

Gebrauchsanweisung und Medizinproduktebuch

Videomatic ECO



Reinecker Reha-Technik GmbH
Sandwiesenstraße 19 · D- 64665 Alsbach-Hähnlein
Tel. 06257 / 93111-0 Fax 06257 / 2561



Konformitätserklärung

Declaration of conformity

Wir erklären in alleiniger Verantwortung, dass das Produkt
We declare under our sole responsibility that the product

Videomatic ECO

auf das sich diese Erklärung bezieht, mit der /den folgenden Normen oder
normatischen Dokumenten übereinstimmt.
to which this declaration relates is in conformity with the following guidelines.

Siehe Technical Files
Compare technical files

Videomatic ECO Kapitel 8 *Videomatic ECO Chapter 8*

Es entspricht damit den Bestimmungen der folgenden Richtlinie:
it corresponds to the rules of the following guidelines

Richtlinie 93/42/EWG
des Rates vom 14. Juli 1993 über Medizinprodukte
Klasse I nach Anhang VII

Guideline 93/42/EWG
of „The Council of 14th June 1993 about medical products“
Class I / Annexe VII

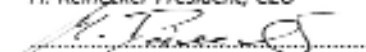
Die CE- Kennzeichnung auf dem Gerät dokumentiert diese Übereinstimmung.
The CE mark on the system points out this accordance.

Alsbach-Hähnlein,

24.10.2007

Ort und Datum der Ausstellung
Place and date of issue

M. Reinecker Geschäftsführer
M. Reinecker President, CEO


Name und Unterschrift des Befugten

Name and signature of the authorized person

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***Important notes on the operation of
Videomatic ECO***

- Read these notes carefully before initial operation -

1. Notes on the electromagnetic compatibility (EMV)

The opto-electronic reading device is suited for use in all set-ups including the domicile that are connected directly to a public mains supply that powers buildings for residential purposes.

The opto-electronic reading device is designed for use in the indicated electro-magnetic environment. The customer or user should ensure the use in the indicated environment.

The opto-electronic reading device operates on HF-energy exclusively for its own function. Therefore the emitted interference of high frequency disturbances is very low and the possibility of disturbing other appliances operated close-by is improbable.

When operating the system simultaneously with other systems, however, the possibility of disturbances of the system or other systems should not be neglected.

For this reason it should be ensured that the system is not placed directly beside or on top of another system.

If the set-up of the system in the proximity of medical, analogical measuring devices cannot be avoided, the operator of these devices has to be informed that it is necessary to observe the performance of the system to control the conventional use of the system in the chosen set-up.

Electronic devices are sensitive towards electric discharge and towards high-frequency electro-magnetic fields.

In order to avoid high-frequency disturbances the operator should respect a minimum distance of one meter to portable and mobile HF-telecommunication devices.

User Manual, please read carefully!

Product description

Electronic reading devices magnify text or pictures. The text or pictures are picked up by the camera and are displayed on the integrated screen.

Purpose

Reading systems are medical devices to assist with the reading of printed text. Visually impaired people compensate for their deficiency or illness by using this device. The devices are conceived for installation in closed and dry rooms exclusively. In medical environments this device must not be operated on the same electrical circuit as devices for purposes of maintaining life. This device must not be operated in explosion-endangered environments.

Product life

Seven years from the date of production, assuming recommended maintenance work is carried out.

Security advice

This device should not be operated in explosion-endangered environments. This opto-electronic device should only be installed in conjunction with modern electrical circuitry. It is a device of a protection class I. The openings in the casing ensure optimum cooling and must not be covered.

!please note!

Make sure that no liquids get inside the unit.

Classification of degree of protection / Type B



The systems are classified according to type B. Should the leakage current of the entire unit exceed the maximum admissible value by using a monitor with excessive leakage current, in the worst case a prickle in the fingers occurs.

Initial installation

The VGA monitor and the camera system have to be removed from the special packing. The camera system has to be placed on a solid base. The height adjustable tables by Reinecker Reha-Technik GmbH are well-suited for this purpose. The VGA monitor has 4 plastic stands at the lower surface. On the cover plate of the camera system 4 dents are situated for these plastic stands. The monitor has to be placed on the camera system to fit the plastic stands into the dents. In this way a stable position of the monitor is ensured.

Connection of a monitor

Only connect a monitor tested according to EN 60601-1-1.

The maximum tolerable weight for the camera system

The pressure on the camera system must not exceed 15 kilos.

