

Электронные средства для чтения mobilux, optaro, smartlux, vario, visolux

Технические характеристики

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mobilux® DIGITAL Touch HD

ART. NR. 16511



Premium Quality digital magnifier.

Product Benefits

- ✓ Relaxed reading due to non-reflective, high contrast display
- ✓ 2 in 1: handy reading device for when you're on the move plus simple screen-reading device for use at home
- ✓ Easy orientation and reading as the HD camera is positioned centrally under the display
- ✓ Simple, intuitive operation via touchscreen with clearly recognisable symbols
- ✓ You can write under the reading device when it is in the tilted position

Product Properties

- Non-reflective 4.3" display
- Intuitive operation via touchscreen
- HD camera for maximum definition and optimum contrast
- Generous depth of focus for variable viewing distances
- Stable support surfaces for different uses: placed on the reading material for tremble-free image when reading lengthier texts, hand-held for orientation on the reading material and for headings, can be tilted for comfortable viewing angle
- 4 to 12x magnification (hand-held at a distance of 5 cm approx. 1.9- to 4.5x)
- 5 viewing modes: true colour, contrast-enhanced black/white, white/black, black/yellow and yellow/black
- Line orientation (reading line) for improved continuity of reading
- LCD brightness can be dimmed in the case of a high level of glare sensitivity
- Image capture function for storing images on preinstalled SD card
- The possibility of transferring images onto the computer via USB
- Screen-reading function via computer monitor
- LED light can be switched off for use on shiny surfaces

- Automatic shut-off if the device has not been used for approx. 3 minutes to ensure low power consumption.
- Weight: 230 g
- Battery run time: 2.5 to 3 hours, charging time: approx. 2 hours
- Lithium ion rechargeable battery
- Mains voltage requirement for battery charger: 110V - 240V, 50 - 60Hz
- Supplied with adapter for EU, GB, US, AUS.
- Supplied with protective hard foam case, lanyard and cleaning cloth

Product Accessories

Eschenbach Optik regularly publishes an update of the software for the mobilux DIGITAL Touch HD. To receive the latest version, please register your mobilux DIGITAL Touch HD at "Product Registration".

Technical data

Accessories

Accessories (included)	Integrated battery, mains charger with country adapter (EU, GB, US, AU), USB cable (type Mini-USB), SD card (pre-loaded), premium hard foam case, stand, lanyard, microfibre cloth, operating instructions (multilingual)
Additional accessories	Foldable stand for increasing the distance away

Use/Application

Supported task	Reading, mobile-proximity
Installation	Applied, bended and applied, hand-held
Ergonomic	integrated handle (bi-manual using), installation base (optional), to wear hung over

basic properties

Magnification	4 – 12 x
Field of view/Visual field/Field of vision (horizontal)	24 mm
Display Technology	TFT-LCD, reflexionsfrei
Screen size/diagonal in cm	11 cm

Screen size/diagonal in Inch	4.3 "
Screen resolution	480 x 272 px
Screen lightness	yes (multistage)
Lighting image tray/support	2 LEDs (glare-free), lighting can be switched off
Camera - type	SF/DOF fixed focus
Camera - positioning	natural orientation, central position (glare-free)
User input	touch screen
User support	tactile function keys, high-contrast symbols, charging status indicator (LED), charging status indicator (screen icon)
Display modes	true colours, white/black, black/white, yellow/black, black/yellow

Dimensions

Dimensions	7.5 x 21 x 4 cm
Weight	230 g

Extended features

Reading guideline	reading line & reading line
Live image from external source	no
Live image output	yes (USB on PC)
Mirror function	no
Remote Control	no
Show date/time	yes

Photo function

Image recording	yes (with touch screen)
Image view	photo gallery function, PC (via USB port), PC (via SD card)
Extended image view	adjustable magnification, adjustable display mode/contrast

Image resolution	1280 x 720 px
Supported file formats	jpg
Image Memory/Storage	SD-Speicherkarte SDHC (bis 32GB)
Total storage space/capacity (in scope of delivery)	4 GB

Technical properties

Power supply	battery (integrated)
Installed battery	lones de litio
Operating Time (Battery)/Battery run time	3 h
Charging time	2 h
Power supply charging device	In: 100-240VAC 50/60Hz 0.3A max, Out: 5VDC 1500mA
Operating temperature	10 – 40 °C
Charging port	Mini-USB
Port for data transmission to PC	Mini USB
Video image output	USB (über PC)
Video Image Input	no

Warranty Electronic Aids

Warranty (Product)	2 years
Warranty (Battery)	6 months

visolux DIGITAL XL FHD

ART. NR. 16551



The ultimate in reading comfort.

Product Benefits

- ✓ Best imaging quality and operability
- ✓ Pleasant reading position
- ✓ Secure placement und guidance
- ✓ Wide field of view and true-to-life colour reproduction
- ✓ Accommodates an entire newspaper column
- ✓ Numerous false colour combinations can be selected
- ✓ Intuitive operation
- ✓ Ideal solution when on the go or at home
- ✓ Light-weight, compact, robust and sustained mobile use
- ✓ Can also be used as a screen reader

Product Properties

- High-contrast and true-to-detail, high resolution digital camera with a specially calculated lens
- Generous depth of field for variable viewing distances
- High magnification range from 2 x to 22 x (magnification on a 40-inch TV, for instance, approx. 12 x to 125 x)
- Non-reflective active matrix TFT LCD screen
- 16:9 widescreen format
- 14 contrast-enhanced false colour modes can be selected
- Dynamic Line Scrolling (DLS)
- Powerful automatic exposure to compensate for ambient light
- Optical orientation aid with reading line or mask that can be activated
- Clearly arranged, easy to sense direct keys

- Graphical menu for advanced functions
- Stand with ergonomic tilt angle
- Camera mounted centrally under housing and positioning aid perceptible on housing
- Photo function with storage facility on inserted SD card (defeatable)
- USB type-C port for image feed to the computer (PC and Mac)
- HDMI port for simultaneous display of the live image on an external display (TV, monitor or projector)
- Long operating time, short charging time
- Supplied with an adapter for EU, GB, US and AUS
- Delivery includes HDMI cable, USB type-C cable, 8 GB SD card, lanyard, microfibre cloth and hard foam case
- The proven concept of visolux DIGITAL now also in the 12-inch category
- Almost 30 cm screen diagonal but weighing only one kilo
- The perfect size for stationary, hand-guided applications and still portable
- Writing under the device is possible
- Operation via direct keys or the touchscreen (defeatable)
- Dynamic Line Scrolling enables vertical movement of the reading area
- Easily understood speech output of all menu steps (defeatable)
- Additional HDMI input for connecting an external camera with live image feed
- Practical charging via the USB type-C port
- Lithium-polymer battery for up to 2.5 hours of operation

Product Accessories

Eschenbach Optik regularly publishes an update of the software for the visolux DIGITAL XL FHD. To receive the latest version, please register your visolux DIGITAL XL FHD at "Product Registration".

Technical data

Accessories

Accessories (included)	Integrated battery, USB cable (type USB-C), HDMI cable (type A), SD card (pre-loaded), premium hard foam case, lanyard, microfibre cloth, operating instructions (multilingual), mains charger with country adapter (EU, GB, US, AU)
Additional accessories	Foldable stand for increasing the distance away, comfort-carry bag, silicon bumper

Use/Application

Supported task	Reading, Writing, mobile-proximity, freehanded working
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Installation	folded, hand-held, positioned
Ergonomic	integrated stand, installation base (optional), to wear hung over

basic properties

Magnification	2 – 22 x
Field of view/Visual field/Field of vision (horizontal)	125 mm
Display Technology	TFT-LCD, reflexionsfrei
Screen size/diagonal in cm	29.5 cm
Screen resolution	1920 x 1800px
Screen lightness	yes (multistage)
Lighting image tray/support	several LEDs (glare-free), brightness adjustable (per LED), lighting can be switched off (per LED)
Camera - type	SF/DOF fixed focus
Camera - positioning	natural orientation, central position (glare-free), position adjustable (per position)
User input	function key, shift paddle, menu button separately, touch screen
User support	high-contrast symbols, high-contrast function keys, tactile function keys, large icons, confirmation tones, Sprachausgabe Menu mehrsprachig, charging status indicator (LED), charging status indicator (screen icon), orientation aids on the housing, positioning aids on the housing
Menu languages	DE, EN, SO, IT, ES

Display modes	true colours, white/black, black/white, yellow/black, black/yellow, yellow/blue, blue/yellow, green/black, black/green, orange/black, black/orange, white/red, red/white, violet/black, black/violet
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Dimensions

Dimensions	20 x 29 x 4 cm
Weight	1,050 g

Extended features

Reading guideline	reading line & reading line
DLS - Dynamic Line Scrolling	Yes
Live image from external source	yes (HDMI In)
Live image output	yes (HDMI Out)
Mirror function	yes (external image source)
Remote Control	no
Show date/time	yes (format selectable)

Photo function

Image recording	yes (with function key)
Image view	photo gallery function, PC (via USB port), PC (via SD card), external display (via HDMI-Out)
Extended image view	adjustable magnification, adjustable display mode/contrast, DLS - dynamic line scrolling in the picture, live image transmission on external screen
Image resolution	1920 x 1080 px
Supported file formats	jpg
Image Memory/Storage	SD-Speicherkarte SDHC (bis 32GB)

Total storage space/capacity (in scope of delivery)	8 GB
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Technical properties

Power supply	battery (integrated)
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Installed battery	Polímero de litio
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Operating Time (Battery)/Battery run time	2.5
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Charging time	4
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Power supply charging device	In: 100-240VAC 50/60Hz 0.4A max, Out: 5VDC 2.5A
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Operating temperature	10 – 40 °C
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Charging port	USB-C
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Port for data transmission to PC	USB-C
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Video image output	HDMI Typ A
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Video Image Input	HDMI Typ A
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Warranty Electronic Aids

Warranty (Product)	2 years
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Warranty (Battery)	6 months
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vario DIGITAL 22 FHD

ART. NR. 16592



New product ...

