





The A/V Presentation

SourceBook

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For Section 1, Document Cameras and Remote Video Cameras, use Quick Dial #: 821

RE-455X VISUALIZER

Capture Images with Outstanding Clarity and Versatility

The RE-455X is an XGA resolution document camera that meets the needs of schools, courtrooms, or any other environment requiring image capture of paper-based documents or 3D objects. It features a 12x power zoom lens with superior optics for crisp, detailed image capture. One-Shot Autofocus mode focuses the lens with the touch of one button - a very useful feature when frequently changing items beneath the Visualizer's camera. Additional features include adjustable twin fluorescent lamps for uniform lighting, convenient front-panel controls, auto and manual exposure and white balance, and White Paper mode to optimize text document quality. A VGA input and output allow connection to a computer monitor or a projector, composite and S-Video outputs allow connection to a projector, VCR, DVD player or TV, while the RS-232C terminal allows you to connect to control systems. The RE-455X's foldable design makes it easy to carry.



FEATURES

Superior Optics

- ◆ The RE-455X's advanced 12x zoom lens is comprised of 10 elements in 8 groups with a fast f/1.8 maximum aperture to produce vivid images at all magnifications. It allows you to show intricate detail of almost any object. The camera/lens features precision autofocus with manual override.
- ◆ The 12x zoom lens lets you display objects or images as small as 1.2 x 0.9" or as large as 12.1 x 9". For convenience, the RE-455X has a one-touch Zoom Preset button that sets the zoom to 8½ x 11" documents.
- ◆ The RE-455X delivers uncompromising optical performance. The 12x zoom combines with 1/3" XGA (1024 x 768) resolution CCD to give you a sharp, clear image, while a built-in scan converter optimally outputs analog RGB signals and video signals (composite and S-Video).
- ◆ Enjoy the advantages of high XGA resolution by linking the RE-455X to an XGA-compatible monitor or projector. You can show an 8½ x 11" page with 9-point type clearly legible. And, thanks to a Canon-developed image processing chip, you also get smooth 15 frames-per-second image capture and great color reproduction.

Image Capture

- ◆ Capturing an image is easy with the intelligent array of automatic and manual picture features so the unit may be used in different ways depending on needs.
 - Auto and manual focus modes. In addition, One-shot AF mode is an enhanced AF mode designed for use with many 3D objects of varying sizes.
 - Automatic and manual white balance to provide the most natural looking images.
 - Automatic and manual exposure (iris) control plus a "White Paper" setting that optimizes exposure for paper documents and dramatically boosts the contrast. "White Paper" mode automatically adjusts so projection of white parts of a document appear much whiter.
 - Detail control adjusts image quality. Turn the control toward the HARD side to emphasize the outline of an object. Turn it towards the SOFT side for a softer outline.
- ◆ With the press of a button, a high-quality still image can be temporarily stored in memory, and then displayed on a projector or monitor. You even get 15 frames/second capture for smooth XGA motion images.

Conveniences

- ◆ With the versatile RE-455X, you can capture images of original documents, 3-D objects and photographs — then project them or display them on a monitor.
- ◆ Because all of the RE-455X's controls are located on the front, adjustments can be made quickly and easily.
- ◆ You can connect your PC to your RE-455X, then switch between the RGB input from your computer and the image from your RE-455X for a single, seamless presentation.
- ◆ Twin fluorescent lamps provide uniform light. And 520 TV line resolution and advanced color processing system with XGA output further ensures that every presentation is displayed flawlessly.
- ◆ Folds down to a compact, easy-to-carry size for portability or easy storage. Measures 19.1 x 20.6 x 7.2" (WHD) and weighs 20.7 lbs.
- ◆ Equipped with RS-232 interface, it can be controlled by a PC or room control systems from AMX or Crestron.

RE-455x
Video Visualizer (CARE455X)Call

YC-400

Document Copy Stand & 4-Megapixel Digital Camera

Equipped with a high-resolution 4-megapixel CCD and an adjustment feature that automatically corrects the positioning between the camera and subject so that it appears squarely on the screen, the YC-400 is much more than just a document camera. In addition to printed documents, it can also be used to digitally capture and project images of entire whiteboard contents, 3-dimensional objects, and any other material that may be used during a meeting or presentation. Images recorded with the camera can be stored in computer memory for future reference. For example, you can capture and store images of whiteboard contents and keep an electronic record of both projected images and handwritten information. For even more versatility, a Scanner Mode lets you record and store images of documents all from the same unit, and the camera can even be removed from the stand and used as a stand-alone digital camera.



FEATURES

Megapixel CCD/3x Zoom

- ◆ The camera's 4-Megapixel CCD provides the means to capture and project images of everything from documents to 3-dimensional objects. The camera may even be removed from the stand and used as a stand-alone high-resolution digital camera.
- ◆ The YC-400 features 3x optical autofocus zoom (Board Camera Mode, Business Camera Mode) and 1.8X in Document Camera, Scanner Mode. Also offers digital 7.5x (scrollable) mode.
- ◆ Measures a diminutive 11x 6x 2" configuration for extreme portability, a perfect travel companion for your projection system.

Five Capture/Scan Modes

- Document Camera Mode: Record the image of a paper document or object placed on the camera stand with the camera, and project the resulting image.
- Scanner Mode: Place a document on the camera stand and record its image
- PC Image Mode: Conduct presentation using images stored on the computer's hard disk.
- Camera Image Mode: Conduct a presentation using images stored in camera memory
- Presentation Mode: Conduct a presentation using images created using PowerPoint or other applications.

Keystone Correction

Whether you "scan in" a document on the document stand, take a photo of a poster or whiteboard at an angle, the YC-400's software recognizes any distortion, and automatically corrects it. The same applies to adjustment of the white balance. This means that you always have rectangular images with accurate colors to incorporate into your presentation.

Auto Adjust

- ◆ Auto Adjust feature aligns documents, image and sets up the camera automatically – saving time, and producing professional looking presentations every time.
- An original image algorithm lets you crop an image and store only the portion you want, and even adjusts image alignment, color, and other parameters automatically.
- When capturing or projecting images of documents, you don't have to waste time aligning each page — the YC-400 performs it automatically.
- Even when recording the image of whiteboard contents or of 3-dimensional objects, you can crop out backgrounds and make images easier to view and understand.

4-Megapixel Detachable Camera

- ◆ The YC-400 includes a detachable 4-megapixel digital camera that can be removed from the stand and used as a stand-alone digital camera. You can take pictures anywhere and present them as soon as you get back: connect the camera to the computer again, and the PC automatically stores your new pictures on the hard disk. Your photos are immediately available as a slide show or they can be imbedded into reports or presentations.
- ◆ Images recorded with the camera can be stored in computer memory for future reference. You could, for example, capture and store images of whiteboard contents and keep an electronic record of both projected images and handwritten information. A Scanner Mode even lets you record and store images of documents all from the same unit.



YC-400 Document Copy Stand and Digital Camera (CAYC400)999.95

FLEXCAM

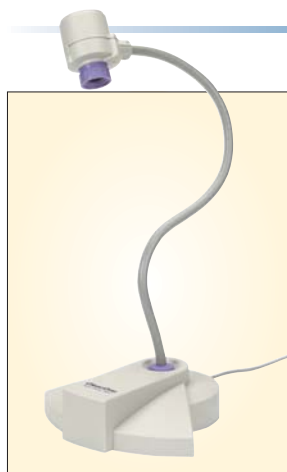
FlexCam is a full-motion, color camera that produces sharp video images with excellent color. It connects to TVs, plasma screens, and projectors, allowing three-dimensional objects, documents and photographs to be displayed during discussions or as part of a presentation. In addition, FlexCam can be connected to a video codec as an auxiliary camera in video conferences and distance learning sites. Using a USB adapter or video capture card, you can also connect the FlexCam to a computer to capture and edit video or still images for use in a variety of educational, professional, or personal projects.

The FlexCam's flexible gooseneck design with swivel camera head is ideal for all users—making it easy to position the camera for accurate image capture and display. Line-level audio is provided via the integrated microphone and preamplifier. This makes the FlexCam ideal for recording presentations or training courses onto a computer or DVD recorder.



- ◆ 1/4" CCD color sensor and 5.57mm D-mount lens ensure all images, whether of documents, objects, or conference participants, are clearly transmitted.
- ◆ Compatible with most monitors, TVs, VCRs, video capture cards, LCD and DLP projectors
- ◆ Provides line-level audio through an integrated microphone and preamplifier
- ◆ Connects to a video codec allowing it to function as an auxiliary camera for document sharing or for participant interaction
- ◆ Flexible gooseneck design is ideal for all users

FlexCam Flexible Gooseneck Mounted Document Camera (CLFC)349.95



FLEXCAM USB

The FlexCam USB is a high-quality video camera that features an attached USB cable for direct connection to your PC or Mac. The FlexCam USB transmits both audio and video. With the included video and photo imaging software from ArcSoft, you can capture and edit video or still images for use in a variety of educational, professional, or personal projects. The FlexCam USB's 18" flexible gooseneck with a swivel camera head is ideal for users of all ages, making it easy to position the camera for accurate image capture and display. With its built-in microphone, the FlexCam USB is well equipped to provide audio for recorded demonstrations or presentations. This audio capability also makes the FlexCam USB a great choice for videoconferencing over the internet.

- ◆ 1/4" CCD color sensor and 8mm D-mount lens ensure all images, whether of documents, objects, or conference participants, are clearly transmitted.
- ◆ The FlexCam USB incorporates all the features and flexibility you need for video and still image capture:
 - Microscope-adaptable with included 28mm and 34mm microscope couplers
 - Direct USB connection to your PC or Mac, eliminating the need for adapters or video capture cards
 - Includes ArcSoft's VideoImpression and PhotoStudio software. Image control adjustments include color (RGB) and brightness, gamma correction, shutter speed (exposure) hue and gain control

Applications:

- ◆ A valuable addition to classrooms, training rooms, distance learning facilities, corporate offices, and more.
- ◆ Provides students and teachers with the ability to create videos and capture images, which can be shared with other schools using e-mail or a website.
- ◆ Helps corporate users make the most of web-based video conferencing and provides video streaming capability for training and sales presentations.
- ◆ Ideal for recording presentations, web design, image capture, and video capture projects.

FlexCam USB Presentation or Education Document Camera (CLFCU)299.95

FLEXCAM iCAM

The FlexCam iCam offers simple microscope compatibility, quick and easy document display, and video-only desktop presentations — all at an affordable price. A multipurpose, entry-level presentation camera suitable for a variety of presentation and meeting applications, this innovative camera is perfect for presenting objects, images, text, sending video e-mail, and creating video portfolios. The iCam is also ideal for viewing microscope images. The integrated focus knob is sized and shaped perfectly for use with the included microscope couplers. An optional custom microscope eyepiece further enhances the versatility of the camera. The patented 20" flexible gooseneck design allows you to position the camera precisely for close-in document or object viewing or as a face camera for video conferencing applications. Compatible with digital capture devices, TVs, VCRs, and LCD projectors.

- ◆ Low-noise 1/3" CMOS image sensor provides for clear, crisp video with excellent color reproduction and image stability.
- ◆ 20" flexible gooseneck and swivel camera housing for superior positioning flexibility.
- ◆ Stylish translucent colored plastics fit into today's progressive classroom environments.
- ◆ S-Video output (includes 12' S-Video cable).
- ◆ Easy connection to most industry-standard classroom microscopes.
- ◆ Compatible with most monitors, TVs, VCRs, video capture cards, and LCD/DLP projectors.

FlexCam iCam 1/3" CMOS Chip Video Presentation Camera (CLFCIC)199.95

**FLEXCAM iCAM DIGITAL**

The multi-purpose iCam Digital steps up from the standard iCam with dual output for easy connection to a PC, Mac, TV or LCD projector for sharing documents, lab specimens and video. The iCam Digital features S-Video and USB digital capabilities for enhanced flexibility in a wide variety of applications. Perfect for presenting objects, images, text, sending video e-mail, and creating video portfolios, it is also bundled with software that lets you easily capture camera video and edit or add special effects to it.

Same features as the iCam PLUS—

- ◆ USB digital output with ArcSoft VideoImpression and PhotoStudio for both Windows and Mac

FlexCam iCam Digital Video Presentation Camera (CLFIDC)359.95

	FlexCam	FlexCam USB	FlexCam iCam	FlexCam iCam Digital
Image Sensor	1/4" CCD	1/4" CCD	1/4" CMOS	1/4" CMOS
Total Pixels	260,000	350,000	350,000	
Horizontal Resolution	330TVL	330 TVL	330 TVL	330 TVL
Signal-to-Noise Ratio	46dB	48 dB	48 dB	>48dB
Max. Horizontal Field of View	42°	37°	37°	
Minimum Illumination	3 lux	3 lux	3 lux	3 lux
Gooseneck	18"	18"	20"	20"
Dimensions (WHD)	7.5 x 20 x 7"	8 x 4 x 11"	8 x 4 x 11"	
Weight	4.2 lbs.	4 lbs.	4 lbs.	4 lbs.

STUDENTCAM

The versatile StudentCam is a full-motion, color camera that produces sharp video images with excellent color. It connects to TVs, plasma screens, and projectors, allowing projects and experiments to be displayed for class discussion or as part of a student presentation. Using an optional USB adapter or video capture card, the it can be connected to a computer to capture and edit video or still images. The StudentCam includes 26, 28 and 34mm microscope couplers, for connection to most classroom microscopes. Students can conduct experiments and create multi-media reports for classroom presentations or VCR recordings. The flexible 20" gooseneck with a swivel camera head makes it easy to position the camera for accurate image capture and display. And low light sensitivity of 3 lux allows precise display of images or small objects under most lighting conditions. A video codec makes it possible to transmit images or live video feeds to remote classrooms. Line-level audio is provided via the integrated microphone and preamplifier.

- ◆ Flickerless mode eliminates flicker and color hunting when the StudentCam is used with fluorescent lighting and microscopes
- ◆ Two-button brightness control on the base of the camera for easy adjustments
- ◆ Compatible with most monitors, TVs, VCRs, video capture cards, LCD and DLP projectors
- ◆ Includes 26, 28 and 34mm microscope couplers to connect to most microscopes
- ◆ Connects to a video codec to share presentations with distant learning facilities



StudentCam Document Camera (CLSC20)
Includes 6' and 20' S-Video + RCA audio cables, an S-Video to composite video adapter, a microscope eyepiece adapter, 26mm, 28mm, and 34mm microscope couplers, a power supply and a two-year parts and labor warranty**499.95**



TEACHCAM

In addition to outstanding video images and clear audio, the TeachCam steps-up from the StudentCam with a built-in light source at the base of the camera—the IllumaBase. The IllumaBase gives the TeachCam the functionality of a 35mm slide projector and a microscope, making it an invaluable resource for science classes, art history classes and more. When the IllumaBase is used with the included IllumaBoxes and IllumaSlides, the TeachCam can display 35mm slides, specimen boxes and microscope slides—without using projectors or microscopes.

The TeachCam's 27" flexible gooseneck with swivel camera head is ideal for users of all ages, making it easy to position the camera for accurate image capture and display. And the camera's six-button keypad provides simple control of image settings. It includes a Nordic box carrying case with a complete accessory package.

