

# Videomatic VEO





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#### **Reinecker Vision GmbH**

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Wir erklären in alleiniger Verantwortung für alle unsere Systeme, dass diese mit den folgenden Normen oder normativen Dokumenten übereinstimmen. We declare under our sole responsibility that the systems, which have been brought

into the market by us, meet the requirements of the following directives.

# Videomatic VEO

Richtlinie 93/42/EWG des Rates vom 14. Juni 1993 über Medizinprodukte Risikoklasse I nach Anhang IX Regel 12 CE Konformität nach Anhang VII und RoHS II (EG Richtlinie 2011/65/EU)

Council directive 93/42/EEC of 14th June 1993 concerning medical devices risk class I according to Annex IX standard 12 CE conformity of Annex VII and RoHS II (Council directive 2011/65/EEC)

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

Alsbach-Hähnlein,

08.10.2015 Ort und Datum der Ausstellung Place and date of issue M. Reinecker Geschäftsführer M. Reinecker Gerleral Manager

Name und Unterschrift des Befugten Name and signature of the authorized person

# Contents

I. General information	6
Notes on the electromagnetic compatibility (EMC)	6
Storage of the user manual	6
Product description	7
Medical device	7
Purpose	7
Life span of product	7
Safety advice	
Combination with other products	8
Precautions by alteration of the performance of the system	8
Reinstatement and installation	8
Cleaning of the system	9
Special advice for transport and storage	
Disposal of the unit according to EU directive 2002/96/EEC	9
Power supply	
Safety instructions	10
II. Instructions for the reading system Videomatic VEO	11
Delivery content.	11
The VEO cameras	11
Vario camera:	11
Focus camera MD:	11
Focus camera RP:	11
Insert/replace batteries in remote control	12
Disposal of batteries	12
Installation of the system.	13
Connection of unit	13
Alignment of monitor	14
Alignment of xy-table	15
Positioning of the remote control unit	16
Description of the 3-buttons remote control unit	17
Turning the unit ON manually	19
Description of the 1-button remote control unit	20
Automatic switch-OFF function	21

_ighting ON/dim/OFF22	2
Overview mode	2
Venu selection	3
Change the menu settings23	3
Exit menu	3
Explanation of the menu content	4
Venu settings	4
Narranty Information	8
Notices	9

# I. General information

Important notes on the operation of the reading system Videomatic VEO! Please read them carefully prior to the operation of the reading system!

# Notes on the electromagnetic compatibility (EMC)

This reading system is suited for use in all set-ups including the domicile that are connected directly to a public power supply for buildings with residential purposes.

This reading system is designed for the use in the indicated electromagnetic environment. The user should ensure the use in the indicated environment.

This reading system operates on HF-Energy exclusively for its own function. Therefore the emitted interference of high frequency disturbances is very low and the interference with other appliances operated close-by is improbable. When operating the reading 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 this system in the proximity of medical, 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 electromagnetic fields.

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

The device may not be used in the patients environment.

#### Storage of the user manual

The user manual is an essential part of your reading system. Please keep the booklet in a safe place for future reference.

# **Product description**

Videomatic VEO is an opto-electronic reading system, which magnifies text and pictures. It may be used permanently for private and professional appliance. The text or pictures are being captured by the integrated camera and then displayed on the monitor.

- High Definition LED flatscreen monitors in three sizes: 19"class- (48cm), 22"class-(56cm) and 24"class- (61cm)
- ergonomic positioning of monitor in four dimensions
- extremely flat, light weight, energy saving and flicker free
- 1080p resolution of complete system = fullHD = 1920 x 1080p based on 22" and 24" class monitors

# **Medical device**

This reading system is classified as a Medical Device, class I according to 93/42/EEC, annexe IX, standard 12. For the distribution to countries outside the EU the respective country-specific guidelines have to be regarded.

# Purpose

This opto-electronic reading system is a medical device to assist with the reading and magnifying of printed text and images. Visually impaired people can compensate for their loss of visual acuity by using this device.

# Life span of product

Seven years from the date of invoice (ex Reinecker). According to EEC the supplier of medical devices is obliged to define the life span of a product.

**Note:** The mentioned life span does not reflect the complete life span of the Videomatic VEO. It is rather an indication on when the product might be obsolete and substitution might be recommended due to new product developments.

