Vision
Technology
Products
2020 / 2021
A GLOBAL BRAND WITH TRADITION

Since its establishment in 1913, Eschenbach Optik has been combining traditional business values with modern innovative flair. Within a century Eschenbach Optik has become one of the leading suppliers of optical products - both in Germany and abroad. The product range extends from eyewear frames and sunglasses, to binoculars and right through to magnifiers, reading glasses and special vision aids.

With subsidiaries in twelve countries, more than 30 international trade partners and over 530 employees throughout the world, today Eschenbach Optik has a global presence.

VISION TECHNOLOGY PRODUCTS

In this catalogue you will find our extensive range of magnifying vision aids. The term “Vision Technology Products” stands for innovative research and development, modern technologies, as well as precision production methods - and a level of quality which meets the very highest demands in terms of optimum optical performance, reliability and intuitive operation.

The diversity of our range of magnifying vision aids allows you to provide your customers with the optimum solution for meeting all their everyday vision requirements.

LOW VISION

In our catalogue you will therefore find a wide range of products to meet the highly diverse needs of those suffering from visual impairment, making their daily life so much easier and therefore enabling them to regain maximum independence and maximum quality of life.

EASY VISION

As we get older, our vision deteriorates and this is something that happens to everyone. From the age of 60, this change becomes increasingly noticeable and sometimes even the best corrective eyewear is not enough.

MADE IN GERMANY

From the initial concept right through to the finished product - Eschenbach Optik carries out all of this work at its site in Nuremberg and this is how we are able to guarantee exceptional brand quality.

MADE IN GERMANY

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HIGH QUALITY TECHNOLOGY FOR BRILLIANT VISION.
WHEN SPECTACLES ALONE ARE NO LONGER SUFFICIENT

Electronic low vision aids from Eschenbach Optik offer you cleverly conceived solutions to maintain your usual visual comfort. In addition to a brilliant image display, these devices are lightweight, have an ergonomic design and high functionality to ensure intuitive operation.

**vario DIGITAL FHD**

VISION AT ITS BEST

The vario DIGITAL FHD and vario DIGITAL FHD Advanced portable desktop video magnifiers combine exceptional, true colour image quality with innovative design, a user-friendly specification, intuitive operation and excellent value for money.

**visolux DIGITAL**

SPLENDID – DOWN TO THE FINEST DETAIL

With 2x to 22x magnification and a non-reflective 7- or 12-inch display, visolux DIGITAL offers optimum comfort. Depending on the model, it accommodates up to two newspaper columns without having to be moved across the reading material, and when connected to a television offers the functionality of a screen-reading device.

**mobilux® DIGITAL Touch HD**

PREMIUM MAGNIFYING GLASS

For on the move and at home: this innovative magnifier is portable and when connected to a computer offers the functionality of a screen-reading device. The non-reflective 4.3 inch display ensures relaxed reading - operation takes place via touchscreen.

**smartlux® DIGITAL**

THE ELEGANT MAGNIFIER FOR BRILLIANT VISION

Handy and mobile: With its non-reflective 5 inch display, this electronic magnifier provides the optimum image. The adjustable stand enables the magnifier to be hand-held, fully extended or half extended for writing.
The vario DIGITAL FHD and vario DIGITAL FHD Advanced portable desktop video magnifiers offer maximum reading comfort with any reading material. Their flexible design, modern specification and intuitive operation provide exceptional support for leisure, work or university.

**CUSTOMER 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.
- High level of mechanical stability to protect against vibration

**vario DIGITAL FHD**

- High-definition camera with optical digital zoom
- Large magnification range from 1.3 x to 45 x
- 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 display
- 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 + C8
- 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

**vario DIGITAL FHD Advanced**

- High-definition camera with optical digital zoom
- Large magnification range from 1.3 x to 45 x
- 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 display
- User-friendly menu with adjustment options to suit your individual needs
- Clear voice output for all menu stages (can be switched off)
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- Weight: 6.3 kg
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**VISION AT ITS BEST**

The vario DIGITAL FHD and vario DIGITAL FHD Advanced portable desktop video magnifiers offer maximum reading comfort with any reading material. Their flexible design, modern specification and intuitive operation provide exceptional support for leisure, work or university.
vario DIGITAL FHD Advanced

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
- Depending on specification, incl. lithium ion rechargeable battery and/or 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

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

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

For technical information please refer to page 86.
visolux DIGITAL HD and visolux DIGITAL XL FHD combine modern and user friendly features, ergonomic design, intuitive ease of use and a sensible range of functions in the two most popular display sizes.

visolux DIGITAL

- 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

CUSTOMER BENEFITS

- Best imaging quality and operability
- Pleasant reading position
- Secure placement and 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

Dynamic Line Scrolling (DLS)

- Shift the reading area in the display at the touch of a button
- No horizontal movement of the reader across the reading material is necessary
- No loss of orientation even when high magnification is used
visolux DIGITAL XL FHD
- 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

Accessories:
1655108 visolux DIGITAL XL FHD Bumper
- Perfect all-round protection
- More secure grip

1655109 visolux DIGITAL Bag
- Room for 4- to 12-inch low vision aids incl. accessories
- Everything always secure, orderly and close at hand
- High quality design

1655105 visolux DIGITAL XL FHD Base
- Foldable stand
- Increases the distance away and thus extends the image region and reduces the magnification
- Allows writing and manual work under the display

visolux DIGITAL HD
- Most easy to use with best imaging quality in the popular 7-inch category
- 18 cm screen diagonal but weighing only 460 g
- Perfect size for use at home or on the go
- Additional orientation aid with ergonomic grip zones
- Intuitive operation via clearly arranged and easy to sense direct keys
- Lithium-ion battery for up to 3.5 hours of operation

Accessories:
1652105 visolux DIGITAL HD Base
- Increases the distance away and thus extends the image region and reduces the magnification
- Allows writing and manual work under the display

1652108 visolux DIGITAL HD Bumper
- Perfect all-round protection
- More secure grip

For technical information please refer to page 87.
mobilux® DIGITAL Touch HD

- Display: non-reflective 4,3” LCD
- Intuitive operation via touchscreen
- HD camera for maximum definition and optimum contrast
- Generous depth of focus for variable viewing distances
- Screen-reading function via computer monitor
- 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 15 x magnification (hand-held at a distance of 5 cm approx. 1.9 to 4.5 x)
- 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
- The distance can be increased and the display range consequently extended, as well as the magnification level reduced, when the supplied stand is used
- 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
- Rechargeable battery running time: 2.5 to 3 hours, charging time approx. 2 hours
- Lithium ion rechargeable battery
- Mains voltage requirement for battery charger: 110 V to 240 V, 50 to 60 Hz
- Supplied with adapter for EU, GB, US, AUS
- Supplied with stand, protective hard foam case, lanyard and cleaning cloth

CUSTOMER BENEFITS

- 2 in 1: handy reading device for when you’re on the move plus simple screen-reading device for use at home
- Relaxed reading due to non-reflective, high contrast display
- 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

For technical information please refer to page 87.
smartlux® DIGITAL

- The elegant magnifier for brilliant vision
- Display: non-reflective 5” LCD
- LCD brightness can be dimmed in the case of a high level of glare sensitivity
- 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 12 x, 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
- Automatic shut-off if the device has not been used for approx. 3 minutes to ensure low power consumption
- Weight: 220 g
- Large RESET button, in a protected position under the folding stand
- Rechargeable battery running time: approx. 2.5 hours, charging time approx. 2 hours
- Lithium ion rechargeable battery
- Mains voltage requirement for battery charger: 110 V to 240 V, 50 to 60 Hz
- Supplied with adapter for EU, GB, US, AUS
- Comes supplied with a lanyard for wearing and a protective rigid foam case

CUSTOMER BENEFITS

- Reading made easy with centre-mounted camera under the display
- Extra large field of view due to non-reflective 5” LCD and high magnification range
- 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

For technical information please refer to page 87.
HAND-HELD MAGNIFIERS & READING MAGNIFIERS

OPTIMUM VISION COMFORT – ALWAYS READY TO HAND.
**easyPOCKET**

- The tiny lens with powerful magnification
- Diffractive aspheric lens
- Illumination: ultra-flat SMD LED
- Product dimensions: 86 x 54 x 6 mm
- **Replacement battery:** Order No. 15471, requires 2 batteries

**CUSTOMER BENEFITS**

- Magnification and illumination in a credit card format; the ideal size for any pocket
- Provides a brilliant image with optional illumination when you slide the lens out of its case
- Ultra-flat and lightweight design
- Compact case ensures safe storage
- Very economical: The light is only switched on when you slide the lens fully out of its case
- The LED light does not require changing. The tiny, extremely bright LED light used by Eschenbach Optik has a service life which is virtually unlimited

<table>
<thead>
<tr>
<th>Item</th>
<th>Colour</th>
<th>Dimensions</th>
<th>Magnification</th>
<th>dpt</th>
</tr>
</thead>
<tbody>
<tr>
<td>152110</td>
<td>black</td>
<td>50 x 45 mm</td>
<td>3.0 x</td>
<td>8.0</td>
</tr>
<tr>
<td>152111</td>
<td>silver</td>
<td>50 x 45 mm</td>
<td>3.0 x</td>
<td>8.0</td>
</tr>
<tr>
<td>152122</td>
<td>blue</td>
<td>50 x 45 mm</td>
<td>4.0 x</td>
<td>16.0</td>
</tr>
</tbody>
</table>

**easyPOCKET XL**

- Compact hand magnifier with stand
- Diffractive aspheric, ultra-flat lens
- A flip-out stand enables it to be used as a stand magnifier
- Large homogenously illuminated field of view
- Illumination: bright, super-flat SMD-LED
- Magnification 2.5 x
- Product dimensions: 113.5 x 63 x 8.8 mm
- **Replacement battery:** Order No. 15473, requires 2 batteries

**CUSTOMER BENEFITS**

- Enlargement and light in a compact format
- Brilliant depiction with integrated illumination when pulling out the lens
- Magnifier can also be used as a stand with the integrated strap
- Large viewing area with super-flat lens
- Fits in any pocket thanks to the flat design and very low weight
- Case for safe storage
- Very economical: light only comes on when the lens is fully extended
- Bulb does not require changing: The LED optics used by Eschenbach has a virtually unlimited lifespan

<table>
<thead>
<tr>
<th>Item</th>
<th>Colour</th>
<th>Dimensions</th>
<th>Magnification</th>
<th>dpt</th>
</tr>
</thead>
<tbody>
<tr>
<td>152210</td>
<td>black</td>
<td>78 x 50 mm</td>
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<td>6.0</td>
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<tr>
<td>152211</td>
<td>silver</td>
<td>78 x 50 mm</td>
<td>2.5 x</td>
<td>6.0</td>
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</table>
**CUSTOMER BENEFITS**

- Suitable for reading small print, e.g. in a telephone directory or on price tags
- Simple to use – large, easy to operate light switch and eyelet for lanyard
- Choice of 3 different lights colours via filters
- The batteries are easy to change
- A step-up converter controls the voltage for constant bright illumination over the whole lifetime of the battery
- Incl. protective case for lens

**ILLUMINATED POCKET MAGNIFIERS**

**mobilux® LED**

- Batteries are easy to change as the battery cover is easy to open and contact springs clearly indicate the battery position
- Improved comfort due to eyelet for lanyard
- The most suitable colour temperature and light intensity can be selected by attaching one of the three filters supplied
- The LED light does not require changing
  
The LED light used by Eschenbach Optik has a service life of approx. 50,000 hours
- The battery life is up to 10 x longer in comparison to a conventional light
- Bright, even illumination provided by SMD LED and collimation optics
- Defined focusing distance: in the case of all aspheric magnifiers and reading magnifiers from Eschenbach Optik the focusing distance (aE: distance from the eye to the virtual image) is precisely 400 mm. The image can therefore be seen clearly with readers which have an addition of +2.5 dpt

**Accessories:**

See page 15 for mobase Order Nos. 1511001, -2, -3, -4

Lanyard Order No. 15981

* Commercial magnification
** Diffractive aspheric lens without cera-tec® coating

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Magnification</th>
<th>dpt</th>
</tr>
</thead>
<tbody>
<tr>
<td>15122</td>
<td>90 x 54 mm</td>
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<tr>
<td>15112</td>
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<td>3.0 x</td>
<td>12.0</td>
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<tr>
<td>15113</td>
<td>75 x 50 mm</td>
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<td>4.0 x **</td>
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</tr>
<tr>
<td>151141</td>
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<td>15115</td>
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<td>5.0 x</td>
<td>20.0</td>
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<td>15116</td>
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<td>Ø 35 mm</td>
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<tr>
<td>151110</td>
<td>Ø 35 mm</td>
<td>10.0 x</td>
<td>38.0</td>
</tr>
<tr>
<td>151112</td>
<td>Ø 35 mm</td>
<td>12.5 x</td>
<td>50.0</td>
</tr>
</tbody>
</table>

The appropriate display is available as an option on page 8A.
mobase

- High quality stand for mobilux® LED
- Can be used in two positions: laid flat for reading or standing for working
- Individual design for every mobilux® LED ensures the exact viewing distance
- Practical plug-in function for easy conversion to handheld use

Four different mobase designs available for all ten mobilux® LED models:

- 1511001
- 1511002
- 1511003
- 1511004

The magnifications are printed on each mobase model for which the specific stand is designed.

CUSTOMER BENEFITS

- Tremble-free image when reading and working with the mobilux® LED
- Leaves both hands free for reading and working with the mobilux® LED
- Easy to use due to practical means of attachment
- Ensures that the correct distance of use can be maintained
- Can be attached to a swan neck stand to allow flexible adjustment of the mobilux® LED (only mobase 1511003)

<table>
<thead>
<tr>
<th>Item</th>
<th>For mobilux® LED</th>
<th>Magnification</th>
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<td>1511002</td>
<td>15115, 15116</td>
<td>5.0 x, 6.0 x</td>
</tr>
<tr>
<td>1511003</td>
<td>15117</td>
<td>7.0 x</td>
</tr>
<tr>
<td>1511004</td>
<td>151110, 151112</td>
<td>10.0 x, 12.5 x</td>
</tr>
</tbody>
</table>

Special feature of mobase 1511003:
Stand with additional 1/4” thread. This enables it to be screwed onto a standard flexible tripod. The stand enables you to freely adjust the distance of use and it can be used with all mobilux® LED magnifiers.

Example image of a conventional stand. Only available as an optional extra. This is not an Eschenbach accessory.
mediplan ERGO

> Edge-to-edge aberration-free image

**CUSTOMER BENEFITS**

- Edge-to-edge distortion-free image
- Ideal for reading and looking at pictures for long periods of time
- Comfortable to use due to the ergonomically shaped handle
- Aplanatic reading magnifiers provide an edge-to-edge distortion-free image which makes them especially suitable for those suffering from a loss of central vision

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Magnification</th>
<th>dpt</th>
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<tbody>
<tr>
<td>266850</td>
<td>Ø 50 mm</td>
<td>4.5 x</td>
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<td>266860</td>
<td>Ø 60 mm</td>
<td>3.8 x</td>
<td>11.3</td>
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<td>266875</td>
<td>Ø 75 mm</td>
<td>2.9 x</td>
<td>7.4</td>
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<td>266885</td>
<td>Ø 85 mm</td>
<td>2.4 x</td>
<td>5.6</td>
</tr>
<tr>
<td>2668950</td>
<td>90 x 50 mm</td>
<td>2.7 x</td>
<td>7.0</td>
</tr>
</tbody>
</table>
aspheeric II

- Particularly suitable for reading and looking at pictures with adequate ambient lighting (suitable lights can be found on page 36 to 37)
- Round-the-neck cord supplied

Accessories:
- Black real leather case. The item numbers for the corresponding cases are given in the table
- Lanyard Order No. 15981

CUSTOMER BENEFITS

- High magnification with a large visual field
- Concealed eyelet in the end of the handle for round-the-neck cord

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Magnification</th>
<th>dpt</th>
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<td>265570</td>
<td>Ø 70 mm</td>
<td>4.0 x</td>
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<td>2655750</td>
<td>75 x 50 mm</td>
<td>3.5 x</td>
<td>10.0</td>
<td>2855750</td>
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<tr>
<td>2655150</td>
<td>100 x 50 mm</td>
<td>3.0 x</td>
<td>7.0</td>
<td>2855150</td>
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<tr>
<td>2655175</td>
<td>100 x 75 mm</td>
<td>2.8 x</td>
<td>7.0</td>
<td>2855175</td>
</tr>
</tbody>
</table>
**CUSTOMER BENEFITS**

- Suitable for tasks which require a low or medium level of magnification
- An additional high-magnification lens enables small details to be read
- Transparent plastic frame ensures easy orientation on the reading material
- With eyelet in the end of the handle for round-the-neck cord which is supplied
- The biconvex reading magnifiers offer a large visual field in a medium magnification range

**Item** | **Dimensions** | **Magnification** | **dpt**
---|---|---|---
264265 | Ø 65 mm | 3.0 x | 7.7
264280 | Ø 80 mm | 2.3 x | 5.4
2642100 | Ø 100 mm | 2.0 x | 4.1
2642120 | Ø 120 mm | 1.9 x | 3.4
2642240 | 80 x 40 mm | 2.4 x | 5.7
2642150 | 100 x 50 mm | 2.0 x | 4.0
26421255 | 120 x 55 mm | 1.85 x | 3.3

---

**visomed**

- Transparent lens frame

**CUSTOMER BENEFITS**

- Transparent plastic frames ensure excellent orientation on the reading material

**Item** | **Dimensions** | **Magnification** | **dpt**
---|---|---|---
261465 | Ø 65 mm | 3.0 x | 7.4
261480 | Ø 80 mm | 2.25 x | 5.3
2614840 | 80 x 40 mm | 2.25 x | 5.3
2614150 | 100 x 50 mm | 2.0 x | 3.9

---

**HAND-HELD MAGNIFIERS & READING MAGNIFIERS**

**economic**

- Plano-convex additional lens with 5 x magnification in handle
Great value, high-quality magnifiers with additional lens in the handle

CUSTOMER BENEFITS

- Excellent orientation on reading material due to transparent frame
- Eyelet in the handle for round-the-neck cord
- With additional high magnification lens in the handle for recognising details
- Suitable for large visual fields with a medium level of magnification

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Magnification</th>
<th>dpt</th>
<th>Packaging unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>2612401</td>
<td>Ø 45 mm</td>
<td>3.25 x</td>
<td>9.0</td>
<td>contains 6</td>
</tr>
<tr>
<td>2612601</td>
<td>Ø 60 mm</td>
<td>2.7 x</td>
<td>6.7</td>
<td>contains 6</td>
</tr>
<tr>
<td>2612801</td>
<td>Ø 80 mm</td>
<td>2.3 x</td>
<td>5.3</td>
<td>contains 6</td>
</tr>
<tr>
<td>26129501</td>
<td>90 x 50 mm</td>
<td>2.0 x</td>
<td>4.0</td>
<td>contains 3</td>
</tr>
</tbody>
</table>

The appropriate display is available as an option on page 84.