Same features as the StudentCam PLUS—

- ◆ Built-in IllumaBase LED lighting base for viewing and presenting slides, specimen boxes, and microscope slides without using projectors or microscopes.
- ◆ Camera controls including:
Adjustable gain control, Automatic or manual white balance, Positive or negative color inversion, Color or black and white selection, and Flickerless mode

TeachCam Video Presentation Camera (CLTC20)

Includes 28mm and 34mm microscope couplers, custom eyepiece adapter, five IllumaSlides, two IllumaBoxes, camera positioning bracket, 25' and 6' S-video/audio cables, S-video to composite adapter, BNC adapter, Nordic box carrying case and 12v DC power supply**723.95**

IDCam 2

The IDCam 2 is a full-motion, color camera that is used in photo identification applications. It connects easily to a Windows-based or Mac computer through a USB adapter or a video capture card. It can then provide high-quality image captures to ID card creation software. The ultimate photo ID tool, the IDCam 2's flexible gooseneck design with swivel camera head makes it easy to precisely position the camera for proper head and shoulder framing from a distance of 4' to 8'. And the IDCam is perfectly sized to sit on a desktop, workstation or cart. Using the two-button brightness control on the base of the camera, you can adjust the IDCam 2 to any lighting environment without the need for an external flash. This functionality makes it possible to integrate the IDCam into any ID badging system.



IDCam 2 (CLIDC2)
499.95

FEATURES

- ◆ Compatible with most Mac and Windows photo ID software packages
- ◆ 1/4" CCD image sensor with 16mm C-mount lens for excellent, high-quality image captures every time.
- ◆ Flexible gooseneck design to easily position the camera for accurate image capture
- ◆ Composite or S-Video output for connection to USB adapter, video capture cards, monitors, or projectors
- ◆ Built-in microphone and preamplifier also allows the IDCam to be used to display or record presentations and demonstrations.
- ◆ Line-level audio provided through the integrated microphone and preamplifier

FlexCam Accessories

**FlexLite (CLFLCCD)**

Designed for use with any model FlexCam, the FlexLite has dual flexneck top lights that attach to a camera base to light all subjects**189.95**

Large Hardshell FlexCam Case

Perfect for protecting a FlexCam and facilitating transport between classrooms. It can be secured with a standard combination or key lock**Call**

Small Hardshell FlexCam Case

Perfect for protecting a FlexCam and facilitating transport between classrooms**Call**

USB Adapter (CLVUSBA)

A convenient, affordable alternative to an installed video-capture card, the USB adapter lets teachers connect a FlexCam to a PC or Mac to easily capture, display and edit video and audio. It comes with an attached USB cable and features four connectors: an audio connector, a composite-video connector, an S-Video connector and a video pass-through connector. It also includes easy-to-use video and photo-imaging software for capturing audio and still images and using them to create video and other multimedia projects**99.95**

Microscope Eyepiece Adapter Kit (CLMEAM)

The microscope adapter kit comes with plastic microscope couplers (either 28 mm or 34 mm) and a metal eyepiece adapter for displaying microscopic images with a FlexCam Components fit most industry-standard microscopes**59.50**

Wireless AV System (CLWTRAV)

Transmits live video through the air instead of through hard wires, allowing ultimate flexibility in positioning FlexCam**229.95**

Curriculum Guide (CLFECIC)

This guide helps educators maximize teaching with innovative lessons created specifically for use with FlexCam cameras. It features a comprehensive camera overview and usage instructions, as well as software information and lab suggestions for an incredible variety of science topics and activities. The Teacher Support section includes tips on lab preparation and procedures, as well as data collection and analysis tips. Overall, the guide is an indispensable tool for enhancing education in the science classroom**59.95**

DocCam PRO AV

The cost-effective DocCam Pro AV is a flexible document camera that sharply illuminates documents, objects and images on a variety of display devices. 16x zoom allows full-room views as well as extreme close-up viewing of documents or other objects with razor-sharp focus. Flexible LED top lighting provides natural, maintenance-free overhead illumination for documents or other items. Built-in composite and S-Video pass-through lets you connect a second video source and allows simple one-touch switching between sources. Ideal for use as an auxiliary presentation camera, the DocCam Pro AV has a 180° tilt camera head and stereo microphones mounted to the base to provide high-quality voice audio from the presenter or instructor. The microphones are adjustable to provide optimal pickup coverage. The camera is available in four codec-specific models to ensure compatibility with existing videoconferencing systems' IR remotes. Available models include: V-There, Tandberg, Polycom Viewstation and iPower 600 and 900 Series.



FEATURES

- ◆ Ideal for use in lecture halls, auditoriums, classrooms, conference and executive boardrooms
- ◆ 16x power zoom lens for extreme close-up viewing with razor sharp focus
- ◆ 180° rotating camera head for use as an auxiliary/presentation room camera
- ◆ Telescoping neck enables viewing of large objects or objects at a distance
- ◆ Auto focus/iris/shutter/white balance
- ◆ Flexible LED top lighting for natural white light and maintenance-free use
- ◆ Composite and S-Video pass through allows integration with other video appliances such as cameras, scan converters and VCRs
- ◆ Integrated stereo microphones with line level outputs

DocCam Pro AV (CLDCPAV)

Includes a stereo audio/video cable, S-video cable, infrared wireless remote control, power supply, 2-year parts and labor warranty. Compatible only with the supplied IR remote **1799.95**

DocCam Pro AV IR Remote Models

DocCam Pro AV (CLDCPAVPVSIR)

Compatible only with the Polycom ViewStation IR remote **1835.95**

DocCam Pro AV (CLDCPAVPIRR)

Compatible only with the Polycom iPower 600 and 900 series IR remote **1835.95**

DocCam Pro AV (910-171-008)

Compatible only with the ClearOne V-There IR remote **CALL**

DocCam Pro AV (CLDCPAVTIRR)

Compatible only with the Tandberg IR remote **1835.95**



Accessories

Back Light Display Panel

The 8½ x 11" Back Light Display Panel is perfect for those presenters who need to display transparencies or slides with the DocCam Pro AV **Call**

	DocCam Pro AV	Ceiling DocCam II
Effective Pixels	768 H x 494 V	688,000
Horizontal Resolution	450 TV lines	480 TV lines
Signal-to-Noise Ratio	46 dB	49 dB
Max. Horizontal Field of View	47°	37°
Minimum Illumination	3 lux	2.5 Lux
Gooseneck	18" 2-section telescoping	
Dimensions (WHD)	8 x 4 x 11"	Enclosure: 4.5 x 6.5"; Ceiling cutout: 3.5" diameter; Trim ring: 5.5"
Weight	11 lbs.	4 lbs.

CEILING DocCam II

The Ceiling DocCam II is the perfect solution for adding document and image sharing capabilities to your presentations, videoconferences and other meetings. This camera is installed in the ceiling above a conference table and includes a laser positioning guide, making it easy to properly place documents for display. Superior, 480 line image resolution ensures that documents are clearly presented for easy viewing. With its wide field of view, the Ceiling DocCam II is ideal for sharing large documents like blueprints or CAD drawings. And its powerful 25x optical zoom allows users to view documents or objects placed on the conference room table—even as small as a postage stamp—with razor sharp focus.



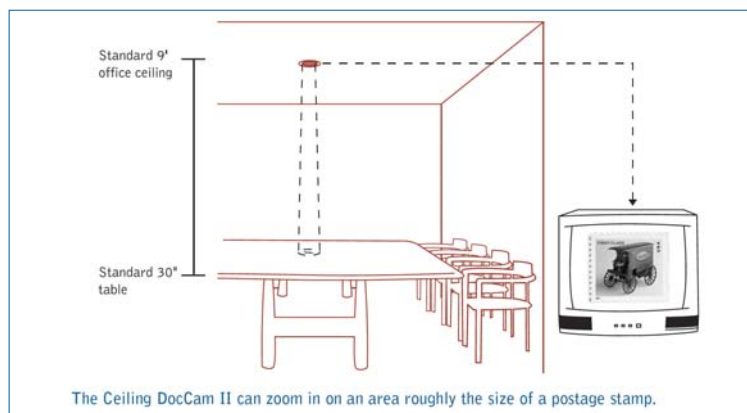
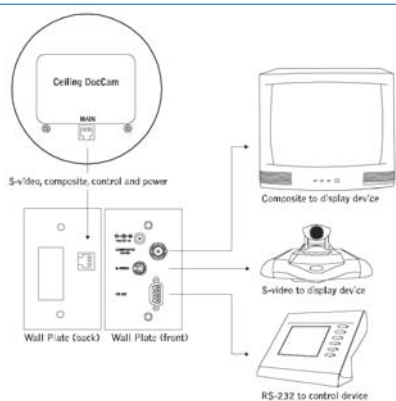
Power, video and control are run through a single Cat. 5 cable, which significantly simplifies installation. The Ceiling DocCam II outputs both composite and S-video signals concurrently for dual monitor display in large rooms. It also features an RS-232 port with VISCA control protocol for easy connection to a control system such as AMX or Crestron and for use with video codecs with far-end camera control.

Using the IR remote control, you can program the Ceiling DocCam with six preset zoom settings to allow users to quickly adjust the camera for different types of documents. The Ceiling DocCam II can also be configured to allow the zoom function to be controlled through the video codec remote control.

FEATURES

- ◆ Six camera presets allow users to quickly adjust for different document types, and a positioning laser to guide users when placing documents or images.
- ◆ Single Cat. 5 cable carries video, RS-232 control and to greatly simplify installation
- ◆ IR remote with increased functionality, including brightness control, presets and laser operation
- ◆ VISCA/RS-232 control of automatic iris, white balance, gain control, shutter and image stabilization to counter vibration in the ceiling
- ◆ Powerful zoom with 25x optical and 12x digital (300x zoom) for sharp focus and zoom detail
- ◆ Pre-mounted in a plenum-rated, low-profile enclosure
- ◆ User accessible DIP switches from the front of the allow the DocCam II's zoom functions to be controlled by different video codec remotes
- ◆ Includes a plenum-rated enclosure, trim ring, single tile support rail and hardware, a 50' unshielded plenum-rated Cat. 5 cable, a 25' S-Video cable, a wall plate and power supply.

INSTALLATION DIAGRAM



Ceiling DocCam II (910-171-066): Includes a Trim Ring, Camera Enclosure, Single Wallplate, 25' S-video Cable, 50' Cat. 5 Cable with RJ-45 Jacks, BNC to RCA Adapter, Remote, Tile Support Rail, 2 AAA batteries, 6-32x 1/2 Oval Head (White), and a Power SupplyCALL

EV-2000AF

Visual Presenter

The EV-2000AF is a full featured and easy to operate visual presenter with an overhead digital camera, automatic features, and a built-in lighting system. The unit will interface with almost any video projector or display monitor for very high quality detailed images. It can even be controlled via a computer. For displaying documents, flat art, scientific specimens or even 3D items the EV-2000AF makes professional presentations easy to make—anywhere, by anyone.



FEATURES

12x Optical Zoom

- ◆ High-performance 12x optical zoom with 2x electronic magnification can continuously enlarge images up to 24x. A one-push auto-focus function allows easy focus adjustment
- ◆ When more distant objects or audiences need to be focused on, just flip the built-in close-up lens out of the way.
- ◆ It can focus on objects up to 5.9" high from the stage. This allows capture of thick encyclopedias or tall 3D objects.

Camera Head

- ◆ Equipped with an advanced 1/3" EXview HAD CCD sensor, the EV-2000AF captures and presents 2- or 3-dimensional objects with exceptional clarity.
- ◆ The camera head can be freely rotated. It can display items on its base platform or swivel in almost any direction, even upward or forward for shooting materials displayed on wall or the audience in the room
- ◆ Unobstructed stage makes it easier than ever to position wide objects. By folding down the right side lighting arm, the EV-2000AF can capture objects as large as a sheet of 10.2 x 13.8"-size paper
- ◆ Enlarged images can be scrolled up and down, and left and right so there is no need to move the subject or visual.

RS-232 Port

- ◆ With a RS-232 port, you can control various functions from a computer. It also has an S-Video output, making direct projection through an LCD projector possible.

Flexible Lighting Arms

- ◆ Two lighting arms permit glare-free illumination of text, flat art or whatever is placed on the base. For more functionality, the arms of the lights swivel forward when you want to use the camera in an interview situation by lighting the person or to light-up an object in front of the presenter.

LCD Confidence Monitor

- ◆ Optional 5" LCD monitor can be mounted (via the optional MS-402 mount/swivel shoe) to confirm the position of documents, zooming and focusing. Ideal when switching among several display sources.

Compact and Easy-to-Use

- ◆ Designed as a compact unit. When taking it down for storage or transportation, the arms and the camera head fold to make it even more compact. Weighing only 6 lbs. it is easily carried for on-the-go presentations.
- ◆ The EV-2000AF is designed for fast and easy set-up and operation. Only 3 buttons are present on the top panel for camera zoom and lens auto-focus.
- ◆ Supplied wireless remote control gives complete control of the presenter, enabling you to give productive presentations while you stand away from the unit or walk around.

EV-2000AF Visual Presenter (ELEV2000AF): Includes a wireless remote control **1389.95**

EV-200 Mobile Visual Presenter

The smallest, lightest, most compact and most affordable presenter available, the EV-200 features a 410,000 pixel 1/3" CCD allowing you to cover an area of 5.3 x 7.0" to as big as 10.7 x 14.3" with 470 TV lines resolution for the highest quality images.

- ◆ The camera requires no focus or iris adjustments. The 3mm f/5.6 lens will focus sharply on whatever is in the range of the lens view. And the lens is on an adjustable arm to compensate for larger or smaller objects.
- ◆ Automatic white balance keeps colors consistent.
- ◆ Easy plug and play with composite and S-Video connections to monitor or projector
- ◆ Easy to carry, it can be taken onto an airplane along with a laptop computer in a single case. Folded, the unit measures just 2½ x 6 x 11" and weighs only 3 lbs.

EV-200 Mobile Visual Presenter (ELEV200)459.95



EV-4400AF

Visual Presenter

The Elmo EV-4400AF is an easy to operate visual presenter equipped with powerful 18x zoom lens, above and below lighting, audio capabilities and a host of special effect functions. For hands-free operation the camera has automatic focus and exposure. A single button will set white balance for color consistency. The unit will interface with almost any video projector or display monitor with both composite and S-Video outputs. It even has inputs to pass through other imaging devices. With it's RS-232 connector it can also be controlled by a computer.



FEATURES

18x Optical Zoom

- ◆ The EV-4400AF has a high quality digital camera with an 18x optical power zoom lens. Displaying text, maps or anything small or intricate can be clearly seen in detail. It delivers over 470 TV lines of resolution and better than 48dB S/N
- ◆ Automatic focus and exposure for hands-free operation. A single button sets white balance for color consistency.
- ◆ When more distant objects or audiences need to be focused on, just flip the built-in close-up lens out of the way.
- ◆ The camera head can be rotated up to 90° and swiveled 245° and its movable arm can point the camera in almost any direction making it ideal for videoconferencing.
- ◆ Unobstructed stage makes it easy to position wide objects. By folding down the right side lighting arm, the EV-4400AF offers a 16.5 x 12.2" wide shooting area.