# Safety advice

Videomatic VEO has to be installed in closed and dry rooms only. Do not plug Videomatic VEO into an electrical circuit that is also being used for any life sustaining or support systems. The device may not be used in the patients environment.

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 protection class II. The openings in the casing ensure optimum cooling and must not be covered.

# **Combination with other products**

**Warning:** This reading system must not be located directly beside, next or on top of another medical device. If the device is used near another electrical device, monitor the other device to ensure that it is working properly. In case of doubt please contact Reinecker Vision GmbH or any licensed distribution partner.

# Precautions by alteration of the performance of the system

Stop using the reading device if technical features or performances should change. Switch the device off and disconnect the power supply from the mains wall socket.

Refer directly to your dealer or to Reinecker Vision GmbH Service Center.

# **Reinstatement and installation**

This device may be technically maintained and reconditioned by Reinecker Vision GmbH only or by an authorized technician. Reinstatement may only take place after the system has been cleaned and safety checked.

# **Cleaning of the system**

- Videomatic VEO has to be disconnected from the power supply before cleaning.
- The monitor and the system has to be cleaned with glass cleaner.
- Interior of device must NOT come in contact with liquids.

# 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 transport and storage have to be respected:

- Air pressure 700 1000 hPa
- Temperature range +5° to + 50°
- Relative air humidity 30% to 80%

# Disposal of the unit according to EU directive 2002/96/EEC

Videomatic VEO contains of electronic components. In order to avoid damage to the environment, the country-specific rules have to be respected.



# **Power supply**

Only use the original power supply which is included in the delivery by Reinecker Vision GmbH.

Caution: The use of any other equipment might lead to an increased electromagnetic emission and to a product damage.

# **Safety instructions**

Please follow the following safety instructions:

- 1. Do not plug the AC adapter into a faulty electrical outlet. Doing so may cause electrical shock or fire.
- 2. Do not touch the AC adapter with wet hands.
- 3. Only use the original power supply which is included in the delivery by Reinecker Vision GmbH. The use of any other equipment might lead to a product damage.
- 4. Do not expose the system direct sunlight or to very hot or cold environment, as this would harm the picture quality.
- 5. Do not use this device below  $+5^{\circ}$ C or above  $+40^{\circ}$ C.
- 6. No liquids must reach the interior of the system. Only use the device in a dry environment.
- 7. The device may not be used next to medical devices (patients environment).
- 8 Do not lean on the screen, touch the screen with any object or lay heavy objects on the device. This may cause damage to the device.
- 9. Do not try to repair or to dismantle the system by your own. This would automatically void the warranty. If you need any technical assistance please get in contact with the local distributor or with Reinecker Vision GmbH.
- 10. Always switch OFF the system and disconnect it from the power supply before cleaning it. For cleaning please use the screen cleaning cloth or any other soft, lint-free, lightly moistened cloth. Do not use alcohol containing or strong detergents.

# II. Instructions for the reading system Videomatic VEO

#### **Delivery content**

- Reading system Videomatic VEO
- LED-monitor 19"/22"/24"
- Remote control 1-button / 3-buttons
- Power adapter 12V DC / 5000mA
- Adapter cable (country-specific)
- User manual
- Information sheet for repair cases

# The VEO cameras

Videomatic VEO is available in combination with the following three camera types:

#### Vario camera:

- magnification from 1x to 100x (independent of monitor size)
- Autofocus can be activated and deactivated by the use of button or menu (see page 18, 25)

#### Focus camera MD:

- magnification from 4x 20x digital (full colour mode)\*
- magnification from 4x 40x digital (semi colour mode)
- Permanent-Focus-Technology: autofocuses text, pictures or objects automatically

#### Focus camera RP:

- magnification from 2x 10x digital (full colour mode)\*
- magnification from 2x 20x digital (semi colour mode)
- Permanent-Focus-Technology: autofocuses text, pictures or objects automatically

\*Thereafter automatic switch to semi colour mode

# Insert/replace batteries in remote control

The remote control operates on 2 x AA-batteries (1,5V).

- Detach the cover on the flipside of the remote control.
- Put in the batteries and make sure that polarity is correctly matched.
- Replace the cover onto the remote control using marginal pressure.



#### **Disposal of batteries**

Note: Dispose of batteries according to the national guidelines!



# Installation of the system

Your Videomatic system will normally be unpacked and set up by the supplier's representative. If you have not purchased a Videomatic stand that fits to the product you must provide a solid surface for the system with sufficient surface area.