Product Benefits

New product ...

Product Properties

New product ...

Product Accessories

New product ...

Technical data

Accessories

Accessories (included)	USB cable (type USB-C), SD card (pre-loaded), microfibre cloth, operating instructions (multilingual), installation instructions, mains charger with country adapter (EU, GB, US, AU)
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Use/Application

Supported task	Reading, Writing, freehanded working
Installation	positioned, standing up
Ergonomic	Screen height adjustment

basic properties

Magnification	1.6 – 100 x
Display Technology	TFT-LCD, reflexionsfrei
Screen size/diagonal in cm	54.6 cm
Screen size/diagonal in Inch	21.5 "
Screen resolution	1920 x 1080px
Screen lightness	yes (multistage)
Lighting image tray/support	several LEDs (glare-free), brightness adjustable (per LED group), lighting can be switched off (per LED group)
Camera - type	AF - Autofocus (manual focusing)
Camera - positioning	natural orientation, central position (glare-free)
User input	function key, selection dial, shift paddle, menu button separately, button for reading line/reading line
User support	high-contrast function keys, tactile function keys, large icons, high-contrast symbols, confirmation tones, multilingual, charging status indicator (LED), charging status indicator (screen icon), orientation aids on the housing, positioning aids on the housing, folding mechanism with snap-in function

Menu languages	DE, EN, SO, IT, ES
Display modes	true colours, white/black, black/white, yellow/black, black/yellow, yellow/blue, blue/yellow, green/black, black/green, white/red, red/white, violet/black, black/violet, black/orange, orange/black

Dimensions

Dimensions	50 x 52 x 15 cm
Weight	8.9 kg

Extended features

Reading guideline	reading line & reading line
Live image from external source	no
Live image output	no
Mirror function	no
Remote Control	no
Show date/time	yes (format selectable)

Photo function

Image recording	yes (with function key)
Image view	photo gallery function, PC (via USB port), PC (via SD card)
Extended image view	adjustable magnification, adjustable display mode/contrast, DLS - dynamic line scrolling in the picture
Image resolution	1920 x 1080 px
Supported file formats	jpg

Image Memory/Storage

SD-Speicherkarte SDHC (bis 32GB)

Total storage space/capacity (in scope of delivery)

8 GB

Technical properties

Power supply

power supply (external)

Power supply charging device

In: 100-240VAC 50/60Hz 1.5A max, Out: 19VDC 3.42A

Operating temperature

10 – 40 °C

Charging port

Rund-Hohlstecker

Port for data transmission to PC

USB-C

Video image output

no

Video Image Input

no

Warranty Electronic Aids

Warranty (Product)

2 years

Warranty (Battery)

6 months

vario DIGITAL 16 FHD

ART. NR. 16591



Product Benefits

- ✓ Best image quality
- ✓ Very large field of view and true colour image reproduction
- ✓ Portable use thanks to the user-friendly folding mechanism and ergonomic handle
- ✓ Simple to use
- ✓ Intuitively positioned operating buttons and rotary knobs
- ✓ Simple menu navigation
- ✓ Smooth zoom in even steps
- ✓ Homogeneous and shadow-free illumination is provided by LEDs in the base arm and on the underside of the monitor.
- ✓ High level of mechanical stability to protect against vibrations

Product Properties

- High-definition camera with optical digital zoom
- Large magnification range from 1.3x to 45x
- Non-reflective LCD TFT screen in 15.6" format
- Pin sharp, true colour image in full HD resolution
- Fast autofocus ensures perfect reading comfort at all times
- The autofocus can be switched off to make it even easier to write under the camera
- Large field of view of 265 mm
- Powerful LED lights
- Optional orientation guides with a reading line or mask
- Speedy orientation thanks to an overview mode
- User-friendly menu with adjustment options to suit your individual needs
- Clear voice output for all menu stages (can be switched off)
- 14 contrast-enhanced false colour modes
- Photo function with option of saving photos on inserted SD card (can be switched off)

- Stable, robust and ergonomic
- The tilting camera makes it easier to carry out handicraft work and enables you to read the upper area of the reading material more easily
- The camera has a cover to protect against dust and dirt
- Users can carry out software updates and resets themselves
- USB Type C port for data transmission
- Weight: 6.3 kg
- Included in delivery: USB Type C cable, 8 GB SD card, universal charging device for worldwide use, microfibre case

Product Accessories

Eschenbach Optik regularly publishes an update of the software for the vario DIGITAL FHD. To receive the latest version, please register your vario DIGITAL FHD at "Product Registration".

Technical data

Accessories

Accessories (included)	USB cable (type USB-C), SD card (pre-loaded), microfibre cloth, operating instructions (multilingual), mains charger with country adapter (EU, GB, US, AU)
Additional accessories	comfort-carry bag

Use/Application

Supported task	Reading, Writing, freehanded working
Installation	positioned, standing up
Ergonomic	Screen height adjustment, Screen tilt adjustment

basic properties

Magnification	1.3 – 45 x
Display Technology	TFT-LCD, reflexionsfrei
Screen size/diagonal in cm	39.6 cm
Screen size/diagonal in Inch	15.6 "
Screen resolution	1920 x 1080px
Screen lightness	yes (multistage)

Lighting image tray/support	several LEDs (glare-free), brightness adjustable (per LED group), lighting can be switched off (per LED group)
Camera - type	AF - Autofocus (manual focusing)
Camera - positioning	natural orientation, central position (glare-free)
User input	selection dial, shift paddle, menu button separately, function key, button for reading line/reading line
User support	high-contrast function keys, tactile function keys, large icons, high-contrast symbols, confirmation tones, multilingual, charging status indicator (LED), charging status indicator (screen icon), orientation aids on the housing, positioning aids on the housing, folding mechanism with snap-in function
Menu languages	DE, EN, SO, IT, ES
Display modes	true colours, white/black, black/white, yellow/black, black/yellow, yellow/blue, blue/yellow, green/black, black/green, white/red, red/white, violet/black, black/violet, orange/black, black/orange

Dimensions

Dimensions	46 x 37.8 x 13.2 cm
Weight	6.3 kg

Extended features

Reading guideline	reading line & reading line
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Live image from external source	no
Live image output	no
Mirror function	no
Remote Control	no
Show date/time	yes (format selectable)

Photo function

Image recording	yes (with function key)
Image view	photo gallery function, PC (via USB port), PC (via SD card)
Extended image view	adjustable magnification, adjustable display mode/contrast, DLS - dynamic line scrolling in the picture
Image resolution	1920 x 1080 px
Supported file formats	jpg
Image Memory/Storage	SD-Speicherkarte SDHC (bis 32GB)
Total storage space/capacity (in scope of delivery)	8 GB

Technical properties

Power supply	power supply (external)
Power supply charging device	In: 100-240VAC 50/60Hz 1.5A max, Out: 19VDC 3.42A
Operating temperature	10 – 40 °C
Charging port	Rund-Hohlstecker
Port for data transmission to PC	USB-C
Video image output	no
Video Image Input	no

Warranty Electronic Aids

Warranty (Product)	2 years
Warranty (Battery)	6 months

visolux DIGITAL HD

ART. NR. 16521



Product Benefits

- ✓ HD camera for high contrast, detailed photos
- ✓ Large magnification range from 2x to 22x (connected to HD TV, e.g. 40", magnification 12x to 125x)
- ✓ Generous depth of field for variable viewing distances
- ✓ Stand with ergonomic tilted angle
- ✓ Non-reflective 7" display, 16:9
- ✓ Large field of view of 70 mm
- ✓ Dynamic Line Scrolling (DLS), the line area on the display is moved by the touch of a button
- ✓ Optional orientation markers (reading line or "blind")
- ✓ Additional tactile positioning and orientation markers on the housing
- ✓ Viewing modes in true colour and up to 14 contrast-enhanced false colour modes
- ✓ Photo function with option of saving photos on inserted SD card
- ✓ HDMI port for transmitting live images onto televisions
- ✓ USB port, Type C port for transmitting images onto a computer (PC and Mac)
- ✓ Operating time: 3.5 h
- ✓ Weight: 460 g
- ✓ Included in delivery: HDMI cable, USB Type C cable, 4 GB SD card, universal charging device for worldwide use, lanyard, hard foam case

Product Properties

- Comfortable reading position due to ergonomic tilted angle
- Improved orientation on the reading material due to several tactile markers on the housing and a centrally positioned camera, as well as an optional reading line
- Accommodates an entire newspaper column
- Dynamic Line Scrolling (DLS) means that even with high magnification levels orientation is not impaired and there is no need to move the reading device across the reading material
- Weighing in at just 460g, visolux DIGITAL is the ideal solution for when you're on the move or at home

- Photo function with option of saving photos on inserted SD card
- Large range of false colour combinations
- Can also be used on the TV screen as screen-reading device via HDMI

Product Accessories

Eschenbach Optik regularly publishes an update of the software for the visolux DIGITAL HD. To receive the latest version, please register your visolux DIGITAL HD at "Product Registration".

