Innovative hand-held and desktop video magnification solutions
Eschenbach carries a wide assortment of video magnification solutions that offer unique features that are not available in optical magnifiers. For example, video magnifiers (also known as electronic magnifiers) can provide higher magnifications while maintaining a large field of view and can allow the color of the text and its background to be altered to improve contrast. Plus video magnifiers can provide features that improve reading speed and comprehension such as an underline, blinds and Dynamic Line Scrolling.

Our video magnifiers are unique due to their high quality designs, advanced user interface functionality and the variety of screen sizes they come in. Eschenbach’s 5” Smartlux® Digital is one of the most popular in the world because of its innovative design and high resolution screen. Some of our larger hand-held video magnifiers, such as the Visolux Digital HD, can be plugged into an external monitor to enlarge images even further and offer additional features like Dynamic Line Scrolling which automatically scrolls text across the screen with a touch of a button. We also carry video magnifiers that feature touch screen technology as well as distance viewing capabilities. And our desktop video magnifiers come with advanced options like a rechargeable battery and X/Y table.

Eschenbach’s hand-held video products come with a variety of optional accessories to provide the best user experience. There are rubber bumpers available to fit around select portable video magnifiers in order to protect them from damage if dropped. We also provide bases for some of the video products which attach to the bottom of the magnifier and lift it up from the viewing area which allows for writing underneath.

Check out all of the video magnifier products we offer and learn about the unique features your visually impaired patients are sure to benefit from!

Warranty

All of our video magnifiers come with a standard 2-year limited warranty against manufacturer’s and material defects. Eschenbach’s hand-held video devices are also eligible for a free 6-month warranty extension by registering the magnifier either online or by mail. To extend the warranty even further, additional yearly coverage is available for purchase on all of our video magnifiers.

Warranties on product accessories may vary.
Vario Digital FHD

The Vario Digital FHD (1659-1) is a foldable desktop video magnifier with outstanding image quality and compact design. It features a 15.6" full HD monitor with digital/optical zoom from 1.3x - 45x magnification and an FHD camera that provides a true color image with a large field of view.

The large tactile buttons and turn dials with voice output when in the menu settings make the Vario Digital FHD easy to operate. It provides bright LED illumination with lights located both on the arm and on the back of the monitor, which are adjustable to provide shadow-free viewing. And the widescreen format of 16:9, tilting camera and large viewing area make it easier to read large documents.

Images can be captured and stored on a removable 8GB SD card and viewed either on the LCD screen or on a computer monitor when connected. The blue buttons on the side of the monitor can be used for Dynamic Line Scrolling on the captured image and the built-in type C USB port allows for data transfer.

- **Magnification**: 1.3x - 45x
- **Viewing Modes**: 14 color contrast modes
- **Illumination**: SMD LEDs with 3 brightness settings (100%, 75%, 50%)
- **Display**: 15.6” display
- **Weight**: 13.9 lbs.
- **Power Source**: AC
- **Auto Shut-Off**: Turns off after about 8 hours of non-use (15 minute setting available)
- **Case**: Optional Carrying Case available
- **Other**: Dynamic Line Scrolling available on saved images; Speech output on all menu options (5 language options); USB cable included for downloading images to a Mac/PC.

Accessories

**Video Magnifier Table (1659-T)**

An optional 37.4” wide table is available to display any of the Vario Digital FHD desktop video magnifiers in a waiting room to promote awareness of the video product. With an adjustable working height from 29” to 40.8”, the table can be set to appropriate ergonomic height for a wide range of patients. Wheels in the front provide for easy maneuvering and can be locked if desired.

- **Weight**: 38.9 lbs. (Weight capacity 33 lbs.)

**Vario Digital FHD Case (1659-109)**

An optional padded carrying case is available to transport any of the Vario Digital FHD models. The zippered case features a carrying handle as well as a padded shoulder strap and provides room inside for the desktop video magnifier with built-in pouches for the charging cables, remote control and other accessories.