Note: DO NOT remove the CCTV unit by holding it by the xy table.

## **Connection of unit**

Connect the power supply to a mains wall socket and plug the adapter end of the cord into the DC12V power supply socket located on the base of the Videomatic VEO.

**Note:** The delivered power cable is to be used exclusively in connection with the Videomatic VEO.

Once the device is plugged in, it is ready to use.



# **Alignment of monitor**

Due to the monitor's technology contrast and brightness change depending on the angle of view.

The highly flexible four-dimensional monitor arm enables the user to adjust the monitors height and angle according to their seated position (see below).



The monitor can be moved vertically up and down.



The monitor can be rotated to either the left or to the right.



The monitor can be rotated anticlockwise by 90 degrees in order to make column reading easier. The image will adapt automatically to the monitors position.



The monitor can be tilted up or down.

# Alignment of xy-table

The xy-table has two independent friction brakes for the x- and y-axis. The friction can be continuously adjusted from minimum to maximum. The yellow friction brake is used for the x-axis and the black brake for the y-axis.



# Positioning of the remote control unit

There are two remote controls available (one or three buttons) for Videomatic VEO. Depending on which remote control you were choosing different functions will be supported.

The remote control unit may be attached to the VEO reading system on the right side of the xy-table or underneath the monitor. In addition the remote control may also be hold in the user's hand or e.g. placed on the table. Accordingly the user has the opportunity to find the best way of operating the Videomatic VEO based on his personal ergonomic demands.



# **Description of the 3-buttons remote control unit**

# Frontal view:



# Left button:



#### Colour mode selection

By turning the colour mode selection-button from the left to the right the following colour modes can be selected:

Position 1.	full colour display
Position 2.	black font, white background
Position 3.	white font, black background
Position 4.	green font, black background
Position 5.	yellow font, black background
Position 6.	yellow font, blue background

The chosen colour mode appears temporarily on the lower side of the screen (when activated).

**Note:** The above listed colour modes represent the factory settings. Using the menu these colour modes can be adjusted individually.

\*Autofocus only available for Vario camera

## Central ("zoom") button:

# ⊖⊙€

#### Power ON/OFF

By briefly pressing the "Zoom +/-" button, the video magnifier turns ON.

By pressing and holding the "Zoom +/-" button for approx. 4 sec., the video magnifier can be turned OFF manually.

• Zoom + / -

By turning the button to the left and to the right the magnification will continuously change from minimum to maximum.

# • Autofocus\*

By quickly pressing and releasing the central ("zoom") button you can activate/deactivate the automatic focus. By having the autofocus activated the camera adjusts the picture sharpness automatically.

# **Right button:**



#### Contrast / Brightness

This button is equipped with a pull-out function. With the button in the pushed-in position, the combined adjustment of contrast and brightness is activated. Low contrast, low brightness (turned left position), high contrast, high brightness (turned right position).

\*Autofocus only available for Vario camera

# • Line marker / shadowing



By pulling out the control button will activate the line marking and shadowing functions.

Turn this button to choose the area on the screen to be marked by the line marker or to be covered by shadowing.

To deactivate the line marker/shadowing function, push the button back in again.

# Turning the unit ON manually

When the VEO is connected to the power outlet correctly it can be turned on by pushing the central ("Zoom + / -") button.

When the unit powers up lights will initially illuminate and after short time automatically return to the last used brightness level.

**Note:** If the xy table is not automatically lit up please check that the mains power cable has been securely connected to the power brick. If it is correctly connected then manually check the lighting settings on the remote control as lighting may have been manually deactivated (see illustration below).

#### Bottom-up view:



Time adjustment for auto turn OFF Illumination ON/dim/OFF mode, Time adjustment for auto turn OFF, Overviev mode

(Application is the same as with the one button control)

# **Description of the 1-button remote control unit**

Front view:



colour selection

# Central button "Zoom + / -":



# Power ON/OFF

By briefly pressing the "Zoom +/-" button, the video magnifier turns ON.

By pressing and holding the "Zoom +/-" button for approx. 4 sec., the video magnifier can be turned OFF manually.

• Zoom + / -

By turning this button to the left and to the right the magnification will continuously change from minimum to maximum.

# Colour mode

By pushing this button briefly, when the video magnifier had turned ON, the following colour modes can be selected:

Position 1.	full colour display

- Position 2. black font, white background
- Position 3. white font, black background
- Position 4. green font, black background
- Position 5. yellow font, black background
- Position 6. yellow font, blue background

The chosen colour mode appears temporarily on the lower side of the screen (when activated).

