User manual

Videomatic 20"

EN



Please read this user manual carefully prior to installation, use and maintenance for your own safety and in order to avoid damages on your system.

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I. General information

Important notes on the operation of the reading system Videomatic!
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.

Please also see chapter: Safety advice.

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 is a compact desktop video magnifier 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.

- Videomatic convinces through razor-sharp picture quality in high resolution and through its user friendliness.
- FullHD camera magnifies text and pictures in the best picture quality, a minimum of picture noise and a high reduction of reflections when reading glossy papers or looking at glossy surfaces.
- The high-resolution flat screen LED can be rotated, tilted and swiveled horizontally and vertically. Thanks to the spring compensation, it can be easily positioned.

Cleaning of the system

- Videomatic has to be disconnected from the power supply before cleaning.
- Clean the system with a slightly damp cloth and a mild household detergent.
- 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°C to + 50°C
- Relative air humidity 30% to 80%

Important note on reading, capturing and playback of medication leaflets

Dosage and quantity information from medication leaflets, read from the screen or, if a read-aloud function in your system is available, played back, must always be checked and re-confirmed independently! Always ask your doctor, pharmacist or a person you trust about dosing of medications!

Power supply

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

Caution: The use of any other power supply besides the original, might lead to an increased electro-magnetic emission and to product damage.

I.I General Information – valid for VIDEO201

The order code of your device can be found on the type label on the device or on the packaging.

Purpose

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

Medical device

This reading system is classified as a medical device, class I according to (EU) 2017/745, Annexe VIII, standard 13. For the distribution to countries outside the EU the respective country-specific guidelines have to be regarded.

Declaration of conformity, CE mark

CE

You can request a copy of the declaration of conformity in written form from Reinecker Vision GmbH, Sandwiesenstr. 19, 64665 Alsbach-Hähnlein or view it at www.reineckervision.de/eu-doc

Evolution and lifetime of products

The Medical Device Directive regulates by law that manufacturers of medical devices shall determine a period of safety operation of a product. We fulfill hereby legal requirements and determine - for formal reasons - a period of three years after date of first purchase.

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

Combination with other medical products

Warning: This reading system must not be located directly besides, next or on top of another medical life sustaining 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.

Safety advice

Videomatic has to be installed in closed and dry rooms only. Do not plug Videomatic 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.

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 authorized dealer or to Reinecker Vision GmbH Service Center.

Do not use the system again in this condition.

Reinstatement / installation and maintenance

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.

Environmentally friendly disposal (Directive 2012/19/EU)



MD

Within the EU the respective national implementations of the Directive 2012/19/EU for the sustainable re-use and proper recycling of electrical and electronic equipment applies.

For countries outside the EU (e.g. Switzerland), the respective national implementations for the regulatory requirements for environmentally friendly disposal and recycling applies.

List of symbols used

	Manufacturer	REF	Catalogue Number
#	Model number		Caution
SN	Serial number	UDI	Unique Device Identifier
MD	Medical device		Temperature limit
	Consult instructions for use		

I.II General Information – valid for VIDEO201LV

The order code of your device can be found on the type label on the device or on the packaging.

Purpose

Videomatic LV is a systeme for magnifying text and pictures with voice output.

Declaration of conformity (Doc), CE mark

CE

You can request a copy of the declaration of conformity in written form from Reinecker Vision GmbH, Sandwiesenstr. 19, 64665 Alsbach-Hähnlein or view it at www.reineckervision.de/int-doc

Safety advice

Videomatic has to be installed in closed and dry rooms only. Do not plug Videomatic 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.

Repair and maintenance

The device may only be serviced and repaired by Reinecker Vision GmbH or an authorized dealer.

Environmentally friendly disposal



The device contains electronic components.
To avoid environmental damage, the respective country-specific laws and regulations for the disposal of the device must be respected.

II. Safety instructions to avoid damage

Please respect the following instructions for your own safety:

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 and cables which are 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 to direct sunlight or to very hot or cold environment, as this would harm the picture quality.
5. Do not operate this device below +5°C or above +40°C.
6. No liquids must reach the interior of the system. Only operate the device in a dry environment.
7. The device may not be operated 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. Only use a soft and slightly damped cloth. Only use a mild household detergent. Do not use alcohol containing or strong detergents.