ROUND-THE-NECK MAGNIFIERS

maxiPLUS/economy

- Transparent frame for shadow-free magnification
- Non-slip foam rubber pads on the feet ensure a secure position
- Individually packaged and includes round-the-neck cord

Additional product feature of maxiPLUS (2678):

- Large rectangular lens with 2 x magnification and separate additional lens with 4 x magnification for particularly detailed work

CUSTOMER BENEFITS

- Ideal for those fine motor tasks that require two hands such as knitting or handicrafts
- The round-the-neck cord can be adapted to suit individual requirements

Only for maxiPLUS (2678):

- The additional lens enables the user to see extremely small details

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Magnification</th>
<th>dpt</th>
</tr>
</thead>
<tbody>
<tr>
<td>2677</td>
<td>Ø 100 mm</td>
<td>2.0 x</td>
<td>3.2</td>
</tr>
<tr>
<td>2678</td>
<td>100 x 140 / Ø 35 mm</td>
<td>2.0 x/4.0 x</td>
<td>2.6/11.2</td>
</tr>
</tbody>
</table>
PENDANT MAGNIFIERS

- The light metal frame has an elegant finish
- Available in a gold-plated or chrome-plated finish
- Chain with a length of approx. 70 cm is included in delivery

CUSTOMER BENEFITS

ู่ Can be worn as a pendant necklace and is always ready to use whenever you need it, providing you with quick and discreet magnification

<table>
<thead>
<tr>
<th>Item</th>
<th>Colour</th>
<th>Dimensions</th>
<th>Magnification</th>
<th>dpt</th>
</tr>
</thead>
<tbody>
<tr>
<td>21361</td>
<td>gold-plated</td>
<td>Ø 40 mm</td>
<td>3.5 x</td>
<td>10.0</td>
</tr>
<tr>
<td>21362</td>
<td>chrome-plated</td>
<td>Ø 40 mm</td>
<td>3.5 x</td>
<td>10.0</td>
</tr>
</tbody>
</table>

SLIDE-OUT MAGNIFIERS

designo

- The sliding case provides optimum lens protection

CUSTOMER BENEFITS

ู่ Very small, slimline and handy
ู่ Ideal when you want to magnify small print quickly and comfortably
ู่ In protective sliding case, ideal for carrying in the trouser pocket or handbag

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Magnification</th>
<th>dpt</th>
</tr>
</thead>
<tbody>
<tr>
<td>1711</td>
<td>Ø 30 mm</td>
<td>5.0 x</td>
<td>20.0</td>
</tr>
</tbody>
</table>

visoPOCKET

- Diffractive aspheric lens
- Modern and exquisite design
- High quality leather
- Available in three colours

CUSTOMER BENEFITS

ู่ Wide field of view with ultra-slim lens
ู่ Handy credit card format
ู่ Leather case protects lens from being scratched
ู่ Ideal for on-the-go use when small print needs magnifying swiftly and easily

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Magnification</th>
<th>Colour</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>172116</td>
<td>74 x 48 mm</td>
<td>2.5 x</td>
<td>red</td>
<td>leather</td>
</tr>
<tr>
<td>172146</td>
<td>74 x 48 mm</td>
<td>2.5 x</td>
<td>brown</td>
<td>leather</td>
</tr>
<tr>
<td>172156</td>
<td>74 x 48 mm</td>
<td>2.5 x</td>
<td>black</td>
<td>leather</td>
</tr>
</tbody>
</table>

The appropriate display is available as an option on page 83.
classic

- Folding magnifier in timeless, classic design
- Available in the following lens diameters: 30 mm, 50 mm and 60 mm (see table)
- The table also shows the colours available

CUSTOMER BENEFITS

- Small, handy and compact
- Fits easily into any handbag or trouser pocket
- Leather case protects the lens from being scratched
- Available in many different colours and sizes

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Ø 30 mm 24.0 dpt</th>
<th>Ø 50 mm 10.0 dpt</th>
<th>Ø 60 mm 10.0 dpt</th>
<th>Colour</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>17401-</td>
<td>30</td>
<td>50</td>
<td>60</td>
<td>burgundy</td>
<td>leather</td>
</tr>
<tr>
<td>17402-</td>
<td>50</td>
<td>60</td>
<td></td>
<td>pine green</td>
<td>leather</td>
</tr>
<tr>
<td>17404-</td>
<td>50</td>
<td>60</td>
<td></td>
<td>nutria brown</td>
<td>leather</td>
</tr>
<tr>
<td>17405-</td>
<td>30</td>
<td>50</td>
<td>60</td>
<td>black</td>
<td>leather</td>
</tr>
<tr>
<td>17521-</td>
<td>50</td>
<td>60</td>
<td></td>
<td>crimson</td>
<td>leather</td>
</tr>
<tr>
<td>17525-</td>
<td>50</td>
<td>60</td>
<td></td>
<td>royal black</td>
<td>leather</td>
</tr>
<tr>
<td>17528-</td>
<td>50</td>
<td>60</td>
<td></td>
<td>bronzite</td>
<td>leather</td>
</tr>
</tbody>
</table>

economy

- Folding magnifier in a trouser pocket format
- Supplied in a pack of 3
- The available colours are outlined in the table

CUSTOMER BENEFITS

- Great value for money, practical and sturdy
- A variety of cases is available in leather

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Item No.</th>
<th>Colour</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>173013</td>
<td>173033</td>
<td>vermilion</td>
<td>leather</td>
</tr>
<tr>
<td>173023</td>
<td>173053</td>
<td>silver</td>
<td>leather</td>
</tr>
<tr>
<td>173033</td>
<td>3.5 x</td>
<td>10.0</td>
<td>blue</td>
</tr>
<tr>
<td>173053</td>
<td>3.5 x</td>
<td>10.0</td>
<td>black</td>
</tr>
</tbody>
</table>
mobilent LED

- Extremely compact, high-magnification folding magnifier
- Economical LED light integrated in housing
- Colour temperature: approx. 6000 K
- Colour rendering index: CRI 88
- Illumination level: approx. 300 lx
- Battery: 1x CR 2032, battery service life up to 10 hours
- The plastic housing securely encloses the lens
- Incl. lanyard for wearing around the neck

CUSTOMER BENEFITS

- The ideal illuminated magnifier for when you’re on the move: high-magnification, small and handy; suitable for wearing around the neck, for use as a hand-held magnifier and fits in a trouser pocket
- The lanyard is threaded through the battery cover so that the battery cover cannot be lost when the lanyard is used

<table>
<thead>
<tr>
<th>Item</th>
<th>Colour</th>
<th>Dimensions</th>
<th>Magnification</th>
<th>dpt</th>
</tr>
</thead>
<tbody>
<tr>
<td>152094</td>
<td>white</td>
<td>Ø 35 mm</td>
<td>4.0 x</td>
<td>16.0</td>
</tr>
<tr>
<td>152097</td>
<td>white</td>
<td>Ø 35 mm</td>
<td>7.0 x</td>
<td>28.0</td>
</tr>
<tr>
<td>1520910</td>
<td>white</td>
<td>Ø 35 mm</td>
<td>10.0 x</td>
<td>38.0</td>
</tr>
</tbody>
</table>

mobilent

- High magnification folding magnifiers
- The plastic case encloses the lens and is dust-tight
- With round-the-neck cord

CUSTOMER BENEFITS

- The ideal magnifier for handbag and trouser pocket or for wearing around the neck
- Ideal for magnifying small print discreetly
combiPLUS

- The practical all-rounder for multi-use
- Supplied with a fine grain black leather case with soft inner lining to protect the lens

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Magnification</th>
<th>dpt</th>
<th>Order No. for spare case</th>
</tr>
</thead>
<tbody>
<tr>
<td>2031</td>
<td>100 x 50 mm</td>
<td>2.6 x</td>
<td>6.3</td>
<td>20211</td>
</tr>
<tr>
<td>2032</td>
<td>100 x 75 mm</td>
<td>2.8 x</td>
<td>7.0</td>
<td>20221</td>
</tr>
<tr>
<td>2034</td>
<td>75 x 50 mm</td>
<td>3.5 x</td>
<td>10.0</td>
<td>20201</td>
</tr>
</tbody>
</table>

CUSTOMER BENEFITS

- Can be used as a hand-held magnifier with fold-out handle
- Can be used as a stand magnifier: fold-out metal feet enable the lens to be tilted for a comfortable viewing angle
- Suitable for reading, writing and handicrafts
- Includes protective case
STAND MAGNIFIERS & READING MAGNIFIERS

STABLE SOLUTIONS FOR BRIGHT MAGNIFICATION.
visolux+

- A plus in visual comfort
- Even, bright and glare-free illumination provided by two SMD LEDs
- Integrated, preselectable orange filter for second warm colour temperature
- Hard foam case included

CUSTOMER BENEFITS

- Comfortable to use due to ergonomic tilted lens and compact design
- Incredibly large field of view with 3 x magnification
- 2 different colour temperatures for even, glare-free illumination of the reading material
- Light automatically switches off after 30 minutes to prevent unnecessary power consumption

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Magnification</th>
<th>dpt</th>
</tr>
</thead>
<tbody>
<tr>
<td>1566</td>
<td>100 x 75 mm</td>
<td>3.0 x</td>
<td>12.0</td>
</tr>
</tbody>
</table>

scribolux

- Push-button switch for easy on/off operation
- Automatic light-off function after 30 minutes to avoid unnecessary power consumption
- High level of image brightness and large visual field
- Distance lens – supporting surface: 7.5 cm (apex of lens)
- In the case of all aspheric magnifiers and reading magnifiers from Eschenbach Optik the focusing distance (a_E: distance from the eye to the virtual image) is precisely 400 mm. The image can therefore be seen clearly with readers which have an addition of +2.5 dpt
- Supplied with microfibre pouch to protect the lens. The pouch can also be used for cleaning the lens

CUSTOMER BENEFITS

- Plenty of space for writing under the lens as the lens is positioned at a spacious distance from the supporting surface and the magnifier base has an open design
- Easy to move across the reading material
- With comfortable tilted lens
- Bright, even and glare-free illumination
- Leaves both hands free for carrying out tasks under the scratch-resistant lens without shadowing

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Magnification</th>
<th>dpt</th>
</tr>
</thead>
<tbody>
<tr>
<td>156512</td>
<td>100 x 75 mm</td>
<td>2.8 x</td>
<td>7.0</td>
</tr>
</tbody>
</table>

Accessories:

Hard foam case for safe transport
Order No. 15651209

The appropriate display is available as an option on page 82.
system varioPLUS

- Details relating to magnification/dioptre value/recommended eye-lens distance are stated on all magnifier heads
- Bright, even illumination of the reading text provided by enclosed magnifier heads made from a light material
- To achieve a uniform reading distance, Eschenbach Optik recommends using the system varioPLUS in combination with a reading stand (Item No. 1605, see page 70)

CUSTOMER BENEFITS

- Particularly suitable for reading over long periods of time and for users who cannot hold magnifiers freely (e.g. age-related shaking or Parkinson’s disease)
- Magnifier heads with a diameter greater than 58 mm (15539-, 15549-, 15599-) are fitted with a retractable red reading line for easier line orientation and increased reading speed
- The rectangular magnifier heads (15806-, 15826-) are equipped with a supplementary swivel lens for additional magnification
- Choice of 3 different colour temperatures via filters

Battery handle, LED:

- LED illumination
- LEDs have an unlimited service life and do not require changing, extremely economical to use
- Easy to change, attachable filters provide a choice of three different colour temperatures
- Step-up converter for even, consistently bright illumination

Reading line

Additional lens

Example of item number formation
**visomax**

- With attachable additional lens for an even larger visual field
- Can be used with magnifying ruler 2606 (see page 31)
  Total magnification with magnifying bar 5.6 x

### CUSTOMER BENEFITS

- Enables you to write under the lens
- Comfortable working position at a pleasant viewing distance
- Comfortable, infinitely variable angled viewing
- Large, rectangular visual field

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Magnification</th>
<th>dpt</th>
<th>Magn. without additional lens</th>
</tr>
</thead>
<tbody>
<tr>
<td>263611</td>
<td>100 x 75 mm</td>
<td>3.8 x</td>
<td>11.0</td>
<td>7.0 dpt 2.8 x</td>
</tr>
</tbody>
</table>
powerlux

- The new generation of illuminated magnifier
- Available in warm and cold white colour temperature
- 2 SMD LEDs are positioned opposite each other to provide shadow-free illumination
- Supplied with protective hard foam case
- Economical power consumption due to automatic switch-off function which turns the powerlux off after 30 minutes

CUSTOMER BENEFITS

- Very simple to use, the ergonomic design promotes intuitive movement on the reading material
- Automatic switch-off function, preserves battery life
- Very comfortable to hold in the hand
- Consistently bright and glare-free illumination
- Ideal for people with visual impairment who appreciate award-winning design
- Suitable for both left and right handers

For technical information please refer to page 89.