- **Dimensions**: 21.5 x 21.5 x 7.5 in (W x H x D)
Vario Digital FHD Advanced

The Vario Digital FHD Advanced model (1659-16) features the same outstanding image quality and compact design as the original, but includes some advanced features. It comes with an external remote which can adjust the magnification, contrast modes, and operate the Dynamic Line Scrolling feature among other functions.

The Dynamic Line Scrolling on the Vario Digital FHD Advanced has been enhanced and can be used in live viewing mode, not just on saved images. The Mirror Mode allows the user to see an enlarged image of themselves on the screen after rotating the camera up which can be useful for personal care tasks. And, there is an HDMI-in port which allows for an external camera to be attached for distance viewing. A blue-light blocking setting has also been added to reduce digital eye strain.

Vario Digital FHD Advanced Options
Must be ordered at time of purchase. Can not be added later.

Vario Digital FHD Advanced with X/Y Table and Battery (1659-161)
The Vario Digital FHD Advanced can be ordered with an integrated rechargeable battery and X/Y Table in place of the standard base plate.
**Operating time:** 4.5 hrs. (Charge time: 3.5 hrs.)
**Weight:** 19.8 lbs. with battery and X/Y Table

Vario Digital FHD Advanced with Battery (1659-162)
The Vario Digital FHD Advanced can be ordered with an integrated rechargeable battery so that it does not have to be plugged into the wall to operate. This allows for the video magnifier to be more versatile.
**Operating time:** 4.5 hrs. (Charge time: 3.5 hrs.)
**Weight:** 14.6 lbs. with battery

Vario Digital FHD Advanced with X/Y Table (1659-163)
The Vario Digital FHD Advanced can be ordered with an X/Y Table in place of the standard base plate. The X/Y table allows the user to move the reading material horizontally and vertically under the camera and has adjustable brakes.
**Dimensions:** 17 x 19.7 x 6.3 in (W x H x D) with X/Y Table
**Weight:** 19.2 lbs. with X/Y table

Distance Viewing Accessories

Sony HD Handycam (1659-109)
The Sony HDR-CX405 HD Handycam Camcorder can be used with the Vario Digital FHD Advanced video magnifier in order to view distant objects. It is a compact, ready to shoot video camera with a 30x optical zoom and full HD video. An optional 3' Swiveling HDMI Mini Cable (PEHDCRS103) and 42" tripod (P620-420BB) are available as well. (See pg. 6.)
**Visolux Digital XL FHD**

The Visolux Digital XL FHD (1655-1) features a large 12” TFT LCD with touch screen interface, an FHD camera, Dynamic Line Scrolling and built-in stand. The HDMI-out and USB ports allow the user the option to transmit images directly to their computer and live stream to a television screen. Its HDMI-in port allows users the ability to connect a camcorder so the image from the camera appears on the screen. (Camcorder and distance viewing accessories available.)

**Magnification:** 2x - 22x (with continuous zoom or in steps)  
**Viewing Modes:** 14 color contrast modes  
**Illumination:** SMD LEDs with 3 brightness settings (100%, 75%, 50%)  
**Display:** 12” touch screen LCD; anti-glare coating  
**Weight:** 2.2 lbs.  
**Power Source:** Rechargeable Lithium Ion battery (Operating Time: 2.5 hours, Recharging Time: 4.5 hours)  
**Auto Shut-Off:** Turns off after about 3 minutes of non-use  
**Case:** Protective, zippered case (included), Carrying Case optional  
**Other:** Dynamic Line Scrolling allows for scrolling horizontally and vertically without moving the device; HDMI cable included for live streaming to a TV; USB cable included for downloading images to a Mac/PC.

**Accessories**

**Visolux Digital XL FHD Carrying Case (1655-109)**

This black nylon carrying case with shoulder strap and carrying handles is designed to hold the Visolux Digital XL portable video magnifier and its accessories. It can also fit the Visolux HD 7” video magnifier with a stand. The case includes a divider and removable inside compartments to keep all contents safe when traveling.

