

CR 43 VET

Manual

EN



9000-608-24/30

MADE IN GERMANY

 **DÜRR
MEDICAL**

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Important information

1. General

1.1 Conformity Acceptance Procedure

The product has been subjected to a conformity acceptance procedure in accordance with the relevant guidelines of the European Union for this appliance and conforms to the demanded fundamental requirements of these guidelines.

1.2 General Notes

- These Installation and Operating Instructions form an integral part of the appliance. As such they must be kept close to the appliance at all times. Observing the installation and operating instructions is a precondition for the designed use and the correct operation of the appliance. New employees must be instructed. New personnel must be made aware of the contents, and they should be passed on to future operating staff.
- The safety for the operator and a trouble-free operation of the appliance are only guaranteed if using original parts of the appliance. Furthermore, only the accessories described in the installation and operating instructions or approved by DÜRR MEDICAL for use with this appliance may be used. If other accessories are used, DÜRR MEDICAL can assume no warranty for the safe operation and reliable function. No claims for damages resulting therefrom will be accepted.
- DÜRR MEDICAL is responsible for the appliances from the point of view of safety, reliability and function only when installation, new settings, modifications, expansions and repairs are carried out by DÜRR MEDICAL or by a service centre authorised by DÜRR MEDICAL, and when the appliance is used and operated in accordance with the installation and operating instructions.

- These Installation and Operating Instructions conform to the relevant version of the equipment and the underlying safety standards valid at the time of going to press. All copyrights are reserved for the indicated switches, procedures, names, software programmes and appliances.
- The translation of the installation and operating instructions has been made to the best of knowledge. However, we cannot be held liable for translation errors. The included German version of the installation and operating instructions is relevant.
- Reprinting of the installation and operating instructions, in whole or in parts, is only permitted with the written approval of DÜRR MEDICAL.
- Retain the packaging for possible return of the product to the manufacturers. Ensure that the packaging is kept out of the reach of children. Only the original packaging provides adequate protection during transport of the appliance. If the appliance has to be returned to the manufacturers during the warranty period, DÜRR MEDICAL will accept no liability for damage occurring during transport resulting from poor packaging!

1.3 Disposal of the appliance

Appliance

The EU guideline 2002/96/EC - WEEE (Waste Electric and Electronic Equipment) of 27 January 2003 and its current implementation into national law determines that products are subject to the above-mentioned guideline and must be disposed of especially within the European Economic Area. Please address questions concerning the proper disposal of the product to DÜRR MEDICAL or to the dental trade.

Cassettes and image plates

Observe the regional disposal regulations. The image plate on the inside of the cassette contains a light sensitive material and must therefore be disposed of as appropriate for special waste.

- Please address questions concerning the proper disposal of the product to DÜRR NDT or DÜRR MEDICAL or to the dental trade.

1.4 Correct Usage

- The appliance is intended exclusively for visual scanning and processing of image data on an image plate in veterinary medicine.
- The appliance may only be operated in closed, dry rooms.
- Correct Usage is understood to include observance of the installation and operating instructions as well as adhering to instructions concerning set-up, operation and maintenance.
- Any use deviating from the intended use will void the warranty.
- The operator is liable for any damage arising through incorrect usage.
- Correct usage also involves observing all local and national regulations concerning health and safety at work and radiation prevention.
- The scanner may only be operated in combination with cassettes from Dürr NDT or DÜRR MEDICAL.

1.5 Incorrect Usage

The appliance is not intended for visual scanning of image plates in human medicine. Usage other than that described, especially where X-ray, mammography and dental applications are concerned, applies as incorrect. The manufacturer cannot be held liable for damages arising from incorrect usage. The operator alone bears this risk.

Cassettes from third-party manufacturers are not compatible with the system and could damage the appliance.



This appliance must not be used in operating theatres or similar types of room, where there is a risk of inflammable materials catching fire.

1.6 Using Peripheral Devices



Only peripheral devices (computers, monitors, printers) conforming to standard IEC 60950-1 (EN 60950-1) may be connected to the appliance.

- Appliances may only be connected together or connected to other system parts where the safety of patients, operators and also the environment is ensured.
Where the absolute safety for operator, patient or environment is not apparent then the operator is expected to call on expert advice, e.g. from the manufacturer or an expert, that such connections are safe before proceeding.

1.7 Use of Software

Only X-ray software that has been approved by DÜRR MEDICAL, such as e.g. Vet-Exam, Vet-Exam Intra, is to be used. Use of any other software must be expressly approved by DÜRR MEDICAL. More information can be found on the Internet under www.duerr-medical.de.



See system requirements on computer systems in connection with Dürr Medical - CR systems as well, Order No. 9000-608-100/01 or on the Internet.

The appliance supports the operating systems Windows XP Professional / Home from Service Pack 3 and Windows Vista 32-bit from Home Premium.