Technical data

Accessories

Accessories (included)	Integrated battery, USB cable (type USB-C), HDMI cable (type A), SD card (pre-loaded), premium hard foam case, lanyard, microfibre cloth, operating instructions (multilingual), mains charger with country adapter (EU, GB, US, AU)
Additional accessories	Foldable stand for increasing the distance away, comfort-carry bag, silicon bumper

Use/Application

Supported task	Reading, Writing, mobile-proximity, freehanded working (with optional accessories)
Installation	folded, hand-held
Ergonomic	integrated stand, installation base (optional), to wear hung over

basic properties

Magnification	2 – 22 x
Field of view/Visual field/Field of vision (horizontal)	67 mm
Display Technology	TFT-LCD, reflexionsfrei
Screen size/diagonal in cm	17.9 cm
Screen size/diagonal in Inch	7 "

Screen resolution	1024 x 600px
Screen lightness	yes (multistage)
Lighting image tray/support	several LEDs (glare-free), brightness adjustable (per LED), lighting can be switched off (per LED)
Camera - type	SF/DOF fixed focus
Camera - positioning	natural orientation, central position (glare-free)
User input	function key, shift paddle, menu button separately
User support	high-contrast function keys, tactile function keys, large icons, high-contrast symbols, confirmation tones, charging status indicator (LED), charging status indicator (screen icon), orientation aids on the housing, positioning aids on the housing
Display modes	true colours, white/black, black/white, yellow/black, black/yellow, yellow/blue, blue/yellow, green/black, black/green, white/red, red/white, violet/black, black/violet, blue/black, black/grey

Dimensions

Dimensions	13.8 x 20.1 x 2.9 cm
Weight	460 g

Extended features

Reading guideline	reading line & reading line
DLS - Dynamic Line Scrolling	Yes
Live image from external source	no
Live image output	yes (HDMI Out)

Mirror function	no
Remote Control	no
Show date/time	yes (format selectable)

Photo function

Image recording	yes (with function key)
Image view	photo gallery function, PC (via USB port), PC (via SD card), external display (via HDMI-Out)
Extended image view	adjustable magnification, adjustable display mode/contrast, DLS - dynamic line scrolling in the picture, live image transmission on external screen
Image resolution	1920 x 1080 px
Supported file formats	jpg
Image Memory/Storage	SD-Speicherkarte SDHC (bis 32GB)
Total storage space/capacity (in scope of delivery)	8 GB

Technical properties

Power supply	battery (integrated)
Installed battery	lones de litio
Operating Time (Battery)/Battery run time	3.6 h
Charging time	3 h
Power supply charging device	In: 100-240VAC 50/60Hz 0.6A max, Out: 9VDC 2.5A
Operating temperature	10 – 40 °C
Charging port	Rund-Hohlstecker
Port for data transmission to PC	USB-C
Video image output	HDMI Typ A
Video Image Input	no

Warranty Electronic Aids

Warranty (Product)	2 years
Warranty (Battery)	6 months



Brilliant technology for brilliant vision

Product Benefits

- ✓ Extra large field of view due to non-reflective 5" LCD and high magnification range.
- ✓ Makes reading simple as camera is centrally positioned under the display.
- ✓ Extra writing position for writing or working under the display.
- ✓ Easy to use due to large operating buttons which are easy to see and tactile.

Product Properties

- 5 viewing modes: True colour as well as contrast-enhanced black/white, white/black, black/yellow, yellow/black.
- Generous depth of focus for variable viewing distances.
- Incremental magnification from 1.7 to 12x, depending on use.
- Freeze-frame and image capture function: images can be quickly captured. If required, up to 20 of these images can be permanently stored and managed.
- Integrated stand which can be adjusted for 3 different uses:
 - stand fully retracted for hand-held use
 - stand fully extended for placing on reading material
 - stand partially extended for writing or working hands-free under the display.
- LEDs can be switched off, for use on gloss surfaces.
- LCD brightness can be dimmed in the case of a high level of glare sensitivity.
- Automatic shut-off if the device has not been used for approx. 3 minutes to ensure low power consumption.
- Dimensions: 174 mm x 90.3 mm x 40.1 mm, Weight 220 g.
- Battery run time: approx. 2.5 hours, charging time: approx. 2 hours.
- Lithium ion rechargeable battery.
- Mains voltage requirement for battery charger: 110V - 240V, 50-60Hz.
- Supplied with adapter for EU, GB, US, AUS.
- Includes lanyard and protective hard foam case.

Product Accessories

Eschenbach Optik regularly publishes an update of the software for the visolux DIGITAL HD. To receive the latest version, please register your smartlux DIGITAL at "Product Registration".

Technical data

Accessories

Accessories (included)	Integrated battery, USB cable (type USB-C), premium hard foam case, lanyard, stand, microfibre cloth, operating instructions (multilingual), mains charger with country adapter (EU, GB, US, AU)
Additional accessories	ergonomic handle, silicon bumper, HDMI cable (type D)

Use/Application

Supported task	Reading, Writing, mobile-proximity
Installation	Applied, folded, hand-held
Ergonomic	integrated handle (bi-manual using), comfortable handle (optional), integrated stand, to wear hung over

basic properties

Magnification	3 – 15 x
Field of view/Visual field/Field of vision (horizontal)	35 mm
Display Technology	TFT-LCD, reflexionsfrei
Screen size/diagonal in cm	12.7 cm
Screen size/diagonal in Inch	5 "
Screen resolution	800 x 480px
Screen lightness	yes (multistage)

Lighting image tray/support	2 LEDs (glare-free), brightness adjustable (per LED), lighting can be switched off
Camera - type	SF/DOF fixed focus
Camera - positioning	natural orientation, central position (glare-free)
User input	function key, menu button separately
User support	high-contrast function keys, tactile function keys, large icons, high-contrast symbols, confirmation tones, charging status indicator (LED), charging status indicator (screen icon), orientation aids on the housing, positioning aids on the housing
Display modes	true colours, white/black, black/white, yellow/black, black/yellow, yellow/blue, blue/yellow, green/black, black/green, orange/black, black/orange, white/red, red/white, violet/black, black/violet

Dimensions

Dimensions	8.8 x 18.5 x 4.3 cm
Weight	240 g

Extended features

Reading guideline	reading line & reading line (90° orientation possible)
Blue light filter	Yes
Live image from external source	no
Live image output	yes (HDMI Out)
Mirror function	no
Remote Control	no

Show date/time	yes (format selectable)
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Photo function

Image recording	yes (with function key)
Image view	photo gallery function, PC (via USB port), external display (via HDMI-Out)
Extended image view	adjustable magnification, adjustable display mode/contrast, DLS - dynamic line scrolling in the picture, live image transmission on external screen
Image resolution	2304 x 1296 px
Supported file formats	jpg
Image Memory/Storage	internal
Total storage space/capacity (in scope of delivery)	8 GB

Technical properties

Power supply	battery (integrated)
Installed battery	lones de litio
Operating Time (Battery)/Battery run time	3 h
Charging time	4 h
Power supply charging device	In: 100-240VAC 50/60Hz 0.3A max, Out: 5VDC 2.5A
Operating temperature	10 – 40 °C
Charging port	USB-C
Port for data transmission to PC	USB-C
Video image output	HDMI Typ D
Video Image Input	no

Warranty Electronic Aids

Warranty (Product)	2 years
Warranty (Battery)	6 months



Visual comfort, smartly conceived

Product Benefits

- ✓ 2 in 1: Mobile low vision aid and smartphone in one
- ✓ Central camera position enables easy orientation
- ✓ Optimised image processing for a sharp image at all times
- ✓ An ergonomic stand guarantees relaxed, wobble-free reading
- ✓ High-contrast, homogeneous illumination without glare
- ✓ Customisable additional functions for even more visual comfort
- ✓ Simple and intuitive operation with clearly recognisable symbol via the optaro® app
- ✓ Hand-held and surface-mounted use possible
- ✓ Perfect for visual tasks at home and on the move

Product Properties

optaro® is the 2-in-1 solution for people with impaired vision: Because from now on, they have a fully functional reading device with them wherever they go – and all they need to do is grab their smartphone.

Upgrading is really easy: including the optaro® camera module, an optaro® protective case or universal stand and the optaro® app for controlling the camera module and setting all functions according to your personal requirements.

Full HD camera:

- 3 to 15 times magnification (the exact magnification depends on the display of the iPhone used)
- Exceptional imaging performance with maximum sharpness and optimum contrast
- Fixed focus with a high depth of field range for variable operating distances and a razor-sharp image

- Central camera position for intuitive, easy positioning

Integrated stand:

- Folds out for relaxed, wobble-free reading
- Ideal tilt angle for an ergonomic posture
- When folded out, the camera automatically swivels into a reading position

Illumination:

- Special LED lighting for a high-contrast and glare-free image
- Homogeneous illumination of the reading material

optaro® App:

The optaro® app is used to control the camera module and personalise the visual experience with intelligent additional functions – for high visual comfort and rapid reading success. The optaro® app can be downloaded free of charge from the Apple App Store.