III. Instructions for the video magnifier system Videomatic

Delivery content

- Reading system Videomatic
- LED flat srceen 20"- class monitor (49 cm)
- Power adapter 12V DC/5000mA
- Adapter cable (country-specific)
- User manual
- Service information

Camera

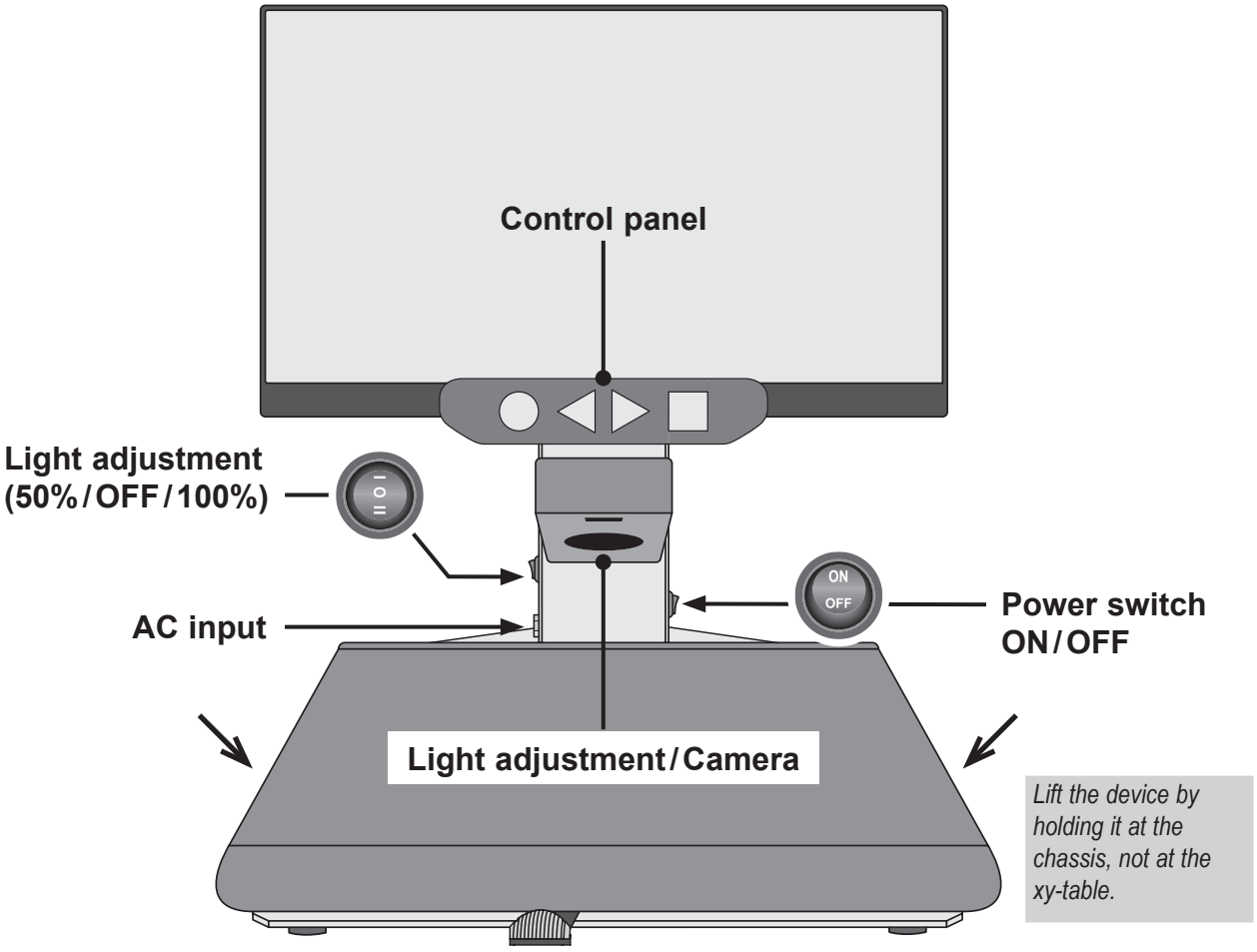
FullHD camera with optical zoom/auto-focus

- Magnification from approx. 4,0 x to 42x
- LVHD - Technology: high-contrast, flicker-free image in HD+ quality.
  The optimal image processing technology minimizes “drag” of the image and thus guarantees a trouble-free image in all magnification levels.

Installation of the system

Unpack your Videomatic carefully and place it on a solid horizontal surface.
If you have not purchased an optionally available 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. Please lift it by holding it at the chassis below the xy-table.