Operation

Connect the camera system with the power cable supplied to a state-of-the-art socket. At the reverse side of the camera system the feeder for the VGA monitor is situated. The mains supply and the VGA cable of the monitor have to be connected to the camera system. The VGA plug has to be secured against loosening with the two screws supplied. The system is now ready for operation.

Accessories - Feeder

Only the original feed cable of Reinecker Reha-Technik Order number: 30059 has to be used as feeder.

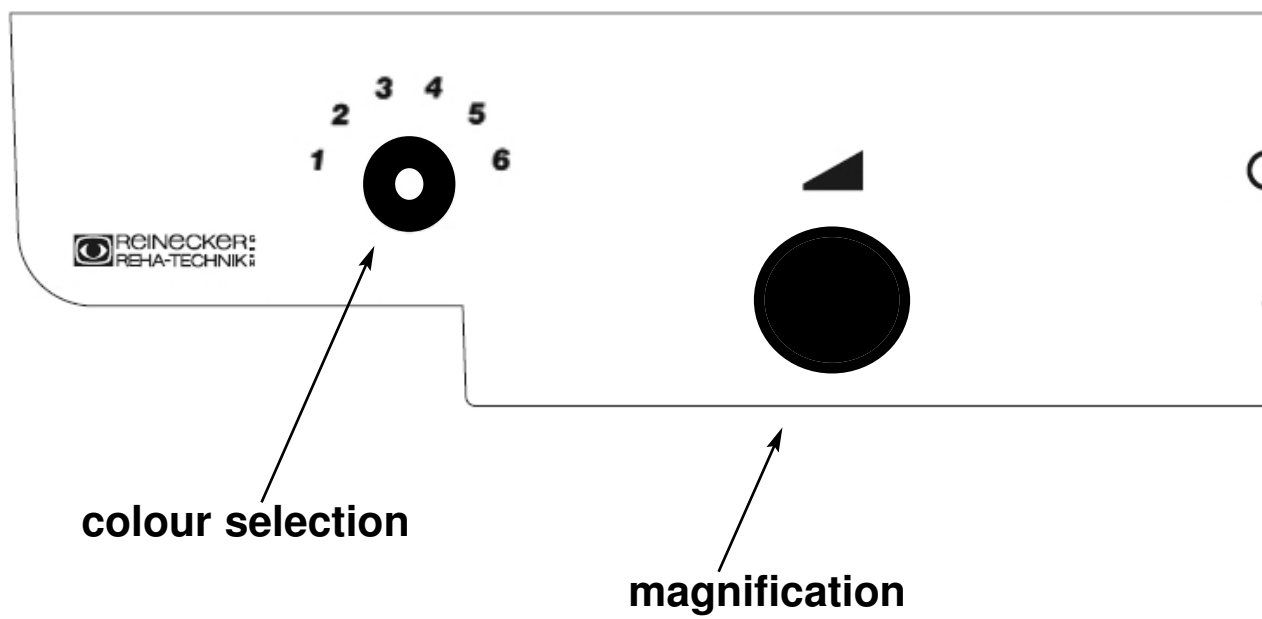
!please note!