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Colour temperature</th>
<th>Magnification</th>
<th>dpt</th>
</tr>
</thead>
<tbody>
<tr>
<td>158614</td>
<td>Ø 58 mm</td>
<td>8,000 K</td>
<td>3.5 x</td>
<td>14.0</td>
</tr>
<tr>
<td>1586141</td>
<td>Ø 58 mm</td>
<td>3,000 K</td>
<td>3.5 x</td>
<td>14.0</td>
</tr>
<tr>
<td>158620</td>
<td>Ø 58 mm</td>
<td>8,000 K</td>
<td>5.0 x</td>
<td>20.0</td>
</tr>
<tr>
<td>1586201</td>
<td>Ø 58 mm</td>
<td>3,000 K</td>
<td>5.0 x</td>
<td>20.0</td>
</tr>
<tr>
<td>158628</td>
<td>Ø 58 mm</td>
<td>8,000 K</td>
<td>7.0 x</td>
<td>28.0</td>
</tr>
<tr>
<td>1586281</td>
<td>Ø 58 mm</td>
<td>3,000 K</td>
<td>7.0 x</td>
<td>28.0</td>
</tr>
</tbody>
</table>
menas LUX

- Illuminated stand magnifier with fixed magnification
- Object and image position virtually on the same level
- Height 45 mm

CUSTOMER BENEFITS

- Ultra-flat design with a large visual field
- Large, variable distance of use (eye-lens)
- The integrated light makes it ideal even in very poor light conditions
- A step-up converter controls the voltage for constant bright illumination over the whole lifetime of the battery

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Magnification</th>
<th>SMD-LED</th>
<th>Batteries</th>
</tr>
</thead>
<tbody>
<tr>
<td>143830</td>
<td>Ø 63 mm</td>
<td>3.0 x</td>
<td>•</td>
<td>1 x AA</td>
</tr>
</tbody>
</table>

menas ZOOM

- Infinitely adjustable magnification
- Object and image position virtually on the same level

CUSTOMER BENEFITS

- Ultra-flat design with a large visual field
- Large, variable distance of use (eye-lens)
- Suitable for different sizes of print with infinitely adjustable magnification

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Magnification</th>
</tr>
</thead>
<tbody>
<tr>
<td>14388</td>
<td>Ø 65 mm</td>
<td>2.2 x-3.4 x</td>
</tr>
</tbody>
</table>
SEGMENT BRIGHT FIELD MAGNIFIERS

makroPLUS Aspheric

- Object- and image position virtually on the same level

CUSTOMER BENEFITS

- Tremble-free, bright image
- Comfortable, tilted view allows relaxed reading position
- Item Number 1436 allows entire newspaper columns to be read

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Magnification</th>
</tr>
</thead>
<tbody>
<tr>
<td>1426</td>
<td>65 x 36 x 46 mm</td>
<td>1:1.8</td>
</tr>
<tr>
<td>1436</td>
<td>90 x 35 x 70 mm</td>
<td>1:2.2</td>
</tr>
</tbody>
</table>

makrolux

- Push-button switch for easy on/off operation
- Automatic light-off function after 30 minutes to avoid unnecessary power consumption
- Includes bright LED light
- Object and image position virtually on the same level

CUSTOMER BENEFITS

- Tremble-free, bright image
- Comfortable, tilted view allows relaxed reading position
- Item Nos. 143611 and 143621 enable to read full newspaper columns
- With excellent LED illumination right up to the edges of the magnifier

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Magn.</th>
<th>SMD-LED</th>
<th>Batteries</th>
</tr>
</thead>
<tbody>
<tr>
<td>143611</td>
<td>90 x 55 x 82 mm</td>
<td>1:2.2</td>
<td>•</td>
<td>3 x AA</td>
</tr>
<tr>
<td>143621</td>
<td>90 x 63 x 90 mm</td>
<td>1:3.6</td>
<td>•</td>
<td>3 x AA</td>
</tr>
</tbody>
</table>

The appropriate display is available as an option on page 82.
BRIGHT FIELD MAGNIFIERS

- A high level of image brightness
- The image has double the surface brightness in comparison to ambient light conditions
- By approaching the object, a magnification level of up to 6 x can be achieved by means of the accommodative power
- All Eschenbach Optik bright-field magnifiers are supplied in a microfibre pouch which can also be used to clean the magnifiers
- Magnification 1:1.8
- Object and image position are virtually on the same level

CUSTOMER BENEFITS

- „Tremble-free“ image as the bright field magnifiers are placed directly on the reading material
- Very handy and compact
- Due to their high accommodation capacity, these bright field magnifiers are particularly suitable for children to support the remaining visual acuity
- Bright field magnifiers are also ideal as combination magnifiers (in combination with high addition or systems with reading caps)

Example:

| High addition 6 dpt | 1.5 x |
| Bright field magnifier | 1.8 x |
| Total magnification | 2.7 x |

With a bright field magnifier the reading distance of 18 cm (6 dpt) remains the same with double the magnification!

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Magnification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1420</td>
<td>Ø 65 mm</td>
<td>1:1.8</td>
<td></td>
</tr>
<tr>
<td>1421</td>
<td>Ø 65 mm</td>
<td>1:1.8</td>
<td>Incl. red guide line (removable)</td>
</tr>
<tr>
<td>1424</td>
<td>Ø 45 mm</td>
<td>1:1.8</td>
<td>Extremely light</td>
</tr>
</tbody>
</table>

The combination of a bright-field magnifier and reading glasses doubles the magnification at the same reading distance.

MAGNIFYING RULERS

- Magnifying rulers only magnify in one direction, the height of the letters is therefore increased but the width remains the same

CUSTOMER BENEFITS

- The generous width and the red guide line make it easier to read tables
- As they only magnify in one direction, they allow strainfree reading over long periods of time

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Magnification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>2605</td>
<td>200 x 25 mm</td>
<td>1:1.8</td>
<td>• With grip bar</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Incl. red guide line</td>
</tr>
<tr>
<td>2606</td>
<td>122 x 26 mm</td>
<td>1:2.0</td>
<td>• Incl. red guide line</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Higher magnification due to aspheric surface</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Scratch-resistant underside</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Can also be used with visolux large field magnifiers (Item Number 263611, page 27)</td>
</tr>
<tr>
<td>2608</td>
<td>250 x 35 mm</td>
<td>1:1.8</td>
<td>• Incl. red guide line</td>
</tr>
</tbody>
</table>
READING MAGNIFIERS

varioLED flex

- Ø 76 mm/6 dpt/2.5 x magnification
- Aspheric PXM® lightweight lens, cera-tec® coated for a distortion-free image with edge-to-edge sharpness
- Switch between ring illumination and segment illumination for examining surfaces
- Illumination near point for shadow-free illumination: 3.5 cm
- Illumination level: approx. 6,000 lx (at a working distance of 150 mm)
- Provides full illumination power immediately
- Gooseneck design with protective cover for improved hygiene
- Secured via table clamp
- Supplied with power adapter for EU, GB, US
- Cable length: 2.5 m

CUSTOMER BENEFITS

- Segment switching = provides a choice between shadow-free LED ring illumination and segment illumination for improved inspection of different surface structures
- As it is lightweight, compact and highly flexible this stand magnifier is extremely versatile
- Optimum swivel range of magnifier head due to gooseneck stand in combination with biaxial lens mounting
- Comfortable positioning due to ergonomic „magnifier grip”
- Economical due to low power consumption

Item Dimensions Stand length Magnification dpt
2781 Ø 76 mm 350 mm 2.5 x 6.0
27815 Ø 76 mm 600 mm 2.5 x 6.0

Accessories:
27819 Table base for 2781
- Steel, black finish, weight 2 kg
- Not suitable for Item 27815
**varioLED**

- Shadow-free ring illumination made up of 84 long life high performance LEDs
- Switch between ring illumination and segment illumination
- Illumination levels (ring illumination, 200 mm): 6000 lx, 3500 lx, 2400 lx – provides full illumination power immediately
- Hinged lens cover to protect against dust and sunlight (lens cover can also be easily removed)
- Supplied with table clamp for table thicknesses of 18 to 74 mm and mains adapter for EU, US, GB
- Protection class: Device IP40, mains adapter IP20

**CUSTOMER BENEFITS**

- Shadow-free and flicker-free illumination
- Light output has three dimming levels (40%, 60%, 100%)
- Can be used with distance and near vision glasses
- Minimum power consumption due to low power requirement of the LED

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions</th>
<th>Magnification</th>
<th>dpt</th>
</tr>
</thead>
<tbody>
<tr>
<td>27773</td>
<td>Ø 132 mm</td>
<td>1.9 x</td>
<td>3.55</td>
</tr>
<tr>
<td>27776</td>
<td>Ø 132 mm</td>
<td>2.5 x</td>
<td>6.0</td>
</tr>
</tbody>
</table>

**Accessories:**

27729 Table base
- Cast iron, 260 mm Ø, weight 6 kg
- Suitable for stand magnifiers 27773, 27776
INDIVIDUAL ILLUMINATION.
RADIANT DIVERSITY.
headlight LED

- Small, lightweight and compact LED light.
- Light can be concentrated at a specific working distance by means of CPC optics (Compound Parabolic Concentrator).
- Light is focused in a precise and glare-free manner.
- Power supply via handy, compact battery housing and cable.
- Flexible cable with additional adapter for attaching to eyewear temple.
- Virtually constant illumination throughout the entire lighting period.
- Illumination strength: approx. 3,200 lx in 250 mm, 1,200 lx in 400 mm.
- Illumination period: approx. 8 hours in normal mode, approx. 14 hours in eco mode.
- Hard foam case included.
- Lamp housing:
  - Dimensions: 32 x 20 x 34 mm, Tilting range: vertical
  - Weight: 11 g.
- Battery housing:
  - Dimensions: 90 x 55 x 29 mm (without clip). 1m cable length.
  - Weight: 60 g (without batteries).

**CUSTOMER BENEFITS**

- The light can be tilted vertically into the required position.
- Shadow-free and flicker-free illumination.
- Battery housing can be comfortably carried on the belt or in the shirt pocket.
- Low energy consumption as the light is optimised for use with rechargeable batteries.
pure vision LED

- Colour: silver/anthracite
- Illumination level: approx. 2400 lx (distance 30 cm)
- Colour rendering index: CRI > 85
- Height: min. 32 cm up to max. 52 cm

CUSTOMER BENEFITS

- Easy to operate, tactile switch
- Large, comfortable distance that is adjustable to reading material
- Stable arm with flexible, freely adjustable lampshade
- Uniform illumination with no cast shadow
- Very convenient as no need to change the bulb

pure vision LED XL

- Colour: silver/anthracite
- Illumination level: approx. 2400 lx (distance 30 cm)
- Colour rendering index: CRI > 85
- Height: min. 117 cm up to max. 151 cm

CUSTOMER BENEFITS

- The ideal lamp for reading in a chair
- The lampshade can be adjusted in relation to the reading material for comfortable and glare-free reading
- Easy to operate, tactile switch
- Uniform illumination with no cast shadow
- Very convenient as no need to change the bulb
**economy visionLED**

- Colour: white
- 3 colour temperatures (2800 K, 3850 K, 4900 K) selectable
- 5 illumination levels selectable
- Height: approx. 33 cm

**CUSTOMER BENEFITS**

- Even illumination with no cast shadow
- Colour temperature and illumination level can be adjusted independently as required
- Portable as it can be used with a 5 V power bank
- Very convenient as no need to change the bulb

<table>
<thead>
<tr>
<th>Item</th>
<th>2800 K</th>
<th>3850 K</th>
<th>4900 K</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stufe 1</td>
<td>359 lx</td>
<td>1175 lx</td>
<td>880 lx</td>
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<td>Stufe 2</td>
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<tr>
<td>Stufe 3</td>
<td>213 lx</td>
<td>680 lx</td>
<td>500 lx</td>
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<td>Stufe 4</td>
<td>145 lx</td>
<td>450 lx</td>
<td>342 lx</td>
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<tr>
<td>Stufe 5</td>
<td>75 lx</td>
<td>228 lx</td>
<td>172 lx</td>
</tr>
</tbody>
</table>

(Values stated for 25 cm distance)

**basic visionLED**

- Colour: white
- Colour temperature: approx. 5000 K
- Illumination level: approx. 1700 lx (distance 30 cm)
- Voltage: Input AC 100 ~ 240 V, Output DC 24 V
- Height: approx. 40 cm

**CUSTOMER BENEFITS**

- Tactile switch in stand
- Stable arm with flexible, freely adjustable swan neck sections on stand and head
- Uniform illumination with no cast shadow
- Very convenient as no need to change the bulb
FILTERS

LESS GLARE.
MORE CONTRAST.
wellnessPROTECT®

- Improved colour sensitivity and minimisation of glare by blocking short-wave, high energy light components in the blue part of the spectrum
- Available in the wP Drive filter variant suitable for driving or in the wP Classic variant
- Available in tint levels wP15, wP65, wP85, wP50-15, wP75P (polarising), wP active (photochromic only in filter variant wP Classic)
- Available in various frame models or as clip-ons – a suitable case is always included
- Spectacle frames with extra deep edge to block incident light from above
- Widely set temple with transparent side glare guard allows sideways orientation
- Side Ventilation slot between temple and middle section prevents fogging of the lenses
- 100 % UV protection and up to 99 % blue absorption

CUSTOMER BENEFITS

- All-round protection for the eyes against the harmful rays of the sun and against unpleasant glare
- Improved contrast vision
- Attractive design that makes wellnessPROTECT® look like sunglasses
- Improved colour recognition in comparison to conventional cut-off filter eyewear
- Ideal for spending long periods outdoors, winter sports, for eyes that are sensitive to glare, for retinal disease and following cataract operations

Ideal for spectacle wearers: wellnessPROTECT® XL is intended for wearing over the correction frame.

wellnessPROTECT® filter lenses have an additional cut-off filter. Besides UV light, they absorb short-wave, high energy components of visible blue light. Contrast vision is therefore improved and unpleasant glare is reduced.

wellnessPROTECT® is available with a variety of tints to suit any light conditions. The details relating to the filter lenses refer to the tint which is applied to the base filter.
## Eyewear and clip-ons

- Glazed with wellnessPROTECT® plano glass of various filter variants
- The description relates to the absorption of the additional tint overlay on the base filter. It does not correspond to the light transmittance of the combined filter
- Eyewear supplied in hard foam case
- Clip-ons supplied in soft case with belt clip

- Ideal for spectacle wearers to wear over the designated prescription frame
- Owing to the disk size, not intended for individual glazing
- Important for motorists: Filter variant wP Drive meets the requirements on spectacle lenses for driving

### Frame Features and Colors

<table>
<thead>
<tr>
<th>Frame</th>
<th>Features</th>
<th>Filter variant</th>
<th>Characteristics</th>
<th>Frame colour</th>
<th>Material</th>
<th>Side window colour</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classic frame, small</td>
<td></td>
<td>wP Classic</td>
<td>temples can be shortened</td>
<td>havanna, gloss</td>
<td>TR 90</td>
<td>orange-yellow</td>
<td>54-16-135</td>
</tr>
<tr>
<td></td>
<td></td>
<td>wP Drive</td>
<td>temples can be shortened</td>
<td>havanna, gloss</td>
<td>TR 90</td>
<td>green-yellow</td>
<td>54-16-135</td>
</tr>
<tr>
<td>Classic frame, large</td>
<td></td>
<td>wP Classic</td>
<td>temples can be shortened</td>
<td>havanna, gloss</td>
<td>TR 90</td>
<td>orange-yellow</td>
<td>57-16-135</td>
</tr>
<tr>
<td></td>
<td></td>
<td>wP Drive</td>
<td>temples can be shortened</td>
<td>havanna, gloss</td>
<td>TR 90</td>
<td>green-yellow</td>
<td>57-16-135</td>
</tr>
<tr>
<td>Ladies’ frame</td>
<td>with adjustable pad arms</td>
<td>wP Classic</td>
<td>temples can be shortened</td>
<td>black, gloss</td>
<td>TR 90</td>
<td>orange-yellow</td>
<td>56-15-130</td>
</tr>
<tr>
<td></td>
<td></td>
<td>wP Drive</td>
<td>temples can be shortened</td>
<td>brown, gloss</td>
<td>TR 90</td>
<td>green-yellow</td>
<td>54-15-130</td>
</tr>
<tr>
<td>Men’s frame</td>
<td>spring hinges with adjustable pad arms</td>
<td>wP Classic</td>
<td>temples can be shortened</td>
<td>black, gloss</td>
<td>TR 90</td>
<td>orange-yellow</td>
<td>58-16-130</td>
</tr>
<tr>
<td></td>
<td></td>
<td>wP Drive</td>
<td>temples can be shortened</td>
<td>black, gloss</td>
<td>TR 90</td>
<td>green-yellow</td>
<td>58-16-130</td>
</tr>
<tr>
<td>wP Sport frame, small</td>
<td></td>
<td>wP Drive</td>
<td>temples can be shortened</td>
<td>brown, matt</td>
<td>St. steel</td>
<td>green-yellow</td>
<td>56-17-135</td>
</tr>
<tr>
<td>wP Sport frame, large</td>
<td></td>
<td>wP Drive</td>
<td>temples can be shortened</td>
<td>anthracite, matt</td>
<td>St. steel</td>
<td>green-yellow</td>
<td>59-16-135</td>
</tr>
<tr>
<td>XL frame, small</td>
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<td>wP Classic</td>
<td>–</td>
<td>havanna, matt</td>
<td>TR 90</td>
<td>orange-yellow</td>
<td>61-12-145</td>
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<tr>
<td></td>
<td></td>
<td>wP Drive</td>
<td>–</td>
<td>havanna, matt</td>
<td>TR 90</td>
<td>green-yellow</td>
<td>61-12-145</td>
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<tr>
<td>XL frame, large</td>
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<td>wP Classic</td>
<td>–</td>
<td>havanna, matt</td>
<td>TR 90</td>
<td>orange-yellow</td>
<td>65-12-145</td>
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<td></td>
<td></td>
<td>wP Drive</td>
<td>–</td>
<td>havanna, matt</td>
<td>TR 90</td>
<td>green-yellow</td>
<td>65-12-145</td>
</tr>
<tr>
<td>Clip-ons</td>
<td></td>
<td>wP Classic</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>60-11</td>
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<tr>
<td></td>
<td></td>
<td>wP Drive</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>60-11</td>
</tr>
</tbody>
</table>

**wellnessPROTECT®**
- Classic, small
- Classic, large
- Ladies, large
- Ladies, small
- Men
- Sport, small
- Sport, large

**FILTERS**

- 1663365

**wellnessPROTECT®**
- Classic, small
- Classic, large
- Ladies, large
- Ladies, small
- Men
- Sport, small
- Sport, large
### Lenses

**wellnessPROTECT® wP15 Classic / wP15 Drive**
- Cut-off filter with 15 % tint overlay
- **Recommended use:**
  - Indoors in the case of a high level of glare sensitivity
  - Outdoors when the sky is cloudy
  - Outdoors in the case of a low level of glare sensitivity

**wellnessPROTECT® wP65 Classic / wP65 Drive**
- Cut-off filter with 65 % tint overlay
- **Recommended use:**
  - Indoors in the case of a high level of glare sensitivity
  - Outdoors in cloudy to clear weather
  - Outdoors in the case of a medium level of glare sensitivity

**wellnessPROTECT® wP75P Classic / wP75P Drive**
- Cut-off filter with polarized 75 % tint overlay
- **Recommended use:**
  - Indoors in the case of a high level of glare sensitivity
  - Outdoors in bright weather, sunshine
  - Outdoors on the water, in snow