2. Safety

2.1 General Safety Notes

The appliance has been developed and designed in such a way that dangers are effectively ruled out if operated in accordance with the intended use. In spite of this, we feel it is our duty to mention the following safety measures in order to prevent any possible danger.

- When using this appliance, all local and relevant regulations must be observed! Converting or modifying the appliance in any way is strictly prohibited. DÜRR MEDICAL can assume no warranty or liability for modified or adapted appliances. The operation of modified appliances can be punishable by law. In the interests of trouble-free operation the operator is responsible for observing these regulations.
- Opening an appliance which is still connected to the mains power supply is dangerous and could lead to laser radiation Class 3B.
- Installation must be carried out by a specialist approved by the manufacturer.
- Before every use the operator must check the functional safety and the condition of the appliance.
- The operator must be knowledgeable in the operation of the appliance.

2.2 Electrical Safety Notes

- The appliance may only be connected to a correctly installed earthed safety socket.
- Connection to a multi-socket power strip is not permitted.
- Before connecting the appliance, check if the supply voltage and supply frequency indicated on the appliance coincide with the parameters of the mains system.
- Check the appliance and the power supply cables for possible damage before switching on. Damaged cables, plugs and sockets must be replaced before use.
- Never touch persons and open connectors of the appliance simultaneously.
- The corresponding electrical safety procedures must be observed when working on the appliance.



Before opening the appliance, unplug at the mains and remove all power.

3. Warning and Symbols

The following designations or symbols are used for particularly important instructions in the Installation and Operating Instructions:



Information and/or mandatory regulations or prohibitions for the prevention of personal injury or substantial property damage



Special information regarding the economical use of the equipment and other information



Unplug at the mains and remove all power



Warning Laser



Warning dangerous voltage.



Do not push the appliance.



Do not sit on the appliance.



Do not enter the appliance.



ON/OFF button



Ready for operation



Data transmission



Fault

3.1 Model identification plate

The model identification plate is located on the rear side of the scanner. The following information and symbols can be found on the model identification plate:



Date of manufacture



Observe accompanying documentation



Dispose of correctly according to EU guidelines (2002/96/EC - WEEE)

IP20 Fuse type

REF Order number

SN Serial number



CE label without notified body number



4. Delivery Contents

Please compare the completeness of the delivery with the purchase order!

CR 43 VET	2133-000-52
Network cable RJ45 (3 m).	9000-119-065
Installation and Operating Instructions.	9000-608-24/..
Mains cable (EUR).	9000-118-17
Mains cable (CH).	9000-119-002
Mains cable (DK).	9000-119-041
Mains cable (GB).	9000-118-59
Mains cable (AUS).	9000-119-037
Mains cable (J)	9000-119-039
Mains cable (I).	9000-119-036
Mains cable (USA).	9000-119-039

The further scope of supply depends on the purchase order.

4.1 Special accessories

The parts listed in the following are not included in the scope of delivery.
Please order as required!

RFID scanner.....2133-090-00

Cassettes

Cassette 18x24	2133-010-59
Cassette 24x30	2133-020-59
Cassette 35x43	2133-040-59

Protective sleeves for cassettes

18x24.	PRSH1824108
24x30.	PRSH2430108
35x43.	PRSH3543108

5. System requirements

The following components and requirements are necessary for operation of the scanner.

5.1 Monitor



The monitor does not form part of the scope of supply of the scanner.

Monitors for digital X-ray with high light intensity and wide contrast range must be employed. Strong ambient light, sunlight falling directly onto the monitor and reflections reduce the diagnosability of the X-ray images. In Germany, an acceptance test in accordance with DIN V 6868-57 can be carried out. In other countries, observe the applicable national laws!

5.2 System Requirements on Computer Systems



See enclosed information sheet, Order No. 9000-608-100/01

6. Technical Data

6.1 CR 43 VET

Electrical rated connection data

Voltage (V)	100 - 240
Frequency (Hz)	50/60
Current consumption (A)	2.5 - 1.0
Power (W)	250
Fuse type	IP20
Protection class	I
Transient surge voltage category	II

Data connections

Network	LAN 100 Base T
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Weight

CR 43 VET (kg)	approx. 55
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Dimensions

Dimensions (H/T/B in mm)	1130 x 440 x 400
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Ambient conditions for storage and transport

Temperature (°C)	-20 to +60
Relative humidity (%)	10 - 80

Ambient conditions for operation


Temperature (°C)	+10 to +35
Relative humidity (%)	20 - 80

Atmospheric pressure for operation and storage

Appliance in operation (hPa)	750 - 1060
See level (m)	<2000
Storage and transport (hPa)	750 - 1060
See level (m)	16000

General values

Laser protection class external	1 (EN60825-1)
Laser protection class internal	3b (EN60825-1)

 Wavelength λ 635 nm 15mW EN 60825-1:1994-03 + A1:2002-07+A2:2001-03

Heat output (W)	250
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Sound pressure level