- Customised magnification infinitely adjustable with maximum sharpness and optimum contrast
- 14 different false colour modes can be selected – from inverse colour representations to individual colour schemes
- Reading line or reading mask can be switched on for easier orientation
- Tell Me function reads out loud a group of words

- Lanyard loop for practical wearing around the neck
- Easy charging via USB-C cable
- Operating time: 2 hours
- Charging time: 1.5 hours
- Weight: 120 g

Product Accessories

Protective cases:

- ✓ 13 custom-fit protective cases for various iPhone models from iPhone 12 onwards
- ✓ Integrated, tactile markings for optimum positioning and easy orientation on the reading material
- ✓ All-round protection for the iPhone and optaro® camera module

Universal stand:

- ✓ Universal stand for almost any iPhone*
- ✓ Practical magnetic mechanism**
- ✓ Fold-out support for a secure hold

* iPhone must support at least iOS 16, with iPhones from iPhone 12 onwards recommended

** For iPhone models featuring MagSafe

vario DIGITAL 16 FHD Advanced



Product Benefits

- ✓ Best image quality
- ✓ Very large field of view and true colour image reproduction
- ✓ Portable use thanks to the user-friendly folding mechanism and ergonomic handle
- ✓ Simple to use
- ✓ Intuitively positioned operating buttons and dials
- ✓ Simple menu navigation
- ✓ Smooth zoom in even steps
- ✓ Homogeneous and shadow-free illumination is provided by LEDs in the base arm and on the underside of the monitor
- ✓ Ergonomic handle
- ✓ High level of mechanical stability to protect against vibrations
- ✓ Connection to an external camera with live image transmission

Product Properties

- High-definition camera with optical digital zoom
- Large magnification range from 1.3x to 45x
- Non-reflective LCD TFT screen in 15.6" format
- Pin sharp, true colour image in full HD resolution
- Fast autofocus ensures perfect reading comfort at all times
- The autofocus can be switched off to make it even easier to write under the device
- Large field of view of 265 mm
- Dynamic Line Scrolling: the reading area can be moved horizontally and vertically in the display
- Incl. remote control for even greater operating comfort
- Additional HDMI input for connection to an external camera with live image transmission
- Powerful LED lights
- Optional orientation guides with a reading line or mask
- Speedy orientation thanks to an overview display
- Thanks to its flexible design, the device can also be used as a mirror

- User-friendly menu with adjustment options to suit your individual needs
- Clear voice output for all menu stages (can be switched off)
- 14 contrast-enhanced false colour modes
- Photo function with option of saving photos on inserted SD card (can be switched off)
- Stable, robust and ergonomic
- The tilting camera makes it easier to carry out handicraft work and enables you to read the upper area of the reading material more easily
- The camera has a cover to protect against dust and dirt
- Users can carry out software updates and resets themselves
- USB Type C port for data transmission
- Weight: 6.3 kg
- Included in delivery: Remote control, HDMI cable, USB Type C cable, 8 GB SD card, universal charging device for worldwide use, microfibre cloth

Product Accessories

Eschenbach Optik regularly publishes an update of the software for the vario DIGITAL FHD Advanced. To receive the latest version, please register your vario DIGITAL FHD Advanced at "Product Registration".

Technical data

Accessories

Accessories (included)	USB cable (type USB-C), HDMI cable (type A), SD card (pre-loaded), remote control with batteries, microfibre cloth, operating instructions (multilingual), mains charger with country adapter (EU, GB, US, AU)
Additional accessories	comfort-carry bag

Use/Application

Supported task	Reading, Writing, freehanded working
Installation	positioned, standing up
Ergonomic	Screen height adjustment, Screen tilt adjustment

basic properties

Magnification	1.3 – 45 x
Display Technology	TFT-LCD, reflexionsfrei

Screen size/diagonal in cm	39.6 cm
Screen size/diagonal in Inch	15.6 "
Screen resolution	1920 x 1080px
Screen lightness	yes (multistage)
Lighting image tray/support	several LEDs (glare-free), brightness adjustable (per LED), lighting can be switched off (per LED group)
Camera - type	AF - Autofocus (manual focusing)
Camera - positioning	natural orientation, central position (glare-free), position adjustable (mirror function)
User input	function key, shift paddle, menu button separately, button for reading line/reading line, remote control, selection dial
User support	high-contrast function keys, tactile function keys, large icons, high-contrast symbols, confirmation tones, multilingual, charging status indicator (LED), charging status indicator (screen icon), orientation aids on the housing, positioning aids on the housing, folding mechanism with snap-in function
Menu languages	DE, EN, SO, IT, ES
Display modes	true colours, white/black, black/white, yellow/black, black/yellow, yellow/blue, blue/yellow, green/black, black/green, white/red, red/white, violet/black, black/violet, black/orange, orange/black

Dimensions

Dimensions	46 x 37.8 x 13.2 cm
Weight	6.3 kg

Extended features

Reading guideline	reading line & reading line
DLS - Dynamic Line Scrolling	Yes
Blue light filter	Yes
Live image from external source	yes (HDMI In)
Live image output	no
Mirror function	yes
Remote Control	yes (remote control included)
Show date/time	yes (format selectable)

Photo function

Image recording	yes (with function key)
Image view	photo gallery function, PC (via USB port), PC (via SD card)
Extended image view	adjustable magnification, adjustable display mode/contrast, DLS - dynamic line scrolling in the picture
Image resolution	1920 x 1080 px
Supported file formats	jpg
Image Memory/Storage	SD-Speicherkarte SDHC (bis 32GB)
Total storage space/capacity (in scope of delivery)	8 GB

Technical properties

Power supply	power supply (external)
Power supply charging device	In: 100-240VAC 50/60Hz 1.5A max, Out: 19VDC 3.42A
Operating temperature	10 – 40 °C
Charging port	Rund-Hohlstecker
Port for data transmission to PC	USB-C
Video image output	no

Video Image Input

HDMI Typ A

Warranty Electronic Aids

Warranty (Product)

2 years

Warranty (Battery)

6 months

Variants



vario DIGITAL 16 FHD Advanced



vario DIGITAL 16 FHD Advanced TB



vario DIGITAL 16 FHD Advanced B



vario DIGITAL 16 FHD Advanced T

vario DIGITAL 16 FHD Advanced

ART. NR. 165916



Product Benefits

- ✓ Best image quality
- ✓ Very large field of view and true colour image reproduction
- ✓ Portable use thanks to the user-friendly folding mechanism and ergonomic handle
- ✓ Simple to use
- ✓ Intuitively positioned operating buttons and dials
- ✓ Simple menu navigation
- ✓ Smooth zoom in even steps
- ✓ Homogeneous and shadow-free illumination is provided by LEDs in the base arm and on the underside of the monitor
- ✓ Ergonomic handle
- ✓ High level of mechanical stability to protect against vibrations
- ✓ Connection to an external camera with live image transmission

Product Properties

- High-definition camera with optical digital zoom
- Large magnification range from 1.3x to 45x
- Non-reflective LCD TFT screen in 15.6" format
- Pin sharp, true colour image in full HD resolution
- Fast autofocus ensures perfect reading comfort at all times
- The autofocus can be switched off to make it even easier to write under the device
- Large field of view of 265 mm
- Dynamic Line Scrolling: the reading area can be moved horizontally and vertically in the display
- Incl. remote control for even greater operating comfort
- Additional HDMI input for connection to an external camera with live image transmission
- Powerful LED lights
- Optional orientation guides with a reading line or mask

- Speedy orientation thanks to an overview display
- Thanks to its flexible design, the device can also be used as a mirror
- User-friendly menu with adjustment options to suit your individual needs
- Clear voice output for all menu stages (can be switched off)
- 14 contrast-enhanced false colour modes
- Photo function with option of saving photos on inserted SD card (can be switched off)
- Stable, robust and ergonomic
- The tilting camera makes it easier to carry out handicraft work and enables you to read the upper area of the reading material more easily
- The camera has a cover to protect against dust and dirt
- Users can carry out software updates and resets themselves
- USB Type C port for data transmission
- Weight: 6.3 kg
- Included in delivery: Remote control, HDMI cable, USB Type C cable, 8 GB SD card, universal charging device for worldwide use, microfibre cloth

Product Accessories

Eschenbach Optik regularly publishes an update of the software for the vario DIGITAL FHD Advanced. To receive the latest version, please register your vario DIGITAL FHD Advanced at "Product Registration".

Technical data

Accessories

Accessories (included)	USB cable (type USB-C), HDMI cable (type A), SD card (pre-loaded), remote control with batteries, microfibre cloth, operating instructions (multilingual), mains charger with country adapter (EU, GB, US, AU)
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Additional accessories comfort-carry bag

Use/Application

Supported task	Reading, Writing, freehanded working
Installation	positioned, standing up
Ergonomic	Screen height adjustment, Screen tilt adjustment

basic properties

Magnification	1.3 – 45 x
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Display Technology	TFT-LCD, reflexionsfrei
Screen size/diagonal in cm	39.6 cm
Screen size/diagonal in Inch	15.6 "
Screen resolution	1920 x 1080px
Screen lightness	yes (multistage)
Lighting image tray/support	several LEDs (glare-free), brightness adjustable (per LED), lighting can be switched off (per LED group)
Camera - type	AF - Autofocus (manual focusing)
Camera - positioning	natural orientation, central position (glare-free), position adjustable (mirror function)
User input	function key, shift paddle, menu button separately, button for reading line/reading line, remote control, selection dial
User support	high-contrast function keys, tactile function keys, large icons, high-contrast symbols, confirmation tones, multilingual, charging status indicator (LED), charging status indicator (screen icon), orientation aids on the housing, positioning aids on the housing, folding mechanism with snap-in function
Menu languages	DE, EN, SO, IT, ES
Display modes	true colours, white/black, black/white, yellow/black, black/yellow, yellow/blue, blue/yellow, green/black, black/green, white/red, red/white, violet/black, black/violet, black/orange, orange/black

Dimensions

Dimensions	46 x 37.8 x 13.2 cm
Weight	6.3 kg

Extended features

Reading guideline	reading line & reading line
DLS - Dynamic Line Scrolling	Yes
Blue light filter	Yes
Live image from external source	yes (HDMI In)
Live image output	no
Mirror function	yes
Remote Control	yes (remote control included)
Show date/time	yes (format selectable)

Photo function

Image recording	yes (with function key)
Image view	photo gallery function, PC (via USB port), PC (via SD card)
Extended image view	adjustable magnification, adjustable display mode/contrast, DLS - dynamic line scrolling in the picture
Image resolution	1920 x 1080 px
Supported file formats	jpg
Image Memory/Storage	SD-Speicherkarte SDHC (bis 32GB)
Total storage space/capacity (in scope of delivery)	8 GB

Technical properties

Power supply	power supply (external)
Power supply charging device	In: 100-240VAC 50/60Hz 1.5A max, Out: 19VDC 3.42A
Operating temperature	10 – 40 °C
Charging port	Rund-Hohlstecker
Port for data transmission to PC	USB-C

Video image output	no
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Video Image Input	HDMI Typ A
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Warranty Electronic Aids