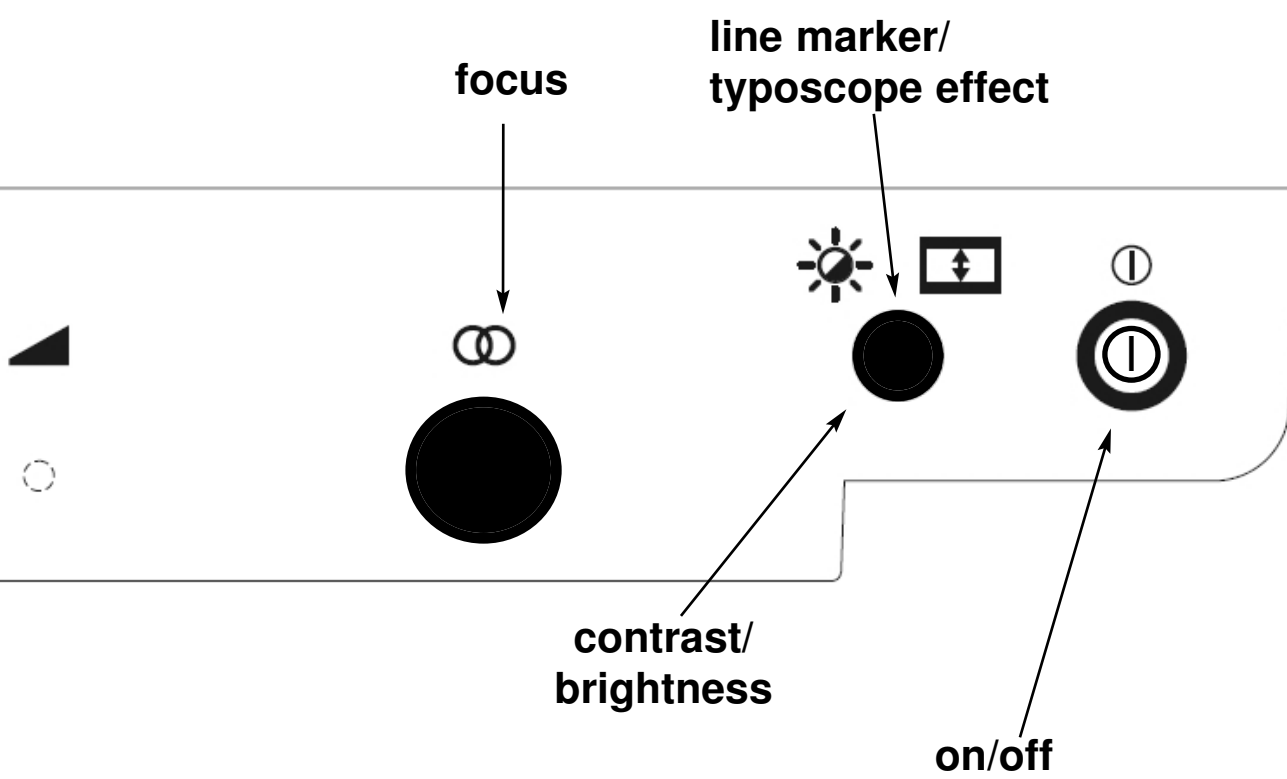
The use of others than the accessories specified can lead to an increased emission and / or reduced immunity.

Operation

At the front of the VGA monitor the controls for the basic settings are situated. Please compare the user manual of the monitor to adjust the optimum settings. During the operation the modification of the display is done exclusively with the controls of the camera system

Videomatic ECO

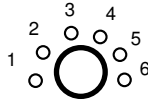




Controls



ON / OFF



Colour selection



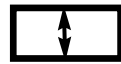
Magnification



Contrast / Brightness



Focus



Line marker / blanking

ON/OFF (power switch)



By pressing the power switch ① on the right side of the control panel of the camera system the unit is switched on, the x/y table is illuminated

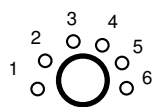
!please note!

When the device is switched on the integral illumination system will automatically illuminate the reading material positioned on the x/y table.

If the x/y table is not illuminated after switching the unit on, please control if the plugs of the feeders (both monitor and camera system) are firmly connected to the sockets.

Reading material should be put on the reading device.

Colour selection



With the control ② the following background colours can be selected:

- Position 1: photo mode*
- Position 2: white text, black background
- Position 3: black text, white background
- Position 4: green text, black background
- Position 5: yellow text, black background
- Position 6: yellow text, blue background


***Tip - when to use the photo mode:**

The photo mode allows the crystal clear presentation of detailed reading material in enhanced black and white format. This mode is particularly helpful when attempting to read faint text or print of varying degrees of grey scale often found in legal documents, archive material and photocopied articles.

***Optional** instead of the photo mode: full colour mode.

Contrast / Brightness:

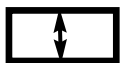


Setting the contrast with the  control influences the difference between bright and dark parts of the screen. Contrast and brightness are adjusted at the same time.

low contrast; low brightness (stop position left)

maximum contrast; maximum brightness (stop position right)

Line marker / Typoscope effect



This controller has a double function.




When pressed in and rotated it controls the brightness and contrast levels on the monitor. When pulled out and rotated clockwise the knob adjusts the height and position of the line marker. By turning the knob anticlockwise it will control the height and position of the typoscope effect. Both line marker and typoscope effect operate across the entire monitor field.

Adjustment of magnification and focus

The range of magnification of this video magnifier is approx. x4 - x35 magnification when using a 42 cm (17") CRT monitor, approx. x4,5 - x40 with a 43,5 cm (17") TFT monitor and approx. x5 - x45 with a 48,5 cm (19") TFT monitor.

The magnification depends on the distance between the document and the camera.




By turning the control  to the right limit stop, the maximum magnification level is achieved. By turning the control  to the left or the right the display can be adjusted to optimum focus. Afterwards the desired magnification is adjusted with the control .



!please note!

