plug & play’ device, so it can be used straight away after connecting it.

Usage

9 Operation

The device scans RFID chips from different sources. Whether or not the scanned RFID chip can be used depends on whether it is supported and on the devices and software used.

9.1 SmartScan

Use SmartScan to assign a phosphor storage plate to a particular patient via the imaging software.
As soon as a phosphor storage plate is assigned to a patient in the imaging software, all devices that support SmartScan will change status to “ready for image acquisition”. Afterwards any phosphor storage plates that were previously linked to a patient can be scanned on any of these devices in an arbitrary order. The images are then automatically assigned to this patient by the imaging software.
SmartScan works with the following imaging programs:
– Vet-Exam Pro from DÜRR MEDICAL

10 Cleaning and disinfection

When cleaning and disinfecting the unit and its accessories, observe country-specific directives, standards, and specifications for veterinary products, as well as the specific requirements for veterinary practices and clinics.

NOTICE

The use of unsuitable agents and methods can damage the unit and accessories and can also harm the health of animals

Do not use any products based on phenolic compounds, halogen-releasing compounds, strong organic acids, or oxygen-releasing compounds, as these may damage the materials.

› DÜRR MEDICAL recommends that any soiling should be removed with a soft, lint-free cloth that has been dampened with cold tap water.
› For disinfection, DÜRR MEDICAL recommends using 70% 2-propanol (isopropyl alcohol) on a soft, lint-free cloth.
› Read the operating instructions for the disinfectants.

Wear hand protection.

10.1 Surface of the unit

The surface of the unit must be cleaned and disinfected if it is contaminated or soiled.

NOTICE

Liquid can cause damage to the unit

› Do not spray the unit with cleaning agents or disinfectants.
› Make sure that no liquid penetrates into the unit.

› Remove any soiling with a soft, lint-free cloth that has been dampened with cold tap water.
› For disinfection, use 70% 2-propanol (isopropyl alcohol) on a soft, lint-free cloth.

11 Maintenance

The unit is maintenance-free.

Troubleshooting

12 Tips for operators and service technicians

Any repairs above and beyond routine maintenance may only be done by suitably qualified personnel or by one of our service technicians.

12.1 Software error

Error	Possible cause	Remedy
Imaging software fails to recognize the unit	Cable between unit and computer not correctly connected	› Check the connecting cable.
	Connecting cable between device and computer defective	› Check the connecting cable and use a new cable if necessary.
	Computer does not detect any connection to the unit	› Check the connecting cable. › Use a different USB port.
	Hardware error	› Contact technician.

12.2 Fault on the unit

Error	Possible cause	Remedy
Unit does not switch on	Device not connected correctly, or connecting cable or USB port defective	› Check the connecting cable and use a new cable if necessary. › Use a different USB port.
	Hardware error	› Contact technician.
Device does not recognize the phosphor storage plate	Incorrect phosphor storage plate used	› Only use phosphor storage plates that are supported by the device.
	RFID tag damaged or detached	› Check the phosphor storage plate for damage and replace it if required.
Device not responding even though the status LED is lit up	Fault in the device or in the software	› Depending on the software used, the status LED displays different colors. Refer to the relevant descriptions for the status LED in the software used.

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