Flexible Lighting Options

- ◆ Twin upper lighting unit for even and bright illumination. The two lamps for overhead lighting will illuminate 3D objects as well as flat-art and text. The arms of the lights swivel forward for an interview, to light-up an object in front or on a wall.
- ◆ In addition, it has a built-in baselight system for viewing of transparency sheets, slides, photo negatives or positives and even scientific specimens.

Versatile Operation

- ◆ Operation is performed via the front panel, the supplied wireless remote control or mouse, or RS-232 terminal. The RS-232 port allows serial remote control from any PC or AMX or Crestron remote control system.
- ◆ Front panel has five front buttons (upper lamp, lower lamp, tele zoom, wide zoom and autofocus). A hidden front panel holds fine-detail adjustments such as manual focus, white balance, positive/negative and inputs (AV1, AV2 and main).

Connections

- ◆ Two sets of AV inputs (composite, S-Video, stereo audio), as well as two composite (one RCA, one BNC) and one S-Video output, stereo audio output and a genlock option.
- ◆ It can input/output stereo audio for your presentation. Additionally, a mic input allows narration to be output to the house sound system or monitor speaker.

Optional LCD Confidence Monitor

- ◆ An optional 5" LCD monitor mounts (via the optional MS-402 mounting and swiveling shoe) to confirm document positioning, zooming and focusing. Very handy when switching among several display sources.

Additional Features

- ◆ Offers color or B&W selection as well as negative/positive conversion
- ◆ 2x digital image magnification and scrolling. Images can be scrolled up and down or left and right so there is no need to move the object or visual.
- ◆ Has a passive video selector controller for two additional external video sources.
- ◆ An on-screen display gives immediate feature status information.
- ◆ Flat stage body with foldable camera arm and carrying handle

EV-4400AF Visual Presenter (ELEV4400AF): Includes a wireless remote control**1874.95**

	EV-200	EV-2000AF	EV-4400AF
Power Source	DC 12v (includes adapter)	AC 120v 60Hz	AC 120v 60/50Hz
Image Pick-up Element	1/3" IT CCD	1/3" IT CCD	1/3" IT CCD
Number of Pixels	380,000 Pixels	412,000 Pixels	410,000 Pixels
Lens	3mm f/5.8 fixed focus	5.8-70mm (12x zoom) f/1.9 to f/ 2.6	4.7-84.6mm (18x zoom) f/1.2 to f/2.4
Open Dimensions (WHD)	14.2 x 11.2 x 3.6-11.2"	27.8 x 15.9 x 22.6"	17.3 x 23.7 x 30.2"
Weight	3.3 lbs.	13.2 lbs.	22 lbs.

P10 • P30

Lightweight XGA Visual Presenters

Lightweight and compact, the versatile P10 and P30 are the ideal presenters for a diverse range of presentation applications – from business and research to industry and education. Use them for product demos, meetings, business trip reports, etc. They offer both exceptional image quality and flexibility for a variety of documents and media. Progressive scanning with a free-angle camera arm and detailed 12x (P10) or 15x (P30) optical zoom ensures crystal-clear imagery and captures moving objects at impressive 20 fps frame rate. Other features include built-in SD Memory Card support including quick file search with thumbnails, convenient up-front control panel with Jog Dial Zoom, and several video output options so you can connect them to almost any monitor.

Otherwise the same, the P30 steps-up in functionality with a supplied Slide Shooting Adapter to easily present slides. It also allows you to display SD-card images as a slideshow, and is bundled (optional with the P10) with Image Mate software for presentations and movie creation that will open up a new world of possibilities.



FEATURES

- ◆ Advanced camera system integrates an 850,000-pixel progressive scan CCD pickup that's capable of capturing not only the finest details of images — but moving objects as well! Combined with true XGA (1,024 x 768) resolution, they reproduce three dimensional objects and subtle shades of color with unsurpassed precision.
- ◆ Convey presentations more effectively by focusing in on the intricate details of your presentation:
 - The P10 has a 12x optical zoom that can be combined with a 4x electronic magnification function to enlarge visuals up to 48x.
 - The P30 has a 15x optical zoom that can be combined with a 4x electronic magnification function to enlarge visuals up to 48x.
- ◆ Inspire your audience with vivid moving images on the big screen. With a frame rate of 20 fps, they smoothly capture and reproduce moving images that can either be presented live or saved to your PC for future use.
- ◆ The P10/P30's camera head can be rotated freely to capture objects at precise angles, making it easy to present objects with the exact look you want. And with the free-angle lamp, you also have all the flexibility you need to set ideal lighting conditions.
- ◆ For the ultimate in easy and intuitive operation, they incorporate a Jog Dial zoom control for quick zoom adjustments as well as an OPT (optional) button that gives you the flexibility to assign a frequently used function to the front panel.
- ◆ With a large A3-size shooting area, they can capture a wider field of visual data compared to the conventional B4 size
- ◆ With a built-in SD Memory Card slot, they provide a new dimension of presentation possibilities. Presentation data, such as PowerPoint files and digital camera images saved to an SD Memory Card can be displayed by the P10/P30 without a PC.
- ◆ Image data can be conveniently displayed as thumbnails (9 or 16) enabling quick file searches and smooth operation. Plus on the P30 (only), with the Image Mate for Presentation software, you can output SD memory card data for use in slideshow presentations.
- ◆ Cables are always neat and tidy thanks to the rear panel cord cover.

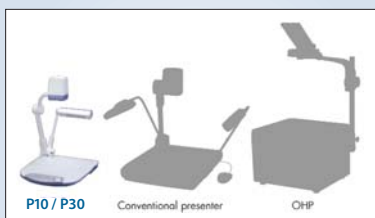
P10 • P30

- ◆ Instead of having to readjust them every-time you use them, the P10 lets you store up to six and the P30 up to eight frequently used settings such as iris selection, white balance and lamp on/off. With quick and easy access to settings, your preferred adjustments are always ready to go.



- ◆ They are equipped with versatile output connections bringing you greater presentation freedom and flexibility. The DVI output lets you transfer high-quality video data from a PC without any loss of image quality, while an analog RGB output makes it easy to connect them to an LCD projector or a PC monitor for true XGA resolution display.

Lightweight and Compact



Weighing just 10.4 lbs (half the weight of conventional models), and measuring approximately 19", the P10 and P30 are compact and lightweight enough to comfortably hand-carry to any location.

- ◆ Offering added convenience for frequently used visual data, the P10 can store P30 can store up to eight images in memory, which are securely retained even when you turn the power off.
- ◆ Instead of having to readjust them each time, the P10 lets you store up to 6, and the P30 up to 8 frequently used settings such as iris selection, white balance and lamp on/off. With quick and easy access to settings, your preferred adjustments are always ready to go.

P10 Digital Presenter (ELP10)1499.95

P30 Digital Presenter (ELP30)1949.95

Bundled Software – P30 Only

With the convenience of bundled software, creating outstanding PC presentations has never been easier.



Image Mate for Presentation

- ◆ Annotation tools let you draw lines (freehand or straight) in a variety of colors to highlight and enhance screen images, right from your PC.
- ◆ Split Screen gives you a platform for comparing live video to stored images — side by side for greater visual impact.

Image Mate for Movie Creation

- ◆ Moving images can be easily saved to a PC for future use as analog RGB, 850,000- pixel video files. Since files are saved in common AVI or WAV format, they can be played back effectively using Windows Media Player.

Twain Driver

With TWAIN compatibility, the P30 brings you the versatility to import saved image files to commercially available photo retouching software.

Optional Accessories for the P30

Optional 5" Color LCD Monitor (ELLM5011N)

Attaches to the back of P30 stage to view and preview presentation images. Brightness and color adjustable. 600 x 234 resolution ...**329.95**

Monitor Shoe (ELMS30S)39.95

Rolling Shipping Case (ELEP30).....419.95

Padded Soft Carrying Case (ELIF43Y)99.95

	P-10	P-30
Image Pickup Device	1/3" Progressive Scan CCD	1/3" Progressive Scan CCD
Total Pixels	850,000 pixels	850,000 pixels
Frame Rate	20 fps	20 fps
Shooting Area	Max: 16 x 12"; Min: 1 7/8 x 1 1/2"	Max: 16 x 12"; Min: 1 7/8 x 29/32"
Resolution: RGB Output	600 (H) x 600 (V) TV lines	600 (H) x 600 (V) TV lines
Resolution: Video Output	450 (H) TV lines	450 (H) TV lines
Powered Zoom	12x optical / 4x digital	15x optical / 4x digital
Lens	4.7 to 70.5mm, f2.8	4.7 to 70.5mm, f/2.8
Set-up Dimensions	14.8 x 19 x 23"	14.8 x 19 x 23"
Folded Dimensions	14.8 x 19 x 7.1"	14.8 x 19 x 7.1"
Weight	10.4 lbs.	10.4 lbs.

HV-3000XG

High Resolution XGA Visual Presenter

Designed to provide powerful support for your presentations, the HV-3000XG incorporates Elmo's advanced optical technology to deliver true XGA (1024 x 768) resolution output. A progressive scan CCD captures images in amazing detail for faithful reproduction of small text and three-dimensional objects. Analog RGB output allows you to transfer images directly to LCD data projectors and PC monitors for impressive multimedia presentations. Ideal for all sorts of applications, from business and industrial to research and education.



FEATURES

Superb Image Quality

- ◆ 1/3" 850,000-pixel Progressive-Scan CCD significantly improves performance and image quality compared to conventional CCDs. Offering up to 600 lines of resolution through the analog outputs, the HV-3000XG displays images are displayed with outstanding sharpness and clarity.
- ◆ Equipped with analog RGB output, so you can connect the HV-3000XG directly to an LCD projector or PC monitor and display images in true XGA resolution. When interfacing with computer generated graphics the HV-3000XG displays native XGA (1024 x 768 pixels) resolution without compressing the image.

LCD Confidence Monitor

- ◆ An optional 5" LCD monitor mounts via the optional MS-402 mounting and swiveling shoe to confirm document positioning, zooming and focusing. Especially handy when switching among several display sources. Power to the LCD monitor is provided by the HV-3000XG.



10x Optical Zoom

- ◆ A built-in, high-performance 10x optical zoom (5.8 to 58mm) lens with auto/manual focus provides both a wide angle and a long zoom feature to show intricate details or very small text.
- ◆ The rotating camera head captures objects you require, positioned anywhere on the stage. For lighting, the unit integrates two overhead fluorescent light units to illuminate text, flat art and 3D objects.

Exposure Control

- ◆ Exposure controls include automatic iris (with level adjustment) as well as manual, and white balance with three settings (Auto/One-Push/Manual).
- ◆ Main menu items can be set also from the front operation panel of the main body or the remote control via the OSD (On-Screen Display) menu.
- ◆ Other controls include aperture and gamma selection (on/off), saving of present status and adjusted values, changing the color and the shape of the on-screen pointer

Conveniences

- ◆ On-screen display makes custom functions easy to control.
- ◆ Color/B&W selection
- ◆ Selectable NTSC or PAL video output
- ◆ Includes an infrared wireless remote and a computer mouse controller, making the on-screen display very intuitive and easy to customize functions.
- ◆ Use the built-in arrow video pointer to easily show points of interest on your visuals to the audience. (Pointer can be controlled by the mouse or wireless controller.)
- ◆ The mouse lets you smoothly control presentation-enhancing functions. The wireless remote can control all presenter's functions, allowing you to watch both the visual and the audience's reaction.
- ◆ Pause mode digitally freezes the image on the screen allowing you to switch visuals without interruption, as well as take a closer look at the presented material.
- ◆ RS-232 port allows serial remote control of the presenter from a PC or remote control system like Crestron or AMX.
- ◆ USB port to transfer images to and from a PC with no compromise in quality.
- ◆ The self-contained HV-3000XG weighs only 14 lbs, and folds compactly, so it can be used wherever your presentations take you.

Bundled Image Mate Software

The supplied Image Mate software for USB allows the HV-3000XG to be controlled via computer. Windows 98 compatible, it lets you capture still images in JPEG or BMP format, where they can be edited and processed on your PC with commercially available photo retouching software.

HV-3000XG (ELHV3000XG) Call

HV-5100XG

High Resolution
XGA Visual Presenter

A high resolution visual presenter, the HV-5100XG steps up from the HV-3000XG with built-in 18x optical zoom lens, 2x digital zoom with scrolling, negative/positive conversion and gamma adjustment. It delivers crystal-clear XGA reproduction with 20 fps motion, presenting any still and moving object with world leading clarity. (HV-3000XG features XGA with 15 fps). New CCD pixel interpolation circuitry reproduces even the finest differences of colors, and an improved image processing formula effectively minimizes noises in the picture. It also features a built-in scan converter, allowing you to convert RGB signals, such as images from a PC, into video signals for output to interlaced video monitors.



HV-5100XG (ELHV5100XG).....2199.95

Step-up features from the HV-3000XG

- ◆ Exclusive built-in scan converter allows you to convert RGB signals, such as images from a PC, into video signals for output to a video monitor (or projector), easily integrating it into a videoconferencing system. Simply transfer PC images through a phone line to a remote area, while locally projecting the same images on a screen with a data projector. Several output jacks are available including RGB, composite and S-Video for connection to various equipment.
- ◆ Crystal-clear XGA reproduction at 20 fps presents any still and moving object with world leading clarity!
- ◆ The high-quality lens can be positioned to view items on its table-top flat base or even something on a wall. The 18x zoom capability can serve up critical details of small items or show things or people across the room. The lens can be positioned in almost any direction. The 2x digital zoom creates an amazing 36x magnification.
- ◆ Incredible noise reduction with Frame Accumulate Mode (F.A.M). F.A.M accumulates frames before they are output as an image, resulting in an output image with a decreased noise level – for a smoother, clearer, sharper reproduction. For example, when looking at low contrast specimens, the visual presenter can use the reflected light from multiple frames and concentrate that light for greater detail.
- ◆ Image Rotation button on the front panel rotates the image 90° at a time
- ◆ Screen scroll eliminates need to move input object
- ◆ Negative/positive conversion
- ◆ Save up to 8 images in internal memory (volatile). This lets you create smooth-flowing presentations by calling up pre-saved materials. Turning the presenter off automatically deletes what is in memory.

HV-110XG Mobile Visual Presenter

The HV-110XG is a high-resolution digital document camera that is easy to use out of the box. It outputs a XGA signal to a projector or computer monitor. It can also input and pass-through a computer signal effectively making the unit a switcher for 2 sources. Sharp 3mm f/2.9 lens gives extra depth of field compared to most lenses, perfect for displaying 3-dimensional objects or highly detailed flat art.



- ◆ Big 14.3 x 10.7" scanning area folds into compact notebook size
- ◆ Easy plug-and-play connections to PC and LCD / DLP projector
- ◆ True XGA (1024 x 768) capture and output resolution
- ◆ Progressive scan at 20 fps for virtual real-time viewing ease
- ◆ RGB PC connection for seamless laptop presentation switching
- ◆ Unique wide depth of field optical system for continuous focus
- ◆ 4x electronic macro zoom, auto white balance and exposure
- ◆ It weighs 3 lbs. and is 2.3 x 11.1 x 6.3", making it compact and easy to carry.