**Visolux Digital XL FHD Base (1655-105)**

The Visolux Digital XL FHD Base is an optional accessory that increases the distance away from the image area which allows for writing underneath the device and lowers the starting magnification to 0.8x. The base easily attaches to the bottom of the video magnifier and has two fold out legs to stabilize it. Once attached it can be removed at any time.

**Visolux Digital XL FHD Bumper (1655-108)**

The Visolux Digital XL FHD Bumper is a rubber cover that wraps around the Visolux Digital XL FHD video magnifier to minimize damage if dropped. It also provides a comfortable grip around the unit so that it does not slide out of the user’s hands. All buttons are accessible when the bumper is on the magnifier.
Distance Viewing Accessories

The Visolux Digital XL FHD features an HDMI-in option which allows for the ability to connect a camcorder to the magnifier to view distance images on the screen. A compatible camcorder and distance viewing accessories for the Visolux Digital XL FHD are available through Eschenbach for your convenience.

**Canon Vixia Camcorder (CAHFR800B)**

The Canon Vixia HF R800 HD Camcorder can be used with the Visolux Digital XL FHD portable video magnifier in order to view distant objects. It is a compact, ready to shoot video camera with a 57x advanced zoom and SuperRange O.I.S. (Optical Image Stabilization). The camera can be connected to the Visolux Digital XL by using the 3.3’ HDMI to Mini HDMI cable included with the camera. An optional 3’ Swiveling HDMI Mini Cable (PEHDCRS103) is available as an accessory as well as a 42” tripod (P620-420BB) which helps to stabilize the camera for extending viewing.

**PlatinumPlus Tripod 42” (P620-420BB)**

The PlatinumPlus 42” Tripod can be used to stabilize the Visolux Digital XL FHD portable video magnifier in order to view distant objects for extended periods of time. It features 3 legs that extend from 11” to 42” and can be used on tabletops or on the floor and the 1/4” screw attaches the video magnifier to the top.

**Swiveling HDMI Mini Cable (PEHDCRS103)**

The Swiveling HDMI Mini Cable can be used to connect the Canon Vixia Camcorder to the Visolux Digital XL FHD so it can view distance objects. This 3 ft. cable features a swiveling HDMI Type A gold plated connector on one end and a right angle HDMI Type C connector on the other, which can be rotated 180-degrees.

**Display**

The Visolux Digital XL FHD Display (1655-1907) is a table-top piece that allows for one Visolux Digital XL FHD portable video magnifier to be professionally showcased in an office or storefront so that it can be demonstrated to patients. It includes an eye catching header graphic and large bottom shelf to present the device. (Display is free with a minimum order.)
Visolux Digital HD

The Visolux Digital HD (1652-1) features a 7” LCD screen with anti-glare coating, HD camera, HDMI/USB connectivity, and provides modern technology with intuitive operation. With adjustable “line & blinds”, 14 color contrast modes and up to 22x magnification, it provides the ultimate in reading comfort. Connect to a PC/Mac computer for live streaming and downloading images, or view on your television!

**Magnification:** 2x - 22x (with continuous zoom or in steps)
**Viewing Modes:** 14 color contrast modes
**Illumination:** 5 SMD LEDs with 3 brightness settings (100%, 75%, 50%)
**Display:** 7” LCD; anti-glare coating
**Weight:** 8 oz.
**Power Source:** Rechargeable Lithium Ion battery
( Operating Time: 3-4 hours, Recharging Time: 2-3.5 hours)
**Auto Shut-Off:** Turns off after about 3 minutes of non-use
**Case:** Protective, zippered case (included)
**Other:** Dynamic Line Scrolling allows for scrolling side to side on a page without moving the device. Removable 4GB SD card stores thousands of images.

Accessories

**Visolux Digital HD Base (1652-105)**

The Visolux Digital HD Base is an optional accessory for the Visolux Digital HD hand-held video magnifier. It increases the distance away from the image area so that writing underneath the device is easier. The base easily attaches to the bottom of the video magnifier and can be removed at any time.