**wellnessPROTECT® wP85 Classic / wP85 Drive**
- Cut-off filter with 85 % tint overlay
- **Recommended use:**
  - Outdoors in sunshine
  - Outdoors in the case of a very high level of glare sensitivity

**wellnessPROTECT® wP50-15 Classic / wP50-15 Drive**
- Cut-off filter with graded 50-15 % tint overlay
- **Recommended use:**
  - Indoors in the case of a medium to high level of glare sensitivity
  - Outdoors in cloudy to clear weather
  - Outdoors in the case of a low to medium level of glare sensitivity
  - Ideal for reading indoors and outdoors

**wellnessPROTECT® wP active**
- Photochromic lenses with additional cut-off filter
- **Recommended use:**
  - Owing to the self-tinting property are ideal for indoor or outdoor use
  - For moderate to high sensitivity to glare

---

<table>
<thead>
<tr>
<th>Filter category</th>
<th>wP Classic</th>
<th>wP Drive</th>
<th>wP Classic</th>
<th>wP Drive</th>
<th>wP Classic</th>
<th>wP Drive</th>
<th>wP Classic</th>
<th>wP Drive</th>
<th>wP Classic</th>
<th>wP Drive</th>
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<tr>
<td>Luminous transmittance</td>
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<td></td>
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<td></td>
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<tr>
<td>wP Classic</td>
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<td>approx. 50 %</td>
<td>approx. 35 %</td>
<td>approx. 35 %</td>
<td>approx. 15 %</td>
<td>approx. 15 %</td>
<td>approx. 35 %</td>
<td>approx. 35 %</td>
<td>approx. 20 %</td>
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<tr>
<td>wP Drive</td>
<td>approx. 96 %</td>
<td>approx. 96 %</td>
<td>approx. 96 %</td>
<td>approx. 96 %</td>
<td>approx. 96 %</td>
<td>approx. 96 %</td>
<td>approx. 96 %</td>
<td>approx. 96 %</td>
<td>approx. 96 %</td>
<td>approx. 97 %/99 %</td>
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<tr>
<td>Blue light absorption</td>
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<td>approx. 98 %</td>
<td>approx. 96 %</td>
<td>approx. 96 %</td>
<td>approx. 98 %</td>
<td>approx. 97 %</td>
<td>approx. 96 %</td>
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<tr>
<td>wP Drive</td>
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<td>approx. 96 %</td>
<td>approx. 96 %</td>
<td>approx. 96 %</td>
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<td>approx. 96 %</td>
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</table>

<table>
<thead>
<tr>
<th>Suitable for wearing whilst driving</th>
<th>wP Classic</th>
<th>wP Drive</th>
<th>wP Classic</th>
<th>wP Drive</th>
<th>wP Classic</th>
<th>wP Drive</th>
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<th>wP Drive</th>
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<tbody>
<tr>
<td>approx. 15 %</td>
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</tbody>
</table>

**Note:** wellnessPROTECT® are also available with individual lens strengths.

* Filter variant wP15 wP65 wP85 wP50-15 wP75P wP active

<table>
<thead>
<tr>
<th>Frame, unglazed</th>
<th>wP15</th>
<th>wP65</th>
<th>wP85</th>
<th>wP50-15</th>
<th>wP75P</th>
<th>wP active</th>
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<tr>
<td>16635416</td>
<td>1663115</td>
<td>1663165</td>
<td>1663185</td>
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<td>1664175P</td>
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</tr>
</tbody>
</table>

*Note: wellnessPROTECT® are also available with individual lens strengths.*

* Filter variant wP15 wP65 wP85 wP50-15 wP75P wP active

* Not suitable for driving in accordance DIN EN ISO 12312-1

* Suitable for driving, not suitable for driving at night in accordance with DIN EN ISO 12312-1

* Brightened / darkened
CUT-OFF FILTER EYEWEAR

system INDIVIDUAL XL

- 100% absorption of UV light and high energy, short-wave components of visible light depending on position of cut-off filter
- Lenses available with 450 nm, 511 nm, 527 nm and 550 nm cut-off filters
- Non-polarising or polarising lenses can be supplied
- Spectacle frame for pulling over the normal prescription glasses
- Complete protection against glare due to deep frame edge lying close to the head and wide temples
- Good sideways orientation through windows in the temples
- Side temple windows matched to the particular lens cut-off filter
- Two frame sizes available
- Hard foam case included
- All cut-offs are suitable for use during PUVA therapy

CUSTOMER BENEFITS

- Enhances contrast vision
- Protects against glare in cases of raised sensitivity to glare
- Frame with complete all-round protection against glare
- Are worn over one’s own prescription spectacles

Cut-off

<table>
<thead>
<tr>
<th>Luminous transmittance</th>
<th>450 nm, non-polarised</th>
<th>511 nm, non-polarised</th>
<th>527 nm, non-polarised</th>
<th>550 nm, non-polarised</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filter category</td>
<td>0</td>
<td>1</td>
<td>1 to 2</td>
<td>2</td>
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</tbody>
</table>

Suitable for wearing whilst driving

- Small frame (61-12-140)
  - 16618450
  - 16618511
  - 16618527
  - 16618550

- Large frame (65-12-140)
  - 16619450
  - 16619511
  - 16619527
  - 16619550

Cut-off

<table>
<thead>
<tr>
<th>Luminous transmittance</th>
<th>450 nm, polarised</th>
<th>511 nm, polarised</th>
<th>527 nm, polarised</th>
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<tr>
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</table>

Suitable for wearing whilst driving

- Small frame (61-12-140)
  - 16618450P
  - 16618511P
  - 16618527P
  - 16618550P

- Large frame (65-12-140)
  - 16619450P
  - 16619511P
  - 16619527P
  - 16619550P

unconditionally suitable for driving according to DIN EN ISO 12312-1
not suitable for driving in accordance DIN EN ISO 12312-1
suitable for driving, not suitable for driving at night in accordance with DIN EN ISO 12312-1
Polarised clip-on sunglasses

- UV 400 – 100 % UV protection
- Polarised
- High quality design
- Supplied with soft case
- Suitable

CUSTOMER BENEFITS

- Polarisation makes them particularly suitable for watersports (sailing, fishing)
- The quick solution for clipping onto eyewear frame
- Ideal when you don’t want to wear a separate pair of sunglasses

<table>
<thead>
<tr>
<th>Item</th>
<th>Colour</th>
<th>Transmission</th>
<th>Filter Cat.</th>
<th>Clip-On</th>
</tr>
</thead>
<tbody>
<tr>
<td>29261</td>
<td>brown</td>
<td>approx. 15 %</td>
<td>3</td>
<td>Flip-Up-System</td>
</tr>
<tr>
<td>29262</td>
<td>grey</td>
<td>approx. 15 %</td>
<td>3</td>
<td>Flip-Up-System</td>
</tr>
<tr>
<td>29263</td>
<td>green</td>
<td>approx. 15 %</td>
<td>3</td>
<td>Flip-Up-System</td>
</tr>
</tbody>
</table>

CLIP-ONS system INDIVIDUAL

- Contrast enhanced vision and reduction in glare through absorption of the short-wave, energy-rich ultraviolet and blue components of the spectrum
- The use of cut-off filters is recommended in particular for conditions such as retinitis pigmentosa, macular degeneration, albinism, optic atrophy, aphakia
- The contrast-enhancing cut-off filter clip-ons are attached to the correction frame and can simply be flipped up where necessary

CUSTOMER BENEFITS

- For reducing glare in the case of increased glare sensitivity.
- For contrast enhancement.

<table>
<thead>
<tr>
<th>Item</th>
<th>Cut-off</th>
<th>Transmission</th>
<th>Filter Cat.</th>
<th>Suitable for wearing whilst driving</th>
</tr>
</thead>
<tbody>
<tr>
<td>1662450</td>
<td>450 nm</td>
<td>85 %</td>
<td>0</td>
<td>[ ]</td>
</tr>
<tr>
<td>1662450P</td>
<td>450 nm, polarised</td>
<td>30 %</td>
<td>2</td>
<td>[ ]</td>
</tr>
<tr>
<td>1662511</td>
<td>511 nm</td>
<td>60 %</td>
<td>1</td>
<td>[ ]</td>
</tr>
<tr>
<td>1662511P</td>
<td>511 nm, polarised</td>
<td>15 %</td>
<td>3</td>
<td>[ ]</td>
</tr>
<tr>
<td>1662527</td>
<td>527 nm</td>
<td>43 %</td>
<td>1 to 2</td>
<td>[ ]</td>
</tr>
<tr>
<td>1662527P</td>
<td>527 nm, polarised</td>
<td>13 %</td>
<td>3</td>
<td>[ ]</td>
</tr>
<tr>
<td>1662550</td>
<td>550 nm</td>
<td>30 %</td>
<td>2</td>
<td>[ ]</td>
</tr>
<tr>
<td>1662550P</td>
<td>550 nm, polarised</td>
<td>9 %</td>
<td>3</td>
<td>[ ]</td>
</tr>
</tbody>
</table>
READING AIDS

READING AIDS

READING ACCESSORIES FOR MAXIMUM VISION COMFORT.
**ready2read**

- A practical reading accessory for when you’re on the move
- Equipped with a comfortable spring mechanism to unfold the lens. If not in use the lens is folded back into the protective case
- In different colours or in an ornamental design

<table>
<thead>
<tr>
<th>Item</th>
<th>dpt</th>
<th>Item</th>
<th>dpt</th>
<th>Colour</th>
</tr>
</thead>
<tbody>
<tr>
<td>29181-15</td>
<td>1.50</td>
<td>29181-25</td>
<td>2.50</td>
<td>black</td>
</tr>
<tr>
<td>29183-15</td>
<td>1.50</td>
<td>29183-25</td>
<td>2.50</td>
<td>orange with ornamental design</td>
</tr>
<tr>
<td>29184-15</td>
<td>1.50</td>
<td>29184-25</td>
<td>2.50</td>
<td>green with ornamental design</td>
</tr>
<tr>
<td>29185-15</td>
<td>1.50</td>
<td>29185-25</td>
<td>2.50</td>
<td>blue with ornamental design</td>
</tr>
</tbody>
</table>

**CUSTOMER BENEFITS**

- Small, handy reading accessory for holding in front of the eyes. Fits in any pocket or larger purse
- Includes a stretch band for attaching the ready2read to a key ring, ensuring it’s always at hand and ready to use
- Can be used with just one hand

**clip&read**

- Mini readers with anti-slip pads to ensure they sit securely at the temples
- Available in 1.5 dpt and 2.5 dpt
- Colours: ice grey and dark red
- With case, incl. mobile connector and adhesive Velcro dots for attaching the case to a camera or bike

<table>
<thead>
<tr>
<th>Item</th>
<th>dpt</th>
<th>Colour</th>
</tr>
</thead>
<tbody>
<tr>
<td>29161-15</td>
<td>1.50</td>
<td>dark red</td>
</tr>
<tr>
<td>29162-15</td>
<td>1.50</td>
<td>ice grey</td>
</tr>
<tr>
<td>29161-25</td>
<td>2.50</td>
<td>dark red</td>
</tr>
<tr>
<td>29162-25</td>
<td>2.50</td>
<td>ice grey</td>
</tr>
</tbody>
</table>

**CUSTOMER BENEFITS**

- Ideal for reading mobile phone and camera displays
- Ultra-small, ultra-light, handy, great value for money, discreet and always ready at hand
- Can be attached to a mobile phone, digital camera or clipped on to a pocket

The reading aids on pages 45 to 47 are only for emergency use, as a spare or additional pair of spectacles for near vision. They are only intended for short term use and are not suitable for driving.
miniframe2

- Ready-to-wear readers in 5 different optical base values
- A strength which decreases upwards by 1 dioptre from the lower edge to the upper edge of the lens
- Sophisticated, classically elegant design
- Ideal as an entry-level model or as a spare or additional pair of glasses

CUSTOMER BENEFITS

✦ An extended field of vision in comparison to conventional single vision readers

<table>
<thead>
<tr>
<th>Item</th>
<th>Colour</th>
<th>dpt</th>
</tr>
</thead>
<tbody>
<tr>
<td>29050-10</td>
<td></td>
<td>1.00</td>
</tr>
<tr>
<td>29050-15</td>
<td></td>
<td>1.50</td>
</tr>
<tr>
<td>29050-20</td>
<td>gun</td>
<td>2.00</td>
</tr>
<tr>
<td>29050-25</td>
<td>matt</td>
<td>2.50</td>
</tr>
<tr>
<td>29050-30</td>
<td></td>
<td>3.00</td>
</tr>
</tbody>
</table>

miniframe2 SUN

- Optical characteristics the same as miniframe2, but in addition:
  - 85% grey tint,
  - Filter Category 3,
  - 100% UV protection

CUSTOMER BENEFITS

✦ Extended field of vision in comparison to conventional single vision reading glasses
✦ No glare in sunlight due to tinted lenses

<table>
<thead>
<tr>
<th>Item</th>
<th>Colour</th>
<th>dpt</th>
</tr>
</thead>
<tbody>
<tr>
<td>29080-10</td>
<td></td>
<td>1.00</td>
</tr>
<tr>
<td>29080-15</td>
<td></td>
<td>1.50</td>
</tr>
<tr>
<td>29080-20</td>
<td>gun</td>
<td>2.00</td>
</tr>
<tr>
<td>29080-25</td>
<td>matt</td>
<td>2.50</td>
</tr>
<tr>
<td>29080-30</td>
<td></td>
<td>3.00</td>
</tr>
</tbody>
</table>
Ready readers

- Rimless readers
- Available in 2 different colours
- Strengths from 1.0 dpt to 4.0 dpt in 0.5 dpt increments
- Plastic temples

CUSTOMER BENEFITS

- Inc. high quality case in frame colours, with zip
- Discreet, contemporary design
- Adjustable pad arms with soft pads

<table>
<thead>
<tr>
<th>Item-No.</th>
<th>Frame</th>
<th>Colour</th>
<th>Strengths</th>
</tr>
</thead>
<tbody>
<tr>
<td>Women</td>
<td>29131-</td>
<td>plastic</td>
<td>purple</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-10/-15/-20/-25/-30/-35/-40</td>
</tr>
<tr>
<td>Men</td>
<td>29132-</td>
<td>plastic</td>
<td>anthracite</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-10/-15/-20/-25/-30/-35/-40</td>
</tr>
</tbody>
</table>

Ready readers

- Rimless readers
- Available in 2 different colours
- Strengths from 1.0 dpt to 4.0 dpt in 0.5 dpt increments
- Plastic temples

CUSTOMER BENEFITS

- Inc. high quality case in frame colours, with zip
- Discreet, contemporary design
- Adjustable pad arms with soft pads

<table>
<thead>
<tr>
<th>Item Colour dpt</th>
</tr>
</thead>
<tbody>
<tr>
<td>29060-34</td>
</tr>
<tr>
<td>29060-36</td>
</tr>
<tr>
<td>29060-37</td>
</tr>
</tbody>
</table>

miniframe BIFO

- Ready-to-wear readers with +3.0 dpt and additional close-up segment
- Additional close-up segment: +4.5, +6.0 or +7.5 dpt
- Sophisticated, classically elegant design

CUSTOMER BENEFITS

- Easy Vision: readers with an additional close-up segment for small print or for reading details during hobby work
- Low Vision: readers for orientation on the reading material and for reading using the additional close-up segment
- Relaxed vision in both lens segments even at a short distance of use

For reading normal text size: +3 dpt

For reading small print or for intricate work: +4.5 dpt, +6.0 dpt or +7.5 dpt

The appropriate display is available as an option on page 84.
noves MONO

- High-magnification monocular spectacle magnifiers for magnification requirements from 3 x to 6 x
- Extremely thin lenses due to diffractive magnification structures located and protected on the inside of the lenses
- Lens thickness: only 4.5 mm
- Weight: only 20 g
- Opposite lens is frosted
- The spring-hinged frame has adjustable temples, soft pads and easily adjustable pad arms
- Included in delivery: matt lens, magnifying lens, frame, case

Note: The lenses are not fitted in the frame when delivered. The custom-made lenses are inserted into the frame by the dispenser on-site according to customer requirements.