As a book is thicker than a letter, the distance to the camera differs. For this reason the focus has to be readjusted. This applies also to texts with different font size. A correction of the magnification adjusted might be necessary.

Switch the unit on, as described, the x/y table is illuminated.

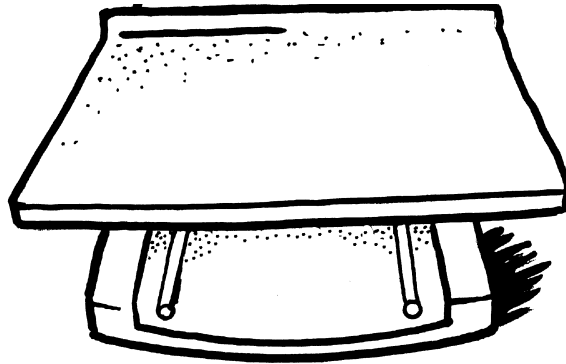
Place a document on the x/y table.

If the screen is dark, turn the control for contrast and brightness  to the right until the document appears on the screen of the monitor (the document does not have to be in focus yet).

To focus the display on the monitor turn the magnification control  to the right limit stop, afterwards adjust the display by turning the focus  control. By turning the magnification control you can now adjust the magnification as desired.

Operation of the x/y table

The use of x/y table is quick and easy to learn.
The x/y table may be moved in all directions.



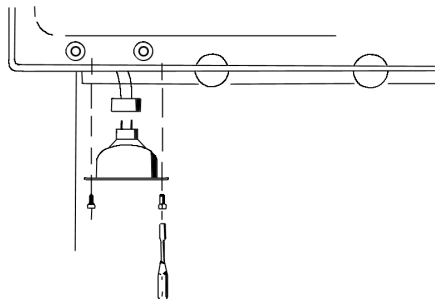
!please note!

The x/y table is only to be used for reading. Do not place anything within the movement area of the x/y table.

Changing the lamps

Attention! Before replacing lamps, the mains plug must be disconnected!

Videomatic ECO is equipped with 2x20 watt halogen-lamps. If replacement of lamps is required, only original halogen-lamps (order number 26019) shall be used. The replacement shall only be done by a specialist or by Reinecker Reha-Technik GmbH.



Simultaneous operation with other systems

!please note!

The Videomatic ECO must not be placed directly beside or on top of another appliance. The user has to be instructed, that during operation in the proximity of another appliance, it is necessary to observe the performance of the system to ensure the conventional use of the system.

Combination with medical products

If the operator or user intends to run this opto-electronic device together with other medical devices, the written permission of Reinecker Reha-Technik GmbH is required first.

Precautionary measures if problems arise with the unit

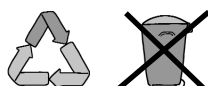
If technical problems do occur, the unit must be switched off immediately and the mains plug disconnected. In this condition, the unit shall not be used! Refer directly to your local dealer or to Reinecker headquarters.

Security checks

Security checks must only be executed by technicians of Reinecker Reha-Technik GmbH or by technicians authorized by the manufacturer. Reinecker Reha-Technik GmbH does not rule deadlines for safety checks. The statements made in §6 MP-Betreiber-Verordnung regarding deadlines - every two years at the latest - are recommended. Statements of the safety condition of a device will be made whilst safety checking according to the standard VDE 0751.

***Environmentally friendly disposal
according to EC directive 2002/96/EG***

The appliance contains electronic components. In order to avoid risks or dangers for the environment through non-professional disposal, the disposal of the product, including all accessories, has to correspond to the valid directives.



Special advice for transport and storage

For reasons of safety, the unit must only be transported and stored in the original packing. The unit must be stored in dry and closed rooms in the original packing.

The following conditions for storage and transport have to be respected:

- Temperature range -10° to + 50°
- Relative air humidity 30% to 80%
- Air pressure 700 - 1000 hPa

Item list

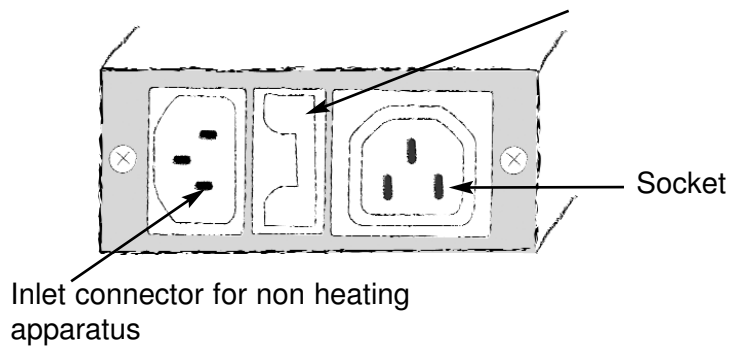
Mains cableArt.-no.: 30059
User manual

Cleaning

- Before cleaning the system has to be disconnected.
- Clean monitor and casing with glass cleaner.
- No liquids must reach the interior of the system.