**Visolux Digital HD Bumper (1652-108)**

The Visolux Digital HD Bumper is a rubber cover that wraps around the Visolux Digital HD video magnifier to minimize damage if dropped. It also provides a comfortable grip around the unit so that it does not slide out of the user’s hands.

Display

This Display allows the Visolux Digital portable video magnifier to be showcased and demonstrated to patients. The text on the base is enlarged when viewed through the video magnifier to provide a real life viewing example. Select the top header piece (87303), along with the display bottom (873003) to complete the set. (Display is free with a minimum order.)
Mobilux® Digital Touch HD

The Mobilux® Digital Touch HD (1651-1) features a 4.3” HD TFT LCD touch screen, adjustable ‘line & blinds’ for precise orientation, and 5 color viewing modes so that it can be personalized to fit your patients’ needs. The magnifier can be connected to a PC or Mac for viewing live images on a monitor and the SD card stores photos which are downloadable to a PC or Mac computer.

The Mobilux® Digital Touch HD also comes with a snap-on base (1651-105) that provides a lower starting magnification. With the base attached, magnification changes to 2.5x, 2.9x, 3.5x, 4.7x, 5.8x, 7.2x, and 8.8x.

**Magnification:** 4x - 15x (with continuous zoom or in steps)  
**Viewing Modes:** 5 viewing modes (color, black/white, white/black, black/yellow, yellow/black)  
**Illumination:** 2 SMD LEDs; can be switched off when not needed  
**Display:** 4.3” HD TFT LCD (touch) screen; anti-glare coating  
**Weight:** 8 oz.  
**Power Source:** Rechargeable Lithium Ion battery (Operating Time: 3+ hours, Recharging Time: 2 hours)  
**Auto Shut-Off:** Turns off after 5 minutes of non-use  
**Case:** Protective, zippered case (included)  
**Other:** Can be used flat on an object or at an angle. Removable 4GB SD card stores thousands of images.

Display

The Mobilux® Digital Touch Display allows the Mobilux Digital Touch hand-held video magnifier to be showcased in a waiting room or office area and allows the device to be demonstrated to patients. The text on the base can be used to demonstrate how the video magnifier works as it is enlarged when viewed through the magnifier. The top header piece (87297) connects to the display bottom (873003) to complete the set. (Display is free with a minimum order.)
Smartlux® Digital

The Smartlux® Digital (1650-11) is a portable video magnifier with a multitude of features and easy-to-use interface. The 5" LCD TFT high-resolution screen provides 5x -12x magnification with 5 viewing modes to choose from. It includes 3 tactile control buttons that are color-coded for easy operation.

The Smartlux® Digital features a generous depth of focus and includes a built-in stand that, when placed in its fully extended position, is perfect for reading and when placed in its half-extended position, it is ideal for writing underneath and doing hands-free tasks. The two small SMD-LEDs on the underside of the device can be switched off when viewing other backlit displays, such as cell phones, to avoid screen glare.

**Magnification:** 5x, 7x, 9x, 12x  
**Viewing Modes:** 5 viewing modes including full color, black/white, white/black, black/yellow, yellow/black  
**Illumination:** 2 SMD LEDs; can be dimmed or turned off  
**Display:** 5" TFT LCD; hard-coated with anti-glare film  
**Weight:** 7.8 oz.  
**Power Source:** Rechargeable Lithium Ion battery  
(Operating Time: 2.5 hours, Recharging Time: 2 hours)  
**Auto Shut-Off:** After 5 minutes non-use  
**Case:** Protective, zippered case (included)  
**Other:** Stores up to 20 photos; adjustable stand allows for writing underneath.

Accessories

**Smartlux® Digital Bumper (1650-1108)**

For extra protection, the Smartlux® Digital Bumper (1650-1108) is a rubber cover that wraps around the Smartlux® Digital video magnifier to minimize damage if dropped. It also provides a comfortable grip around the unit so that it does not slide out of the user's hands.