HV-110XG Mobile
Visual Presenter (ELHV110XG).....649.95

HV-7100SX

High Resolution SXGA Visual Presenter

The HV-7100SX is the ultimate visual presenter designed to work with the most demanding applications. Offering unprecedented features and versatility the HV-7100SX is equipped with 2.1-megapixel Progressive Scan CCD that allows you to display a wide variety of visual information with an amazing SXGA resolution and 900 lines of horizontal resolution. Features include Elmo's Enhanced Calibrated High Color Optimizer image system to ensure noise reduction as well as true color high-resolution SXGA images. Built-in annotation allows you to draw lines (free or straight), boxes (variety of colors) to highlight and enhance screen images. Compare live screen to stored images - side by side with up to 20x zoom (10x optical and 2x digital). Store up to 8 images.

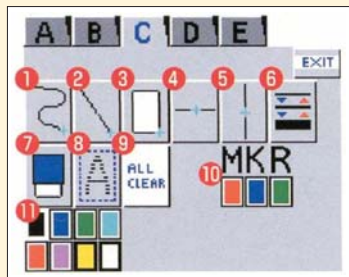


Same as the HV-51000XG, except:

- ◆ Featuring a 2.1 megapixel progressive scan CCD, with its performance focused on SXGA resolution, images with ultra-high crispness and clarity are produced. Achieves unheard of 900 lines of broadcast quality resolution.
- ◆ A CCD pixel-interpolation circuit algorithm in the Image-Processing Engine reduces over-saturated colors and jaggedness along image/text edges. Even the filaments within a butterfly's wings are reproduced in true colors and with rich gradations.
- ◆ "Highlighted Zoom Window" feature lets you highlight (brighten) a specific area within the picture displayed on screen in order to draw attention to it for discussion with your audience. By using the 2x magnification feature in this mode, you can also pan and scroll through the area you highlighted.
- ◆ Pointer marker with color selectable arrows to indicate up to three points that you want to emphasize.
- ◆ Split screen capability allows you to display a live image side-by-side with an image stored in memory. Both the live image and the image in memory can be independently scrolled horizontally. Ideal for teachers, it lets them give their students a lesson that is even more fun and easier to understand.
- ◆ A high-performance 10x optical zoom with an auto/manual focus provides a wide angle and a long zoom feature to show intricate details or very small text. Also incorporates a 2x digital zoom which uses the bilinear method, which eliminates jaggedness by using the data values for neighboring pixels to smooth out gradations.
- ◆ You can draw attention to areas you want to emphasize by drawing freehand lines and underlining on the projected image. This lets you convey your presentations to your audience with even greater retention.
- ◆ Capture moving objects at a speed of 15 frames per second, with all the high image quality of 2.1 megapixels. This makes it possible to create dynamic presentations of hand movements and the like with smooth, vivid motion.

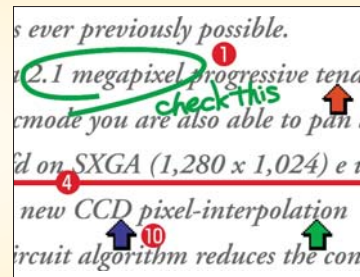
HV-7100SX (ELHV7100SX)

Includes an LCD monitor cable, a video cable, an S-Video cable, a wireless remote control, a scroll mouse, a 6' USB cable, and a utility software CD-ROM**3299.95**



Drawing Tools and Pointer Marker

- | | |
|--------------------------|--------------------|
| 1 Free-line tool | 7 Partial delete |
| 2 Draw straight line | 8 Clear box |
| 3 Draw rectangle | 9 Clear all |
| 4 Horizontal line marker | 10 Pointing marker |
| 5 Vertical line marker | 11 Color palette |
| 6 Change line thickness | |



HV-8000SX

IP Addressable
SXGA Visual Presenter

The HV-8000SX is a high-resolution document camera that can capture the most minute details with precise color accuracy. As a remote-controllable IP-addressable unit, users can share images as well as 3D objects anytime, anywhere on the internet and maintain real-time interactive control.

With browser-based operation using Internet Explorer or Netscape Navigator, the HV-8000SX can deliver real-time motion and freeze frame SXGA resolution images on the internet. Organizations can hold videoconferences without personnel leaving their desks.

Doctors can view procedures in any part of a medical installation.

Lawyers can all read the same document transmitted internally

or from an outside meeting. Banks can verify signatures from many locations. All of this can be viewed by individuals connected to their organization's network on their laptops or on the PC's in their offices.



FEATURES

- ◆ Incorporates a 10x optical zoom, auto focus power-driven lens with 2x electronic magnification and remote pan and scroll capability.
- ◆ True SXGA (1280 x 1024) resolution with image details enhanced by a 1.5 megapixel progressive-scan image capture chip.
- ◆ 180° digital image rotation is helpful when working with spread sheets.
- ◆ On-Screen Menu Display (OSD) with supplied mouse makes it easy to adapt for color, lighting, almost any situation faced in any room environment.
- ◆ It has a USB port for image transfer to PC's, switch selectable RGB inputs for 2 PC's,
- ◆ A full presentation program can be produced with the unit's audio capability. Mic and line-level stereo input and stereo audio output can be run through the unit to a display device like a projector or the network.
- ◆ JPEG compression mode, upper and lower lights.

HV-8000SX (ELHV8000SX)

Includes ImageMate software, an infrared wireless remote control, and a scroll mouse**4649.95**

Remote and Network Presentation Capability

The HV-8000SX is ready to interface with the web or local networks with its RJ-45 ethernet connector and its built-in web browser. The individual operating the HV-8000SX no longer needs to be present to the object or document to focus on a particular area. Equipped with Ethernet 10-Base-T and T/100-Base-TX interface, and offers the following protocols: IP, ARP, TCP, UDP, ICMP, HTTP, FTP, and telnet. For more localized uses the presenter comes with both a plug-in mouse and an infrared wireless remote.

Via a Web/LAN network, the HV-8000SX Visual Presenter can:

- ◆ Transmit clear SXGA high-resolution images
- ◆ Send real-time/live images
- ◆ Share documents with others via the internet
- ◆ Can be operated from a remote location (remote control of zoom, focus, iris, lights, negative/positive mode, color/B&W mode, RGB, aperture and contrast)

Annotation Module for all Visual Presenters

The EVR-100 Annotation Module permits Elmo document camera users to annotate, underline or highlight any document, photo or flat art without damaging the original. It fits onto any full-featured Elmo analog or digital document camera from the EV-2000AF analog unit through the advanced HV-8000SX IP-addressable visual presenter. It simplifies the storage of notes, formulas, bullet points and other helpful aids without the need for a computer or other digital accessories.

EVR-100 Annotation Module (ELEVR100) 128.50



DOCUMENT CAMERA SPECIFICATIONS

	HV-110XG	HV-3000XG	HV-5100XG	P10	P30	HV-7100SX	HV-8000SX
CCD	1/3" 850,000 pixels	1/3" 850,000 pixels	1/3" 850,000 pixels	1/3" 850,000 pixels	1/3" 850,000 pixels	1/1.8" 2 mega pixels	1/2" 1.5 mega pixels
Effective Pixels	1024 (H) x 768 (V)	1024 (H) x 768 (V)	1024 (H) x 768 (V)	1034 (H) x 779 (V)	1034 (H) x 779 (V)	—	—
Frame Rate	20 fps	15 fps	20 fps	20 fps	20 fps	15 fps	7.5 fps
RGB Output	600 x 600 (HxV)	600 x 600 (HxV)	600 x 600 (HxV)	600 x 600 (HxV)	600 x 600 (HxV)	800 x 800 (HxV)	800 x 800 (HxV)
Video Output	—	400 TV Line	400 TV Line	450 (H) TV lines	450 (H) TV lines	400 (H)	400 (H)
Zoom Ratio	2x Optical, 4x Digital	10x Optical	18x	12x Optical, 4x Digital	15x Optical, 4x Digital	10x	10x
F.No./f (mm)	F2.9, f=3mm	F2.8, f=5.8–58mm	F2.8, f=4.7–84.6mm	F2.8, f=4.7–56.4mm	F2.8, f=4.7–70.5mm	F2.8, f=7.2–72mm	F2.8, f=7.2–72mm
Close-up Lens	—	Hinge Type	Hinge Type	Hinge Type	Hinge Type	Built-in	Built-in
Shooting Area (max)	364x271mm	340x252mm	350x260mm	405x303mm	405x303mm	362x290mm	362x290mm
Shooting Area (min)	179x135mm	38x28mm	25x19mm	36.5x28mm	30x23mm	40x32mm	40x32mm
Zoom	Manual	Powered	Powered	Powered	Powered	Powered w/2x Speed	Powered w/2x Speed
Focus	Focus Free	Auto/Manual	AF/ Powered	Auto/Manual (power)	Auto/Manual (power)	AF/Powered	AF/Powered
Iris	Fixed	Auto/Manual	Auto/Manual	Auto/Manual	Auto/Manual	—	—
Head Rotation	—	Provided	Provided	Provided	Provided	Provided	Provided
White Balance	Full-auto/Locked	Full-auto/One-Push/Manual	Auto/One-Set/Manual	Full-auto/One-Push/Manual	Full-auto/One-Push/Manual	Full-auto/One-Push/Manual	Full-auto/One-Push/Manual
Neg/Pos Conversion	—	—	Provided	Provided	Provided	Provided	Provided
Color/BW Covert	—	Provided	Provided	Provided	Provided	Provided	Provided
Detail Compensation	—	Provided	Provided	Provided	Provided	Provided	Provided
Freeze Function	—	Provided	Provided	Provided	Provided	Provided	Provided
Digital Zoom	2X	—	2X	4X	4X	2X	Provided
Image Rotation	—	Provided	Provided	Provided	Provided	Provided	Provided
Digital Pointer	—	Provided	Provided	—	—	Provided	Provided
Image Memory	—	—	Provided (8 Images)	—	—	Provided (8 Images)	—
On Screen Display	—	Provided	Provided	Provided	Provided	Provided	Provided
Resolution Conversion	XGA	XGA	XGA	XGA	XGA	SXGA/XGA	SXGA/XGA
User Preset	—	—	—	Provided (6)	Provided (8)	Provided (8)	Provided (1)
RGB Output Terminal	Mini 15P Convert	Mini 15P Convert	Mini 15P Convert	Mini 15P Convert	Mini 15P Convert	Mini 15P Convert	Mini 15P Convert
Slide Film Holder	—	—	—	Provided	Provided	—	—
RS-232C / USB	—	Provided	Provided	Provided	Provided	Provided	Provided
Composite Video	—	Provided	Provided	Provided	Provided	Provided	Provided
S-Video	—	—	Provided	Provided	Provided	Provided	Provided
Mouse	—	Provided	Provided	—	—	Provided	Provided
Wireless Remote	—	Provided	Provided	Provided	Provided	Provided	Provided
Size (folded mm)	59x282x161mm	500x612x99mm	400x524x181mm	377x482x180mm	378x482x180mm	400x655x187mm	533x449x185mm
Weight	1.5kg	6.5kg	9.8kg	4.7kg	4.7kg	10kg	10.5kg
Power	12V DC	AC 120V, 60Hz	AC 100V-240V	AC 100V-240V	AC 100V-240V	AC 100V-240V	AC 100V-240V

HV-C1000XG

High-Resolution Ceiling Mount
'Out of Sight' Visual Presenter

Documents come in every form, and this ultra-telescopic high-resolution presenter handles them all. Designed for ceiling-mounted applications, the HV-C1000XG captures detailed overhead images of documents, 3D objects and blueprints. For use in installations requiring unobstructed podiums or tabletops, it is ideal for municipal government meetings for reviewing site maps at zoning variance hearings. It is also effective for medical and sales training. For most applications, the camera can be mounted as high as 18' above the work/display surface.

Taking you far beyond the limits of conventional tabletop document cameras, the HV-C1000XG frees up valuable desk, boardroom table or podium space—and eliminates cable clutter—while delivering high-resolution images from a high-resolution 24x zoom that can handle a post card to an A3 page from 4.9 to 13' heights. Mounted on the ceiling, it views your presentation material (flat-art or 3D objects) from a 15° offset to your desktop or conference table to eliminate annoying reflections while illuminating the subject material clearly.



FEATURES

- ◆ 24x zoom (12x optical and 2x digital) lens accommodates true XGA high-resolution images from post card-size to an A3 page from 4.9 to 13' heights.
- ◆ Fast frame rate of 20 frames per second means motion is smooth—approaching video signals.
- ◆ Designed for ceiling-mounted applications, captures detailed overhead images of documents, 3D objects and blueprints.
- ◆ For use in installations requiring unobstructed podiums or tabletops. Ideal for reviewing site maps as well as medical/sales training.
- ◆ For most applications, the camera can be mounted as high as 18' above the work/display surface.
- ◆ Focusing Auto/ Manual (Powered)
- ◆ Iris Auto (with level adjustment)/ Manual
- ◆ White balance Full auto/ One push/ Manual
- ◆ Negative/Positive conversion; Color/B&W selection
- ◆ Image memory (8 images)
- ◆ Pause (freeze) mode
- ◆ Image rotation and 2x magnification (can be scrolled)
- ◆ RGB, composite and S-Video output
- ◆ Ext. control includes: IR Remote, RS-232C, mouse and USB

HV-C1000XG (ELHVC1000XG)6299.95

Ceiling Enclosure for the HV-C1000XG (ELCE)



The plenum enclosure, constructed of heavy gauge galvanized steel, facilitates in-ceiling, flush mounted installation of the HV-C1000XG. The camera can be attached to a standard LCD projector mount and attached to the housing of the plenum enclosure. Once mounted, the camera can be easily adjusted from front-to-back and side-to-side to make it easy to locate the box in the ceiling architecturally in relation to the lectern surface.

Design permits easy access to the HV-C1000XG for halogen lamp replacement (thumbscrew access/no tools required) and camera service. The specifications of the plenum enclosure follow all UL requirements. Constructed mostly of 16 ga. steel, it accommodates a mounting plate with a load capacity of 500 lbs. Immediately-visible areas of the camera box are painted white and everything else in the box is galvanized steel, to reduce weight and retain a corrosion-free appearance over the long term. The package includes the necessary trim plates and escutcheon.

The HV-C1000XG can be attached to a standard LCD projector mount and attached to the housing of the plenum enclosure. Once mounted, the camera inside the unit has a location adjustment range from dead center of 2", each direction, front-to-back and side-to-side. With the camera adjustment carrier assembly placed at the very center of its adjustment range, the point that the camera lens axis (which is at a fixed 15° forward tilt from vertical) exits the very bottom (main door) surface of the unit is right on the centerline of the overall front-to-back dimension of the box. This makes locating the box in the ceiling architecturally easy in relation to the lectern surface.....

829.95

ELPDC05

High-Resolution Document Imager

When it comes to sharing intricate blueprints, charts, or 3-D objects with a room full of students or executives, the Epson ELPDC05 high-resolution document imager is clearly a remarkable solution. Eliminating the need to prepare overhead transparencies or gather audience members around a crowded demonstration table, this powerful accessory is perfect for the most demanding imaging applications. With XGA resolution, it's the ideal way to display anything with clarity and precision. Its built-in base light provides optimum image quality for transparencies, slides, negatives, and X-rays, while a live camera with optical and digital magnification enables users to zoom in up to 35x. Special functions like Clear Screen mode, white balance and gamma selection are also available to enhance every detail.