Stand-by (db(A))	approx. 42
During readout (db(A))	approx. 45

Pixel size

Resolution (μm)	min. 50
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Conformity acceptance

06/95/EC (Low Voltage Directive)
04/108/EC (EMC Directive)

6.2 Cassettes with integrated image plates

Storage and transport

Temperature (°C)	<34
Relative humidity (%)	<30 - 80

Usage

Temperature (°C)	15 - 34
Relative humidity (%)	<30 - 80

No. of cycles

Cycles / cassette	approx. 25.000
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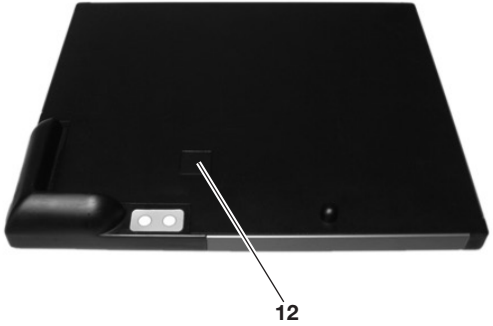
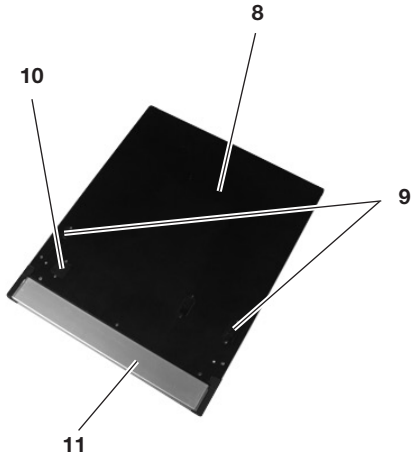
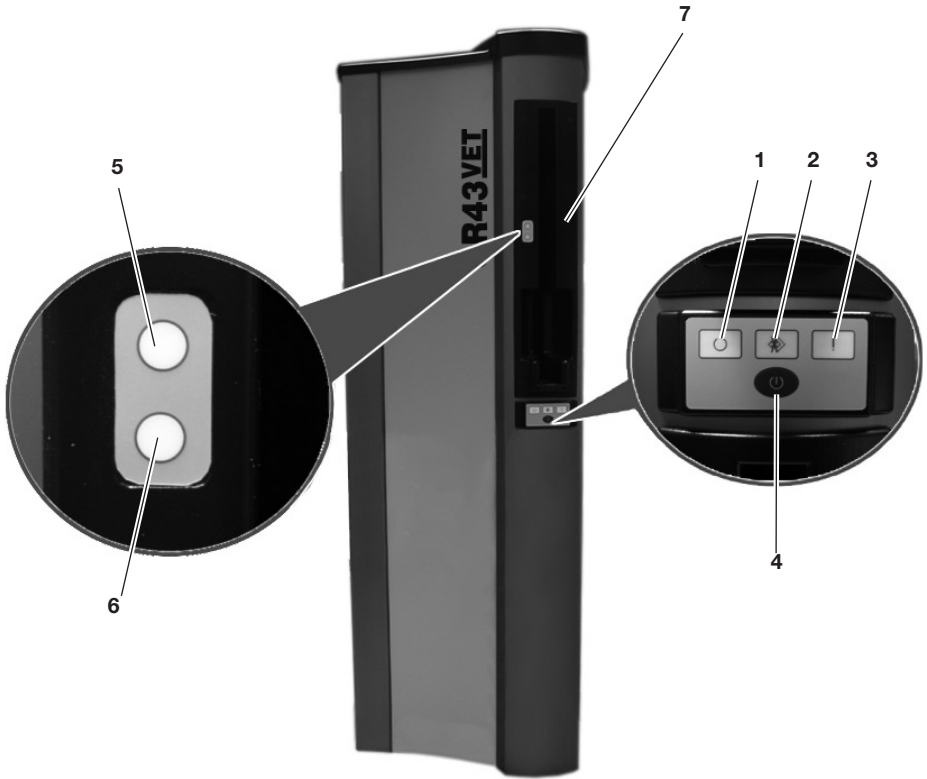


A warning message is displayed after the 25,000 cycles. The cassette can continue to be used.
After 27,500 cycles, the cassette must be replaced in order to avoid incorrect diagnoses or defects.

Guarantee Exclusions: Excluded from guarantee are image plate cassettes of third-party manufacturers, image plate cassettes that have had their RFID chip manipulated and image plate cassettes that have been subjected to temperatures that could affect the functionality outside the intended usage or mechanical damages that could affect functionality or that have their safe functionality affected in any way. The guarantee is also excluded in case of any faulty functionality of the scanner itself because of improper maintenance or other third-party-induced function influence of any kind. The guarantee for wear or faulty functionality because of increased X-ray or gamma-ray loading is also excluded.

7. Functional Diagram

EN



7.1 Function of individual components

1 LED white

The appliance is ready for operation

2 LED blue

LED out: Communication to PC established

LED lit: Communication to PC interrupted

3 LED red

LED lit: Error

4 ON/OFF button

Press the button to switch ON and OFF.