Display

The Smartlux® Digital Display allows for one Smartlux® Digital hand-held video magnifier to be showcased and demonstrated to patients. There is sample text on the base which can be viewed through the magnifier which provides a real life example of how the device can be used to enlarge text. The top header piece (87274) connects to the display bottom piece (873003) to complete the set. (Display is free with a minimum order.)
# Eschenbach Hand-held Video Magnifier Comparison Chart

<table>
<thead>
<tr>
<th>Display</th>
<th>Visolux Digital XL FHD</th>
<th>Visolux Digital HD</th>
<th>Mobilux® Digital Touch HD</th>
<th>Smartlux® Digital</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</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>Format</td>
<td>16:9 widescreen</td>
<td>16:9 widescreen</td>
<td>16:9 widescreen</td>
<td>16:9 widescreen</td>
</tr>
<tr>
<td>Type</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>Anti-reflection</td>
<td>• (matte)</td>
<td>• (matte)</td>
<td>• (matte)</td>
<td>• (matte)</td>
</tr>
<tr>
<td>Brightness dimmable</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 | • (off option) | – | – | – |
| Operation with speech output | • (off option) | – | – | – |
| Display options | • | • | • | • |
| Dynamic Line Scrolling (DLS) | • (horizontal + vertical) | • (horizontal) | – | – |
| Reading line / Reading blinds | • / • | • / • | • / • | – |
| Automatic exposure | • | • | • | • |
| LED Brightness Settings | • (off option) | • (off option) | • (off option) | • (off option) |
| Live dual-screen function | • | • | • (to PC) | – |
| Photo store function | • (off option) | • (off option) | – | • |
| 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 (11 x 8 x 1.5 in.) | 20 x 14 x 3 cm (8 x 5.5 x 1 in.) | 21 x 7.5 x 4 cm (8 x 3 x 1.5 in.) | 17 x 9 x 4 cm (6.7 x 3.5 x 1.5 in.) |
| Weight, approx. | 1,050 g* (37 oz.) | 460 g (16 oz.) | 230 g (8 oz.) | 220 g (7.7 oz.) |

| Delivery contents | | | | |
| Hard foam case | • | • | • | • |
| Lanyard | • | • | • | • |
| Microfiber 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) |
| Power Plug Adapters | • (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
The Eschenbach Video Magnifier Program

The Eschenbach Video Magnifier Program is designed to expand your low vision product offerings to maximize the opportunity for successful patient outcomes in a manner that makes good economical sense!

Eschenbach has a variety of video magnifier options that allow you to offer ones with the features that best meet your patients’ needs. With two desktops, four hand-held options and multiple accessories to choose from, Eschenbach can help you create a custom assortment of video magnifier products to fit your practice.

Our Video Magnifier Program consists of two key components:

A Variety of Video Magnifier Products: Eschenbach offers a wide assortment of video magnification solutions that offer features that are not available in optical magnifiers.

In-office Training: An Eschenbach Territory Manager will come to your practice to conduct any needed training for you and / or your staff on video magnifiers and their applications.

Eschenbach Video Magnifier Options Include:

- **Desktop**
  - Vario Digital FHD (15.6”)
  - Vario Digital FHD Advanced (15.6”)

- **Hand-held**
  - Visolux Digital XL FHD (12”)
  - Visolux Digital HD (7”)
  - Mobilux® Digital Touch HD (3.5”)
  - Smartlux® Digital (5”)

When you take advantage of Eschenbach’s Video Magnifier Program you'll get more than just high quality product solutions. Eschenbach will provide the training needed to properly and effectively demonstrate the features of the products you select for your patients so that your demonstrations go smoothly. You’ll also receive consultive support on how to best promote the availability of these devices and learn best practices on how to educate your patients on the benefits of having these products.

Your highly trained Territory Manager will be available to come to your office when needed for additional training, new product updates or to answer any questions you may have. And, our knowledgable Customer Service Representatives are also available for troubleshooting issues and general technical support for your video magnifier products.

If you’re considering offering video magnifier solutions in your office, increase your odds for success by choosing Eschenbach!