**Note:** The above listed colour modes represent the factory settings. Using the menu these colour modes can be adjusted to create custom colours.

#### Bottom-up view:



# **Automatic switch-OFF function**

Videomatic VEO is equipped with an automatic switch-OFF function.

The VEO will automatically switch itself OFF if the remote control of the unit has been inactive for a pre-selected period of time. The automatic turn OFF function can be deactivated or set to one of three possible time frame settings.

By pushing both the black and the yellow button on the bottom side of the remote control simultaneously it will activate the function to change the automatic switch OFF time frame – this can be set to 60 min / 30 min / 15 min / auto OFF (needs to be turned OFF manually).

Release the buttons when the choosen time setting appears. The time setting will then be selected and stored.



Black button Yellow button

Time setting options:

- automatic turn OFF deactivated
- automatic turn OFF after 15 min.
- automatic turn OFF after 30 min.
- automatic turn OFF after 60 min.

**Note:** Once turned OFF the energy consumption of the VEO is less than 0,5 watt.

# Lighting ON/dim/OFF

By pushing the yellow button on the bottom side of the remote control the lighting can be

- turned ON
- dimmed
- turned OFF

When turning OFF the VEO the selected level of illumination will be saved.

# **Overview mode**

When you are working within a higher magnification level and want to find out which part of the page you have reached this function helps you to get the overview.

In order to get an overview when reading at a higher magnification level, push and hold the yellow button for approx. 3 sec. The picture will be zoomed out.

A faded cross will appear and indicates the area that is currently being magnified. Once the central button is released it will return back to the reading mode and selected magnification level.

#### **Menu selection**

Keep the black button (underneath the remote control) pressed for approximately 3 seconds until the main menu appears on the screen.

Main Menu	
Brightness	+50
Contrast	+50
Color Saturation	- 30
Ruler / Mask	OFF
Ruler / Mask Settings	
AF Mode*	Continuous/Zoom
Reset to Factory Settings	
Recall User Settings	
Advanced Settings	
Exit	

\*Autofocus only available for Vario camera

#### **Change the menu settings**

Turn the Zoom +/- button from left to right in order to navigate through the menu. Confirm your selection by pressing the zoom +/- button.

#### Exit menu

Either turn the Zoom +/- button until you reach the menu selection "exit" and confirm it by pressing the Zomm +/- button. Or press the black button underneath the remote control until the menu disappears.

# Explanation of the menu content

The image shows in detail how the menu is structured.

Main Menu	← Menu level 1
Advanced Settings	← Menu level 2
Special Settings	← Menu level 3
Customize Buttons	← Menu level 4
Function	adjustment range   explication

#### **Menu settings**

Main Menu	
Brightness	adjustment range from -50 to +50
Contrast	adjustment range from -50 to +50
Color Saturation	adjustment range from -50 to +50
Ruler / Mask	OFF   deactivate line marker and shadowing
	Ruler   activate line marker
	Mask   activate shadowing
Main Menu	
Ruler / Mask Settings	
Ruler / Mask	OFF   deactivate line marker and shadowing
	Ruler   activate line marker
	Mask   activate shadowing
Ruler Position	0 to 100   adjust line marker position
Mask Position	0 to 100   adjust shadowing
Ruler Mode	Horizontal   anlign line marker horizontally
	Vertical   anlign line marker vertically
Mask Mode	Left/Right   Shadowing left/right;
	shadowing up to 50%
	<b>Top/Bottom</b>   Shadowing top/bottom; shadowing up to 50%
	Left/Right FS   Shadowing left/right;
	shadowing up to 90%
	Top/Bottom FS   Shadowing top/bottom;
	shadowing up to 90%
	Full-Screen   Shadowing covers whole screen
Mask Transparency	50%   25%   0%

Main Menu	
Ruler / Mask Settings	
Ruler Color	
Red	adjustment range from 0 to 31
Green	adjustment range from 0 to 31
Blue	adjustment range from 0 to 31
Main Menu	
AF Mode*	Continuous   Semi-Automatic
	Semi-Autom. +Zoom   Continuous / Zoom
Reset to Factory Settings	Return to factory settings
Recall User Settings	Return to customer selected settings
Advanced Settings	(see overview)

\*Options are only available for the Vario camera. The camera types MD and RP are equipped with the Permanent-Focus-Technology.