5 LED yellow

Lights up during processing of a cassette.

6 LED green

Lights up when the cassette slide is ready.

Flashes when the process has been completed.

7 Cassette slide

The cassette is inserted into the appliance via the cassette slide.

8 Cassette

The cassette contains the image plate and prevents image data from being deleted due to exposure to foreign light. The cassette protects the image plate from mechanical damage.

9 Cassette lock

The cassette is locked via the recesses during removal of the image plate.

10 Transponder

Information such as cassette size and serial number of the cassette is stored on the transponder and is read out when the cassette is inserted.

11 Opening in the cassette

The integrated image plate is taken out of the cassette via the cassette opening for scanning.

12 Scanner (RFID - external)

The information stored on the transponder such as cassette size and serial number of the cassette is scanned using the scanner. The software interface ensures a reliable assignment of the X-ray to an animal owner or animal and the desired examination.

8. Functional Description

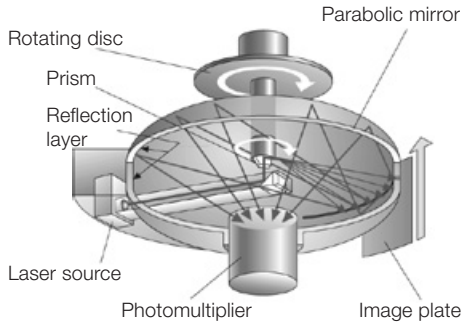
CR 43 VET transforms the image data stored on the image plate into a digital image.

X-ray

The cassette with the integral image plate is placed into the X-ray appliance and exposed.

Reading out the image data

The CR 43 VET is switched on by pressing the ON/OFF button. The scan mode is then activated (via the interfaced PC and the software). The cassette with the exposed image plate is then pushed into the cassette slide as far as possible. The cassette is automatically drawn in and locked. In the cassette is a transponder that transmits the identification data of the cassette to the scanner when the cassette is pushed in. This ensures that the scanned image is assigned to the correct animal owner or animal. The image plate is drawn automatically onto the scanner slide by the transport mechanism. The scanner slide with the image plate moves past the scanner unit where the image data are scanned. The status of the image scanning is displayed in a window on the monitor of the interfaced PC. After scanning, the image plate passes through the erasure unit. There the image plate is erased. The image plate is then pushed back automatically into the cassette by the transport mechanism.





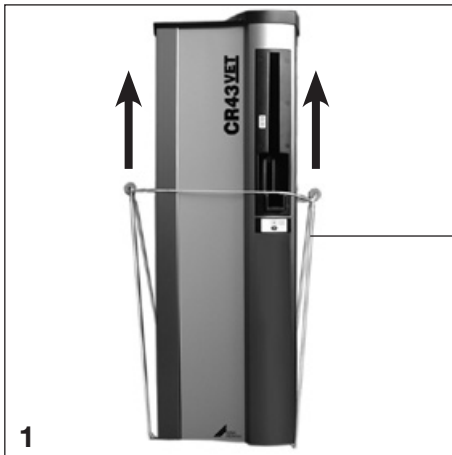
Installation



Only qualified specialists or persons trained by DÜRR MEDICAL may install, connect and commission the appliance.

9. Transport and packaging

- Transport the appliance only in the original packaging.
- Check that the delivery contents are complete and check for any signs of transport damage.
- Carefully remove the packaging. Do not use a knife in order to avoid damaging the surface and other delicate parts of the appliance.
- Do not expose the CR 43 VET to severe vibrations during transport as delicate components in the appliance could be damaged.



10. Carrying the CR 43 VET

Carry the appliance only at the transport aids (13) installed at the factory.

If the appliance is carried in any other way (e.g. on the base, cover, cassette slide) there is a risk of injury or delicate parts could be damaged.

11. Set-up

11.1 Installation room

- Install the CR 43 VET only in a closed, dry and well ventilated room.
- The room temperature must not drop below +10 °C in winter or exceed +35 °C in summer.



Danger of short circuit due to build up of condensation.

The system can only be put into operation once the appliance has warmed up to room temperature and is dry.

- Installation in a purpose-built room, e.g. in a boiler room or in a wet room is not permitted.
- The unit has been designed for use in laboratories, especially for measuring and testing applications.

Do not expose the appliance to direct sunlight, e.g. near windows. The ambient light must be reduced, if necessary. The maximum light intensity is 1500 lux.

- There must be no source of interference in the room for set-up (e.g. strong magnetic field). Interference fields may cause malfunctions in the appliance.
- This appliance is not equipped with its own main power switch. Therefore, the appliance must be set up in such a way that the socket outlet is easily accessible in case of a possible fault and that this is situated within the maximum cable length of 3 m.
- Set up the appliance so that there is no interference to other appliances by the read-out process of the scanner and the RFID system of the CR 43 VET. Do not set up the appliance in the vicinity of animals.
- Set up the appliance so that it is not in the path of the X-rays.