Connection of the unit

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

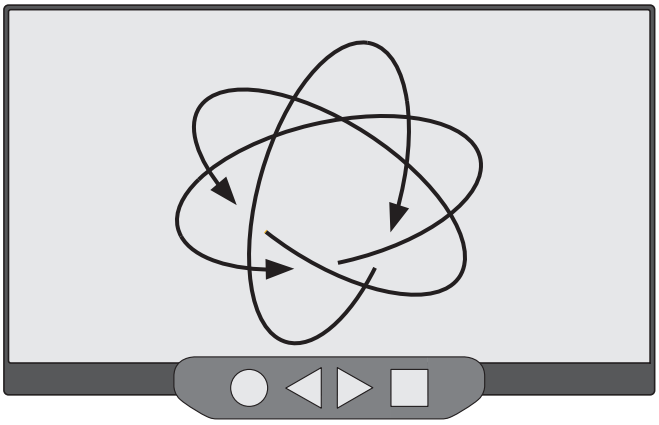
Note:
The included power cable is to be used exclusively with connection with the system. Do NOT use any other power cable.

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

Alignment of the monitor

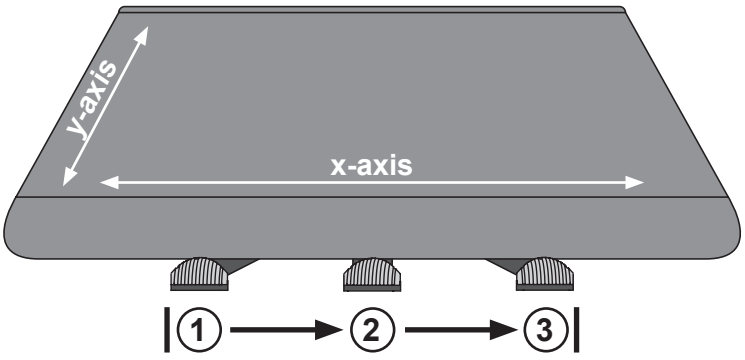
Due to the monitor's technology, contrast and brightness change depending on the angle of view.

The highly flexible monitor arm enables the user to adjust the monitor according to the seating position.



Alignment of the xy-table

The xy-table is equipped with a continuously adjustable friction brake. The yellow locking lever can be moved continuously from zero to maximum and influences the braking intensity of the x- and y-axis. This works by sliding the lever slowly from left to right. By pushing the lever from the very left side (no friction at all) to the center, you will fix the y-axis. By pushing the lever to the very right side, you will also fix the x-axis (lock).



1. Left: no friction at all

2. Left to center: fixing the y-axis

3. Center to right: fixing the x- and y-axis (lock)

How to start the video magnifier system

Operation with power supply and cables

Make sure that the delivered power adapter and cable are connected properly with a wall socket and Videomatic AC input 12V DC.

Power ON

Press the power switch located on the right side of the monitor arm to turn on the power ON/OFF. When the Videomatic and the base plate is illuminated, you can put a page or an object onto the table.

All the possible settings – for example zoom, colour or brightness- can be adjusted individually.

Power OFF

Switch OFF the device by pressing the ON/OFF button.

Automatic saving of device settings

All latest used settings of the device will be active, when switching ON the device again.

Replacement of lighting

The electronic magnifier is equipped with a high power LED Illumination. If replacement of the lamp is required it should only be done by a specialist or by Reinecker Vision GmbH.

Important note to the use of power supply

Please only use the power supply included in the delivery. Use of any other power supply will void the warranty!

Description of the control elements

Power switch ON/OFF



By pressing the toggle switch, the device can be switched ON/OFF.

Attention!:
If the reading table is not lit up after switching ON the device, please check if the LED light is ON (see following description).

Light adjustment (50%/OFF/100%)

Press the toggle switch to adjust the LED lighting accordingly:



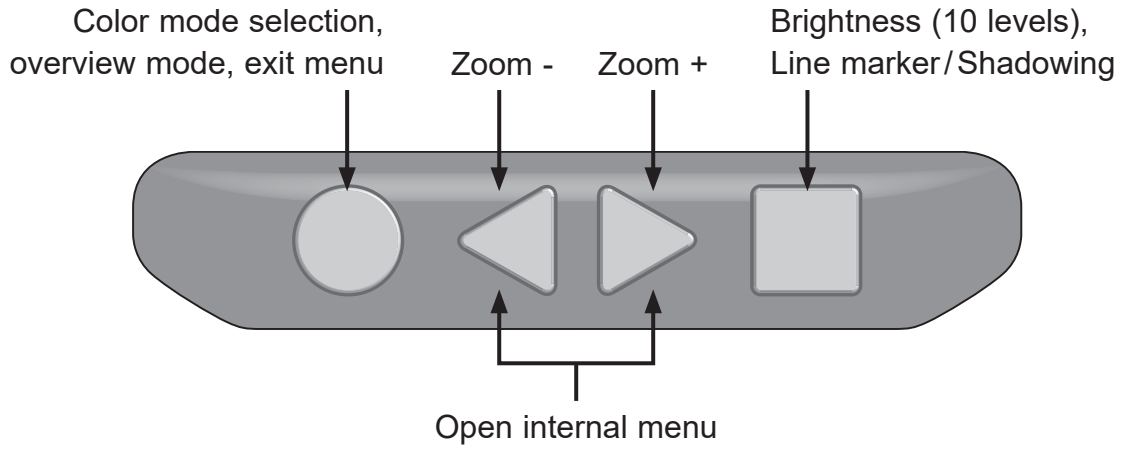
I = LED light 50%
0 = LED light OFF
II = LED light 100%

General note on using the LED-light

While using the device, it could be helpful to switch OFF or reduce the LED light of the device, for example, when the light in the room or from outside changes (sunlight).

Functional description of the control panel

Frontal view:



Control keys

Color mode selection



By pressing the round control button briefly, the following screen colors can be chosen:

Position 1. full color 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

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

Overview mode



When you are reading at 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.

Press the central button at a higher magnification level for approximately 2 seconds until the overview mode is activated. The image on the screen will minimise and you will see an overview of the whole document/ image/printed text. A faded cross will appear and indicate the area that is currently being magnified.

Once the button is released it will return back to the reading mode and selected magnification level.

Zoom -



By briefly pressing the arrow control button pointing to the left ◁ the magnification will be reduced step by step.

By continuously pressing the arrow control button pointing to the left ◁ the magnification will be continuously reduced.

Zoom +



By briefly pressing the arrow control button pointing to the right ▷ the magnification will be increased step by step.

By continuously pressing the arrow control button pointing to the right ▷ the magnification will be continuously increased.

With this video magnifier (20" TFT monitor) the magnification range is from approx. 2,5 to 140 times (adjustment via user menu).

The device is delivered with the following factory settings:
Magnification range is approx. 4,0 to 42 times.

Brightness



By briefly pressing the square control button ▢ the brightness display can be faded in or out on the screen.



By pressing the arrow control buttons ◁ ▷ the brightness of the screen can be changed, from -5 up to +5.

Line marker / Shadowing



Please keep the square control button ▢ pressed for over 2 seconds. When you do it again, you will get further options:

- Line marker / shadowing horizontal
- Column marker / shadowing vertical
- Deactivate line marker/column marker

Line marker / Shadowing (horizontal)



Please keep the square control button ▢ pressed and move the line marker up by using the arrow key pointing to the left ◁.



Please keep the square control button ▢ pressed and move the line marker down by using the arrow key ▷ pointing to the right. As soon as you leave the lower edge of the screen, the shadowing (horizontal) will appear from above and below.

Column marker / Shadowing (vertical)



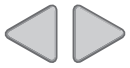
Please keep the square control button ▢ pressed and move the column marker up by using the arrow key pointing to the left ◁.



Please keep the square control button ▢ pressed and move the line marker down by using the arrow key ▷ pointing to the right. As soon as you leave the lower edge of the screen, the shadowing (vertical) will appear from the left and the right.

Description of the menu

Menu selection



Please press the two arrow control buttons ◁ ▷ simultaneously for approx. 2 seconds until the main menu appears on the screen.

Main Menu	
Colour Saturation	0
Language	English
AF Mode	auto.
Min. magnification	standard
Max. magnification	standard
Grid Frequency	50Hz
Monitor Brightness	100%
Reset to Factory Settings	
Advanced Settings	
Exit	

Exit the menu



Please press the round control button ○ for about 2 seconds until the main menu on the screen turns off.



Alternatively you can use the arrow control buttons ◁ ▷ to move to “Exit” and exit the main menu via pressing the square control key □.

Navigate upwards the menu



By pressing the arrow control button pointing to the left ◁ you can move upwards in the menu.