The ELPDC05 has an RGB function that allows for seamless switching between different sources. And, there's even a wireless remote control. Epson's innovative push-button feature makes it easy to rotate and capture images. Then, save them to a PC using the bundled Image Mate software so they can be retrieved later, distributed, and/or added to another presentation. Whether it's used in the classroom, courtroom, or board room, the versatile Epson ELPDC05 is the perfect complement to any presentation system.



FEATURES

Superior Image Quality and Performance

- ◆ XGA resolution for incredible clarity
- ◆ 1/3" 850,000 pixel CCD for capturing fine details in images, text and 3-D objects
- ◆ 18x optical zoom for capturing minute features
- ◆ 2x digital magnification (with live camera), which works together with the optical zoom to enlarge images up to 35x
- ◆ Built-in base light to display transparencies, negatives, slides, and X-rays
- ◆ Motion at 20 frames per second
- ◆ Built-in white balance for enhancing contrast
- ◆ Gamma selection for low-light situations
- ◆ Clear Screen/Image mode to eliminate random noise
- ◆ Color and black-and-white selection for X-rays and dark blueprint images
- ◆ Built-in image rotation (90°, 180° and 270°)

Advanced Presentation Features

- ◆ RGB switching function for seamless transitions between two applications
- ◆ Built-in RS-232C interface for communication with a remote control system
- ◆ Easy-to-use wireless remote control and front panel operation
- ◆ On-screen display menu (accessed via the included mouse) for easy control
- ◆ Arrow pointer to guide audience members during critical presentations
- ◆ Image Mate software to rotate and save images onto a PC
- ◆ Eight picture memory presets
- ◆ One-touch freeze function to stabilize motion on the screen and display it as a still image
- ◆ Tilting camera head so images can be captured both on and off the stage
- ◆ Negative/positive conversion that's ideal for viewing film photography
- ◆ Built-in scrolling for more extensive image coverage
- ◆ Convenient handle and compact design so it is easy to take the document imager to your next presentation

Epson Service and Support

- ◆ Comprehensive two-year warranty
- ◆ 90-day bulb warranty for added dependability
- ◆ Epson PrivateLine— dedicated toll-free support line available from 6 a.m. to 6 p.m. PST Monday - Friday. This service is free for the duration of the warranty.

MVP-100

Multi Video Product

The MVP-100 is the first camera with a durable exterior finish boasting aluminum construction to meet the rigors of daily use. A high resolution camera, the MVP-100 output signals for RCA, USB, VGA and network. This camera comes complete with Applied Vision Software for USB. The RJ-45 or network output works with Internet Explorer and does not require any localized software. The RCA output is ideal for VCR's, televisions, or multimedia projectors, while the VGA input and output (15-pin D Sub) is designed to maximize the interaction of your computer and multimedia projector. Manage all of your A/V electronics through the easy-to-use touchpad.



All Aluminum Head Construction

Featuring all aluminum construction, the durable, easy-to-position head comes complete with Quick Focus Lens

Media Management

- ◆ Switch between Computer, Projector and Monitor
- ◆ Manage XGA Connections
- ◆ Positive/Negative Control
- ◆ Darken & Brighten Images

Simultaneous Connections

- ◆ RJ-45 – Network Connection
- ◆ USB – Digital to Computer
- ◆ RCA – Composite Video & Audio
- ◆ VGA – Video

Applied Vision Software

- ◆ Notate on Image
- ◆ Capture Single Images
- ◆ Sequence Time-lapse Images
- ◆ Capture Time-lapse Movies
- ◆ Measure



Firmware Based for Networking

- ◆ Easy Connection to Networks
- ◆ Capture Single Images
- ◆ Accessible from Multiple Computers Using Internet Explorer
- ◆ No Software to Install
- ◆ Remote Applications

Applied Vision Software Bundled with all Ken-A-Vision USB Cameras

This innovative software application (for Windows only) works seamlessly with all Ken-A-Vision digital USB products, enabling students to capture and manipulate videos and images from their experiments. Advanced functionalities such as image amalgamation and measurement export empower you compile, analyze, and integrate data and multimedia into reports, with a customizable, user-friendly graphic interface.



- ◆ Capture and save still images in multiple formats
- ◆ Record movies in AVI format
- ◆ Capture a time-lapse as a movie or series of stills
- ◆ Amalgamate images with various algorithms, and fine-tune the positioning to properly align and compare images
- ◆ Search for media files by name or date
- ◆ Undo and Redo functions (up to ten steps)
- ◆ Magnifying glass for spot magnification
- ◆ High quality full screen live video
- ◆ Measure and log distance between points or area within an ellipse
- ◆ Easily export logged measurements to a Microsoft spreadsheet
- ◆ Drawing tools include: insert text, draw arrows, lines, and circles, pencil tool, brightness and contrast, negative image, and more
- ◆ Clean Screen mode expands captured image to window size for immersive editing
- ◆ Share live video across a network
- ◆ Instantly e-mail images
- ◆ Personalize your screen with customizable background images

MEMORY SCOPE

T-1955

Microscope with Memory Chip

This microscope has its own memory chip, an easy to use touch panel and an adjustable LCD monitor attached to the head for viewing. Connect the microscope to a TV, computer or the network so it can be viewed by a large audience. Save up to 30 images at a time and compare 1 or 3 images to a live picture, eliminating the need to connect this scope to a computer to capture images. You can download images later via USB. Images can also be accessed or sent to a network using the ethernet connection, or viewed on a TV or from a projector via composite video output.



Touch Keypad and Internal Imaging Chip

The keypad allows you to manage the internal imaging chip. The imaging chip captures still images, time lapse images and creates comparison of live and stored images. With the split screen option you can compare 1, 2 or 4 images simultaneously which makes the microscope a great addition to any forensics or comparison labs. The erase feature lets you select which 1 to 30 images to be retained.

LCD Screen

View live pictures; view recorded images or sequences of images; compare 1 to 3 recorded slides to each other or to the live picture

Multiple Connections

Ethernet (RJ-45) for network connection; USB for computer connection; composite video (RCA) for output to video monitor or projector

Specifications

Head Type	45° angle Monocular with built-in camera
Eyepiece	10x Widefield
Objective Lens	4x, 10x, 40xR, 100xR DIN
Weight	9.15 lbs
Dimensions	8.5 x 5 x 14.5" (LWH)

MICROPROJECTOR 2

X2000

21st Century Version Microprojector

The Microprojector 2 (MP2) has over 10 cm of working distance for a variety of medium, plus an XGA camera with a USB 2.0 – 1024x 768 full screen resolution – connection option. This inverted microscope has a zoom lens and digital technology that connects directly to a multimedia projector or computer monitor.



VGA Connection

CCD XGA full motion 1024 x 768 camera for connection to computer, monitor or LCD projector. 4x to 40x zoom allows easy teaching and presentation

Floating Stage

- ◆ Ken-A-Vision multi-directional floating stage makes it easy to use with the larger specimens and containers
- ◆ Sealed for wet samples
- ◆ Ease of operation and positioning

Inverted Light Rheostat

- ◆ Rheostat controlled light source, is a cool operational upper light source, so specimens don't get overheated, allowing longer viewing times of living organisms
- ◆ Magnified light source for additional working distance. Room for larger specimens or containers
- ◆ View slides, petri dishes, thin or thick sections, large semi-transparent objects

Specifications

Objective Lens	4x - 40x Zoom
Magnification	Up to 400x, enlarges over 5500x
Focus Adjustment	Coarse and Fine
Resolution	1024 X 768
Output Signal	Digital XGA

T-1952 • T-1953 • T-1954

VGA and SXGA Digital Video Microscopes

Instantly produce high resolution 640 x 480 digital images with the T-1952 and T-1953 (composite video out) Digital Comprehensive Scopes. Instantly capture microscopic images directly to your computer or to display on your TV monitor. Complete with Applied Vision software for Windows, and Ken-A-Vision Capture for Macintosh, these powerful analyzing tools enhance learning by capturing details you might otherwise miss. For those who need higher resolution, the T-1954 steps up with 1.3-megapixel camera to deliver 1280 x 960 SXGA resolution. It also features fast USB 2.0 output, but no Macintosh software.

- ◆ Microscope & camera in one to present microscopic images
- ◆ Live video or USB delivered at 30 frames/sec
- ◆ Base: High density plastic covered metal to prevent chipping
- ◆ Applied Vision Software Windows: Time lapse sequencing, measuring tools, full screen viewing, video streaming, FTP uploading
- ◆ Full screen images at 640 x 480 VGA (T-1952/1953) or 1280 x 960 SXGA resolution (T-1954)



T-1252 • T-1252C Digital PrepScopes

The T-1252 and T-1252C (cordless) Digital PrepScope are cost-effective solution to microscopic imaging. Powered via USB to capture high-resolution microscopic images with your computer, this microscope features a built-in camera with full-screen image resolution at 640 x 480 VGA. Now you have the option to use it as a standard microscope or digital microscope. A great addition to the classroom, it comes complete with Applied Vision software for Windows and Ken-A-Vision Capture for Mac. The software will enable students to learn while they capture, measure, manipulate, and amalgamate microscopic images. Create time lapse movies, view full screen, see live specimens as they run across your screen, or simply capture a still image.

- ◆ 10x Widefield Eyepiece lets you view the specimen on the screen and through the scope
- ◆ C-MOS camera with full screen imaging at 640 x 480 VGA
- ◆ Long bulb life (up to 100,000 hours of operation)
- ◆ One knob controls both coarse and fine focusing
- ◆ Base: High density plastic covered metal to prevent chipping

	T-1252	T-1252C	T-1952	T-1953	T-1954
Head Type	Monocular	Monocular	Monocular	Monocular	Monocular
Eyepiece	10x Widefield Eyepiece with Pointer				
Objective Lens	4x, 10x, 40xR DIN	4x, 10x, 40xR DIN	4x, 10x, 40xR, 100xR DIN	4x, 10x, 40xR, 100xR DIN	4x, 10x, 40xR, 100xR DIN
Focus	Coarse/Fine Focusing in one knob		Coaxial Coarse and Fine	Coaxial Coarse and Fine	Coaxial Coarse and Fine
Composite Video	—	—	—	Yes	—
USB	1.1	1.1	1.1	1.1	2.0/1.1

DOCUMENT CAMERAS

KEN-A-VISION

VIDEO FLEX 7600

Video Camera

The Video Flex 7600 connects directly to the USB port of any computer to transmit and capture images. It can also simultaneously output a composite or S-Video signal for display on TV, VCR or projector. This means you can run a live video signal to a television or projector and capture images on your computer using the Mac and Windows software that comes bundled with the Video Flex 7600. The Applied Vision Software for Windows allows you to view live video, edit captured images, make time-lapse studies and record movies, all in full screen mode. Connect your computer to a projector and even the students in the back row are able to see what you are teaching.

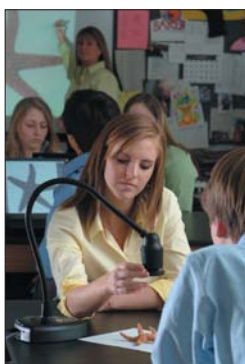


- ◆ Simultaneous USB, composite and S-Video output for greater range of applications;
- ◆ Triangular Base: Slip and Tip proof
- ◆ 500 lines of horizontal resolution for crisp clear images
- ◆ Poly-carbonate build allows for rugged conditions and environment
- ◆ Interchangeable lens system accommodates all C-mount lenses
- ◆ Quick Focus: 1/4 turn moves from 6mm to infinity
- ◆ Ball and socket head for greater range of motion and easier positioning
- ◆ Has a built-in mic for recording or amplifying
- ◆ Adjustable contrast and fluorescent control
- ◆ Positive / Negative Switch: Similar to dark-field control on microscopes; reverses the lighted images
- ◆ Kensington security slot provides anti-theft control



VIDEO FLEX 7700

Network-Ready Video Camera



With a built-in ethernet port, and software already installed in the camera, the Video Flex 7700 is a network-ready video camera designed from the ground up to redefine teaching and learning. There is no software to install, it works using any web browser via the Ken-A-Vision Viewer network interface.

No Software to Install:

- ◆ Triangular Base: Slip and Tip proof
- ◆ Interchangeable lens system accommodates all C-mount lenses
- ◆ Quick Focus: 1/4 turn moves from 6mm to infinity
- ◆ Ball and socket head for greater range of motion and easier positioning
- ◆ Adjustable contrast and fluorescent control
- ◆ Positive/Negative Switch: Similar to darkfield control on microscopes; reverses the lighted images
- ◆ Kensington security slot provides anti-theft control
- ◆ Configure the 7700 with the appropriate IP address and networks settings, as determined by a network administrator
- ◆ Check the network settings at a glance, including the MAC address
- ◆ Configure multiple accounts to log in with different permission levels. Set users to have either view-only access, or full control of the device
- ◆ Can be upgraded quickly and easily in the event of a firmware update

Specifications

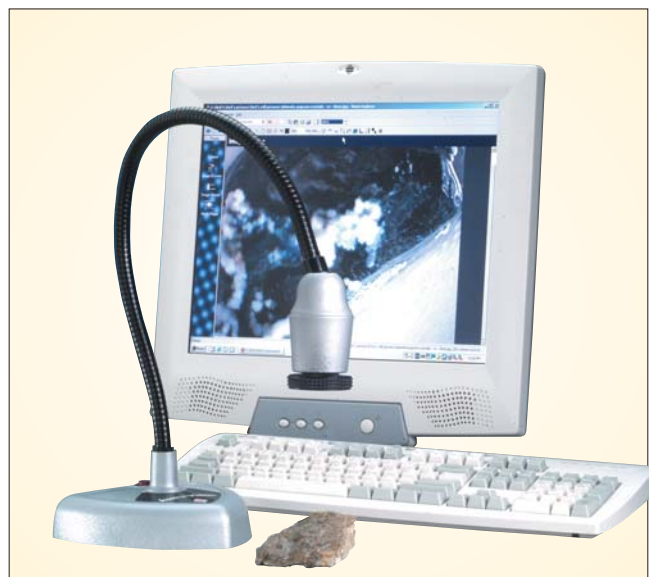
Hardware	32 Bit RISC Processor, with embedded Linux OS and 4MB of Flash Memory	
Video Input / Output	1CH. NTSC/PAL / 1CH. NTSC/PAL	
Video Size	640 x 480, 320 x 240, 160 x 120 [30 frame/sec (320 x 240) frame rate]	

7200U • 7200UM

Digital Video Flex Cameras

Ken-A-Vision created the 7200U (640 x 480) and 7200UM (1280 x 960) Digital Video Flex Cameras with a custom CMOS chip, glass lens and Quick Turn Focus making them capable of capturing superior quality images. Use them in and out of the classroom as a presentation or microscope camera.

- ◆ Digital signal for crisp clear images.
- ◆ Applied Vision Software lets you capture and edit images and movies.
- ◆ Poly-Carbonate build allows for rugged conditions and environment.
- ◆ Interchangeable lens system accommodates all c-mount lenses.
- ◆ Quick Focus: 1/4 turn moves from 6mm to infinity.
- ◆ Microphone for recording or amplifying.
- ◆ 1.5 Lux for use in a wide range of lighting conditions.
- ◆ Kensington slot provides anti-theft control.
- ◆ Supplied Discovery Scope Kit to view specimens without a microscope



7890U • 7890UM

Digital Vision Viewers

The 7890U (640 x480) and 7890UM (1280 x 960) are Digital Vision Viewers that connect directly to your computer or laptop. These presentation cameras come with a pre-attached 5' cable and are powered via their USB connection, so there are no parts to lose. They comes complete with Applied Vision Software for Windows (7890U also includes Ken-A-Vision Capture for Macintosh), allowing you to develop solutions for all your presentation needs.