11.2 Set-up alternatives



In order to avoid errors during scanning of the image data, always install the appliance horizontally and on a solid surface where it is not exposed to vibrations.

Table set-up

CR 43 VET can be set up as a tabletop appliance.



Observe the maximum load-bearing strength of the table.

The table must have an adequate load-bearing strength.

The table and appliance must be set up so that there is no danger of tipping over.

Mobile use

The appliance can also be installed in a motor vehicle for mobile use.

The appliance must thereby be

- Transported so that it is protected from vibrations (damped / <17 g).
- Operated so that it is free from vibrations.

Level adjustment

The front foot (14) with knurled surface is adjustable.

See point 13.2 Aligning the appliance.



12. Electrical Connections

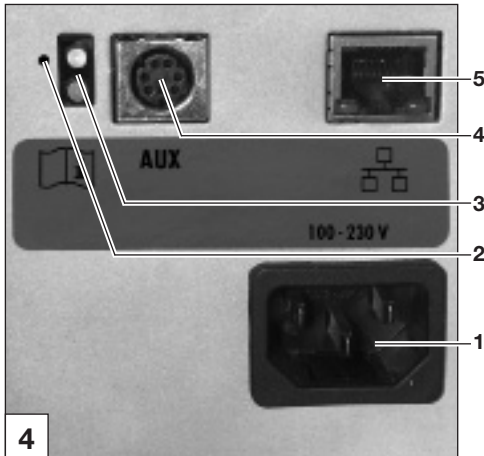
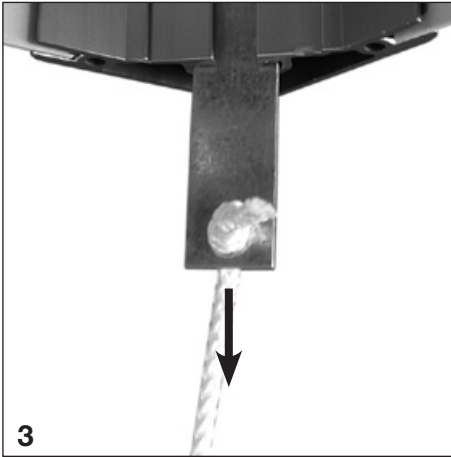
Before start-up, check the mains voltage against the voltage indicated on the model identification plate.

The connection ports are located in the recess on the rear of the appliance.

- Insert the mains cable supplied into the mains jack on the appliance.
- Plug the mains cable into the mains supply socket.



This appliance is not equipped with its own main power switch. Therefore, the appliance must be set up in such a way that the socket outlet is easily accessible in case of a possible fault and that this is situated within the maximum cable length of 3 m.



13. Commissioning

13.1 Remove the transport aids

- When the appliance has been moved to its intended location, remove the transport aids by tilting the appliance slightly.

i The transport aids should fall out on their own when the appliance is tilted. If this is not the case, pull briefly downwards on the cord.

13.2 Setting up the appliance

The front foot (14) of the appliance is adjustable. The adjustment range is ± 3 mm.

- Set up the appliance at its intended location.
- Carefully tilt the appliance slightly to the rear. Adjust the foot, if necessary, until the appliance is standing firmly on all four feet.

13.3 Installation and configuration

i Perform the installation and configuration according to the attached operating instructions "Installation and Configuration CR 43 VET", Order No. 9000-608-60/01.

Connections and displays

1 Mains connection:

For connection of the appliance to the mains power supply.

2 Reset button:

Pressing and holding the Reset button for 15 - 20 seconds while switching on returns all network settings of the unit to the original factory settings. Reset is confirmed and the device display shows "Factory Reset".

3 Status LEDs:

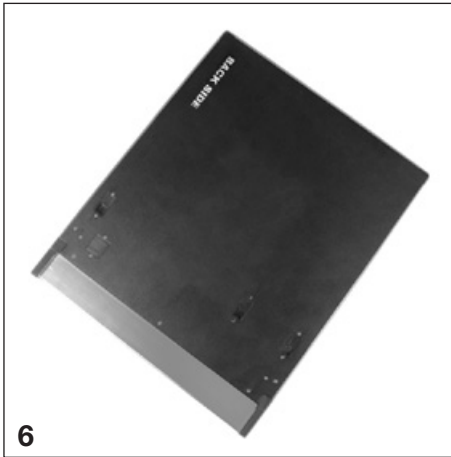
Display of the appliance status for service purposes.