CUSTOMER BENEFITS

 службы Monocular reading glasses with magnifying lenses and visually appealing, discreet design. The thickness of the lens is only 4.5 mm and this means that the lens strength is inconspicuous

This ensures a high level of acceptability when wearing in public e.g. for reading the menu in a restaurant

The half-eye design facilitates orientation above the eyewear

Frame, unglazed

<table>
<thead>
<tr>
<th>Item</th>
<th>Magnification</th>
<th>Working distance approx.</th>
</tr>
</thead>
<tbody>
<tr>
<td>168131</td>
<td>3 x, 12 dpt</td>
<td>83 mm</td>
</tr>
<tr>
<td>168141</td>
<td>4 x, 16 dpt</td>
<td>65 mm</td>
</tr>
<tr>
<td>168151</td>
<td>5 x, 20 dpt</td>
<td>50 mm</td>
</tr>
<tr>
<td>168161</td>
<td>6 x, 24 dpt</td>
<td>42 mm</td>
</tr>
</tbody>
</table>

* The spring-hinged frame has adjustable temples, soft pads and an easily adjustable pad arms

16814122: Colour gold matt
**noves BINO**

- Magnifying readers with prismatic convergence support for magnification requirements of up to 2.50 x
- The lenses have a very subtle appearance. They have a uniform thickness of 4 mm, regardless of the optical power
- Maximum protection of lenses against mechanical influences and dust is provided by high-precision, diffractive nanostructures on the insides of the lenses
- The half-eye design facilitates orientation above the eyewear
- Weight: only 18 g.
- The spring-hinged frame has adjustable temples, soft pads and easily adjustable pad arms
- Supplied in a robust hard shell case

**CUSTOMER BENEFITS**

- Relaxed binocular vision with high magnification
- These exceptionally discreet and thin lenses are particularly suitable for high optical powers

<table>
<thead>
<tr>
<th>Item</th>
<th>Colour</th>
<th>Magnification</th>
<th>dpt/Prism</th>
<th>Working distance approx.</th>
</tr>
</thead>
<tbody>
<tr>
<td>16824</td>
<td>gold matt</td>
<td>1.00 x</td>
<td>4.0/5 Δ</td>
<td>250 mm</td>
</tr>
<tr>
<td>16825</td>
<td>gold matt</td>
<td>1.25 x</td>
<td>5.0/6 Δ</td>
<td>200 mm</td>
</tr>
<tr>
<td>16826</td>
<td>gold matt</td>
<td>1.50 x</td>
<td>6.0/7 Δ</td>
<td>165 mm</td>
</tr>
<tr>
<td>16828</td>
<td>gold matt</td>
<td>2.00 x</td>
<td>8.0/9 Δ</td>
<td>125 mm</td>
</tr>
<tr>
<td>168210</td>
<td>gold matt</td>
<td>2.50 x</td>
<td>10.0/11 Δ</td>
<td>100 mm</td>
</tr>
</tbody>
</table>

---

**prismatic BINO comfort**

- Binocular readers with a higher addition and prismatic convergence support
- Eschenbach Optik prismatic bino is available in five different strengths with convergence-supporting prisms corresponding to the respective strength
- Not only achieves outstanding results but also looks good – stylish design means high level of acceptability
- The spring-hinged frame has adjustable temples, soft pads and easily adjustable pad arms
- Supplied in a robust hard shell case

**Note:** The distance values should lie within a range of ± 1 dpt (sphere, cylinder). (In the case of greater variances in distance values, we recommend that the prismatic half-eye glasses are individually fitted using the system INDIVIDUAL).
The UniVision® Hyperocular system

- Easy application – the adhesive tape ring enables easy correction of the lens position before the lens is attached permanently to the spectacle lens
- Cost-efficient – more favourably priced than other hyperocular systems offering comparable magnification
- Easy to change – if there is a change in the refraction or addition requirements, the lens can be quickly and easily attached to a new lens or replaced by a stronger lens
- Anti-scratch coating – the front of the lens has antiscratch coating for protection during everyday use

CUSTOMER BENEFITS

+ Discreet appearance – with a diameter of only 22 mm and the transparent tape ring, the UniVision® lens is barely noticeable
+ Ultra-light – the lens weighs only 1 gram
+ Can be used immediately – the lens is fitted onto the spectacle lens on-site, the customer therefore does not need to wait for the delivery of special lenses

<table>
<thead>
<tr>
<th>Item</th>
<th>dpt</th>
</tr>
</thead>
<tbody>
<tr>
<td>16431-6</td>
<td>6.00</td>
</tr>
<tr>
<td>16431-12</td>
<td>12.00</td>
</tr>
<tr>
<td>16431-24</td>
<td>24.00</td>
</tr>
<tr>
<td>16431-36</td>
<td>36.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Item</th>
<th>dpt</th>
</tr>
</thead>
<tbody>
<tr>
<td>16431-8</td>
<td>8.00</td>
</tr>
<tr>
<td>16431-16</td>
<td>16.00</td>
</tr>
<tr>
<td>16431-28</td>
<td>28.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Item</th>
<th>dpt</th>
</tr>
</thead>
<tbody>
<tr>
<td>16431-10</td>
<td>10.00</td>
</tr>
<tr>
<td>16431-20</td>
<td>20.00</td>
</tr>
<tr>
<td>16431-32</td>
<td>32.00</td>
</tr>
</tbody>
</table>

16431 UniVision® Hyperocular Applicator Kit
Contents:
- 10 UniVision® lenses in the following strengths: +6.0 dpt, +8.0 dpt, +10.0 dpt, +12.0 dpt, +16.0 dpt, +20.0 dpt, +24.0 dpt, +28.0 dpt, +32.0 dpt, +36.0 dpt
- 1 UniVision®-applicator kit
- 6 trial lenses in the following strengths: +12.0 dpt, +16.0 dpt, +20.0 dpt, +24.0 dpt, +28.0 dpt, +32.0 dpt

164321 UniVision® Replacement Applicator Kit
Contents:
- 3 tape rings
- 1 tape applicator
- 1 lens suction cup

164322 UniVision® Replacement Tape Rings
Contents:
- 5 tape rings

1643107 Empty case for UniVision®-System
- Empty case for individually putting together the UniVision® System.
- The trial lenses are only available with the UniVision® Hyperocular Application System 16431
TELESCOPES

MAGNIFICATION SYSTEMS
FOR EVERY OCCASION.
maxTV®

- Extremely comfortable to wear
- Easy adjustment of dioptré compensation: ±3.0 dpt, right/left can be separately adjusted, cylinder correction not possible
- Temples can be adjusted without having to be warmed
- PD range: 60 to 68 mm
- Main distance of use: 3 m
- Supplied in hard foam case

CUSTOMER BENEFITS

- Enables you to see the TV in double the size – particularly important when viewing small screens
- Relaxed viewing at any distance through individual focusing
- Comfortable to wear and will not slip down during use due to easily adjustable temples
- Ideal for reading subtitles and all text on the screen

maxEVENT

- Special vision aid for using at public events such as the theatre, musicals, concerts, the cinema and also in stadiums
- Extremely comfortable to wear
- Temples can be adjusted without having to be warmed
- Very high PD tolerance range of 60 to 68 mm
- Easy adjustment of dioptré compensation: -2.25 to +3.75 dpt, right/left can be separately adjusted, cylinder correction is not possible
- Reflective objective lenses
- Supplied in hard foam case

CUSTOMER BENEFITS

- Allows the user to get closer to the action on the stage at concerts, the theatre, the opera, musicals and many other events
- This vision aid will ensure you don’t miss out on any detail or any movement on-stage

maxDETAIL

- For demanding detailed work
- Easy adjustment of dioptré compensation: ±3 dpt, right/left can be separately adjusted, cylinder correction not possible
- Easily adjustable temples (can be adjusted without warming)
- Large PD range 60 to 68 mm
- Working distance approx. 40 cm
- Supplied in hard foam case

CUSTOMER BENEFITS

- Both hands are kept free for carrying out intricate work, handicrafts or reading
- Comfortable working distance and large visual field; lightweight, contemporary design
- Modern, practical design
maxTV® Clip

- Galilean clip-on system with flip-up lenses
- For clipping onto the existing prescription eyewear
- PD range: 60 to 68 mm
- Main distance of use: 3 m
- Supplied in hard foam case

New: With a new clip for improved ease of use.

maxDETAIL Clip

- For demanding detailed work
- Galilean clip-on system with flip-up lenses
- Working distance of approx. 35 cm
- PD range: 60 to 68 mm
- Adjustable lens height
- 5 height settings possible
- Supplied in hard foam case

New: With a new clip for improved ease of use.

CUSTOMER BENEFITS

- Specially designed for spectacle wearers
- Enables you to see the TV in double the size – particularly important when viewing small screens
- Ideal for reading subtitles and all text on the screen

CUSTOMER BENEFITS

- Specially designed for spectacle wearers
- Both hands are kept free for carrying out intricate work, handicrafts or reading
- Large visual field and comfortable working distance
**teleMED/ridoMED**

- Coated lens system
- Adjustment of pupillary distance of 54 to 74 mm
- Lens diameter: 23 mm
- Focusing/dioptre compensation adjusted individually for each eyepiece
- Ocular-side additional correction is possible, e.g. cylinder correction
- Sturdy carrier frame made from glass fibre reinforced, black plastic
- Comfortable, easily adjustable saddle bridge
- Supplied in black zippered case

**teleMED**

<table>
<thead>
<tr>
<th>Item</th>
<th>Magnification</th>
<th>Working distance</th>
<th>Visual field</th>
</tr>
</thead>
<tbody>
<tr>
<td>1634</td>
<td>3.0 x/binocular</td>
<td>70 cm up to ∞</td>
<td>160 m/1,000 m</td>
</tr>
<tr>
<td>16344</td>
<td>4.0 x/binocular</td>
<td>78 cm up to ∞</td>
<td>130 m/1,000 m</td>
</tr>
</tbody>
</table>

**ridoMED**

With convergence angles to suit the respective working distances.

<table>
<thead>
<tr>
<th>Item</th>
<th>Magnification</th>
<th>Working distance</th>
<th>Visual field</th>
</tr>
</thead>
<tbody>
<tr>
<td>16362</td>
<td>2.5 x/binocular</td>
<td>approx. 350 mm</td>
<td>75/350 mm</td>
</tr>
<tr>
<td>16363</td>
<td>3.0 x/binocular</td>
<td>approx. 200 mm</td>
<td>54/200 mm</td>
</tr>
<tr>
<td>16364</td>
<td>4.0 x/binocular</td>
<td>approx. 250 mm</td>
<td>35/250 mm</td>
</tr>
</tbody>
</table>

**universal CARRIER SYSTEM uniADAPT**

- Enables Keplerian systems to be quickly and easily mounted onto the carrier frame

**Case for special vision aids**

- For storing Galilean and Keplerian systems which have been mounted onto the carrier frame
- Artificial leather case with zipper fastening
- A foam rubber insert ensures that the mounted systems can be safely stored and protects them from impacts
Focusable Keplerian Systems

- Can be used as a hand-held monocular in combination with finger ring (Order No. 16711)
- Can be used as a spectacle mounted telescope
- High level of light transmission and image brightness
- Small, lightweight and inconspicuous
- High quality, dust-proof metal housing
- Very short near point
- With an intermediate adapter can be used with reading caps 16210-162116 (see page 57)
- Roof prism system with multicoating
- Supplied with: carrying cord, case
- Compatible with adapter system 1625 (see page 59)

Customer Benefits

- Ideal for use when you’re on the move (with finger ring)
- Can also be used in a system carrier frame

<table>
<thead>
<tr>
<th>Item</th>
<th>Magnification</th>
<th>Visual field distance</th>
<th>Visual angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>16731</td>
<td>2.8 x 9</td>
<td>220 m/1,000 m</td>
<td>12.5°/10°</td>
</tr>
<tr>
<td></td>
<td></td>
<td>26 mm/150 mm</td>
<td></td>
</tr>
<tr>
<td>16732</td>
<td>4.2 x 10</td>
<td>175 m/1,000 m</td>
<td>10°/7.2°</td>
</tr>
<tr>
<td></td>
<td></td>
<td>25 mm/200 mm</td>
<td></td>
</tr>
<tr>
<td>16733</td>
<td>4.2 x 12</td>
<td>220 m/1,000 m</td>
<td>12.5°/9.2°</td>
</tr>
<tr>
<td></td>
<td></td>
<td>32 mm/200 mm</td>
<td></td>
</tr>
<tr>
<td>16734</td>
<td>6.0 x 16</td>
<td>175 m/1,000 m</td>
<td>10°/6°</td>
</tr>
<tr>
<td></td>
<td></td>
<td>26 mm/250 mm</td>
<td></td>
</tr>
</tbody>
</table>

For technical information please refer to page 88.
GAILEAN SYSTEMS

- The Galilean systems Galilei 2.0 GF, Galilei 2.2 x and Galilei 2.5 x are mounted on the system carrier frame for use
- The Galilei systems are installed using the 1625 adapter system (see page 59)

Galilei 2.0 GF

- The Galilean system is set at infinity, reading caps are used for reading (see table)
- Ocular and objective lenses have a high-quality, anti-reflection hard coating
- Field of view 22°

CUSTOMER BENEFITS

neutral Large visual field, ideal for fluent reading
neutral Also suitable for watching television
neutral Lightweight therefore very comfortable to use
neutral Not affected by age-related shaking due to low system magnification and large visual field

<table>
<thead>
<tr>
<th>Item</th>
<th>Magnification</th>
<th>Working distance</th>
<th>Visual field*</th>
</tr>
</thead>
<tbody>
<tr>
<td>1623</td>
<td>2.0 x</td>
<td>∞</td>
<td>380 m / 1,000 m</td>
</tr>
<tr>
<td>1623 + 16233</td>
<td>1.5 x</td>
<td>approx. 330 mm</td>
<td>130 mm</td>
</tr>
<tr>
<td>1623 + 16234</td>
<td>2.0 x</td>
<td>250 mm</td>
<td>100 mm</td>
</tr>
<tr>
<td>1623 + 16235</td>
<td>2.5 x</td>
<td>200 mm</td>
<td>80 mm</td>
</tr>
<tr>
<td>1623 + 16236</td>
<td>3.0 x</td>
<td>167 mm</td>
<td>66 mm</td>
</tr>
<tr>
<td>1623 + 16238</td>
<td>4.0 x</td>
<td>120 mm</td>
<td>48 mm</td>
</tr>
<tr>
<td>1623 + 162310</td>
<td>5.0 x</td>
<td>100 mm</td>
<td>40 mm</td>
</tr>
<tr>
<td>1623 + 162312</td>
<td>6.0 x</td>
<td>83 mm</td>
<td>34 mm</td>
</tr>
</tbody>
</table>

* The figures stated for visual field are average values. They will vary depending on the distance from the eye to the eyepiece. Further information can be found on page 88.

Accessories: 162301
16230 16233 16234 16235 16236 16238 162310 162312

1630 Fitting case
The contents of the fitting case will enable you to test most of the adjustments for close range and distance which this system allows.
Contents: 2 x 1623 with trial frame adapters, 1 each of: 16230, 16233, 16234, 16235, 16236, 16238, 162310, 162312

162510 Fitting instructions
Galilei 2,2 x

- Excellent optical imaging quality
- The Galilean system is set at infinity, reading caps are used for reading (see table)
- Weight 16 g, with reading cap 22 g
- High quality, silicate lenses, MgF₂ coated
- Field of view 14°

### Item Magnification Visual field * Working distance
1621 2.2 x 250 m/1,000 m ∞

**CUSTOMER BENEFITS**

- Ideal for watching television
- For reading printed text (newspapers, bank statements, TV guides, telephone directories, etc.)
- Lightweight therefore very comfortable to use

---

Galilei 2,5 x

- Easy to adjust
- The Galilean system is set at infinity, reading caps are used for reading (see table)
- Ocular and objective lenses have a high-quality, anti-reflection hard coating
- Field of view 13°

### Item Magnification Visual field * Working distance
16225 2.5 x 230 m/1,000 m ∞

**CUSTOMER BENEFITS**

- Ideal for watching television and reading (in combination with reading caps)
- Simple to use due to large visual field
- Ultralight, only 11 g – therefore extremely comfortable to use

---

Reading caps

<table>
<thead>
<tr>
<th>Reading caps for Galilei 2.2 x and Galilei 2.5 x</th>
</tr>
</thead>
<tbody>
<tr>
<td>162101</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Item</th>
<th>Magnification</th>
<th>Visual field *</th>
<th>Working distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>1621/16225</td>
<td>2.2 x / 2.5 x</td>
<td>250 m/1,000 m / 230 m/1,000 m</td>
<td>∞</td>
</tr>
<tr>
<td>+ 16213</td>
<td>1.65 x / 1.9 x</td>
<td>67 mm / 64 mm</td>
<td>330 mm</td>
</tr>
<tr>
<td>+ 16214</td>
<td>2.2 x / 2.5 x</td>
<td>54 mm / 48 mm</td>
<td>250 mm</td>
</tr>
<tr>
<td>+ 16215</td>
<td>2.75 x / 3.15 x</td>
<td>44 mm / 38 mm</td>
<td>200 mm</td>
</tr>
<tr>
<td>+ 16216</td>
<td>3.3 x / 3.75 x</td>
<td>35 mm / 32 mm</td>
<td>167 mm</td>
</tr>
<tr>
<td>+ 16218</td>
<td>4.4 x / 5.0 x</td>
<td>25 mm / 24 mm</td>
<td>125 mm</td>
</tr>
<tr>
<td>+ 162110</td>
<td>5.5 x / 6.25 x</td>
<td>22 mm / 19 mm</td>
<td>100 mm</td>
</tr>
<tr>
<td>+ 162112</td>
<td>6.6 x / 7.5 x</td>
<td>18 mm / 16 mm</td>
<td>83 mm</td>
</tr>
<tr>
<td>+ 162116</td>
<td>8.8 x / 10.0 x</td>
<td>14 mm / 12 mm</td>
<td>63 mm</td>
</tr>
</tbody>
</table>

* The figures stated for visual field are average values. They will vary depending on the distance from the eye to the eyepiece. Further information can be found on page 88.
Galilean and Keplerian fitting case

Contents as per 16321, but also including:
1619  Trial frame adapters (two)
16731  Keplerian monocular 2.8 x 9
16732  Keplerian monocular 4.2 x 10
16733  Keplerian monocular 4.2 x 12
16734  Keplerian monocular 6.0 x 16
16711  viso-quick finger ring
167302  Adapter for reading caps for 16731 and 16732
167303  Adapter for reading caps for 16733 and 16734

The contents of the fitting cases will enable you to carry out adjustments for distance and near vision with the Galilean systems 1621 and 16225, as well as the Keplerian systems 16731, 16732, 16733 and 16734.
Mounting Kit

- The 1625 Mounting Kit enables all Eschenbach Optik telescopic systems, both Galilean and Keplerian, to be mounted into any special frame.
- The main features of the 1625 Mounting Kit are the carrier lenses made from CR 39, together with the corresponding convergence adapters for working distances of 200 mm, 250 mm, 330 mm and an adapter for distance tasks.
- The convergence adapters allow binocular use in the distance range, as well as in a variety of close-up ranges.
- The mounting kit is suitable for monocular and binocular use in both the distance and close-up ranges.
- If an adjustment error occurs (incorrectly determined visual center) minimal expense is incurred as only the carrier disks need to be reground.