Warranty (Product)	2 years
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Warranty (Battery)	6 months
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vario DIGITAL 16 FHD Advanced T

ART. NR. 1659163



Product Benefits

vario DIGITAL FHD Advanced has additional functions to provide even better reading comfort:

- ✓ Dynamic Line Scrolling: the reading area can be moved horizontally and vertically in the display
- ✓ Incl. remote control for even greater operating comfort
- ✓ Additional HDMI input for connection to an external camera with live image transmission
- ✓ Thanks to its flexible design, the device can also be used as a mirror
- ✓ incl. X/Y table
- ✓ Included in delivery: remote control, HDMI cable, USB Type C cable, 8 GB SD card, universal charging device for worldwide use, microfibre case

Product Properties

Also available with the following options: X/Y table

- Movable cross table for even greater comfort when reading
- Stable and ergonomic
- Individual adjustment thanks to horizontal and vertical brakes

Rechargeable battery

- Even more versatile to use thanks to battery operation
- Operating time 4.5 hours
- Charging time: 3.5 hours

Product Accessories

Accessories: 1659109 vario DIGITAL Bag

- ✓ Padded carry bag (suitable for all versions)

- ✓ With carrying handle and carrying strap
- ✓ Space for charging cable, remote control and other accessories

Technical data

Accessories

Accessories (included)	USB cable (type USB-C), HDMI cable (type A), SD card (pre-loaded), remote control with batteries, microfibre cloth, operating instructions (multilingual), Integrated XY table, mains charger with country adapter (EU, GB, US, AU)
Additional accessories	comfort-carry bag

Use/Application

Supported task	Reading, Writing, freehanded working
Installation	positioned, standing up
Ergonomic	Screen height adjustment, Screen tilt adjustment, XY-table

basic properties

Magnification	1.3 – 45 x
Display Technology	TFT-LCD, reflexionsfrei
Screen size/diagonal in cm	39.6 cm
Screen size/diagonal in Inch	15.6 "
Screen resolution	1920 x 1080px
Screen lightness	yes (multistage)
Lighting image tray/support	several LEDs (glare-free), brightness adjustable (per LED), lighting can be switched off (per LED group)
Camera - type	AF - Autofocus (manual focusing)
Camera - positioning	natural orientation, central position (glare-free), position adjustable (mirror function)

User input	function key, shift paddle, menu button separately, button for reading line/reading line, remote control, selection dial
User support	high-contrast function keys, tactile function keys, large icons, high-contrast symbols, confirmation tones, multilingual, charging status indicator (LED), charging status indicator (screen icon), orientation aids on the housing, positioning aids on the housing, folding mechanism with snap-in function
Menu languages	DE, EN, SO, IT, ES
Display modes	true colours, white/black, black/white, yellow/black, black/yellow, yellow/blue, blue/yellow, green/black, black/green, white/red, red/white, violet/black, black/violet, black/orange, orange/black

Dimensions

Dimensions	50 x 43.5 x 16 cm
Weight	8.7 kg

Extended features

Reading guideline	reading line & reading line
DLS - Dynamic Line Scrolling	Yes
Blue light filter	Yes
Live image from external source	yes (HDMI In)
Live image output	no

Mirror function	yes
Remote Control	yes (remote control included)
Show date/time	yes (format selectable)

Photo function

Image recording	yes (with function key)
Image view	photo gallery function, PC (via USB port), PC (via SD card)
Extended image view	adjustable magnification, adjustable display mode/contrast, DLS - dynamic line scrolling in the picture
Image resolution	1920 x 1080 px
Supported file formats	jpg
Image Memory/Storage	SD-Speicherkarte SDHC (bis 32GB)
Total storage space/capacity (in scope of delivery)	8 GB

Technical properties

Power supply	power supply (external)
Power supply charging device	In: 100-240VAC 50/60Hz 1.5A max, Out: 19VDC 3.42A
Operating temperature	10 – 40 °C
Charging port	Rund-Hohlstecker
Port for data transmission to PC	USB-C
Video image output	no
Video Image Input	HDMI Typ A

Warranty Electronic Aids

Warranty (Product)	2 years
Warranty (Battery)	6 months

vario DIGITAL 16 FHD Advanced B

ART. NR. 1659162



Product Benefits

- ✓ Best image quality
- ✓ Very large field of view and true colour image reproduction
- ✓ Portable use thanks to the user-friendly folding mechanism and ergonomic handle
- ✓ Simple to use
- ✓ Intuitively positioned operating buttons and dials
- ✓ Simple menu navigation
- ✓ Smooth zoom in even steps
- ✓ Homogeneous and shadow-free illumination is provided by LEDs in the base arm and on the underside of the monitor
- ✓ Ergonomic handle
- ✓ High level of mechanical stability to protect against vibrations
- ✓ Connection to an external camera with live image transmission

Product Properties

- High-definition camera with optical digital zoom
- Large magnification range from 1.3x to 45x
- Non-reflective LCD TFT screen in 15.6" format
- Pin sharp, true colour image in full HD resolution
- Fast autofocus ensures perfect reading comfort at all times
- The autofocus can be switched off to make it even easier to write under the device
- Large field of view of 265 mm
- Dynamic Line Scrolling: the reading area can be moved horizontally and vertically in the display
- Incl. remote control for even greater operating comfort
- Additional HDMI input for connection to an external camera with live image transmission
- Powerful LED lights
- Optional orientation guides with a reading line or mask

- Speedy orientation thanks to an overview display
- Thanks to its flexible design, the device can also be used as a mirror
- User-friendly menu with adjustment options to suit your individual needs
- Clear voice output for all menu stages (can be switched off)
- 14 contrast-enhanced false colour modes
- Photo function with option of saving photos on inserted SD card (can be switched off)
- Stable, robust and ergonomic
- The tilting camera makes it easier to carry out handicraft work and enables you to read the upper area of the reading material more easily
- The camera has a cover to protect against dust and dirt
- Users can carry out software updates and resets themselves
- USB Type C port for data transmission
- Weight: 6.6 kg
- Incl. lithium-ion battery
- Operating time: 4.5 hours
- Charging time 3.5 hours
- Included in delivery: Remote control, HDMI cable, USB Type C cable, 8 GB SD card, universal charging device for worldwide use, microfibre case

Product Accessories

Eschenbach Optik regularly publishes an update of the software for the vario DIGITAL FHD Advanced. To receive the latest version, please register your vario DIGITAL FHD Advanced at "Product Registration".

Technical data

Accessories

Accessories (included)	Integrated battery, USB cable (type USB-C), HDMI cable (type A), SD card (pre-loaded), remote control with batteries, microfibre cloth, operating instructions (multilingual), mains charger with country adapter (EU, GB, US, AU)
Additional accessories	comfort-carry bag

Use/Application

Supported task	Reading, Writing, freehanded working
Installation	positioned, standing up
Ergonomic	Screen height adjustment, Screen tilt adjustment

basic properties

Magnification	1.3 – 45 x
Display Technology	TFT-LCD, reflexionsfrei
Screen size/diagonal in cm	39.6 cm
Screen size/diagonal in Inch	15.6 "
Screen resolution	1920 x 1080px
Screen lightness	yes (multistage)
Lighting image tray/support	several LEDs (glare-free), brightness adjustable (per LED), lighting can be switched off (per LED group)
Camera - type	AF - Autofocus (manual focusing)
Camera - positioning	natural orientation, central position (glare-free), position adjustable (mirror function)
User input	function key, shift paddle, menu button separately, button for reading line/reading line, remote control, selection dial
User support	high-contrast function keys, tactile function keys, large icons, high-contrast symbols, confirmation tones, multilingual, charging status indicator (LED), charging status indicator (screen icon), orientation aids on the housing, positioning aids on the housing, folding mechanism with snap-in function
Menu languages	DE, EN, SO, IT, ES

Display modes	true colours, white/black, black/white, yellow/black, black/yellow, yellow/blue, blue/yellow, green/black, black/green, white/red, red/white, violet/black, black/violet, black/orange, orange/black
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Dimensions

Dimensions	46 x 37.8 x 13.2 cm
Weight	6.6 kg

Extended features

Reading guideline	reading line & reading line
DLS - Dynamic Line Scrolling	Yes
Blue light filter	Yes
Live image from external source	yes (HDMI In)
Live image output	no
Mirror function	yes
Remote Control	yes (remote control included)
Show date/time	yes (format selectable)

Photo function

Image recording	yes (with function key)
Image view	photo gallery function, PC (via USB port), PC (via SD card)
Extended image view	adjustable magnification, adjustable display mode/contrast, DLS - dynamic line scrolling in the picture
Image resolution	1920 x 1080 px
Supported file formats	jpg
Image Memory/Storage	SD-Speicherkarte SDHC (bis 32GB)

Total storage space/capacity (in scope of delivery)	8 GB
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Technical properties

Power supply	battery (integrated)
Installed battery	iones de litio
Operating Time (Battery)/Battery run time	4.6 h
Charging time	3.3 h
Power supply charging device	In: 100-240VAC 50/60Hz 1.5A max, Out: 19VDC 3.42A
Operating temperature	10 – 40 °C
Charging port	Rund-Hohlstecker
Port for data transmission to PC	USB-C
Video image output	no
Video Image Input	HDMI Typ A

Warranty Electronic Aids

Warranty (Product)	2 years
Warranty (Battery)	6 months

vario DIGITAL 16 FHD Advanced TB

ART. NR. 1659161



Product Benefits

vario DIGITAL FHD Advanced has additional functions to provide even better reading comfort:

- ✓ Dynamic Line Scrolling: the reading area can be moved horizontally and vertically in the display
- ✓ Incl. remote control for even greater operating comfort
- ✓ Additional HDMI input for connection to an external camera with live image transmission
- ✓ Thanks to its flexible design, the device can also be used as a mirror
- ✓ incl. lithium ion rechargeable battery and X/Y table
- ✓ Weight: 6.3 kg (incl. rechargeable battery: 6.6 kg, incl. X/Y table: 10 kg)
- ✓ Included in delivery: remote control, HDMI cable, USB Type C cable, 8 GB SD card, universal charging device for worldwide use, microfibre case

Product Properties

Also available with the following options:

X/Y table

- Movable cross table for even greater comfort when reading
- Stable and ergonomic
- Individual adjustment thanks to horizontal and vertical brakes

Rechargeable battery

- Even more versatile to use thanks to battery operation
- Operating time 4.5 hours
- Charging time: 3.5 hours

Product Accessories

Accessories:

1659109 vario DIGITAL Bag

- ✓ Padded carry bag (suitable for all versions)
- ✓ With carrying handle and carrying strap
- ✓ Space for charging cable, remote control and other accessories

Technical data

Accessories

Accessories (included)	Integrated battery, Integrated XY table, USB cable (type USB-C), HDMI cable (type A), SD card (pre-loaded), remote control with batteries, microfibre cloth, operating instructions (multilingual), mains charger with country adapter (EU, GB, US, AU)
Additional accessories	comfort-carry bag

Use/Application

Supported task	Reading, Writing, freehanded working
Installation	positioned, standing up
Ergonomic	Screen height adjustment, Screen tilt adjustment, XY-table

basic properties

Magnification	1.3 – 45 x
Display Technology	TFT-LCD, reflexionsfrei
Screen size/diagonal in cm	39.6 cm
Screen size/diagonal in Inch	15.6 "
Screen resolution	1920 x 1080px
Screen lightness	yes (multistage)

Lighting image tray/support	several LEDs (glare-free), brightness adjustable (per LED), lighting can be switched off (per LED group)
Camera - type	AF - Autofocus (manual focusing)
Camera - positioning	natural orientation, central position (glare-free), position adjustable (mirror function)
User input	function key, shift paddle, menu button separately, button for reading line/reading line, remote control, selection dial
User support	high-contrast function keys, tactile function keys, large icons, high-contrast symbols, confirmation tones, multilingual, charging status indicator (LED), charging status indicator (screen icon), orientation aids on the housing, positioning aids on the housing, folding mechanism with snap-in function
Menu languages	DE, EN, SO, IT, ES
Display modes	true colours, white/black, black/white, yellow/black, black/yellow, yellow/blue, blue/yellow, green/black, black/green, white/red, red/white, violet/black, black/violet, black/orange, orange/black

Dimensions

Dimensions	50 x 43.5 x 16 cm
Weight	9 kg

Extended features

Reading guideline	reading line & reading line
DLS - Dynamic Line Scrolling	Yes
Blue light filter	Yes
Live image from external source	yes (HDMI In)
Live image output	no
Mirror function	yes
Remote Control	yes (remote control included)
Show date/time	yes (format selectable)

Photo function

Image recording	yes (with function key)
Image view	photo gallery function, PC (via USB port), PC (via SD card)
Extended image view	adjustable magnification, adjustable display mode/contrast, DLS - dynamic line scrolling in the picture
Image resolution	1920 x 1080 px
Supported file formats	jpg
Image Memory/Storage	SD-Speicherkarte SDHC (bis 32GB)
Total storage space/capacity (in scope of delivery)	8 GB

Technical properties

Power supply	battery (integrated)
Installed battery	lones de litio
Operating Time (Battery)/Battery run time	4.6 h
Charging time	3.3 h
Power supply charging device	In: 100-240VAC 50/60Hz 1.5A max, Out: 19VDC 3.42A
Operating temperature	10 – 40 °C
Charging port	Rund-Hohlstecker
Port for data transmission to PC	USB-C
Video image output	no
Video Image Input	HDMI Typ A

Warranty Electronic Aids

Warranty (Product)	2 years
Warranty (Battery)	6 months

vario DIGITAL 22 FHD Advanced



Product Benefits

- ✓ The proven vario DIGITAL concept now also available in the 22-inch class
- ✓ Best imaging quality and easy operation
- ✓ Extra-large display and field of view with up to 100x magnification
- ✓ Intuitively positioned operating buttons and dials
- ✓ Simple menu navigation
- ✓ Smooth zoom in even steps
- ✓ Homogeneous and shadow-free illumination is provided by LEDs in the base arm and on the underside of the monitor
- ✓ Safe and ergonomic installation with user-friendly folding mechanism

Product Properties

- Reflection-free 22" LCD TFT display
- Pin sharp, true colour image in full HD resolution
- 1.6x – 100x magnification with a smooth zoom response
- Full HD camera with 12x optical zoom
- Fast autofocus ensures perfect reading comfort at all times
- The autofocus can be switched off to make it even easier to write under the device
- Very large horizontal field of view of 546 mm
- 14 contrast-enhancing false colour modes and switchable blue light filter
- Dynamic Line Scrolling: the reading area can be moved horizontally and vertically in the display
- Operation via intuitively positioned operating buttons and an easily navigable menu
- Incl. remote control for even greater operating comfort
- Additional HDMI input for connection to an external camera with live image transmission
- Homogeneous, shadow-free LED lighting
- Optional orientation guides with a reading line or mask
- Speedy orientation thanks to an overview display
- The menu has a clear voice output in five languages (may be switched off)
- Photo function with option of saving photos on inserted SD card (can be switched off)

- USB Type C port for data transmission
- The camera has a cover to protect against dust and dirt
- Users can carry out software updates and resets themselves
- User-friendly folding mechanism
- Handy, ergonomic carrying handle
- Weight: 8.9 kg
- Supplied with operating instructions, AC adapter, mains cable for EU, US, GB, AU, USB cable (Type C), microfibre cloth (incl. remote control and HDMI cable for vario DIGITAL 22 FHD Advanced)
- Comfortable and safe carrying bag can be ordered as an accessory (item no. 1659109)

Product Accessories

Eschenbach Optik regularly publishes an update of the software for the vario DIGITAL FHD Advanced. To receive the latest version, please register your vario DIGITAL FHD Advanced at "Product Registration".

Technical data

Accessories

Accessories (included)	USB cable (type USB-C), HDMI cable (type A), SD card (pre-loaded), remote control with batteries, microfibre cloth, operating instructions (multilingual), installation instructions, mains charger with country adapter (EU, GB, US, AU)
Additional accessories	comfort-carry bag

Use/Application

Supported task	Reading, freehanded working
Installation	positioned, standing up
Ergonomic	Screen height adjustment

basic properties

Magnification	1.6 – 100 x
Display Technology	TFT-LCD, reflexionsfrei
Screen size/diagonal in cm	54.6 cm
Screen size/diagonal in Inch	21.5 "
Screen resolution	1920 x 1080px

Screen lightness	yes (multistage)
Lighting image tray/support	brightness adjustable (per LED group), lighting can be switched off (per LED group), several LEDs (glare-free)
Camera - type	AF - Autofocus (manual focusing)
Camera - positioning	natural orientation, central position (glare-free)
User input	function key, selection dial, shift paddle, menu button separately, button for reading line/reading line, remote control
User support	high-contrast function keys, tactile function keys, large icons, high-contrast symbols, confirmation tones, multilingual, charging status indicator (LED), charging status indicator (screen icon), orientation aids on the housing, positioning aids on the housing, folding mechanism with snap-in function
Menu languages	DE, EN, SO, IT, ES
Display modes	true colours, white/black, black/white, yellow/black, black/yellow, yellow/blue, blue/yellow, green/black, black/green, white/red, red/white, violet/black, black/violet, black/orange, orange/black

Dimensions

Dimensions	50 x 52 x 15 cm
Weight	8.9 kg

Extended features

Reading guideline	reading line & reading line
DLS - Dynamic Line Scrolling	Yes
Blue light filter	Yes
Live image from external source	yes (HDMI In)
Live image output	no
Mirror function	yes (external image source)
Remote Control	yes (remote control included)
Show date/time	yes (format selectable)

Photo function

Image recording	yes (with function key)
Image view	photo gallery function, PC (via USB port), PC (via SD card)
Extended image view	adjustable magnification, adjustable display mode/contrast, DLS - dynamic line scrolling in the picture
Image resolution	1920 x 1080 px
Supported file formats	jpg
Image Memory/Storage	SD-Speicherkarte SDHC (bis 32GB)
Total storage space/capacity (in scope of delivery)	8 GB

Technical properties

Power supply	power supply (external)
Power supply charging device	In: 100-240VAC 50/60Hz 1.5A max, Out: 19VDC 3.42A
Operating temperature	10 – 40 °C
Charging port	Rund-Hohlstecker
Port for data transmission to PC	USB-C
Video image output	no
Video Image Input	HDMI Typ A

Warranty Electronic Aids

Warranty (Product)

2 years

Warranty (Battery)

6 months

Variants



vario DIGITAL 22 FHD Advanced



vario DIGITAL 22 FHD Advanced B



vario DIGITAL 22 FHD Advanced T



vario DIGITAL 22 FHD Advanced TB

vario DIGITAL 22 FHD Advanced

ART. NR. 165922



Product Benefits

- ✓ The proven vario DIGITAL concept now also available in the 22-inch class
- ✓ Best imaging quality and easy operation
- ✓ Extra-large display and field of view with up to 100x magnification
- ✓ Intuitively positioned operating buttons and dials
- ✓ Simple menu navigation
- ✓ Smooth zoom in even steps
- ✓ Homogeneous and shadow-free illumination is provided by LEDs in the base arm and on the underside of the monitor
- ✓ Safe and ergonomic installation with user-friendly folding mechanism

Product Properties

- Reflection-free 22" LCD TFT display
- Pin sharp, true colour image in full HD resolution
- 1.6x – 100x magnification with a smooth zoom response
- Full HD camera with 12x optical zoom
- Fast autofocus ensures perfect reading comfort at all times
- The autofocus can be switched off to make it even easier to write under the device
- Very large horizontal field of view of 546 mm
- 14 contrast-enhancing false colour modes and switchable blue light filter
- Dynamic Line Scrolling: the reading area can be moved horizontally and vertically in the display
- Operation via intuitively positioned operating buttons and an easily navigable menu
- Incl. remote control for even greater operating comfort
- Additional HDMI input for connection to an external camera with live image transmission
- Homogeneous, shadow-free LED lighting
- Optional orientation guides with a reading line or mask
- Speedy orientation thanks to an overview display

- The menu has a clear voice output in five languages (may be switched off)
- Photo function with option of saving photos on inserted SD card (can be switched off)
- USB Type C port for data transmission
- The camera has a cover to protect against dust and dirt
- Users can carry out software updates and resets themselves
- User-friendly folding mechanism
- Handy, ergonomic carrying handle
- Weight: 8.9 kg
- Supplied with operating instructions, AC adapter, mains cable for EU, US, GB, AU, USB cable (Type C), microfibre cloth (incl. remote control and HDMI cable for vario DIGITAL 22 FHD Advanced)
- Comfortable and safe carrying bag can be ordered as an accessory (item no. 1659109)

Product Accessories

Eschenbach Optik regularly publishes an update of the software for the vario DIGITAL FHD Advanced. To receive the latest version, please register your vario DIGITAL FHD Advanced at "Product Registration".