Power input socket with fuse

Fuses
2 x T 1,6 AL/250 V
only connect a monitor
tested according to
EN 60601-1



Changing the fuses

For security reasons the system has to be disconnected before changing the fuses.

Product Identity

Type:	Videomatic ECO
Serial-Number:	
Manufacturer:	Reinecker Reha-Technik GmbH
Supplier:	
Date of supply:	
* Operator: 1.	6.
2.	7.
3.	8.
4.	9.
5.	10.
Final examination:	
Date of despatch:	
Power supply:	100 - 240 VAC 50/60 Hz
Power consumption:	approx. ca 90 Watt
Screen measurements:	17" w = 325 mm, h = 245 mm
Installed by:	
** First safety check:	

* **!please note!** In case of changing the operator, the new operator has to be entered in the following column.

** If re-using the unit, a new safety check is required!

Operating and using
§ 5 Abs. 1 MP BetriebV

- 1. Performance test**
- 2. Instructions**

Date Initials/Stamp	Manufacturer/ Supplier	Person responsible	Initials/Stamp

Malfunction or repeated similar errors in operation

§ 7 Abs. 2 Pkt. 6 MP BetriebV

Date	Description of measures and results	Initials/Stamp

Measures of maintenance

Maintenance/Inspection/Repair

Date	done by Technician/company	Brief description of measures	Initials/Stamp

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Security checks

§ 6 MP BetriebV

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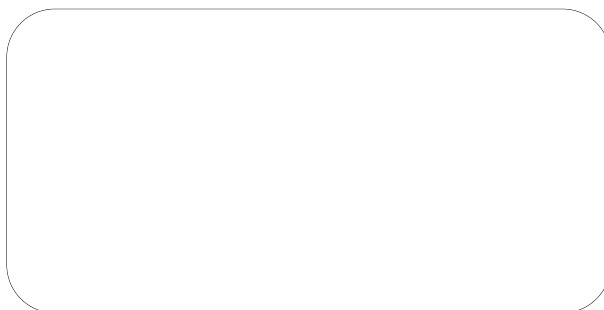
Warranty Information
(Valid only within the European Union)

- 1) Reinecker Reha-Technik GmbH grants a warranty of 24 months against defects in manufacture counted from date of invoice ex Reinecker Reha-Technik GmbH.
- 2) All parts that have been replaced when repairing the unit will automatically become property of Reinecker Reha-Technik GmbH.
- 3) Damage caused by improper use or by non-compliance with the operating instructions will result in the invalidation of the warranty.
- 4) Interventions from persons other than Reinecker Reha-Technik GmbH authorised specialists may lead to invalidity of warranty.
- 5) Not included in this warranty are lamps, batteries, mirror, glass, bulbs and other parts subject to wear and tear.
- 6) If a warranty claim is necessary, the system has to be returned to the manufacturer in Alsbach-Hähnlein or to your authorised dealer. The manufacturer does not carry the cost for transport, packaging and insurance.

phone number: +49(0)625793110

View our General Terms and Conditions.

Your authorized distributor:



Headquarters Germany and Export

*Development, Production,
Sales, Service*

Reinecker Reha-Technik GmbH
Sandwiesenstraße 19
DE- 64665 Alsbach-Hähnlein
Tel.: +49 (0) 62 57 93 11 0
Fax: +49 (0) 62 57 25 61
Email: info@reineckerreha.com
www.reineckerreha.com

Zentrale Deutschland und Export

*Entwicklung, Produktion, Vertrieb,
Kundenberatung und Kundendienste*

Reinecker Reha-Technik GmbH
Sandwiesenstraße 19
64665 Alsbach-Hähnlein
Tel.: 0 18 05-54 56 65*
*14 ct/min aus dem dt. Festnetz
Fax: 0 62 57 25 61
Email: info@reineckerreha.de
www.reineckerreha.de



**Bitte wenden Sie sich bei Fragen
oder einem Servicefall direkt an unser
Hauptwerk in Alsbach-Hähnlein oder
an eine unserer Niederlassungen.**

**In case service is necessary, please
contact your authorized distributor.**



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