Contents:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Item</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Fitting brochure</td>
</tr>
<tr>
<td>6</td>
<td>Carrier disks</td>
</tr>
<tr>
<td>2</td>
<td>Centering inserts for grinding the carrier disks</td>
</tr>
<tr>
<td>2</td>
<td>Adapters for infinite distance use</td>
</tr>
<tr>
<td>2</td>
<td>Convergence adapters for 200 mm (binocular)</td>
</tr>
<tr>
<td>2</td>
<td>Convergence adapters for 250 mm (binocular)</td>
</tr>
<tr>
<td>2</td>
<td>Convergence adapters for 330 mm (binocular)</td>
</tr>
</tbody>
</table>

Small mounting components:

| 6 x | Spacer washers (0.5 mm, 1.0 mm, 2.0 mm) |
| 6   | Lock rings for securing the monoculars |
| 2   | Holding rings with adhesive ring for the use of correction lenses |
| 1   | Lens former for correction lens |
| 1   | Socket |
| 2   | Adapters for trial frame |

Order No. for reordering:

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Quantity/Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1619</td>
<td>2 Adapters for the trial frames</td>
</tr>
<tr>
<td>1622</td>
<td>2 Holding rings for the use of correction lenses</td>
</tr>
<tr>
<td>16221</td>
<td>1 Lens former for correction lens and replacement adhesive rings</td>
</tr>
<tr>
<td>16261</td>
<td>2 Carrier lenses, adapters for infinite distance use, centering inserts</td>
</tr>
<tr>
<td>16262</td>
<td>2 Carrier lenses, convergence adapters for 200 mm, centering inserts</td>
</tr>
<tr>
<td>16263</td>
<td>2 Carrier lenses, convergence adapters for 250 mm, centering inserts</td>
</tr>
<tr>
<td>16264</td>
<td>2 Carrier lenses, convergence adapters for 330 mm, centering inserts</td>
</tr>
<tr>
<td>16265</td>
<td>6 Carrier lenses</td>
</tr>
<tr>
<td>16266</td>
<td>6 Adapters for infinite distance use</td>
</tr>
</tbody>
</table>

1627 Small mounting components, consisting of:

| 6 each of: | spacer washes (0.5 mm, 1.0 mm, 2.0 mm), lock rings, |
| 2         | Holding rings with adhesive ring for correction lens |
| 1         | Mounting tool: socket |
| 1628      | 1 Mounting tool: socket |
| 16715     | 6 Lock rings |
### varioPLUS

- A handheld monocular, stand microscope and stand magnifier
- Keplerian roof prism system, multi-coated
- High level of light transmission and image brightness
- Eyepiece cup can be inverted for protection
- Dustproof, light metal housing
- Magnification with mounted stand magnifier: 24 x
- Magnification stand magnifier alone: 3 x
- Supplied with carrying cord and case

<table>
<thead>
<tr>
<th>Item</th>
<th>Magnification</th>
<th>Visual field</th>
<th>Visual angle</th>
<th>Working distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>1674820</td>
<td>8 x 20</td>
<td>125 m/1,000 m</td>
<td>7°</td>
<td>300 mm to ∞</td>
</tr>
<tr>
<td>1674832</td>
<td>8 x 32</td>
<td>140 m/1,000 m</td>
<td>8°</td>
<td>700 mm to ∞</td>
</tr>
</tbody>
</table>

### club® M

- One-handed, easy to operate slide focus
- Keplerian roof prism system, multi-coated
- High level of light transmission and image brightness
- Rubberised housing
- Supplied with black leather case

<table>
<thead>
<tr>
<th>Item</th>
<th>Magnification</th>
<th>Visual field</th>
<th>Visual angle</th>
<th>Working distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>4293616</td>
<td>6 x 16</td>
<td>140 x 108 m/1,000 m</td>
<td>8° x 6.2°</td>
<td>1,000 mm to ∞</td>
</tr>
<tr>
<td>4293816</td>
<td>8 x 16</td>
<td>122 x 94 m/1,000 m</td>
<td>7° x 5.4°</td>
<td>1,000 mm to ∞</td>
</tr>
</tbody>
</table>

### microlux

- Small, lightweight and inconspicuous
- The lens unit is stored safely in its own plastic housing and by pressing gently with the finger moves out into the viewing position
- Keplerian roof prism system, blue multi-coated lenses
- With carrying cord and case

<table>
<thead>
<tr>
<th>Item</th>
<th>Magnification</th>
<th>Near point</th>
<th>Focus</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>4294413</td>
<td>4 x</td>
<td>4 m</td>
<td>fixed focus</td>
<td>48 x 25 x 38 mm</td>
</tr>
<tr>
<td>4294618</td>
<td>6 x</td>
<td>2 m</td>
<td>slide focus</td>
<td>79 x 27 x 45 mm</td>
</tr>
</tbody>
</table>

Further technical information on the individual monoculars can be found on page 88.
HEADBAND & CLIP-ON MAGNIFIERS

PRACTICAL VISION AIDS FOR HOBBIES AND WORK.
laboMED

- Not suitable for spectacle wearers
- Discreet metal frame, black matt finish
- Supplied with protective box
- Can also be used with monocular lens components

laboCOMFORT

- When not in use the shield can be simply lifted up out of the way
- Headband has an adjustable strap for individual height adjustment
- The headband magnifier can also be used by spectacle wearers
- Dark grey, enclosed plastic shield against diffused light and with an integrated lens bracket
- The headband magnifier can only be used with binocular lenses

### CUSTOMER BENEFITS

- laboMED and laboCOMFORT leave both hands free for working
- Comfortable working distance even with a high level of magnification
- Ideal not just for work tasks but also for leisure and craft activities

* Shorter working distance due to integrated convergence supporting prisms.

<table>
<thead>
<tr>
<th>Item</th>
<th>Lens</th>
<th>Magnification</th>
<th>Working dist. approx.</th>
</tr>
</thead>
<tbody>
<tr>
<td>164450</td>
<td>binocular</td>
<td>1.7 x/2.5 dpt</td>
<td>400 mm</td>
</tr>
<tr>
<td>164451</td>
<td>binocular</td>
<td>2.0 x/2.5 dpt</td>
<td>250 mm*</td>
</tr>
<tr>
<td>164452</td>
<td>binocular</td>
<td>2.5 x/5.0 dpt</td>
<td>180 mm</td>
</tr>
<tr>
<td>164453</td>
<td>binocular</td>
<td>3.0 x/7.75 dpt</td>
<td>130 mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Item</th>
<th>Lens</th>
<th>Magnification</th>
<th>Working dist. approx.</th>
</tr>
</thead>
<tbody>
<tr>
<td>164817</td>
<td>binocular</td>
<td>1.7 x/2.5 dpt</td>
<td>400 mm</td>
</tr>
<tr>
<td>164820</td>
<td>binocular</td>
<td>2.0 x/2.5 dpt</td>
<td>250 mm*</td>
</tr>
<tr>
<td>164825</td>
<td>binocular</td>
<td>2.5 x/5.0 dpt</td>
<td>180 mm</td>
</tr>
<tr>
<td>164830</td>
<td>binocular</td>
<td>3.0 x/7.75 dpt</td>
<td>130 mm</td>
</tr>
</tbody>
</table>
laboCLIP

- Used with distance spectacles to achieve optimum image quality
- Lenses easily interchangeable
- Lens sizes: monocular Ø 40 mm,
  - binocular 74.5 x 28 mm
- Lightweight
- Lens clamp made from glass fibre reinforced plastic
- Supplied with protective box

<table>
<thead>
<tr>
<th>Item</th>
<th>Lens</th>
<th>Magnification</th>
<th>Working dist. approx.</th>
</tr>
</thead>
<tbody>
<tr>
<td>164617</td>
<td>binocular</td>
<td>1.7 x/2.5 dpt</td>
<td>400 mm</td>
</tr>
<tr>
<td>164620</td>
<td>binocular</td>
<td>2.0 x/2.5 dpt</td>
<td>250 mm*</td>
</tr>
<tr>
<td>164625</td>
<td>binocular</td>
<td>2.5 x/5.0 dpt</td>
<td>180 mm</td>
</tr>
<tr>
<td>164630</td>
<td>binocular</td>
<td>3.0 x/7.75 dpt</td>
<td>130 mm</td>
</tr>
<tr>
<td>164640</td>
<td>monocular</td>
<td>4.0 x/16 dpt</td>
<td>55 mm</td>
</tr>
<tr>
<td>164670</td>
<td>monocular</td>
<td>7.0 x/28 dpt</td>
<td>32 mm</td>
</tr>
</tbody>
</table>

Lenses, available separately

These lenses are also available separately under the following item numbers:

<table>
<thead>
<tr>
<th>Item</th>
<th>Lens</th>
<th>Magnification</th>
<th>Working dist. approx.</th>
</tr>
</thead>
<tbody>
<tr>
<td>16455</td>
<td>binocular</td>
<td>1.7 x/2.5 dpt</td>
<td>400 mm</td>
</tr>
<tr>
<td>16451</td>
<td>binocular</td>
<td>2.0 x/2.5 dpt</td>
<td>250 mm*</td>
</tr>
<tr>
<td>16452</td>
<td>binocular</td>
<td>2.5 x/5.0 dpt</td>
<td>180 mm</td>
</tr>
<tr>
<td>16453</td>
<td>binocular</td>
<td>3.0 x/7.75 dpt</td>
<td>130 mm</td>
</tr>
<tr>
<td>16454</td>
<td>monocular</td>
<td>4.0 x/16 dpt</td>
<td>55 mm</td>
</tr>
<tr>
<td>16457</td>
<td>monocular</td>
<td>7.0 x/28 dpt</td>
<td>32 mm</td>
</tr>
</tbody>
</table>

* Shorter working distance due to integrated convergence supporting prisms.

CUSTOMER BENEFITS

- The laboCLIP system can be easily attached to the spectacle frame
- The laboCLIP leaves both hands free for working
- Comfortable working distance even with a high level of magnification
- Ideal not just for work tasks but also for leisure and craft activities
TECHNICAL MAGNIFIERS

PRECISION OPTICS.
COMPACT DESIGN.
Precision scale magnifiers

- For technical professions, the printing industry, dermatology
- Distortion-free image with pinpoint clarity
- Fine focusing via easy-grip focusing ring
- Supplied with standard scale no. 115201, measuring range 20 mm, 1/10 mm graduation, size: 23 mm Ø
- Housing made from glass fibre reinforced polyamide
- Supplied in a solid plastic box with space for other scales

<table>
<thead>
<tr>
<th>Item</th>
<th>Magnification</th>
<th>dpt</th>
</tr>
</thead>
<tbody>
<tr>
<td>11547</td>
<td>7 x</td>
<td></td>
</tr>
<tr>
<td>115410</td>
<td>10 x</td>
<td></td>
</tr>
</tbody>
</table>

115414 LED lighting unit

- For precision scale magnifiers 115447 and 1154410
- Handle holds 2 batteries

| Item Specification Magnification dpt |
|---------------------------------------|--------|
| 155071 Battery handle 10 x 38.0       |
| 155074 Battery handle, LED 10 x 38.0  |

Measuring magnifier

- For technical professions, the printing industry, dermatology
- With measuring scale

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
<th>Magnification</th>
<th>dpt</th>
</tr>
</thead>
<tbody>
<tr>
<td>155071 Battery handle</td>
<td>10 x</td>
<td>38.0</td>
<td></td>
</tr>
<tr>
<td>155074 Battery handle, LED</td>
<td>10 x</td>
<td>38.0</td>
<td></td>
</tr>
</tbody>
</table>

Tube microscopes

- Micromagnifier with illumination
- Suitable for inspecting a wide variety of surfaces such as metals, textiles, minerals, varnishes, etc

New: with LED light

- The large adjustment range also makes it possible to accommodate the needs of users with significant vision defects
- A high level of brightness is achieved as a result of the large lens aperture. Additional illumination is not usually required in daylight conditions
- Precise focusing with adjustable wheel
- The light can be used when required
- Magnification 30 x, glass lenses
LINEN TESTERS

Developed to meet the requirements of technical applications.

Metal precision linen testers

- Precision linen tester
- Brass frame, chrome-plated, silk matt finish

<table>
<thead>
<tr>
<th>Item</th>
<th>Size</th>
<th>Magnification</th>
<th>Cut-out</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>1254</td>
<td>Ø 11 mm</td>
<td>48 dpt/12 x</td>
<td>10 x 10 mm</td>
<td>23 mm</td>
</tr>
<tr>
<td>1255</td>
<td>Ø 12 mm</td>
<td>40 dpt/10 x</td>
<td>15 x 15 mm</td>
<td>27 mm</td>
</tr>
<tr>
<td>1256</td>
<td>Ø 15 mm</td>
<td>32 dpt/8 x</td>
<td>20 x 20 mm</td>
<td>33 mm</td>
</tr>
<tr>
<td>1258</td>
<td>Ø 20 mm</td>
<td>24 dpt/6 x</td>
<td>25 x 25 mm</td>
<td>42 mm</td>
</tr>
<tr>
<td>1259</td>
<td>Ø 28 mm</td>
<td>20 dpt/5 x</td>
<td>30 x 30 mm</td>
<td>53 mm</td>
</tr>
</tbody>
</table>

Plastic precision linen testers

- Linen tester with lateral scale
- Scale with mm graduation
- Black plastic housing

<table>
<thead>
<tr>
<th>Item</th>
<th>Size</th>
<th>Magnification</th>
<th>Cut-out</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>1271</td>
<td>Ø 12 mm</td>
<td>40 dpt/10 x</td>
<td>15 x 15 mm</td>
<td>28 mm</td>
</tr>
<tr>
<td>1272</td>
<td>Ø 16 mm</td>
<td>30 dpt/8 x</td>
<td>20 x 20 mm</td>
<td>35 mm</td>
</tr>
<tr>
<td>1270</td>
<td>Ø 28 mm</td>
<td>19 dpt/5 x</td>
<td>30 x 30 mm</td>
<td>53 mm</td>
</tr>
</tbody>
</table>

Accessories:

Cases are available as an optional accessory for the metal and plastic linen testers. The table below matches the item number of each linen tester with the item number of the matching case.