Technical data

Accessories

Accessories (included)	USB cable (type USB-C), HDMI cable (type A), SD card (pre-loaded), remote control with batteries, microfibre cloth, operating instructions (multilingual), installation instructions, mains charger with country adapter (EU, GB, US, AU)
Additional accessories	comfort-carry bag

Use/Application

Supported task	Reading, freehanded working
Installation	positioned, standing up
Ergonomic	Screen height adjustment

basic properties

Magnification	1.6 – 100 x
Display Technology	TFT-LCD, reflexionsfrei
Screen size/diagonal in cm	54.6 cm
Screen size/diagonal in Inch	21.5 "

Screen resolution	1920 x 1080px
Screen lightness	yes (multistage)
Lighting image tray/support	brightness adjustable (per LED group), lighting can be switched off (per LED group), several LEDs (glare-free)
Camera - type	AF - Autofocus (manual focusing)
Camera - positioning	natural orientation, central position (glare-free)
User input	function key, selection dial, shift paddle, menu button separately, button for reading line/reading line, remote control
User support	high-contrast function keys, tactile function keys, large icons, high-contrast symbols, confirmation tones, multilingual, charging status indicator (LED), charging status indicator (screen icon), orientation aids on the housing, positioning aids on the housing, folding mechanism with snap-in function
Menu languages	DE, EN, SO, IT, ES
Display modes	true colours, white/black, black/white, yellow/black, black/yellow, yellow/blue, blue/yellow, green/black, black/green, white/red, red/white, violet/black, black/violet, black/orange, orange/black

Dimensions

Dimensions	50 x 52 x 15 cm
Weight	8.9 kg

Extended features

Reading guideline	reading line & reading line
DLS - Dynamic Line Scrolling	Yes
Blue light filter	Yes
Live image from external source	yes (HDMI In)
Live image output	no
Mirror function	yes (external image source)
Remote Control	yes (remote control included)
Show date/time	yes (format selectable)

Photo function

Image recording	yes (with function key)
Image view	photo gallery function, PC (via USB port), PC (via SD card)
Extended image view	adjustable magnification, adjustable display mode/contrast, DLS - dynamic line scrolling in the picture
Image resolution	1920 x 1080 px
Supported file formats	jpg
Image Memory/Storage	SD-Speicherkarte SDHC (bis 32GB)
Total storage space/capacity (in scope of delivery)	8 GB

Technical properties

Power supply	power supply (external)
Power supply charging device	In: 100-240VAC 50/60Hz 1.5A max, Out: 19VDC 3.42A
Operating temperature	10 – 40 °C
Charging port	Rund-Hohlstecker
Port for data transmission to PC	USB-C
Video image output	no
Video Image Input	HDMI Typ A

Warranty Electronic Aids

Warranty (Product)	2 years
Warranty (Battery)	6 months

vario DIGITAL 22 FHD Advanced T

ART. NR. 1659223



Product Benefits

- ✓ The proven vario DIGITAL concept now also available in the 22-inch class
- ✓ Best imaging quality and easy operation
- ✓ Extra-large display and field of view with up to 100x magnification
- ✓ Intuitively positioned operating buttons and dials
- ✓ Simple menu navigation
- ✓ Smooth zoom in even steps
- ✓ Homogeneous and shadow-free illumination is provided by LEDs in the base arm and on the underside of the monitor
- ✓ Safe and ergonomic installation with user-friendly folding mechanism

Product Properties

- Reflection-free 22" LCD TFT display
- Pin sharp, true colour image in full HD resolution
- 1.6x – 100x magnification with a smooth zoom response
- Full HD camera with 12x optical zoom
- Fast autofocus ensures perfect reading comfort at all times
- The autofocus can be switched off to make it even easier to write under the device
- Very large horizontal field of view of 546 mm
- 14 contrast-enhancing false colour modes and switchable blue light filter
- Dynamic Line Scrolling: the reading area can be moved horizontally and vertically in the display
- Operation via intuitively positioned operating buttons and an easily navigable menu
- Incl. remote control for even greater operating comfort
- Additional HDMI input for connection to an external camera with live image transmission
- Homogeneous, shadow-free LED lighting
- Optional orientation guides with a reading line or mask
- Speedy orientation thanks to an overview display

- The menu has a clear voice output in five languages (may be switched off)
- Photo function with option of saving photos on inserted SD card (can be switched off)
- USB Type C port for data transmission
- The camera has a cover to protect against dust and dirt
- Users can carry out software updates and resets themselves
- User-friendly folding mechanism
- Handy, ergonomic carrying handle
- Weight: 8.9 kg
- Supplied with operating instructions, AC adapter, mains cable for EU, US, GB, AU, USB cable (Type C), microfibre cloth (incl. remote control and HDMI cable for vario DIGITAL 22 FHD Advanced)
- Comfortable and safe carrying bag can be ordered as an accessory (item no. 1659109)

Product Accessories

Eschenbach Optik regularly publishes an update of the software for the vario DIGITAL FHD Advanced. To receive the latest version, please register your vario DIGITAL FHD Advanced at "Product Registration".

Technical data

Accessories

Accessories (included)	Integrated XY table, USB cable (type USB-C), HDMI cable (type A), SD card (pre-loaded), remote control with batteries, microfibre cloth, operating instructions (multilingual), installation instructions, mains charger with country adapter (EU, GB, US, AU)
Additional accessories	comfort-carry bag

Use/Application

Supported task	Reading, freehanded working
Installation	positioned, standing up
Ergonomic	Screen height adjustment, XY-table

basic properties

Magnification	1.6 – 100 x
Display Technology	TFT-LCD, reflexionsfrei
Screen size/diagonal in cm	54.6 cm

Screen size/diagonal in Inch	21.5 "
Screen resolution	1920 x 1080px
Screen lightness	yes (multistage)
Lighting image tray/support	brightness adjustable (per LED group), lighting can be switched off (per LED group), several LEDs (glare-free)
Camera - type	AF - Autofocus (manual focusing)
Camera - positioning	natural orientation, central position (glare-free)
User input	function key, selection dial, shift paddle, menu button separately, button for reading line/reading line, remote control
User support	high-contrast function keys, tactile function keys, large icons, high-contrast symbols, confirmation tones, multilingual, charging status indicator (LED), charging status indicator (screen icon), orientation aids on the housing, positioning aids on the housing, folding mechanism with snap-in function
Menu languages	DE, EN, SO, IT, ES
Display modes	true colours, white/black, black/white, yellow/black, black/yellow, yellow/blue, blue/yellow, green/black, black/green, white/red, red/white, violet/black, black/violet, black/orange, orange/black

Dimensions

Dimensions	53 x 52 x 18 cm
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Weight

11.6 kg

Extended features

Reading guideline	reading line & reading line
DLS - Dynamic Line Scrolling	Yes
Blue light filter	Yes
Live image from external source	yes (HDMI In)
Live image output	no
Mirror function	yes (external image source)
Remote Control	yes (remote control included)
Show date/time	yes (format selectable)

Photo function

Image recording	yes (with function key)
Image view	photo gallery function, PC (via USB port), PC (via SD card)
Extended image view	adjustable magnification, adjustable display mode/contrast, DLS - dynamic line scrolling in the picture
Image resolution	1920 x 1080 px
Supported file formats	jpg
Image Memory/Storage	SD-Speicherkarte SDHC (bis 32GB)
Total storage space/capacity (in scope of delivery)	8 GB

Technical properties

Power supply	power supply (external)
Power supply charging device	In: 100-240VAC 50/60Hz 1.5A max, Out: 19VDC 3.42A
Operating temperature	10 – 40 °C
Charging port	Rund-Hohlstecker
Port for data transmission to PC	USB-C
Video image output	no
Video Image Input	HDMI Typ A

Warranty Electronic Aids

Warranty (Product)	2 years
Warranty (Battery)	6 months

vario DIGITAL 22 FHD Advanced TB

ART. NR. 1659221



Product Benefits

- ✓ The proven vario DIGITAL concept now also available in the 22-inch class
- ✓ Best imaging quality and easy operation
- ✓ Extra-large display and field of view with up to 100x magnification
- ✓ Intuitively positioned operating buttons and dials
- ✓ Simple menu navigation
- ✓ Smooth zoom in even steps
- ✓ Homogeneous and shadow-free illumination is provided by LEDs in the base arm and on the underside of the monitor
- ✓ Safe and ergonomic installation with user-friendly folding mechanism