Navigate downwards the menu



By pressing the arrow control button pointing to the right ▷ you can move downwards in the menu.

Change the menu settings



Pease choose a menu option with the square control button □.

Please change the value with one of the arrow control buttons ◁ ▷.



After changing the value, please confirm the setting with the square control key □.

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
Colour Combination Setup	← Menu level 3
User colours	← Menu level 4
Function	**adjustment range** | explication

Menu settings

Main Menu	
Colour saturation	**adjustment range from -50 to +50**
Language	**English** | **German** | **French** | **Japanese** | **Italian** | **Norwegian**
AF Mode	**auto** | **push** (By push button)
Min. magnification	**low** | **standard**
Max. magnification	**high** | **standard**
Grid Frequency	**50Hz** | **60Hz**
Monitor Brightness	**100%** | **75%** | **50%** | **25%**
Reset to Factory Settings	**Confirm resetting to the factory setting**
Advanced Settings	*(see overview)*

Overview:	**Advanced Settings**	
	Colour Combination Setup	
	Set Ruler Colour	
	Mask Transparency	**0**
	OSD Messages (for overview mode)	**ON**
	Reflection Filter	**OFF**
	Save User Settings	
	Recall User Settings	
	Change Factory Settings	
	Return	

Main Menu	
Advanced Settings	
Colour Combination Setup	
Colour Combination 1-6	
Mode	**Disabled** | **Full Colour** | **Grayscale** | **False Colour**
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
Return	

Main Menu	
Advanced Settings	
Colour Combination Setup	
User colours	
User colour 1 - Red	**adjustment range from 0 to 31**
User colour 1 - Green	**adjustment range from 0 to 31**
User colour 1 - Blue	**adjustment range from 0 to 31**
User colour 2 - Red	**adjustment range from 0 to 31**
User colour 2 - Green	**adjustment range from 0 to 31**
User colour 2 - Blue	**adjustment range from 0 to 31**
Return	

Main Menu	
Ruler / Mask Settings	
Ruler Colour	
Red	**adjustment range from 0 to 31**
Green	**adjustment range from 0 to 31**
Blue	**adjustment range from 0 to 31**
Return	

Main Menu	
Advanced Settings	
Mask Transparency	**50%** | **25%** | **0%**
OSD Messages (for overview mode)	**ON** | **OFF**
Reflexion Filter	**ON** | **OFF**
Save User Settings	Confirm selection to the user setting to save
Recall User Settings	Confirm selection to the user setting restore
Change Factory Settings	Access - only by authorized service technicians
Return	

IV. Troubleshooting

Problem	Lösung
No image is shown.	Please check that the power adapter (12V DC / 5000mA) is correctly connected to the mains socket as well as to the power supply socket (12VDC) of the device.
Screen is dark.	Check the brightness and contrast settings of the camera/monitor.
True colour is not displayed correctly.	Check your reading material, colour mode setting, brightness, colour saturation and camera lighting.

V. Technical details

Videomatic	LED flat screen monitor	Weight: approx. 12 kg
20"- class monitor	20" class | approx. 49 cm (1600 x 900 pixel)	Measurements (W x H x L) approx. 46,5 x 54 x 49 cm
Colour modes	True colours, preset and individually djustable artificial colour modes	

VI. 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. The liability for defects in material does not include illuminants that serve to illuminate the reading material and other parts subject to wear and tear, such as rechargeable batteries, etc.
6. If a warranty claim is necessary, the system has to be returned to the manufacturer in Alsbach-Hähnlein or to your authorized dealer in the original packaging including all components. The manufacturer does not carry the cost for transport, packaging and insurance. Prior to returning the system, a RMA number issued by Reinecker Vision is required. Please have the exact serial number of your system before hand.

Phone number: +49 6257 93110

View our General Terms and Conditions.

Your authorized distributor:

Type:	**VIDEO201, VIDEO201LV**
Serial number:	
Manufacturer:	Reinecker Vision GmbH
Final examination:	
Power supply:	100 VAC – 240 VAC 50-60 Hz
With plug-in power supply:	12V DC/5000mA
Power consumption:	max. 80 Watt

Manufacture

Reinecker Vision GmbH
International Contact

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DE-64665 Alsbach-Hähnlein

customer service:
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SRN: DE-MF-000025998

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

Hersteller

Reinecker Vision GmbH
Zentrale

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SRN: DE-MF-000025998

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

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

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Subject to change.

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