4 AUX port:

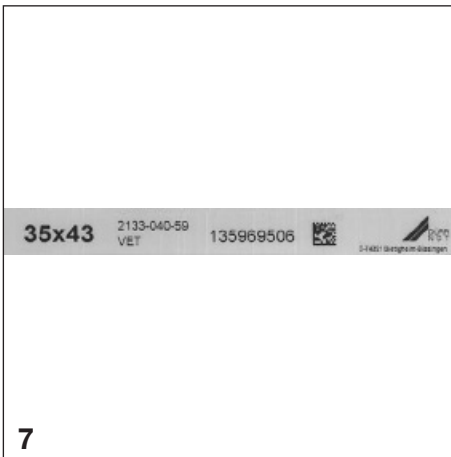
Programming and test interface. For service purposes only.

5 Network port:

For connection of the appliance to the network.



6



7



Usage

14. Cassettes



The scanner may only be operated in combination with cassettes from Dürr NDT or DÜRR MEDICAL. Other cassettes are not compatible with the appliance and could damage the appliance.

Cassettes

- Protect the image plate from light, soiling and mechanical damage.
- Prevent the erasure of image data on the image plate.
- Are positioned at the cassette slide of the appliance.
- Are designed for approx. 25,000 cycles. After this time the cassettes should be replaced in order to avoid incorrect diagnoses or defects.
- Can be briefly exposed to higher surface temperatures as the surface is made of aluminium.

14.1 Identification of the cassettes

General identification: The size, order number and identification number are shown on a label on the narrow side.

Active side: The active side is not labelled.

Passive side: The passive side is marked "BACK SIDE".

14.2 Handling of cassettes

Inspect cassettes for visible damage. Damaged cassettes (e.g. visible scratches that could impair the diagnosis) must be replaced.

- Do not bend or expose to extreme pressure!
- Do not scratch or soil!
- Do not immerse cassettes in liquids and do not spray with liquids. We recommend the use of protective sleeves, Order No. see point 4.1.

14.3 Storage of cassettes

- Do not store in hot or moist conditions.
- If the cassette is stored for longer than 24 hours, it must be erased again before the next X-ray exposure.



- If stored in the X-ray room, the cassettes must be protected against exposure to X-ray radiation.

15. Reader

i The reader does not form part of the scope of supply of the scanner. Please order as required!

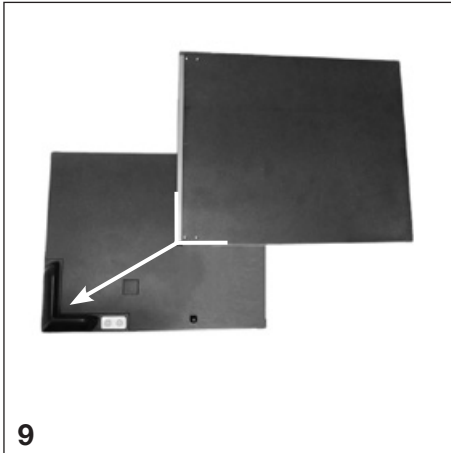
15.1 General

The reader reads the information stored on the cassette, such as cassette size and serial number and transmits this to the software used for unambiguous allocation to an animal (or to the desired examination).

i The point at which the reader is used to read out the cassette information during the course of the process depends on the software used.

	Appliance ready for operation
	Cassette detected, information is read out.
	Cassette read, cassette can be removed.
	Appliance not ready for operation.

ON OFF Flashing



15.2 Reading procedure



Dirt or contamination on the scanner:

The cassette must be clean before scanning. Otherwise the scanner can become contaminated or dirty.

In the event of contamination of the cassette:



Risk of infection!
Wear protective gloves.

- Remove coarse soiling with a damp cloth.
- Spray disinfectant (e.g. Orochemie B30) onto a soft, lint-free cloth and wipe off the soiling.

Green LED lit

- Place the cassette onto the reader with "Back Side" facing downwards and the opening towards the corner stop.
- Push the cassette completely into the corner of the stop.

Green and yellow LED lit

- Cassette detected. The data have been read out and transmitted.

Green LED flashing

- Remove cassette from reader.

16. X-ray

16.1 Preparation for X-raying



Image plates are pre-exposed by natural X-ray radiation and scattered X-ray radiation.

When the cassette is used for the first time or after storage for more than 24 hours, the image plate must be erased again before use. See also point 16.5 Erasing the image data.

16.2 X-ray exposure

- Position the cassette in the normal way. The inactive side (marked with "BACK SIDE") must be facing away from the x-rays.



Liquids can destroy the image plate on the inside of the cassette and the cassette can become contaminated. Protect cassettes from liquids and contamination. We recommend using protective glasses (see special accessories).

- Taking the X-ray exposure.



The image data must be read out within 30 minutes of the exposure in order to avoid any loss of information.

16.3 Preparation for reading out the image data



Dirt or contamination of the CR 43 VET VET

The cassette must be clean before scanning the image data. Image data loss, dirt or contamination to the inside of the scanner can be the result otherwise.

In the event of contamination of the cassette:



Risk of infection!
Wear protective gloves.

- Remove coarse soiling with a damp cloth.
- Spray disinfectant (e.g. Orochemie B30) onto a soft, lint-free cloth and wipe off the soiling.