Product Properties

- Reflection-free 22" LCD TFT display
- Pin sharp, true colour image in full HD resolution
- 1.6x – 100x magnification with a smooth zoom response
- Full HD camera with 12x optical zoom
- Fast autofocus ensures perfect reading comfort at all times
- The autofocus can be switched off to make it even easier to write under the device
- Very large horizontal field of view of 546 mm
- 14 contrast-enhancing false colour modes and switchable blue light filter
- Dynamic Line Scrolling: the reading area can be moved horizontally and vertically in the display
- Operation via intuitively positioned operating buttons and an easily navigable menu
- Incl. remote control for even greater operating comfort
- Additional HDMI input for connection to an external camera with live image transmission
- Homogeneous, shadow-free LED lighting
- Optional orientation guides with a reading line or mask
- Speedy orientation thanks to an overview display

- The menu has a clear voice output in five languages (may be switched off)
- Photo function with option of saving photos on inserted SD card (can be switched off)
- USB Type C port for data transmission
- The camera has a cover to protect against dust and dirt
- Users can carry out software updates and resets themselves
- User-friendly folding mechanism
- Handy, ergonomic carrying handle
- Weight: 8.9 kg
- Supplied with operating instructions, AC adapter, mains cable for EU, US, GB, AU, USB cable (Type C), microfibre cloth (incl. remote control and HDMI cable for vario DIGITAL 22 FHD Advanced)
- Comfortable and safe carrying bag can be ordered as an accessory (item no. 1659109)

Product Accessories

Eschenbach Optik regularly publishes an update of the software for the vario DIGITAL FHD Advanced. To receive the latest version, please register your vario DIGITAL FHD Advanced at "Product Registration".

Technical data

Accessories

Accessories (included)	Integrated battery, Integrated XY table, USB cable (type USB-C), HDMI cable (type A), SD card (pre-loaded), remote control with batteries, microfibre cloth, operating instructions (multilingual), installation instructions, mains charger with country adapter (EU, GB, US, AU)
Additional accessories	comfort-carry bag

Use/Application

Supported task	Reading, freehanded working
Installation	positioned, standing up
Ergonomic	Screen height adjustment, XY-table

basic properties

Magnification	1.6 – 100 x
Display Technology	TFT-LCD, reflexionsfrei

Screen size/diagonal in cm	54.6 cm
Screen size/diagonal in Inch	21.5 "
Screen resolution	1920 x 1080px
Screen lightness	yes (multistage)
Lighting image tray/support	brightness adjustable (per LED group), lighting can be switched off (per LED group), several LEDs (glare-free)
Camera - type	AF - Autofocus (manual focusing)
Camera - positioning	natural orientation, central position (glare-free)
User input	function key, selection dial, shift paddle, menu button separately, button for reading line/reading line, remote control
User support	high-contrast function keys, tactile function keys, large icons, high-contrast symbols, confirmation tones, multilingual, charging status indicator (LED), charging status indicator (screen icon), orientation aids on the housing, positioning aids on the housing, folding mechanism with snap-in function
Menu languages	DE, EN, SO, IT, ES
Display modes	true colours, white/black, black/white, yellow/black, black/yellow, yellow/blue, blue/yellow, green/black, black/green, white/red, red/white, violet/black, black/violet, black/orange, orange/black

Dimensions

Dimensions	53 x 52 x 18 cm
Weight	11.9 kg

Extended features

Reading guideline	reading line & reading line
DLS - Dynamic Line Scrolling	Yes
Blue light filter	Yes
Live image from external source	yes (HDMI In)
Live image output	no
Mirror function	yes (external image source)
Remote Control	yes (remote control included)
Show date/time	yes (format selectable)

Photo function

Image recording	yes (with function key)
Image view	photo gallery function, PC (via USB port), PC (via SD card)
Extended image view	adjustable magnification, adjustable display mode/contrast, DLS - dynamic line scrolling in the picture
Image resolution	1920 x 1080 px
Supported file formats	jpg
Image Memory/Storage	SD-Speicherkarte SDHC (bis 32GB)
Total storage space/capacity (in scope of delivery)	8 GB

Technical properties

Power supply	battery (integrated)
Installed battery	lones de litio
Operating Time (Battery)/Battery run time	2.5 h
Charging time	4.8 h
Power supply charging device	In: 100-240VAC 50/60Hz 1.5A max, Out: 19VDC 3.42A
Operating temperature	10 – 40 °C
Charging port	Rund-Hohlstecker

Port for data transmission to PC	USB-C
Video image output	no
Video Image Input	HDMI Typ A

Warranty Electronic Aids

Warranty (Product)	2 years
Warranty (Battery)	6 months

vario DIGITAL 22 FHD Advanced B

ART. NR. 1659222



Product Benefits

- ✓ The proven vario DIGITAL concept now also available in the 22-inch class
- ✓ Best imaging quality and easy operation
- ✓ Extra-large display and field of view with up to 100x magnification
- ✓ Intuitively positioned operating buttons and dials
- ✓ Simple menu navigation
- ✓ Smooth zoom in even steps
- ✓ Homogeneous and shadow-free illumination is provided by LEDs in the base arm and on the underside of the monitor
- ✓ Safe and ergonomic installation with user-friendly folding mechanism

Product Properties

- Reflection-free 22" LCD TFT display
- Pin sharp, true colour image in full HD resolution
- 1.6x – 100x magnification with a smooth zoom response
- Full HD camera with 12x optical zoom
- Fast autofocus ensures perfect reading comfort at all times
- The autofocus can be switched off to make it even easier to write under the device
- Very large horizontal field of view of 546 mm
- 14 contrast-enhancing false colour modes and switchable blue light filter
- Dynamic Line Scrolling: the reading area can be moved horizontally and vertically in the display
- Operation via intuitively positioned operating buttons and an easily navigable menu
- Incl. remote control for even greater operating comfort
- Additional HDMI input for connection to an external camera with live image transmission
- Homogeneous, shadow-free LED lighting
- Optional orientation guides with a reading line or mask
- Speedy orientation thanks to an overview display

- The menu has a clear voice output in five languages (may be switched off)
- Photo function with option of saving photos on inserted SD card (can be switched off)
- USB Type C port for data transmission
- The camera has a cover to protect against dust and dirt
- Users can carry out software updates and resets themselves
- User-friendly folding mechanism
- Handy, ergonomic carrying handle
- Weight: 8.9 kg
- Supplied with operating instructions, AC adapter, mains cable for EU, US, GB, AU, USB cable (Type C), microfibre cloth (incl. remote control and HDMI cable for vario DIGITAL 22 FHD Advanced)
- Comfortable and safe carrying bag can be ordered as an accessory (item no. 1659109)

Product Accessories

Eschenbach Optik regularly publishes an update of the software for the vario DIGITAL FHD Advanced. To receive the latest version, please register your vario DIGITAL FHD Advanced at "Product Registration".

Technical data

Accessories

Accessories (included)	Integrated battery, USB cable (type USB-C), HDMI cable (type A), SD card (pre-loaded), remote control with batteries, microfibre cloth, operating instructions (multilingual), installation instructions, mains charger with country adapter (EU, GB, US, AU)
Additional accessories	comfort-carry bag

Use/Application

Supported task	Reading, freehanded working
Installation	positioned, standing up
Ergonomic	Screen height adjustment

basic properties

Magnification	1.6 – 100 x
Display Technology	TFT-LCD, reflexionsfrei
Screen size/diagonal in cm	54.6 cm

Screen size/diagonal in Inch	21.5 "
Screen resolution	1920 x 1080px
Screen lightness	yes (multistage)
Lighting image tray/support	brightness adjustable (per LED group), lighting can be switched off (per LED group), several LEDs (glare-free)
Camera - type	AF - Autofocus (manual focusing)
Camera - positioning	natural orientation, central position (glare-free)
User input	function key, selection dial, shift paddle, menu button separately, button for reading line/reading line, remote control
User support	high-contrast function keys, tactile function keys, large icons, high-contrast symbols, confirmation tones, multilingual, charging status indicator (LED), charging status indicator (screen icon), orientation aids on the housing, positioning aids on the housing, folding mechanism with snap-in function
Menu languages	DE, EN, SO, IT, ES
Display modes	true colours, white/black, black/white, yellow/black, black/yellow, yellow/blue, blue/yellow, green/black, black/green, white/red, red/white, violet/black, black/violet, black/orange, orange/black

Dimensions

Dimensions	50 x 52 x 15 cm
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Weight

9.2 kg

Extended features

Reading guideline	reading line & reading line
DLS - Dynamic Line Scrolling	Yes
Blue light filter	Yes
Live image from external source	yes (HDMI In)
Live image output	no
Mirror function	yes (external image source)
Remote Control	yes (remote control included)
Show date/time	yes (format selectable)

Photo function

Image recording	yes (with function key)
Image view	photo gallery function, PC (via USB port), PC (via SD card)
Extended image view	adjustable magnification, adjustable display mode/contrast, DLS - dynamic line scrolling in the picture
Image resolution	1920 x 1080 px
Supported file formats	jpg
Image Memory/Storage	SD-Speicherkarte SDHC (bis 32GB)
Total storage space/capacity (in scope of delivery)	8 GB

Technical properties

Power supply	battery (integrated)
Installed battery	lones de litio
Operating Time (Battery)/Battery run time	2.5 h
Charging time	4.8 h
Power supply charging device	In: 100-240VAC 50/60Hz 1.5A max, Out: 19VDC 3.42A
Operating temperature	10 – 40 °C
Charging port	Rund-Hohlstecker
Port for data transmission to PC	USB-C

Video image output	no
Video Image Input	HDMI Typ A

Warranty Electronic Aids

Warranty (Product)	2 years
Warranty (Battery)	6 months

Алматы (727)345-47-04
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
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Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
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