<table>
<thead>
<tr>
<th>Order No. Linen Tester</th>
<th>Order No. Case</th>
</tr>
</thead>
<tbody>
<tr>
<td>1254/1255/1271</td>
<td>12002</td>
</tr>
<tr>
<td>1256/1272</td>
<td>12003</td>
</tr>
<tr>
<td>1258/1259/1270</td>
<td>12005</td>
</tr>
</tbody>
</table>
**Metal precision folding magnifiers**

- Matt chromium-plated brass body with eyelet
- Black painted metal lens frame

<table>
<thead>
<tr>
<th>Item</th>
<th>Lens</th>
<th>Magnification</th>
<th>Lens size</th>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>118410</td>
<td>Achromatic</td>
<td>3 x + 6 x = 9 x</td>
<td>Ø 23 mm</td>
<td>Distortion-free image</td>
</tr>
<tr>
<td>118420</td>
<td>Achromatic</td>
<td>20 x</td>
<td>Ø 23 mm</td>
<td></td>
</tr>
<tr>
<td>11766</td>
<td>Aplanatic</td>
<td>6 x</td>
<td>Ø 23 mm</td>
<td>Distortion-free image</td>
</tr>
<tr>
<td>11768</td>
<td>Aplanatic</td>
<td>8 x</td>
<td>Ø 23 mm</td>
<td></td>
</tr>
<tr>
<td>117610</td>
<td>Aplanatic</td>
<td>10 x</td>
<td>Ø 23 mm</td>
<td></td>
</tr>
<tr>
<td>117612</td>
<td>Aplanatic</td>
<td>12 x</td>
<td>Ø 23 mm</td>
<td></td>
</tr>
<tr>
<td>1187</td>
<td>Biconvex</td>
<td>4 x + 6 x = 10 x</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Plastic precision folding magnifiers**

<table>
<thead>
<tr>
<th>Item</th>
<th>Lens</th>
<th>Magnification</th>
<th>Lens size</th>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>11869</td>
<td>Achromatic, coated</td>
<td>3 x + 6 x = 9 x</td>
<td>Ø 23 mm</td>
<td>Distortion-free image</td>
</tr>
<tr>
<td>118210</td>
<td>Aplanatic</td>
<td>10 x</td>
<td>Ø 23 mm</td>
<td>Distortion-free image</td>
</tr>
</tbody>
</table>

**Stone magnifier**

- With air hole to prevent condensation
- Made from flame-retardant plastic, colour: anthracite

<table>
<thead>
<tr>
<th>Item</th>
<th>Lens</th>
<th>Size</th>
<th>Magnification</th>
</tr>
</thead>
<tbody>
<tr>
<td>1130</td>
<td>dual lens</td>
<td>Ø 13 mm</td>
<td>15 x</td>
</tr>
</tbody>
</table>
### Watchmaker’s magnifiers

- With air hole to prevent condensation
- Made from flame-retardant plastic, colour: anthracite

<table>
<thead>
<tr>
<th>Item</th>
<th>Lens</th>
<th>Size</th>
<th>Magnification</th>
</tr>
</thead>
<tbody>
<tr>
<td>11243</td>
<td>Plano-convex</td>
<td>Ø 25 mm</td>
<td>3.0 x/12.0 dpt</td>
</tr>
<tr>
<td>11245</td>
<td>Plano-convex</td>
<td>Ø 25 mm</td>
<td>5.0 x/20.0 dpt</td>
</tr>
<tr>
<td>11247</td>
<td>Plano-convex</td>
<td>Ø 25 mm</td>
<td>7.0 x/27.7 dpt</td>
</tr>
<tr>
<td>1124110</td>
<td>Aspheric</td>
<td>Ø 25 mm</td>
<td>10.0 x/40.0 dpt</td>
</tr>
</tbody>
</table>

### Folding magnifiers

- Folding magnifier in durable, plastic case
- Small, compact and handy

<table>
<thead>
<tr>
<th>Item</th>
<th>Magnification</th>
<th>Lens size</th>
</tr>
</thead>
<tbody>
<tr>
<td>110910</td>
<td>10.0 x</td>
<td>Ø 23 mm</td>
</tr>
</tbody>
</table>

### Stand magnifiers

- High magnification, e.g. for retouching work in photography
- Can also be used as a high magnification vision aid
- Open base for working under the lens (with the exception of 1153, which has a closed base)
- The transparent stand allows excellent illumination from all sides

<table>
<thead>
<tr>
<th>Item</th>
<th>Lens</th>
<th>Size</th>
<th>Magnification</th>
</tr>
</thead>
<tbody>
<tr>
<td>2626</td>
<td>Aspheric</td>
<td>Ø 50 mm</td>
<td>22.0 dpt/6.0 x</td>
</tr>
<tr>
<td>2628</td>
<td>Aspheric</td>
<td>Ø 35 mm</td>
<td>38.0 dpt/10.0 x</td>
</tr>
<tr>
<td>1153</td>
<td>Aplanatic</td>
<td>Ø 25 mm</td>
<td>28.7 dpt/8.0 x</td>
</tr>
</tbody>
</table>
COMPACT DESIGN.
ENORMOUS BENEFITS.

Easy Vision
Better vision. Better life. Power to varifocals

Reading test

Visual acuity usually decreases with age.
ACCESSORIES FOR SPECIALIST VISION AIDS

Reading Stand

- The reading stand encourages an upright, orthopaedically correct posture and therefore prevents back pain
- When the reading stand is used in conjunction with a magnifying vision aid (e.g. system varioPLUS), an optimum angle of view and a uniform distance to the reading material are always achieved, as well as bright illumination of the field of view
- Guarantees stability and a tremble-free image
- Supporting surface area: 40 x 35 cm

Accessory for 1605:
16051 Guide rail

- Elderly people in particular often have problems guiding magnifiers across the reading material. The guide rail facilitates line orientation
- The guide rail can be secured at any height by means of a fixing screw
- Material: birch wood

Cleaning spray

- Special cleaning spray for optical surfaces, e.g. lenses and displays of electronic low vision aids
- Suitable for all screens (TFT, LED, LCD)
- Alcohol-free and non-smearing
- Liquid made in Germany
- Sales package with 2 x 30 ml cleaning spray and microfibre cloth
- Supplied in pack of 6

Disinfectant spray

- Water-based surface disinfectant spray with long-lasting effect for up to 10 days
- Suitable for all materials and optical surfaces
- Effective against bacteria, fungi and viruses
- Made in Germany
- Sales package with 100 ml disinfectant spray and microfibre cloth
- Supplied in pack of 6
Easy Vision Reading test

- Assists in the selection of the correct product use
- Provides supporting sales arguments for Easy Vision products
- For a test distance of 40 cm
- With a reading test for visual acuity of 0.1 to 1.0 on the reverse side
- With test texts from everyday life on the inside pages: small print on the move and at home
- Material: white, washable plastic, DIN A4

1625101 Fitting brochure for magnifying vision aids
This brochure gives a clear explanation of how to adjust the Eschenbach Optik Galilean and Keplerian system.

The brochure can be obtained from our sales department.
OPTIMUM PRESENTATION.
VISUALLY IMPRESSIVE.
SALES SUPPORT
**Optoform IV**

- High quality presentation and storage system for magnifiers, vision aids and other products from Eschenbach Optik
- The impressive specification makes this system the ideal solution for creating an eye-catching display of product highlights to promote sales and provides a practical merchandising tool for successful sales discussions with customers
- Elegant glass shelves immediately draw attention to the product highlights on open display
- In the illuminated display case an entire product tray can be clearly presented behind the protective glass panel
- A glazed section above the door now means that the top shelf can be easily viewed from the front
- The sophisticated design ensures high quality product presentation
- Enclosed main display unit with door ensures dust-free and safe storage of the trays
- Flexible tray system presents the product range in a clear and professional manner, ideal for demonstrating products to your customers
- Illuminated panel with interchangeable advertising image draws the attention of the customer to the product highlights.
- Display unit is equipped with casters - rear casters can be locked to guarantee stability

**Material:**
Wood effect, white, high gloss

**Lighting:**
LED strip incl. cable route, transformer with 230 V/50 Hz Europlug CEE 7/16

**Dimensions:**
- **Total:** W 556 x D 450 x H 1820 mm
- **Main display unit:** W 556 x D 450 x H 860 mm
- **Upper display unit:** W 556 x D 98 x H 960 mm

**Weight without product:** approx. 60 kg

**Number of trays supplied:** 5

**Accessories:**
- 189501 Individual tray

**Example of use only:** supplied without insert and without products.
mobilux®-LED tray

Contents: 1 each of: 15112, 15113, 15114, 15115, 15116, 15117, 151110, 151112
Also available: 183763 Tray insert

Electronic I

Half-size display tray

Contents: 1 each of: 165011, 16511
Also available: 188023 Tray insert

Electronic II

Half-size display tray

Contents: 1 each of: 165011, 16521
Also available: 188033 Tray insert

Electronic III

Half-size display tray

Contents: 1 x 16551
Also available: 188043 Tray insert

mobilux® LED

Half-size display tray

Contents: 1 each of: 15112, 151141, 15115, 15116
Also available: 188103 Tray insert
mobilux® LED
Half-size display tray
Contents: 1 each of: 15115, 15116, 15117, 151110, 151112
Also available: 188113 Tray insert

mobilux® LED
Half-size display tray
Contents: 2 each of: 15113, 15114
Also available: 188123 Tray insert

mobilux® LED
easyPOCKET
Half-size display tray
Contents: 1 each of: 15113, 15114, 152110, 152111, 152122
Also available: 188133 Tray insert

mobilux® LED/
mobase
Half-size display tray
Contents: 1 each of: 15113, 15115, 15117, 151110, 1511001, 1511002, 1511003, 1511004
Also available: 188143 Tray insert

mobilux® LED
Half-size display tray
Contents: 1 each of: 15122, 15114, 2 x 15113
Also available: 188153 Tray insert

Stand
Magnifiers
Half-size display tray
Contents: 1 each of: 143611, 143621, 156512, 1566
Also available: 188203 Tray insert
system varioPLUS
Half-size display tray
Contents: 1 each of 1599144, 155773, 155073, 155173, 155273, 155373, 155493, 155993
Also available: 18823 Tray insert

system varioPLUS
Half-size display tray
Contents: 1 each of 1599144, 158063, 158263, 158173
Also available: 18824 Tray insert

Bright Field Magnifier/
Magnifying Rulers
Half-size display tray
Contents: 1 each of: 1420, 1421, 1424, 143830, 2806, 2608
Also available: 18825 Tray insert

powerlux
Half-size display tray
Contents: 1 each of: 158614, 158620, 1586281
Also available: 18826 Tray insert

laboMED/
laboCLIP
Half-size display tray
Contents: 1 each of: 162461, 164450, 164620, 16451, 16452, 16453, 16454, 16457
Also available: 18830 Tray insert

maxTV®/
maxDETAIL
Half-size display tray
Contents: 1 each of: 162411, 162421, 162451, 162461
Also available: 18831 Tray insert
easyPOCKET/easyPOCKET XL
Half-size display tray

Contents: 1 each of: 152110, 152111, 152122, 152210, 152211
Also available: 18833 Tray insert

Folding Magnifiers Classic
Half-size display tray

Contents: 1 each of: 1752150, 1752160, 1752550, 1752560, 1752850, 1752860
Also available: 18835 Tray insert

Folding Magnifiers Classic
Half-size display tray

Contents: 1 each of: 1740130, 1740150, 1740160, 1740250, 1740260, 1740450, 1740460, 1740530, 1740550, 1740560
Also available: 18836 Tray insert

New

Folding Magnifiers
Half-size display tray

Contents: 1 each of: 152094, 152097, 1520910, 152110, 152211, 152212, 172116, 172146, 172156
Also available: 18837 Tray insert

wellness PROTECT®-clip-ons
Half-size display tray

Contents: 1 each of: 1663315, 1663365, 16635015, 1663385
Also available: 18840 Tray insert

System INDIVIDUAL-clip-ons
Half-size display tray

Contents: 1 each of: 1662450, 1662511, 1662527, 1662550
Also available: 18840 Tray insert
System
INDIVIDUAL-
clip-ons
Half-size display tray

Contents: 1 each of: 1662450P, 1662511P, 1662527P, 1662550P
Also available: 188403 Tray insert

wellness
PROTECT®
Half-size display tray

Contents: 1 each of: 1663865, 1663885, 1663915, 1663975P
Also available: 188413 Tray insert
The insert 188413 is suitable for all wellnessPROTECT frames.

wellness
PROTECT® XL
Half-size display tray

Contents: 1 each of: 1663165, 1663275P, 166345015, 166351580
Also available: 188423 Tray insert
The insert 188423 is suitable for all wellnessPROTECT frames.

Biconvex
Magnifiers
Half-size display tray

Contents: 1 each of: 2612401, 2612601, 2612801, 26129501
Also available: 288003 Tray insert

visomed
Half-size display tray

Contents: 1 each of: 261465, 261480, 2614150, 2614840
Also available: 288013 Tray insert

economic, angular
Half-size display tray

Contents: 1 each of: 26421255, 2642150, 2642840
Also available: 288053 Tray insert
economic, round
Half-size display tray

Contents: 1 each of: 264265, 264280, 2642100
Also available: 288063 Tray insert

aspheric II
Half-size display tray

Contents: 1 each of: 265550, 265570, 2655150, 2655750
Also available: 288103 Tray insert

mediplan ergo
Half-size display tray

Contents: 1 each of: 266850, 266875, 266885, 2668950
Also available: 288153 Tray insert

combiPLUS
Half-size display tray

Contents: 1 each of: 2031, 2032, 2 each of 2034
Also available: 288203 Tray insert
Optoform small

Compact, flexible and portable – this high quality table top display is ideal for showcasing your magnifiers and low vision aids. The removable back wall with interchangeable show cards focuses the attention on the presentation surface featuring the highlight products. Two transparent inserts display further products. Flexible to use and light to transport, Optoform small is therefore ideal for promotional, exhibition and mobile sales stands.

Shop window display

Attractive, practical and variable - this high quality shop window display offers flexible product advertising and enables you to focus the customers’ attention on current product highlights.

Further information can be obtained from your representative.
Display
visolux DIGITAL XL FHD

Contents: 1 x 16551

16551907 Empty display
As 165519, but without contents

Standard display

Includes a variety of show cards. Further information can be obtained from your representative.
Display visolux DIGITAL HD

Contents: 2 each of: 152110, 152111, 152122

1521907 Empty display
As 152119, but without contents

Display mobilux® DIGITAL Touch HD

Contents: 1 x 16511

1651907 Empty display
As 165119, but without contents

Display smartlux® DIGITAL

Contents: 1 x 165011

16501907 Empty display
As 165019, but without contents

Display easyPOCKET

Contents: 2 each of:
152110, 152111, 152122

1521907 Empty display
As 152119, but without contents

Display visolux+

Contents: 2 x 1566

1566907 Empty display
As 15669, but without contents

Display scribolux

Contents: 2 x 156512

156511907 Empty display
As 1565119, but without contents
Display powerlux

Contents: 1 each of: 158620, 158628

1586209

158620907 Empty display
As 1586209, but without contents

Display maxTV®

Contents: 1 x 162411

162411

162411907 Empty display
As 1524119, but without contents

Display visoPOCKET

Contents: 4 x 172156, 3 x 172146, 3 x 172116

17219

1721907 Empty display
As 17219, but without contents

Display makrolux

Contents: 1 each of: 143611, 143621

143620907 Empty display
As 1436209, but without contents
Product display unit mobilux® LED

Contents Model I:
- 3 x 15113  1 x 15114
- 1 x 151141  2 x 15115
- 2 x 15117  1 x mobilux® LED-flyer (set of 5 pcs.)

<table>
<thead>
<tr>
<th>Item</th>
<th>Display incl. Flyer</th>
<th>Flyer</th>
</tr>
</thead>
<tbody>
<tr>
<td>1511910-1</td>
<td>Language: German</td>
<td>87269</td>
</tr>
<tr>
<td>1511910-2</td>
<td>Language: Italian</td>
<td>8726907</td>
</tr>
<tr>
<td>1511910-3</td>
<td>Language: English</td>
<td>8726903</td>
</tr>
<tr>
<td>1511910-4</td>
<td>Language: French</td>
<td>8726905</td>
</tr>
<tr>
<td>1511910-5</td>
<td>Language: Spanish</td>
<td>8726906</td>
</tr>
</tbody>
</table>

Contents Model II:
- 1 x 15112  2 x 15113  1 x 15114
- 1 x 151141  1 x 15115  1 x 15116
- 2 x 15122  1 x mobilux® LED-flyer (set of 5 pcs.)