Overview:	Advanced Settings	
	Color Combination Setup	
	Anti Reflection Mode	Auto (5)
	Monitor Brightness	100
	Language	English
	Perform White Balance	
	White Balance Mode	Auto
	Sharpness Settings	
	OSD Messages	OFF
	Special Settings	
	Return	
Main Menu	1	
Advanced Settings		
Color Combination Setup		
Color Combination 1-6		
Mada	Disabled   Full Color   Grayscale	

Color Complitation 1-6	
Mode	Disabled   Full Color   Grayscale   False Color
Foreground	Black   Red   Green   Blue   Yellow   Magenta   Cyan   White   User 1   User 2
Background	Black   Red   Green   Blue   Yellow   Magenta   Cyan   White   User 1   User 2
Swap Fore-/ Background	invert foreground and background colours

Main Menu	
Advanced Settings	
Color Combination Setup	
User colors	
User color 1 - Red	adjustment range from 0 to 31
User color 1 - Green	adjustment range from 0 to 31
User color 1 - Blue	adjustment range from 0 to 31
User color 2 - Red	adjustment range from 0 to 31
User color 2 - Green	adjustment range from 0 to 31
User color 2 - Blue	adjustment range from 0 to 31
Main Menu	
Advanced Settings	OFF LON LANSE (0.0) Lediust default value
Anti Reflection Mode*	OFF   ON   Auto (0-9)   adjust default value
Monitor Brightness	adjustment range from 37 to 100
Language	Englisch   German   French   Norwegian
Perform White Balance	execute white balance
White Balance Mode	Auto   One-Push
Main Menu	
Advanced Settings	
Sharpness Settings	
Real Color Sharpness	adjustment range from 0 to 24
False Color Sharpness	adjustment range from 0 to 24
r aloo oolor onarphicoo	adjustition range from 0 to 24

\*Options are only available for the Vario camera. For the camera types MD and RP the anti reflection mode is permanently activ.

Main Menu	
Advanced Settings	
OSD Messages	ON   OFF
Special Settings	(see overview)

Overview:	Special Settings			
	Zoom Extension ON			
	Max. Digital Zoom 3.5x			
	Customize Buttons			
	Store User Settings			
	Recall User Settings			
	Reset to Factory Settings			
	Expert Settings			
	Monitor size Auto	)		
	Return			
Main Menu				
Advanced Settings				
Special Settings				
Zoom Extension	ON   OFF			
Max. Digital Zoom	<b>OFF</b>   adjustment range from 1,5x to 15x			
Main Menu				
Advanced Settings				
Special Settings				
Customize Buttons				
Zoom Push 1K	Disabled   Auto-Focus   False Color			
Zoom Push 3K	Disabled   Auto-Focus   False Color			
Zoom Hold 1K	Disabled   Overview			
Zoom Hold 3K	Disabled   Overview			
Bright. Pull	Disabled   Ruler ON/OFF			
	By pulling the button brightness/contrast, the line marker and shadowing functions will be activated.			
Main Menu				
Advanced Settings				
Special Settings				
Store User Settings	Confirm selection to the user setting to save			
Recall User Settings	Confirm selection to the user setting restore			
Reset to Factory Settings	Confirm to the factory setting restore			
Expert Settings	Access - only by authorized service			
Monitor size	Auto   24"			

# **Warranty Information**

- 1. Reinecker Vision GmbH grants a warranty of 24 months (warranty period only valid within the European Union) against defects in manufacture counted from date of invoice ex Reinecker Vision GmbH.
- 2. All parts that have been replaced when repairing the unit will automatically become property of Reinecker Vision 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 Vision GmbH authorised specialists may lead to invalidity of warranty.
- 5. Not included in this warranty are light sources serving to illuminate the reading object, batteries 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 in the original packaging including all components. 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:



Notices		

Туре:	Videomatic VEO		
Serial-Number:			
Manufacturer:	Reinecker Vision GmbH		
Final examination:			
Power supply:	100 - 240 VAC 50/60 Hz		
Power consumption:	max. 80 Watt		

#### Reinecker Vision GmbH International Contact

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\*Festnetzpreis 14 ct/min, Mobilfunkpreis max. 42 ct/min

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

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

Bei im Ausland erworbenen Produkten kontaktieren Sie im Servicefall bitte Ihren dort ansässigen Händler.

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