	7200U	7200UM	7890U	7890UM
Output	Digital	Digital	Digital	Digital
Connection	USB 1.1	USB 2.0/1.1	USB 1.1	USB 2.0/1.1
Lens	8mm interchangeable C-mount	8mm interchangeable C-mount	6mm Glass	6mm Glass
Resolution	640 x 480	1280 x 960	640 x 480	1280 x 960
Light Sensitivity	1.5 lux	1.5 lux	1.5 lux	1.5 lux
Magnification	50:1 or greater	50:1 or greater	50:1 or greater	50:1 or greater
Focal Distance	1/4" to infinity	1/4" to infinity	1" to infinity	1" to infinity
Included Software	Applied Vision for Windows Ken-a-Vision Capture for Mac	Applied Vision for Windows	Applied Vision for Windows Ken-a-Vision Capture for Mac	Applied Vision for Windows

SVP-5300

High-Resolution Document Imager

The SVP-5300 is the entry level model visual presenter from Samsung, yet it is packed full of powerful features to bring real benefits in classrooms or training rooms. A portable and flexible product for visual communications, the SVP-5300 is an excellent tool for creating polished multimedia presentations. Equipped with SSNR noise elimination chip, fast USB 2.0 connectivity and 25 frames per second image capture, you can capture moving images in real time with much sharper pictures.

Furthermore its allows users to create their own presentation with higher flexibility and space-efficiency. The pivot head lets you view documents at any angle, and the head also tilts to capture those awkward shaped objects. Supplied with video capture software for the PC. Very quick to set-up (under a minute typically) the SVP5300 is lightweight and portable, with a carry case included in the package.

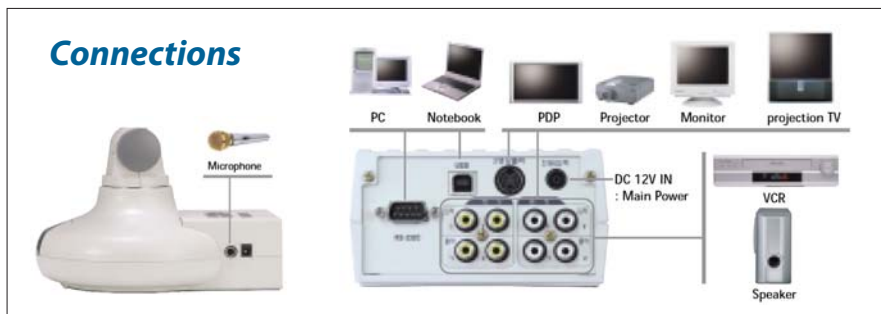


FEATURES

- ◆ Equipped with Samsung Super Noise Reduction (SSNR), an outstanding noise elimination technology, images are much more distinctive –surpassed S-Video–as common noise in the digital image processing is dramatically reduced. More detailed image enables users to deliver effective and compelling presentations.
- ◆ High-speed 16x auto focus zoom (plus 2x digital zoom) gives you plenty of scope for creative presentations. Even small letters in books, pictures, maps, and catalogs can be easily magnified on the screen.
- ◆ The SVP-5300 has a multi-articulated structure for extra flexibility. The camera head is capable of rotating freely up to 270° and tilting up and down up to 120°. This flexibility enables users to present materials on the working surface regardless of size or type along with various visual aids in other areas such as behind the unit or on a wall.
- ◆ Adjustable cold cathode lamp attached to arm with remote on/off feature
- ◆ Convenient digital functions ensure high-impact visual communications. When you press the Freeze button, the image stays on the screen. Replace the script or picture with next one. Plus, the object image can be rotated via the Image Flip & Mirror functions.
- ◆ Basic controls on the base include zoom, auto focus, manual focus, automatic white balance and brightness controls
- ◆ All the functions are easily controlled with the supplied remote controller.
- ◆ Positive and negative image can both be projected on to the screen or the monitor for a clear and vivid image equivalent to the quality of a printed image.
- ◆ Built-in Kensington port
- ◆ With the optional SLB-5 lightbox, a variety of films such as transparencies, photo-negative films, X-ray films, and slides films can be projected onto a screen. This backlight illuminator can be easily attached and removed.
- ◆ The SVP-5300 can quickly transfer images to a PC or laptop via USB 2.0. Produce an impressionistic effect on the transferred image using the bundled Digital Imaging Effect Processing (DIEP) software. Moreover, it can display and record real motion pictures at up to 25fps (as JPG or BMP files) and capture them just like a 3D scanner. Save full motion AVI or MPEG-4 files for playback.
- ◆ Inputs include two composite video (RCA), two audio and RS-232. Outputs include one S-Video, two composite video (RCA), two audio and USB 2.0.
- ◆ Includes remote control, cables, software, supplementary lens and custom carrying case.

SVP-5300 High-Resolution Document Imager (SASVP5300)874.95

Connections



SVP-5500ST • SVP-5500DX

Video Presenters

The SVP-5500ST is a XGA resolution digital presenter with a 16x auto focus zoom lens that pulls double duty as a document camera and videoconferencing device (with the optional second camera head). The camera head and arm can be rotated up 180° to capture people, or positioned to display text, flat art or 3D objects almost anywhere in the room. It has built-in light sources to illuminate slides or transparencies from below and non-transparent objects from above. It features auto/manual iris, positive/negative mode auto/manual white balance and RS-232 port. Otherwise identical, the SVP-5500DX adds a USB connector and bundled software that allows the presenter to control zoom, focus and other image options directly from the computer. It also has a host of digital functions, stores up to 8 images as JPEG or BMP files for instant recall, has 8-position lens and settings, and a built-in scan converter to convert data to video.



FEATURES

- ◆ They offer the flexibility to manually rotate the camera head and arm up to 180°, so that you can capture all images around you. Convenient for video conferencing.
- ◆ Toggle the output signal back and forth between a computer and the camera with the touch of a button.
- ◆ A 4" LCD monitor and 410,000-pixel sub camera are available as options:
 - With the LCD monitor, you can view images without connecting to a monitor or TV. This allows you to preview your presentation as prior to the actual presentation.
 - The sub camera gives you the great ability to shoot precise angles and close-up images even from a microscope.
- ◆ Negative/positive image conversion
- ◆ Powered (one touch) autofocus, automatic iris with fine level adjustment and manual/AWC (one touch) white balance
- ◆ Image control including brightness, tone contrast, RG control, flicker reduction, etc.
- ◆ Two composite video, one stereo audio and one microphone input. Two composite video, one S-Video and stereo outputs
- ◆ Includes remote control, A/V cable, S-Video cable and cover.

5500DX Step-up Features

- ◆ In order to avoid interruption of your presentation, the 5500 DX offers the ability to store eight focal settings which allows for a smooth flow of presentation material.
- ◆ The 5500 DX has a built-in 1024 scan converter. This feature allows you to convert data to video. This allows you to show your presentation on a monitor without having to buy and connect additional equipment, saving you time and money.
- ◆ The 5500DX has the capability to internally store up to eight images without attaching a PC. After saving the images, you may recall them simply by pushing a button on the remote. You may also use the divided screen function to compare a saved image with a live image.
- ◆ The 5500 DX has a built in USB port that allows you to connect directly to a Windows-based computer. You can save images to a computer as either a JPEG or BMP format in a few seconds, and then edit them. The included software also provides you with an easy to use graphic interface to control zoom, focus, color and more, directly from a computer.
- ◆ Image Freeze and image rotation up to 180°

SVP-5500ST High Resolution Digital Presenter (SASVP5500ST)1599.95

SVP-5500DX High Resolution Digital Presenter (SASVP5500DX)2199.95

Optional Accessories



Optional sub-camera gives you the ability to enhance your presentation, enabling you to shoot precise angles and close-up images.



Free-standing LCD monitor lets you preview and set-up your presentation. It saves you time and avoids embarrassing situations.

SDP-850

High Resolution XGA Digital Presenter

Delivering more clarity, flexibility and affordability, the SDP-850 is a smart, high-resolution, digital presenter that offers a wealth of user-friendly features to make any presentation exceptional. The SDP-850's robust feature set make it the ideal solution for the classroom, the courtroom, the board room and anywhere else presentations of the highest quality are demanded. It provides 42x zoom (14x optical and 3x digital zoom), XGA resolution, and image freeze. Its free-angle head can rotate up to 270° and tilt up and down up to 120°. There is also an optional lightbox (SLB-5) available.

- ◆ 1/3" 850,000 Pixel PS CCD delivers true 20fps, native XGA resolution (1024 x 768)
- ◆ 42x powered auto focus zoom lens (14x optical plus continuous 3x digital zoom)
- ◆ Powered auto and manual focus, automatic iris with fine level adjustment, manual and auto (one-touch) white balance
- ◆ Digital functions include freeze, text/image modes, positive/negative
- ◆ Multi-articulated design for flexibility and space efficiency. Both the base and camera head rotate 270° plus the camera head tilts up and down 120°.
- ◆ Adjustable LED lamp attached to arm with remote on/off
- ◆ VGA (15-pin) input/output plus RS-232 port
- ◆ Lets you save 4 user-defined presets



- ◆ Basic controls on the base include zoom, auto and manual focus, auto white balance, brightness controls and negative/positive settings
- ◆ Built-in Kensington style security lock
- ◆ Includes remote control, supplementary lens and custom carrying case

SDP-850 High-Resolution XGA Video Presenter (SASDP850)\$899.95



SDP-950STA • SDP-950DXA

High Resolution XGA Digital Presenters

The SDP-950ST and SDP-950DXA are lightweight and portable visual presenters with an auto-focus camera, computer interface and two different lighting sources. The cameras can rotate a full 360°, images can be displayed split-screen, shifted or motion freeze. They interface with all computers through popular connectors and remote control software in both PC and MAC platforms. The SDP-950DXA steps-up with a built-in memory that allows you to save and recall 8 images, 3x3 screen display, as well as rotate images (90°, 180° and 270°).

- ◆ 1/3" progressive scan CCD (850,000 pixels)
- ◆ Vivid live images with 20fps real time motion
- ◆ Fast data transfer with USB 2.0 interface
- ◆ 1 DVI and 2 VGA outputs
- ◆ Image freeze, up to 4 user-settings
- ◆ Powerful 36x magnification (12x Optical; 3x digital)
- ◆ Easy-to-use GUI and mouse-controlled annotation

SDP-950STA High Resolution XGA Digital Presenter (SASDP950ST)\$2277.95

SDP-950DXA High Resolution XGA Digital Presenter (SASDP950DX)\$2499.95

UF-80DX • UF80ST

High Resolution XGA Digital Presenters

The compact UF-80DX and UF-80ST interactive presenters offer a revolutionary sleek design, a new user interface and a host of smart features that let you take your presentation to the next level. Weighing only 11 lbs., they feature a unique open-round base for greater flexibility to lay large objects across, thereby enabling the presentation of 2D and 3D objects. They also deliver crisp, live XGA images at a rate of up to 20 frames per second and boast a powerful 42x zoom. Both include a wireless remote, a USB 2.0 port and DVI output support.

The UF-80DX steps-up with the ability to quickly save and recall up to eight images in memory, features split screen and image shift functions, and has a digital image rotation control.



FEATURES

- ◆ They are ideal for use in a wide variety of places such as educational institutes, offices, hospitals, courtrooms, broadcasting stations, photo studios, and industrial sites.
- ◆ They offer a new aesthetically stimulating design that includes:
 - Their unique open round base offers great flexibility to lay larger objects completely across it and zoom in for powerful close-ups.
 - Their compact design allows you to work in a limited space environment.
 - Optimize your presentation space with exceptionally versatile and convenient functions that enable the presentation of 2D and 3D objects.
 - Collapsible head and lighting enables flexible positioning.
- ◆ High-speed, 14x auto focus zoom makes it possible to clearly present a wide range of materials. Make a realistic and 3D presentation. Size and object is no longer an obstacle. Plus add the 3x digital zoom and you have a powerful 42x zoom!
- ◆ Powered auto and manual focus, automatic iris with fine level adjustment, manual and auto (one-touch) white balance
- ◆ For users more comfortable using a mouse (PS/2), they include a pull down menu with a simple GUI to access every feature. Using the mouse you can also annotate over any image by using the image freeze function.
- ◆ They deliver high-resolution XGA (1024 x 768) images with 20fps frame rate. Motion technology prevents coarse motion caused by the defective progressive scan. They are ideal for use with a high resolution XGA projector or monitor.
- ◆ Via the USB 2.0 port and supplied software you can control various functions of the presenter from a PC. Moreover, it is possible to record presentation images at 20 fps and capture them just like a 3D scanner.
- ◆ The powerful software allows live (20 fps) image preview up to full screen on any USB 2.0 system. A Quick Save feature lets you download images to the computer as 1/4 and 1/16 preview modes.
- ◆ Save images with a Date/Time stamp, create AVI and MPEG-4 files and more.
- ◆ DVI output can be used with higher end projectors for higher bandwidth and uncompressed clearer images. Through DVI output, digital images are transferred without loss.
- ◆ Built-in Kensington-style security lock
- ◆ Other features include on-screen display, text enhancement (text and image settings are automatically stored), image freeze, and 4 user-set preset functions (8 parameters).
- ◆ Equipped with 15-pin RGBHV input/output, PS/2 mouse and RES-232 input and DVI and USB 2.0 output.
- ◆ They include remote, VGA, DVI and USB cables, software and a carrying bag.
- ◆ With the optional SLB-80 lightbox, a variety of films such as transparencies negative films, X-ray films, and slide can be projected.

UF-80DX Step-up Features

- ◆ Up to 8 images can be saved and quickly stored in memory for later recall.
- ◆ 3x3 preview mode lets you view all 8 images at once for preview and selection
- ◆ With the UF-80DX, you can compare the saved image with a live one through the split screen. And the position of the saved image can be easily adjusted by utilizing the shift function.
- ◆ The object image can be revolved 90°, 180° or 270° through the digital image rotation function including the zoom control.

**UF-80DX High Resolution XGA
Digital Presenter (SAUF80DX).....2199.95**

**UF-80ST High Resolution XGA
Digital Presenter (SAUF80ST)1649.95**

SDP-6500

SXGA Resolution Digital Presenter

The top-of-the-line SDP-6500 features SXGA resolution with a 12x auto focus zoom lens. The camera head can be positioned to display text, flat art or 3 dimensional objects almost anywhere in the room. It has built-in light sources to illuminate slides or transparencies from below and non-transparent objects from above. It is compatible with both PC and computers through its USB connector.

Equipped with advanced features like split screen, internal/external switch, mouse control with GUI, digital rotation, 8-picture memory and digital divide, annotation and more, the SDP is ideal for education, presentation, tele-conferencing, image processing (advertisements, design), court and medical applications.