<table>
<thead>
<tr>
<th>Item</th>
<th>Display incl. Flyer</th>
<th>Flyer</th>
</tr>
</thead>
<tbody>
<tr>
<td>1511920-1</td>
<td>Language: German</td>
<td>87269</td>
</tr>
<tr>
<td>1511920-2</td>
<td>Language: Italian</td>
<td>8726907</td>
</tr>
<tr>
<td>1511920-3</td>
<td>Language: English</td>
<td>8726903</td>
</tr>
<tr>
<td>1511920-4</td>
<td>Language: French</td>
<td>8726905</td>
</tr>
<tr>
<td>1511920-5</td>
<td>Language: Spanish</td>
<td>8726906</td>
</tr>
</tbody>
</table>

15119107 Empty display
As 1511910-1, -2, -3, -4, -5, but without contents

Display for reading magnifiers

Contents: 4 x 90 x 50 mm, 3 x Ø 80 mm,
3 x Ø 60 mm, 2 x Ø 45 mm

2612107 Empty display
As 26121, but without contents

Universal display for readers

2900907 Example of use
## TECHNICAL INFORMATION

### On desktop video magnifier

<table>
<thead>
<tr>
<th>Display</th>
<th>vario DIGITAL FHD Advanced</th>
<th>vario DIGITAL FHD Advanced TB</th>
<th>vario DIGITAL FHD Advanced B</th>
<th>vario DIGITAL FHD Advanced T</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item No.</td>
<td>16591</td>
<td>165916</td>
<td>1659161</td>
<td>1659161</td>
</tr>
</tbody>
</table>

#### Features

- **Magnification**: 1.3 to 45 x
- **System resolution**: Full-HD
- **Operating keys**: 9
- **Graphical menu**: •
- **Menu with voice output**: • (defeatable)
- **Dynamic Line Scrolling (DLS)**: –
- **Reading line/Reading blinds**: •
- **Automatic exposure**: •
- **Illumination defeatable**: •
- **Live Cam function**: –
- **Photo store function**: • (defeatable)
- **Tilting camera**: •
- **Autofocus**: • (defeatable)
- **Writing under the display**: •
- **Foldable and transportable**: •

#### Interfaces

- **SD card slot (incl. card)**: •
- **USB port**: •
- **HDMI input**: –
- **Power port**: •

#### Miscellaneous

- **Mirror function**: –
- **Software update**: •
- **Reset key**: •
- **Automatic shut-off**: •
- **Integrated battery**: –
- **Operating hours battery, approx.**: 4.5 hours
- **Dimensions, approx.**: 37.8 x 46 x 13.2 cm
- **Weight, approx.**: 6,300 g

#### Delivery contents

- **X/Y table**: –
- **Remote control**: –
- **HDMI cable**: –
- **USB cable**: •
- **SD card**: • (8 GB)
- **Universal charger**: • (100-240 V, 50-60 Hz)
- **Travel mains adapter**: • (EU, GB, US, AU)
- **Operating instructions**: • (printed)
- **Microfibre cloth**: •

#### Optional accessories

- **Bag (for transport)**: •

---

*yes, available or possible* — *no, not available or not possible*
## On Electronic low vision aids

### Display

<table>
<thead>
<tr>
<th></th>
<th>visolux DIGITAL XL FHD Item No. 16551</th>
<th>visolux DIGITAL HD Item No. 16521</th>
<th>mobilux DIGITAL Touch HD Item No. 16511</th>
<th>smartlux DIGITAL Item No. 165011</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Size</strong></td>
<td>11.6” / 29.5 cm</td>
<td>7” / 17.9 cm</td>
<td>4.3” / 11.0 cm</td>
<td>5” / 12.7 cm</td>
</tr>
<tr>
<td><strong>Format</strong></td>
<td>16:9 widescreen</td>
<td>16:9 widescreen</td>
<td>16:9 widescreen</td>
<td>16:9 widescreen</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Active matrix TFT LCD with LED backlight</td>
<td>Active matrix TFT LCD with LED backlight</td>
<td>Active matrix TFT LCD with LED backlight</td>
<td>Active matrix TFT LCD with LED backlight</td>
</tr>
<tr>
<td><strong>Anti-reflection</strong></td>
<td>• (matt)</td>
<td>• (matt)</td>
<td>• (matt)</td>
<td>• (matt)</td>
</tr>
<tr>
<td><strong>Brightness dimmable</strong></td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
</tbody>
</table>

### Features

| **Magnification**              | 2.0 x to 22 x                        | 2.0 x to 22 x                      | 1.9 x to 12 x                        | 1.7 x to 12 x                    |
| **System resolution**          | Full-HD                              | HD                                 | HD                                    | WVGA                             |
| **Operating keys**             | 10                                   | 8                                  | 1                                     | 3                                |
| **Graphical menu**             | •                                    | •                                  | •                                    |                                  |
| **Touchscreen operation**      | • (defeatable)                       | –                                  | •                                    |                                  |
| **Menu with voice output**     | • (defeatable)                       | –                                  | •                                    |                                  |
| **Display options**            | ![Display Options](image)            | ![Display Options](image)          | ![Display Options](image)            | ![Display Options](image)        |
| **Dynamic Line Scrolling (DLS)** | • (horizontal + vertical)            | • (horizontal)                     | –                                     | –                                |
| **Reading line/Reading blinds** | •/•                                 | •/•                                | •/•                                   | –                                |
| **Automatic exposure**         | •                                    | •                                  | •                                    |                                  |
| **Illumination defeatable**    | •                                    | •                                  | •                                    | •                                |
| **Live dual-screen function**  | •                                    | •                                  | • (to PC)                            | –                                |
| **Photo store function**       | • (defeatable)                       | • (defeatable)                     | –                                     | •                                |
| **Camera centrally mounted**   | –                                    | •                                  | –                                     | •                                |
| **Orientation aid on housing** | –                                    | –                                  | –                                     | –                                |
| **Housing tiltable**           | –                                    | –                                  | –                                     | –                                |
| **Writing under the display**  | •                                    | •                                  | •                                    |                                  |
| **Stand can be folded out**    | • (two positions)                    | • (two positions)                  | –                                     | • (three positions)              |
| **Positioning markers on stand** | –                                    | –                                  | –                                     | –                                |

### Interfaces

| **SD card slot**               | •                                    | •                                  | •                                    |                                  |
| **USB port (PC and Mac)**      | • (Type C)                           | • (Type C)                         | • (Type Mini B)                      | –                                |
| **HDMI output**                | •                                    | –                                  | –                                     | –                                |
| **HDMI input**                 | •                                    | –                                  | –                                     | –                                |
| **Power port**                 | • (via USB)                          | • (DC 9 V)                         | • (via USB)                           | • (DC 5 V)                       |

### Miscellaneous

| **Software update**            | •                                    | •                                  | •                                    | (via Service)                    |
| **Reset key**                  | •                                    | •                                  | •                                    | •                                |
| **Automatic shut-off**         | •                                    | •                                  | •                                    | •                                |
| **Integrated battery**         | • (Lithium-polymer)                  | • (Lithium-ion)                    | • (Lithium-ion)                      | • (Lithium-ion)                  |
| **Operating hours, approx.**   | 2.5 hours                            | 3.5 hours                          | 3 hours                              | 2.5 hours                        |
| **Dimensions, approx.**        | 29 x 20 x 4 cm                       | 20 x 14 x 3 cm                     | 21 x 7.5 x 4 cm                      | 17 x 9 x 4 cm                    |
| **Weight, approx.**            | 1,050 g                              | 460 g                              | 230 g                                 | 220 g                            |

### Delivery contents

| **Hard foam case**             | •                                    | •                                  | •                                    | •                                |
| **Lanyard**                    | •                                    | •                                  | •                                    | •                                |
| **Microfibre cloth**           | •                                    | •                                  | •                                    | •                                |
| **HDMI cable**                 | •                                    | •                                  | •                                    | •                                |
| **USB cable**                  | •                                    | •                                  | •                                    | •                                |
| **SD card**                    | • (8 GB)                             | • (8 GB)                           | (4 GB)                                | –                                |
| **PC software**                | –                                    | –                                  | • (on SD card)                        | –                                |
| **Universal charger**          | • (110-240 V, 50-60 Hz)              | • (110-240 V, 50-60 Hz)             | • (110-240 V, 50-60 Hz)              | • (110-240 V, 50-60 Hz)           |
| **Travel mains adapter**       | • (EU, GB, US, AU)                   | • (EU, GB, US, AU)                 | • (EU, GB, US, AU)                   | • (EU, GB, US, AU)               |
| **Operating instructions**      | • (printed)                          | • (printed)                        | • (printed)                          | • (printed)                      |

### Optional accessories

| **Base (stand)**               | •                                    | •                                  | •                                    |                                  |
| **Bumper (protective envelope)** | •                                    | •                                  | –                                     | –                                |
| **Bag (for carrying)**         | •                                    | •                                  | •                                    | •                                |

* yes, available or possible  
  – no, not available or not possible
<table>
<thead>
<tr>
<th>Item No.</th>
<th>Magnification</th>
<th>Visual field values</th>
<th>Visual angle</th>
<th>Working distance in mm</th>
<th>Lens Ø in mm</th>
<th>Weight in g</th>
<th>Exit pupil in mm Ø/position at ∞ or 200 mm</th>
<th>Dioptre Compensation Dioptre</th>
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<tr>
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<td></td>
<td></td>
</tr>
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<tr>
<td>16225 + 16216</td>
<td>5.00 x Near</td>
<td>*24 mm</td>
<td>11.0°</td>
<td>125</td>
<td>25.5</td>
<td>17.0</td>
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<td></td>
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<tr>
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<td>17.0</td>
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<tr>
<td>16225 + 162112</td>
<td>7.50 x Near</td>
<td>*16 mm</td>
<td>11.0°</td>
<td>83</td>
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<td>17.0</td>
<td></td>
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<tr>
<td>16225 + 162116</td>
<td>10.0 x Near</td>
<td>*12 mm</td>
<td>11.0°</td>
<td>63</td>
<td>25.5</td>
<td>17.0</td>
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<td>3.00 x Near</td>
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<td>*30 mm</td>
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<td>700 to ∞</td>
<td>23.0</td>
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<td>approx. ± 5</td>
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<td>16344</td>
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<td>7.5°</td>
<td>780 to ∞</td>
<td>23.0</td>
<td>70.0</td>
<td>approx. ± 5</td>
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<tr>
<td>16362</td>
<td>2.50 x Near</td>
<td>*75 m / 350 m</td>
<td>15.0°</td>
<td>approx. 350</td>
<td>23.0</td>
<td>70.0</td>
<td>approx. ± 5</td>
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<tr>
<td>16363</td>
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<td>*54 m / 200 m</td>
<td>12.5°</td>
<td>approx. 200</td>
<td>23.0</td>
<td>70.0</td>
<td>approx. ± 5</td>
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<td>16364</td>
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<td>*35 m / 250 m</td>
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<td>approx. 250</td>
<td>23.0</td>
<td>70.0</td>
<td>approx. ± 5</td>
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<tr>
<td>16731</td>
<td>2.80 x Distance</td>
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<td>150 to ∞</td>
<td>9.0</td>
<td>28.0</td>
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<td>29.0</td>
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<td>2.1/9.5</td>
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<td>2.0/6</td>
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<td>4293616</td>
<td>6.00 x Distance</td>
<td>140 x 180 m / 1,000 m</td>
<td>8° x 6.2°</td>
<td>1,500 to ∞</td>
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<td>18.0</td>
<td>78.0</td>
<td>3.1</td>
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* In the case of Galilean systems, the effective visual field is dependent on the distance of the eye/eyepiece. The values stated for visual field are therefore average values.

Technical specification is subject to change without prior notice. (The visual angle is measured at HSA 10 mm).

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On system varioPLUS and powerlux

Technical information for fitting Eschenbach Optik system varioPLUS illuminated magnifiers and powerlux.

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Magnific.</th>
<th>Dioptre [D]=1/f</th>
<th>Lens size Ø/mm</th>
<th>Lens type s</th>
<th>s1/mm</th>
<th>e/mm</th>
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<td>Ø 35</td>
<td>as</td>
<td>400</td>
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<td>15507-</td>
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<td>38.0</td>
<td>Ø 35</td>
<td>as</td>
<td>400</td>
<td>19.5</td>
</tr>
<tr>
<td>15517-</td>
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<td>Ø 35</td>
<td>as</td>
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<td>29.3</td>
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<td>Ø 50</td>
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<td>400</td>
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<td>Ø 58</td>
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Optimal conditions of use

The optimum image quality of an aspheric lens is achieved by maintaining the recommended distances between the eye and the lens and the lens and the object viewed.

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<th>Magnification (ISO/CEN)</th>
<th>Dioptre</th>
<th>mm</th>
<th>mm</th>
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</tr>
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<td>100/50</td>
<td>3.0 x</td>
<td>7.4</td>
<td>59</td>
<td>250</td>
</tr>
<tr>
<td>100/75</td>
<td>2.8 x</td>
<td>7.0</td>
<td>61</td>
<td>250</td>
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</tbody>
</table>

General Technical Information:

All Vision Technology products from Eschenbach Optik comply with the applicable standards and directives of the European Union (EU) and the Federal Republic of Germany and therefore bear, where stipulated by law, the CE symbol which is valid throughout Europe. This ensures that your customers receive a quality product which complies with the very latest quality standards.

Care instructions:

If the lens of your reading magnifier/illuminated magnifier requires cleaning, please pay attention to the following instructions: a soft cotton or linen cloth should be used for cleaning. The surface of the lens must only be gently wiped over. If the magnifier is very dirty then the cloth should be dampened with lukewarm water. Never use alcohol-based solvents or organic solvents for cleaning the lenses as these can damage the lenses.

Eschenbach Optik products have been awarded ISO 9001 and ISO 50001 certification and this is your guarantee of a high standard of quality.
Eye disease

Frequently asked questions concerning visual impairment

What is visual impairment?
A visual impairment exists when, despite applying the best corrective eyewear or contact lenses, vision is still impaired. Magnifying vision aids help the user to see better, despite visual impairment.

What are magnifying low vision aids?
Magnifying vision aids are defined as being all optical and electronic aids which compensate for the loss of vision by providing magnification of the images on the retina. Magnifying vision aids improve the quality of life of those suffering from visual impairment so that they are able to carry out their daily tasks more easily and without assistance.

What are the different levels of visual impairment?
According to this method, a person is considered to have a visual impairment when the visual acuity cc of the better eye is no more than 0.3 (30 % residual visual acuity). Severe visual impairment exists when the visual acuity is 0.05 (5 % residual visual acuity) or less. According to this categorisation, a person is considered to blind when their better eye has a visual acuity cc of no more than 0.02 (2 % residual visual acuity). An eye is considered to be blind if the visual field is reduced to an angle of below 5° (e.g. retinitis pigmentosa).

How does this become noticeable in everyday life?
For example, a visual acuity of 0.6 to 0.7 is sufficient for reading a telephone directory. A visual acuity of 0.4 to 0.5 is sufficient for reading a newspaper. A visual acuity of 0.1 is generally sufficient for a person to be able to orientate themselves outdoors in good light conditions.

What are the most common causes of visual impairment?
Visual impairment can affect anyone, although it mainly occurs amongst the elderly. The causes are also diverse and can differ from country to country. The most common causes in our part of the world are age-related macular degeneration (AMD), diabetic retinopathy which is becoming more prevalent, and other diseases such as detachment of the retina, cataracts and glaucoma.

What should be considered when advising those with visual impairment?
Even though many people with impaired vision are mainly interested in receiving help with reading, distance vision must also be tested. In the case of visual impairment, by determining the refraction, we can determine the required optical correction which will provide the best possible visual acuity (visual acuity cc). This is always the starting point for fitting magnifying vision aids. Please also note the information relating to this in brochure 162510.

How is the required magnification determined?
The magnification required for a vision aid is determined by the ratio between the desired visual acuity to the existing visual acuity using the best corrective eyewear.
Lens Geometry

Aspheric lenses: allow a large lens diameter even with a high level of magnification and therefore a wide visual field. All aspheric reading magnifiers from Eschenbach Optik have a focusing distance aE (distance of the eye to the virtual image) of 400 mm. This provides a sharp image with reading glasses which have an addition of ±2.5 dpt.

A diffractive aspheric lens has an additional diffractive structure for correcting chromatic aberrations.

Aplanatic lenses provide an image which is free from spherical aberration and has edge-to-edge sharpness.

Achromatic: the combination of two lenses of different diffractive strength for correcting chromatic aberration.

Meniscus/aspheric Lenses: a combination of meniscus lens and aspheric lens. Allows larger distances than comparable magnifications using other types of lenses and an image which has edge-to-edge sharpness.

Biconvex lens: simple lens with two convex (bulging outwards) spherical lens surfaces.

Planoconvex lens: a special type of convergent lens with only one convex surface, the second surface is flat.

Compound Parabolic Concentrator: a special lens which collects and concentrates light/illumination optics.

Lens Material

PXM®: This extremely lightweight and shatter-proof plastic used by Eschenbach Optik has special characteristics which provide maximum optical image quality. In combination with the cera-tec® hard coating, PXM® lenses have a level of scratch resistance which is similar to that of glass.

Silicate offers outstanding optical performance, as well as a high resistance to chemical and mechanical influences. Lenses manufactured from silicate are heavier than plastic lenses.

CR 39 is a very lightweight plastic that has been specially developed for spectacle lenses and offers excellent optical performance.

Tri-Acetat rigid films not only offer a high level of elasticity and resistance to breakage, but also excellent optical performance and are therefore often used as the base films for polarised filter lenses, e.g. for polarised clip-ons.

Polycarbonat (PC) is extremely strong and hard, with a high level of resilience and due to its outstanding optical clarity and lightweight nature is used in particular for protective lenses in the optics field.

cera-tec® hard coating: the extremely resilient coating was specially developed in collaboration with the Fraunhofer Institute for Silicate Research (ICS) for our PXM® lenses.

DUPLEX coating: The antistatic coating of the lenses prevents fogging of the lenses.

Super DUPLEX coating: Duplex with additional hard coating.

Illumination

Filament bulb

Fluorescent tube

LEDs (Light Emitting Diode) are permanently built into the product and cannot be replaced.

LEDs are extremely economical to use in comparison to conventional filament light bulbs and have a lifespan that is many times longer.

Colour temperature

General colour rendering index

Filter caps: enclosed for changing the colour temperature and light intensity.

Light flux

Lifespan of lamp

Energy efficiency label: The illuminants enclosed correspond to the stated energy efficiency class or the lighting fixture is suitable for illuminants of the stated energy efficiency class. The energy efficiency category ranges from A++ to E.

Batteries

Round cell

Batteries Included with the product.

Batteries Not included with the product.

Intelligent automatic shut-off to guard against unnecessary power consumption.

Mains plug

Magnification

Weight

Case Included with the product.

Case Not included with the product.

Screen size

Visual field

Frame size: Lens size/bridge width.

Step-up converter: an electronic control system, which boosts the supply voltage required by the LED and keeps it constant even when the battery voltage decreases. The illumination strength of the LED therefore.

Pupillary distance

Display available

Optoform tray available

Display and Optoform tray available.