10




11

16.4 Reading out the image data


Description of the main control panel

-  ON/OFF button
-  Ready for operation
-  Data transmission
-  Fault

- Switch on the CR 43 VET with the on/off button.
- Start the computer.
- Start the software.

 The sequence of the read-out procedure can differ, depending on the software used. See also the manual of the software used.


- Select measure for the animal.
- Activate CR 43 VET in the software.

 Observe the LEDs at the cassette slide of the scanner.

Green LED on the cassette slide is lit:

- Place the cassette into the cassette slide and push into the appliance straight.

The cassette is automatically locked and the image plate drawn in for the scanning process. The cassette then moves back slightly, but remains locked.

 This movement closes the light protection flaps.

Yellow LED on the cassette slide is lit:

Cassette drawn in and locked. Read-out procedure running.









The appliance must not be exposed to vibrations during the read-out procedure.

Green LED on the cassette slide flashes:


- Remove cassette from the cassette slide.

Description of the LED on the cassette slide

Cassette slide	
	Appliance not ready to receive the cassette
	Cassette slide enabled, cassette can be pushed in.
	Cassette drawn in and locked.
	Remove cassette.
	Cassette was inserted incorrectly (RFID was not recognised)
	Cassette was ejected again or slide refuses to accept the cassette (no matching order)

 or  ON

 OFF

 Flashing

16.5 Erasing the image data

After scanning, the image plate automatically runs through the erasure unit. There the image data on the image plate are automatically erased. The image plate is then transported back into the cassette.

To erase again:

The image plate in the cassette has to be erased again if:

- The cassette is stored for longer than 24 hours.
- The image data on the image plate were not erased due to a fault in the CR 43 VET.

Proceed as follows:

- Select a mode with low resolution in the software used.
- Click "Scan".



Observe the LEDs on the cassette slide.

Green LED lit:

- Place the cassette into the cassette slide and push into the appliance straight.
The cassette is automatically locked and the image plate drawn in for the scanning process.

Yellow LED on the cassette slide is lit:

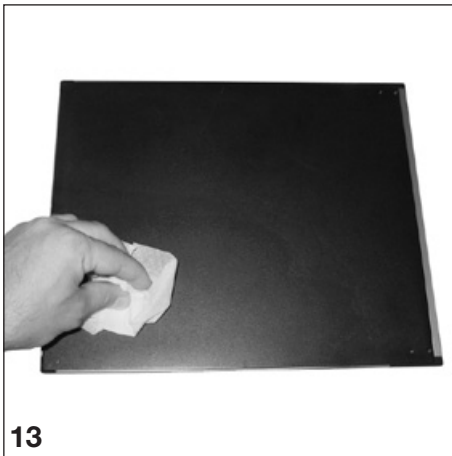
Cassette drawn in and locked. Erasure process running.



The appliance must not be exposed to vibrations during the erasure procedure.

Green LED on the cassette slide flashes:

- Remove cassette from the cassette slide.



17. Cleaning



Only cleaning preparations approved by DÜRR MEDICAL may be used. Other cleaning preparations can damage the appliance and accessories.



Risk of infection!
Wear protective gloves.

17.1 CR 43 VET



Damage to the CR 43 VET:
Do not spray the appliance with disinfectant solution!
No kind of fluid must get into the inside of the appliance. This might damage the appliance.

- Clean the surface of the appliance with a damp cloth.
- Disinfect the surface using a non-aggressive disinfection wipe (e.g. Orochemie B60) for wipe disinfection.



See instructions for use of the disinfectant and cleaning agent.

17.2. Cassettes



Damage to the cassettes:
Do not spray the cassettes with a cleaning agent or disinfectant!
The image plate in the cassette will be destroyed by liquids. Clean only by wiping.
Visible soiling must be removed before further use of the cassettes.

In the event of soiling of the cassette:

- Remove coarse soiling with a damp cloth.
- Spray disinfectant (e.g. Orochemie B30) onto a soft, lint-free cloth or disinfection wipe (e.g. Orochemie B60) and wipe to remove the soiling.
- The cassette must be completely dry before it is used again.



17.3. Reader



**Damage to the reader:
Do not spray the appliance with
disinfectant solution!
No kind of fluid must get into the
inside of the appliance. This might
damage the appliance.**

- Clean the surface of the appliance with a cloth.
- Disinfect the surface using a non-aggressive disinfection wipe (e.g. Orochemie B60) for wipe disinfection.

18. Maintenance



Maintenance must be carried out by a specialist approved by the manufacturer.

Maintenance interval

The appliance must be serviced at regular intervals, but at least once a year.

The scope of the maintenance depends on the number of operating hours and the degree of soiling.



Troubleshooting

19. Tips for Operators and Service Technician

Repair work, above and beyond the standard maintenance, is only to be performed by qualified technicians or our service technicians.



Before starting repairs or opening the appliance, remove the mains plug from the plug socket.