FEATURES

- ◆ The SDP-6500 delivers high-resolution, SXGA images (1280 x 1024 pixels) ideal for use with a high resolution SXGA projector or monitor. Users can also adjust the output to match projectors or monitors with lower XGA or SVGA resolutions.
- ◆ Delivers SXGA images with realtime 15 fps image frame rate. In addition, motion technology prevents coarse motion caused by the defective progressive scan.
- ◆ Tilting camera head allows you to rotate the head up to 90°.
- ◆ A high-speed, 12x Autofocus optical zoom lens makes it possible to clearly present a wide range of subjects-from 35mm slides or negatives to 8.5 x 14" documents clearly. For example, microscopic objects such as the veins of a leaf, the intricate details in a woven fabric or even an x-ray can be displayed with great precision.
- ◆ Compare the saved image with a live one through the split screen. And the position of the saved image can be easily adjusted by utilizing the shift function.
- ◆ Positive and negative image can both be projected on to the screen or the monitor for a clear and vivid image equivalent to the quality of a printed image.
- ◆ You can set up to four preset functions to easily jump from full-sized documents to slides or any other subject. All settings remain even if the unit is turned off!
- ◆ The SDP-6500 provides true RGB output through standard 15-pin VGA connectors. By including two inputs and outputs, users can switch seamlessly between computers and live presentations. It also supports simultaneous S-Video and composite output for traditional video display devices.
- ◆ Internal/external switch lets you choose the internal signal from the presenter and the external signal from the computer. The presentation can be optimized when used interchangeably with Powerpoint.
- ◆ An optional free-standing LCD monitor allows you to preview your presentation as well as set-up prior to the actual presentation, saving time and avoiding embarrassing situations.

Powerful Digital Multi-Functions

8-Picture Memory & Digital Divide

Up to 8 images can quickly be stored in memory for later recall. A great tool for review at the end of classroom lecture or courtroom presentation. Use the 3x3 "electronic proof sheet" to jump to any stored image. The Divide Mode is a great tool for comparative analysis of a stored and live image.

Mouse Control with GUI

For users more comfortable using a mouse, the SDP-6500 includes a pull down menu with a simple GUI to access every feature. In addition, you can draw or write over any image with 4 line widths, 6 colors, and multiple tools including freehand, straight line, rectangle, and erase to make your point.

Computer Interface

With the USB interface, the SDP-6500 becomes a high-resolution capture device, storing JPEG or BMP images on your Windows or Macintosh computer. There you can store, share, print or even edit images with 3rd party applications.

Control Panel

Convenient, easy-to-use front panel buttons for commonly used functions such as zoom, rotate, brightness and freeze functions. More advanced features can be accessed by the remote or PS/2 mouse included with the unit.

Image Rotation

Through the image rotation function (90°, 180°, 270°), you can display the full vertical (portrait) letter or A4 page.

SDP-6500 SXGA High-Resolution Digital Presenter (SASDP6500)

Includes an infrared wireless remote control and a PS/2 mouse3499.95

SAMSUNG PRESENTERS COMPARISON


SVP-5300
SVP-5500DXA/STA
SDP-850
SDP-950ST/DX
UF-80DX/ST
SDP-6500

OPTICAL SYSTEM

Zoom Lens	3.9 - 62.4mm f/1.4-2.7 16x Power Zoom	3.9 - 62.4mm f/1.4-2.7 16x Zoom	4.8 - 67mm f/1.5-2.1 14x Power Zoom	5.2 - 66.5mm f/1.5-2.1 12x Power Zoom	4.8 - 67.2mm f/1.5-2.1 14x Power Zoom	6.3 - 75.6mm f/2.8 12x Optical Zoom
Max. Shooting Area	210 x 297mm	210 x 297mm	221 x 298mm	244 x 299mm	221 x 298mm	272 x 384mm
Min. Shooting Area	24 x 18mm	24 x 18mm	21.7 x 16.4mm	21 x 16mm	16.4 x 21.7mm	40 x 50mm
Focus	Auto/Manual	Auto/Manual	Power Auto/Manual	Power Auto/Manual	Power Auto/Manual	Auto/Manual
Iris	Auto	Auto/Manual	Auto	Auto	Auto	Auto/Manual

ILLUMINATION SYSTEM

Upper Lamp	Attached to head-arm of the main unit	Attached to the side-arm of the main unit	Attached to the side-arm of the main unit	Attached to the side-arm of the main unit	Attached to the side-arm of the main unit	Side arm lamps
Lower Lamp	Light Box (optional)	Light Box (built-in)	Light Box (optional)	Light Box (built-in)	Light Box (optional)	Bottom Light Box

VIDEO

Pick-Up Device	1/4" 410,000 pixels IT CCD	1/4" 410,000 pixels IT CCD	1/3" 860,000 pixels PS CCD	1/3" 850,000 pixels PS CCD	1/3" 850,000 pixels PS CCD	1/2" 1,500,000 pixels PS CCD
Effective Pixels	783 H x 494 V	768 H x 494 V	1,034 H x 779 V	1,034 H x 779 V	1,034 H x 779 V	1,360 H x 1,024 V
Frame Rate	30 fps	30 fps	20 fps	20 fps	20 fps	15 fps
Sync System	Internal	Internal	Internal	Internal	Internal	Internal
S/N Ratio	More than 46dB	More than 46dB	More than 46dB	More than 46dB	48dB	48dB
Negative/Positive	Selectable	Selectable	Selectable	Selectable	Selectable	Selectable
Freeze	Built-in	Available		Built-in	Built-in	Available
Input Terminals	Video: 2, Audio: 2	Video: 2, Audio: 2, VGA	VGA	VGA: 2	VGA	VGA: 2, Mouse
Output Terminals	Video: 2, Audio: 2 USB, Mic, RS 232C	Video: 2, Audio: 2, S-Video, USB, RS 232C	VGA	Video, VGA: 2, USB, DVI, RS 232C, S-Video	VGA, USB, DVI, RS 232C	VGA: 2, S-Video, USB, DVI, RS 232C, C Video
NTSC/PAL	Selectable	Selectable		Selectable		
PC Interface	USB, RS 232C	USB, RS 232C		USB, RS 232C	USB, RS 232C	USB, RS 232C
Application Software	Windows, Twain	Windows		Windows/Twain/Mac	Windows, Twain	Windows/Mac
Remote Controller	Supplied	Supplied	Supplied	Supplied	Supplied	Supplied
Power Source	12V DC, 110V-220V AC	110V-220V AC	12V DC, 110V-220V AC	12V DC, 110V-220V AC	12V DC, 110V-220V AC	110V-220V AC

DIMENSIONS

In-Use (W x H x D)	182 x 482 x 430mm	685 x 547 x 510mm	182 x 492 x 430mm	650 x 566 x 407mm	404 x 488 x 504mm	665 x 562 x 510mm
Storage (W x H x D)	182 x 482 x 265mm	685 x 547 x 510mm	182 x 330 x 500mm	477 x 154 x 407mm	404 x 206 x 504mm	665 x 562 x 510mm
Weight	3.7 kg	8.3 kg	5.7 kg	4.8 kg	5 kg	9.2 kg
Optional Accessories		Camera, LCD Monitor	SLB-5 Light Box			LCD Monitor

VC-C50i • VC-C50iR

Communication Cameras

Designed to meet the specialized needs of the security industry, the VC-C50i and VC-C50iR (ceiling-mounted reverse model) deliver high-quality video from far distances and under the dimmest lighting conditions. Building on Canon's long-standing tradition as the leader in optics and image processing, they offer great flexibility in the most demanding environments. They are perfect for professional-grade installations, providing a secure and sturdy connection interface. Capturing subjects beyond the scope of the naked eye, they breathe new life into the world of monitoring.



FEATURES

- ◆ Along with their genuine Canon optics, they come equipped with 1/4", 340,000 pixel CCD. This means that you see sharp, clear video images. As with all Canon cameras, the combination of outstanding optics and extraordinary electronics means performance without compromise.
- ◆ Don't lose sight of anything — in low light, or in complete darkness. With the Minimum Subject Illumination feature, you can see what's happening, even when light gets as low as 1 Lux (at 1/30 second shutter speed).
- ◆ Not only that, but when the lights go out completely, a Night Mode with built-in IR light lets you continue to monitor the action. (The camera's IR illumination is effective up to 9.8') An additional external infrared light can also be connected
- ◆ They are equipped with an outstanding 26x optical zoom and 12x digital zoom lens. With a zoom range like this, you'll get a wide-angle view that shows you everything you need to see. Or, you can zoom in and get a close-up view. In addition, the large aperture of F1.6 is the fastest in their class.
- ◆ The VC-C50i lets you see exactly what you need to see by panning through a broad reach of 200° or tilting through 120°. The VC-C50iR also lets you tilt 120°. But, it lets you pan a remarkable 340°. There's no hiding from this camera.
- ◆ They include the VC-EX3 Interface Adapter. This connects the VC-C50i/VC-C50iR multi-connector socket with the RS-232C cable. The connecting terminal is equipped with three terminals: an S-Video output, RS-232 output and RS-232 input. A BNC-RCA converter connector is attached.
- ◆ At a mere 0.89 lbs, the VC-C50i is a compact featherweight that's easily mounted wherever you need a camera. Not only that, the VC-C50iR can be installed on the ceiling — out of reach, and out of sight.

Easy Connection and Installation

Installation of these cameras is easy with connection options they provide. The camera's secure and sturdy Multiple Connector Interface and Connector Block give you S-Video out, RS-232 in and out, as well as connections for Alarm out, Sensor in, and External Light Trigger. Plus, for those seeking built-in video and control connectors on the unit, the VC-EX3 connects to the VC-C50i providing direct access to S-Video, RS-232 in and RS-232 out. They also comes with BNC video output and a supplied BNC/RCA video adapter for even greater flexibility. With all this flexibility, you can get them connected — and get them working for you right away.

VB-150 NETWORK CAMERA SERVER



The VB150 camera server has superior expandability, and is capable of transmitting live images through the internet and intranet. Images from Canon's VCC50i/ VC-C50iR cameras as well as other cameras can be transmitted.

- ◆ The VB150 captures images at a maximum of 30 fps and uses Motion-JPEG for image compression. The image quality and capture rate can be set freely on the transmitting side.
- ◆ Up to four Canon communication cameras can be completely controlled by cascading; all other general video cameras (NTSC) can also be installed. Images from up to four cameras can be displayed and recorded simultaneously with the Network Video Recorder VK-64/VK-16.
- ◆ By setting the visible range, your camera can control the areas you want to show and display them. By setting the "home position," the camera moves to the specified position when there is no controller, giving you additional flexibility.
- ◆ The VB150 contains web and FTP server. Access can be limited by name and password or IP address. Images can be transmitted simultaneously to up to 50 users. Constant access is maintained by the "network connection feature" and "automatic dialing feature".

PTC-110S

Pan/Tilt/Zoom (PTZ) Communication Camera

When clarity and speed are critical, choose the pan/tilt/zoom camera that outperforms the rest. After all, it's your image that's at stake. Ideal for distance learning, videoconferencing, monitoring, presentations and web casting, the attractive PTC-110S features a 22x optical zoom lens, wide panning/tilting range with quick speed, and full image control. For convenience, it includes 6-position preset mode, auto and manual 8-step motor speed control, and a versatile remote control. The attractive PTC-110S features a low-profile, symmetrical design that easily blends into any environment—from homes and offices to stores—without being conspicuous. Its compact size and light weight allows it to be easily carried from place to place. Also available in a ceiling mount (PTC-110R).



FEATURES

- ◆ The PTC-110S features a high-performance 22x optical zoom, the most powerful in its class. Unlike digital zooms which simply enlarge part of an image without adding any detail, an optical zoom increases the focal length of the lens, allowing the camera to clearly capture objects in full detail without causing pixelated effects.
- ◆ Image clarity is further ensured with the PTC-110S's high picture resolution of over 460 TV (horizontal) lines. Full auto focus and manual focus modes are available.
- ◆ The PTC-110S has a panning range of 300° (150° left/150° right) and a tilting range of 120° (+90°/-30°). Plus, it boasts a pan/tilt speed of maximum 90° per second—the fastest in its class—so it's quick to go right to where you need it, when you need it.
- ◆ When equipped with the optional WC-01 wide conversion lens, it delivers a wide horizontal field of view of 65°.
- ◆ Supplied wireless remote controller gives you complete control of the PTC-110S and its on-screen display adjustments. Infrared sensors are located at the front and rear of the camera. Plus, up to 6 cameras can be operated individually with a single remote controller by designating different ID numbers for each camera.
- ◆ The PTC-110S can be connected to a PC via the RS-232c port. Up to 7 cameras can be daisy chained via an RS-232c connection.



On-screen displays

- ◆ 6-position preset mode
- ◆ Auto and manual (8-step) motor speed control
- ◆ Left/right direction change, homing, pan/tilt reset
- ◆ Power-save mode

Easy Image Control

Full camera controls include backlight compensation, iris selection, white balance, color balance, AGC gain and edge enhancement. The PTC-110S's on-screen display (OSD) makes it easy to control a wide range of parameters for the shots you want.

Specifications

TV System: NTSC system

Pick-Up Device: 1/4" IT color CCD

Total Picture Element: 410,000 pixels

Sync. System: Internal

Horizontal Resolution: More than 460 TV lines

Vertical Resolution: More than 350 TV lines

S/N Ratio: More than 49 dB

Minimum Illumination: 2 lx

Lens: 22x powered zoom, f=4.0 – 88.0 mm, F1.6 – 3.8

Zoom: 22x powered optical zoom

Field of View (horizontal): 47.5° – 2.3°

Lens Filter Diameter: 37mm, pitch=0.75mm

Video Output: RCA x 1

S-video Output: Mini DIN 4-pin x 1

Communications: RS-232C mini DIN 8-pin x 2

Pan (H): ±150°
(300° in total, max. speed 90°/s)

Tilt (V): -30° to 90°
(120° in total, max. speed 90°/s)

Speed Control: Auto & manual (8 speeds)

RS-232C Daisy Chain Connection: Max. 7 PTC-110S/PTC-110R cameras

Power Requirement: 12v DC from supplied AC adapter

Dimensions (W x D x H): 4.9" x 6.0" x 5.4"

Weight: 1.7 lbs

Supplied Accessories: IR remote controller (with batteries), AC adapter, RCA cable, Instruction manual

EVI-D70

Pan/Tilt/Zoom (PTZ) Remote Camera

The EVI-D70P is a robotic pan/tilt/zoom color video camera that combines a high quality 1/4 type EXview HAD CCD color camera with the flexibility of a remote pan/tilt/zoom operation, all in a compact easy-to-use package. Ideal for vi video conferencing, it features a wide pan/tilt range with an 18x optical zoom lens and a fast pan/tilt mechanism. It is also equipped with a variety of convenient features such as an Auto ICR function, Alarm function and RS-232c/422 serial control, making it ideal for any remote-shooting applications such as distance learning, places of worship, courtrooms, hospitals and nursing homes, event venues, concert halls, and just about any other remote shooting application.



FEATURES

- ◆ The adoption of Sony EXview HAD CCD technology improves basic camera performance. For example, these cameras offer superb sensitivity of 1 lx (typical), and a low smear level and D-range.
- ◆ The camera offers a wide pan angle of 170° from center, and pan speed of up to 100° per second. The unit will tilt upward a full 90° and downward 30°. Tilt speed is a maximum of 90° per second.
- ◆ The EVI-D70 offers a high quality 18x zoom lens that at its widest, offers 48° of horizontal view and at full zoom 2.7°. The camera has a digital zoom that adds 12x power to the optical lens zoom.
- ◆ Store up to 6 predetermined positions of the pan/tilt/zoom for instant recall. The presets also include picture parameters like white balance and exposure features.
- ◆ The camera has an infrared-cut filter that makes it effective in both day and night conditions. The Auto ICR (IR Cut filter Removal) function automatically switches the settings to attach or remove the IR Cut filter for increased sensitivity.
- With a set level of darkness, the IR Cut filter is automatically disabled (ICR ON), and the infrared sensitivity is increased.
- With a set level of brightness, the filter is automatically enabled (ICR OFF). The ICR automatically engages depending on the ambient light, allowing the camera to be effective both in day and night environments.
- ◆ An alarm function can detect changes within a user-designated area of an image. (Using any of the pan/tilt/zoom functions disables the alarm.) When a change in AF, AE or both is detected, the camera outputs an alarm trigger signal to the external equipment via the VISCA protocol. In combination with the Spot AE function, the camera also detects changes in the luminance level, and outputs an alarm signal. The detecting area can be applied to any of 16 vertical and 16 horizontal blocks.
- ◆ All camera settings and pan/tilt/zoom functions can be controlled remotely via a PC. Via the RS-232c connection, maximum cable length can be extended to 50'. Using the RS-422 connection extends this to 4000'.
- ◆ Ceiling mount or desktop installation
- ◆ Auto Power-Off/Night Power-Off function
- ◆ Daisy chain capability (up to 7 cameras)
- ◆ 37mm mount for optional wide conversion lenses

Specifications

Minimum illumination: 1 lx (F1.4)

Auto Exposure: Auto/Manual/Priority AE, Exposure and Back-light compensation

Shutter Speed: 1 to 1/10,000 s

Gain: Auto/Manual (-3 to +28 dB, 2 dB steps)

White Balance: Auto/ATW/Indoor/Outdoor/One push/Manual

S/N Ratio: More than 50 dB

Pan: ±170° (Max. speed: 100°/s),

Tilt: -30° to +90° (Max. speed: 90°/s)

Position Preset: 6 positions

Picture Effects: Neg. Art, Black & White

Video Output: VBS, S-Video

Power Requirements: DC 10.8 to 13.2v

EVI-D70 Pan/Tilt/Zoom Remote Camera (SOEVID70).....1049.95

Outdoor Dome Housing

Clear (SOEVIDP8C3) or tinted (SOEVID8T3) dome.

For the EVI-D70**429.95**

Indoor Pendant Mount

Clear (SOEVID8C1) or tinted (SOEVID8T1) dome. For

the EVI-D70**209.95**

Indoor Vandal Resistant, Pendant Mount

(SOEVID7): With tinted dome housing.....**321.95**

Outdoor Vandal-Resistant Pendant Mount

(SOEVIDP7C3) With clear dome housing**509.95**

Corner Mount Adapter Bracket (SOSNCACA2)

Requires use of Gooseneck wall mount.....**49.95**

Pole Mount Adapter Bracket (SOSNCAPM3)

Requires use of Gooseneck wall mount.....**34.95**

EVI-D100

Pan/Tilt/Zoom (PTZ) Remote Camera

The EVI-D100 camera is ideal for applications such as videoconferencing, distance learning, surveillance, conference and training rooms, courtrooms, houses of worship, internet communications and just about any application that requires a high-quality color video camera with the flexibility of remote pan/tilt/zoom operations. The EVI-D100 is a high quality CCD cameras that combine a high-speed, quiet pan/tilt with a wide angle view and 40x zoom (10x optical + 4x digital), all in a compact, easy-to-use package. The EVI-D100 camera boasts impressive and innovative features such as autofocus, auto white balance and automatic exposure control which provide fast and stable hands free operation when the camera changes pan/tilt positions.

Additional advantages are provided by easy to use presets, daisy-chaining capability and various digital picture effects.



FEATURES

- ◆ The camera moves to a designated position quickly with a high pan/tilt speed:
 - Max. pan speed: 300°/s (range ± 100°)
 - Max. tilt speed: 125°/s (range ± 25°)
- ◆ Direct drive motors account for the gear-less structure of the camera, reducing the noise of pan/tilt motion drastically compared to conventional models.
- ◆ The camera has a high quality 10x zoom lens that at its widest offers 65° of horizontal view. For even greater close-up images, there is also a 4x digital zoom.
- ◆ Built-in conversion lens provides a wide angle view of 65°, making it ideal for use in small-sized rooms.
- ◆ With Auto Sleep Function the camera can be set to automatically turn off when not in use after a specified period of time.
- ◆ Supplied easy-to-use Multi-function IR Remote Commander unit is useful for basic pan/tilt/zoom camera control.
- ◆ RS-232c serial control allows all camera settings and pan/tilt/zoom functions to be controlled remotely via PC.
- ◆ Store up to 6 pre-determined positions of the pan/tilt/zoom/focus for instant recall. Presets also include picture parameters like white balance and exposure features. A battery backup insures the presets remain in memory even when the camera is powered down.

- ◆ The EVI-D100 can render special effect images for a variety of production requirements. Effects include: Mirror Image, Still Image on Field Memory, Pastel Image, Negative/Positive Reversal, Sepia Image, Monochrome Image, Enhanced Contrast, Mosaic Image, Vertical Stretch, Horizontal Stretch, Motion Image on Still Image, Continuous Still Image, Motion Images on Binaried Still Image, After-image Lag of Moving Object.

Specifications

Image Sensor: 1/4 type Super HAD CCD
Horizontal Resolution: 470 TV lines (Wide end)
Lens: 10x optical zoom, 4x digital zoom, f = 3.1 to 31, F1.8 to 2.9
Horizontal Angle of View: 6.6 to 65°
Minimum Object Distance: 100mm (Wide end), 600mm (Tele end)
Minimum Illumination: 3.5 lx (F1.8)

Auto Exposure: Auto/Manual/Priority AE, Exposure and Back-light compensation

Shutter Speed: 1/4 to 1/10,000

White Balance: Auto, ATW, Manual, One Push, 3200K, 5800K

S/N Ratio: Over 50 dB

Video Output: VBS, S-Video

Power Requirements: DC 10.8 to 13.0v

CPITVD100

Optional Telemetrics Desktop Control Panel

Combined with the EVI-D100 camera, the Telemetrics' controller is ideal for applications such as videoconferencing, distance learning, surveillance, conference and training rooms, courtrooms, houses of worship, internet communications and just about any application that requires a high-quality color video camera with the flexibility of remote pan/tilt/zoom operations.



- ◆ Proportional Joystick for control of pan/tilt functions
- ◆ Control up to four camera systems
- ◆ Six preset shot switches
- ◆ Local/Remote select
- ◆ Four Pan/Tilt camera select switches

BRC-300

3-CCD Pan/Tilt/Zoom Robotic Camera

Easily installed on a desktop or ceiling mounted using the supplied ceiling mount kit, the BRC-300 is a revolutionary all-in-one compact robotic color video camera system, specially designed for remote video shooting applications. It incorporates three 1/4.7-type Advanced HAD CCDs, that provide high-quality and high resolution images in both 4:3 and 16:9 modes. With its high-accuracy and wide-range Pan/Tilt/Zoom capability, the BRC-300 precisely captures the right points of the viewable area surrounding the camera to meet your needs. You can also easily operate the camera with the optional RM-BR300 Remote Control Unit, which is equipped with an ergonomic joystick, and feature-rich control panel. And when used with optional BRBK-303 Optical Multiplex Card and BRU-300 Optical Multiplex Unit, the BRC-300 is capable of being controlled from a long distance with a single fiber optic cable connection.

The BRC-300 also comes equipped with a card slot that accepts optional interface cards, enabling the camera to be integrated into every kind of system from S-Video to RGB, i.LINK DV interface, SDI or even fiber. In addition, two remote control interfaces (VISCA protocol) are available to provide additional expandability and flexibility for your remote shooting applications. With a number of convenient features such as its E:Flip function for desktop or ceiling mount flexibility, and its compact body, the BRC-300 is ideal for use in a wide range of remote shooting applications such as houses of worship, distance learning, corporate training, high-end videoconference, event shooting, and broadcasting.



FEATURES

Sony Pan/Tilt/Zoom Mechanism

- ◆ The BRC-300 covers a wide shooting range with its highly accurate Pan/Tilt mechanism. It has one of the widest ranges in its class: a pan range of 340°, and a tilt range of 120°. The 340° pan range can be covered in 8 seconds, while the 120° tilt range can be covered in 4.5 seconds.
- ◆ With its Pan/Tilt mechanism, the BRC-300 can capture not only fast moving objects, but also slow moving objects without vibration. What's more, the BRC-300 incorporates a 12x optical auto-focus zoom lens, allowing for a zoom capability of up to 48x when used in combination with its 4x digital zoom.
- ◆ Various camera settings such as pan, tilt, zoom, white balance, and focus can be preset in up to six presets per camera.

Superb Picture Quality

- ◆ Incorporates three advanced HAD CCD sensors with a total of 1,070,000 pixels to deliver outstanding picture quality with high resolution and accurate color reproduction. Using Sony's Advanced HAD technology the BRC-300 produces images with low noise, making it ideal for shooting in low illuminated environments or when shooting dark subjects.

Precision 16:9 Technology

- ◆ Captures images in both 4:3 and 16:9 aspect ratios, and with its 3-CCD technology, is able to achieve a wide angle of view in the 16:9 mode. And since in 16:9 mode many more pixels are used, the BRC-300 generates extremely high-resolution images as compared to conventional cameras.

Versatile Outputs

The BRC-300 has a card slot so it can be used with a range of versatile optional interface cards allowing for flexible analog and digital system configurations. Choose from the following interface cards to configure your individual requirements:

- Analog RGB/Component: BRBK-301
- SDI: BRBK-302
- DV i.LINK interface: BRBK-304
- Fiber Optic: BRBK-303 (for use in conjunction with BRU-300 Optical Multiplex Unit only)

Ceiling or Desktop

- ◆ Thanks to Sony's E:Flip function, the BRC-300 can be ceiling mounted (includes ceiling mount kit) or it can be used on the desktop.

BRC-300

Supplied Accessories

Basic camera settings such as Pan/Tilt/Zoom functions and six-preset patterns can be controlled from the supplied Multi-Function IR Remote Commander Unit

Optional Accessories

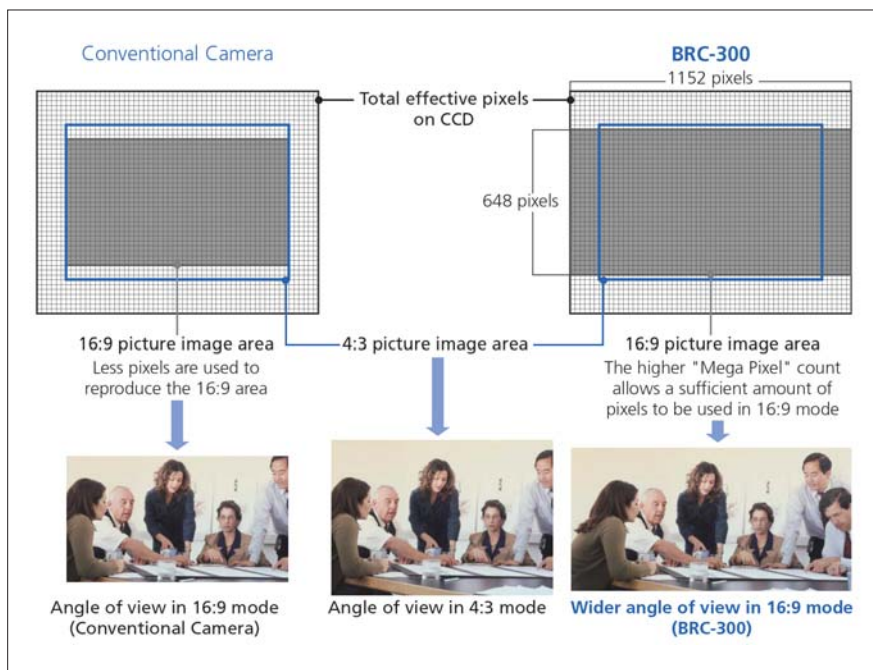
RM-BR300 Remote Control Unit:

- ◆ The RM-BR300 has an easy-to-use, ergonomic design that uses Sony's VISCA protocol to enable all local control, including Pan/Tilt/Zoom settings and up to six highly accurate programmed presets.
- ◆ Using the VISCA protocol, up to seven cameras can be daisy-chained and remotely controlled from the RM-BR300.
- ◆ Ergonomic joystick design and feature-rich control panel provide superb operability in various remote-shooting applications.

Optical Multiplex Unit (BRU-300):

- ◆ The BRU-300 receives and converts uncompressed digital raw data from the camera using the optional multiplex interface card into virtually any video output format.
- ◆ The unit has two built-in interface card slots and can be connected to the camera with a single fiber cable that extends up to 1,500 feet for easy installation. The BRU-300 also converts control data from the RM-BR300 to optical, and transmits the data to the camera.

BRC-300 (SOBRC300)	3,999.95
RM-BR300 (SORMBR300)	1149.95
BRU-300 (SOBRU300)	1689.95
Analog/RGB	
Component Card (SOBRBK301)	418.95
SDI Card (SOBRBK302)	824.95
Optical Multiplex Card (SOBRBK303)	749.95
DV I.LINK Interface Card (SOBRBK304)	824.95
Optical Fiber Cable (330') (SOCCFCM100)	649.95
RGB/Component, Y/C cable (SOCCMC9DSUS)	
9-pin D-sub	144.95
RGB/Component, VBS cable (SOCCXC9DD)	
9-pin D-sub	109.95
Weatherproof Housing (SOBRCDP12)	619.95



Specifications

Image Device: Three 1/4.7 type IT Advanced HAD CCD (x3), 1070000 pixels (gross)

CCD Effective Pixels:
4:3 mode: 960 (H) x 720 (V)
16:9 mode: 1152 (H) x 648 (V)

Effective Pixels: 768 (H) x 494 (V)

Horizontal Resolution: 600 TV lines (4:3 mode)

Sync System: Internal/External

Focal Length: f = 3.6 to 43.2 mm (F1.6 to F2.8)

Horizontal Viewing Angle:
4:3 mode: 3.3° (tele end) to 37.8° (wide end)
16:9 mode: 4.0° (tele end) to 45.4° (wide end)

Minimum Object Distance: 300mm (wide end), 800mm (tele end)



Minimum Illumination: 7 lx at F1.6

Pan/Tilt Angle: ±170° (pan), +90°/-30°(tilt)

Pan/Tilt Speed: 0.25°/sec to 60°/sec (pan/tilt)

S/N Ratio: More than 50dB

Shutter Speed: 1/10,000 to 1/4 sec.

Gain: Auto/Manual (-3 to 18 dB, 3 dB steps) switchable

White Balance: Auto, Indoor, Outdoor, One-push WB, Manual

Position Preset: 6 positions

Analog Output: VBS (BNC), S-Video

Camera Control: RS-232c (VISCA) / RS-422 (VISCA)

Back-light Compensation: On/Off

Power Requirement: 12v DC