Problem	Possible cause	Solution
1. CR 43 VET will not switch on	<ul style="list-style-type: none"> No supply voltage On/Off button is defective 	<ul style="list-style-type: none"> Check the mains cable and all connections Check the mains fuse to building Inform your Service Technician
2. CR 43 VET switches off after a brief period	<ul style="list-style-type: none"> Mains cable not properly plugged in Hardware defective Mains supply voltage too low 	<ul style="list-style-type: none"> Check the mains cable and all connections Inform your Service Technician Check the supply voltage
3. Status or operating LED does not light up	<ul style="list-style-type: none"> LED defective 	<ul style="list-style-type: none"> Inform your Service Technician
4. Loud running noises after switch-on	<ul style="list-style-type: none"> If noises do not disappear after 30 seconds, defect on the radiation deflector 	<ul style="list-style-type: none"> Inform your Service Technician
5. Software does not recognize CR 43 VET	<ul style="list-style-type: none"> CR 43 VET not switched on Connecting cable between CR 43 and network loose PC does not detect connection with CR 43 VET Hardware fault 	<ul style="list-style-type: none"> Switch on CR 43 VET Check the network cable Driver not installed or inactive Check the network cable Check IP addresses Inform your Service Technician
6. Appliance does not react	<ul style="list-style-type: none"> CR 43 VET has not completed start process CR 43 VET is blocked by the firewall. 	<ul style="list-style-type: none"> The appliance takes approx. 20-30 seconds to boot after switching on. Repeat the procedure again after this time. Enable the ports for the appliance in the firewall.
7. Cassette is not drawn into the cassette slide	<ul style="list-style-type: none"> Cassette not properly engaged Cassette not pushed in correctly CR 43 VET is not ready 	<ul style="list-style-type: none"> Position the cassette correctly Position the cassette correctly Activate CR 43 VET

Problem	Possible cause	Solution
8. X-ray image does not appear on the screen after scanning	<ul style="list-style-type: none"> Image data on the image plate of the cassette were erased, e.g. by natural or scattered X-ray radiation Problem with the hardware X-ray device is faulty No image information on the image plate of the cassette 	<ul style="list-style-type: none"> Image data on the image plate must be read out as quickly as possible after removal Inform your Service Technician Inform your Service Technician Expose the image plate
9. X-ray too dark / light	<ul style="list-style-type: none"> Wrong brightness/contrast setting in the software 	<ul style="list-style-type: none"> Set the brightness of the X-ray via the software
10. X-ray unclear	<ul style="list-style-type: none"> X-ray dose too low 	<ul style="list-style-type: none"> Check the X-ray parameters
11. Ghosts and shadows on the X-ray exposure	<ul style="list-style-type: none"> Image data on the image plate in the cassette were not sufficiently erased 	<ul style="list-style-type: none"> Erase the image plate of the cassette again
12. CR 43 VET does not appear in the selection list in CRConfig	<ul style="list-style-type: none"> Appliance is connected behind a network router. 	<ul style="list-style-type: none"> IP address, without router in between, configure on CR 43 VET. IP address, without router in between, configure on CR 43 VET. Enter the IP address manually in CRConfig and register the appliance.
13. Image appears shadowy on the scan window Software cannot combine data to make a complete image	<ul style="list-style-type: none"> The X-ray dosis on the image plate was insufficient The reinforcement is set to low (HV value) The selected scan mode is not suitable The setting for the threshold value is too high 	<ul style="list-style-type: none"> Increase X-ray dosis Increase reinforcement Select suitable scan mode Reduce setting
14. When starting "Vet-Exam", an error message appears	<ul style="list-style-type: none"> CR 43 VET has a conflict with another appliance 	<ul style="list-style-type: none"> In "CRConfig", set the CR 43 VET or the like to "demo without scanner".
15. X-ray image has stripes	<ul style="list-style-type: none"> The selected scan mode is not suitable The setting for the threshold value is too high 	<ul style="list-style-type: none"> Select suitable scan mode Reduce setting
16. Warning message: "Too much ambient light"	<ul style="list-style-type: none"> CR 43 VET is subjected to too much light 	<ul style="list-style-type: none"> Darken the room Turn the CR 43 VET so that the light does not shine directly on the cassette slide

Problem	Possible cause	Solution
17. Pale stripes in scanning window	<ul style="list-style-type: none"> • Too much ambient light entered during scanning 	<ul style="list-style-type: none"> • Darken the room • Turn the CR 43 VET so that the light does not shine directly on the input unit
18. Narrow images with light and dark streaks appear in addition to the correct image	<ul style="list-style-type: none"> • Ambient light entered during scanning 	<ul style="list-style-type: none"> • Darken the room • Turn the CR 43 VET so that the light does not shine directly on the cassette slide
19. Blue LED out	<ul style="list-style-type: none"> • No connection between CR 43 VET and PC 	<ul style="list-style-type: none"> • Activate CR 43 VET via the software

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