

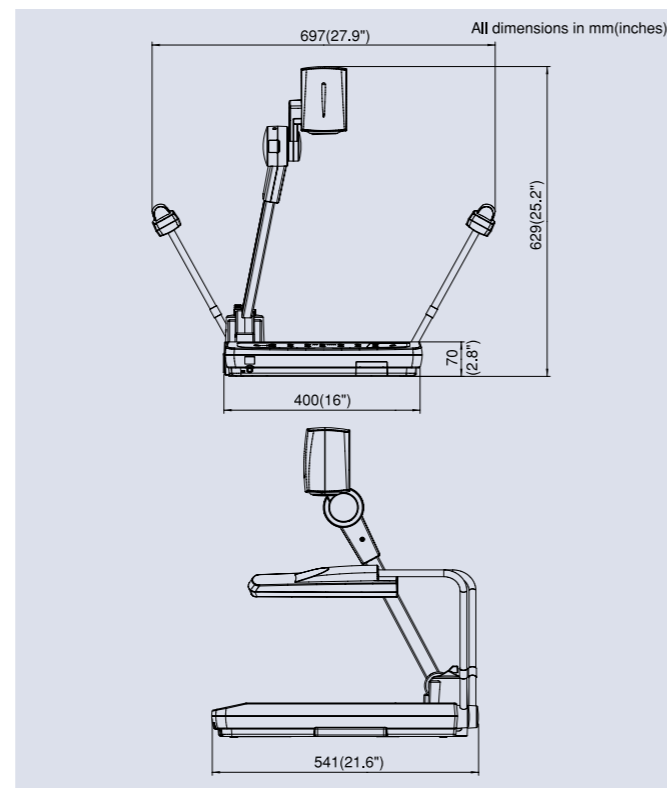
High-Resolution Visual Presenter HV-7100SX

SPECIFICATIONS

Power source	AC100-240V 50Hz/ 60Hz
Lens	F3.1 f=7.2-72mm (10x Zoom Lens)
Frame rate	15 frames/sec.
Shooting area	SXGA Max. 362 x 290mm (14.5" x 11.6") Min. 41 x 33mm (1.6" x 1.3") XGA Max. 380 x 285mm (15.2" x 11.4") Min. 43 x 32mm (1.7" x 1.3")
Limit of focus adjustment	From the stage surface to 100mm (3.9") above the stage surface
Zooming	Powered (with double speed function) 10x Optical, 2x Digital
Focusing	Auto/Manual
Iris	Auto (with level adjustment)/ Manual
Image pick-up element	1/1.8" progressive scan CCD
Total pixels	1688(H) x 1248(V)
Effective pixels	SXGA: 1525(H) x 1220(V) XGA: 1600(H) x 1200(V)
Sync. system	Internal
Resolution	Analog RGB output: more than 900(H) x 900(V) TV lines Video output: more than 470(H) TV lines
Analog RGB output	0.7V (P-P) 75Ω unbalanced, Synchronization signal, SXGA (negative polarity) XGA (positive polarity) Signal frequency SXGA: 63.981kHz(H) 60.020Hz(V) (1280 x 1024 @ 60Hz) Compliant with VESA XGA: 48.363kHz(H) 60.004Hz(V) (1024 x 768 @ 60Hz) Compliant with VESA
Composit video output	NTSC/PAL
S-Video output	NTSC/PAL
White balance	Full auto/ One-push/ Manual
Nega/Posi conversion	Provided
Color/B&W selection	Provided
Image rotation	Provided (0°/90°/180°/270°)
Gamma adjustment	Provided (1.0/ 0.9/ 0.8/ 0.7/ 0.6/ 0.5/ 0.4/ 0.3)
Aperture selection	Provided
Freeze (Pause) mode	Provided
Text mode (contrast)	Provided
Digital magnification	Provided (2x can be scrolled)
F.A.M. (Frame Accurate Mode)	Provided
Split screen display	Provided
Drawing function	Provided
Image memory	8 screens
User pre-set	8 settings
Pointer	Controllable with mouse (Color changeable)
Input selection	Main camera/ External Analog RGB input x 2
Output terminal	RGB output Mini Dsub 15 Pin connector, female x 1 Composite video output RCA Pin jack/ 75Ω unbalanced (NTSC/PAL) x 1 S-Video output Mini DIN 4 Pin connector/ 75Ω unbalanced (NTSC/ PAL) x 1 Audio output (stereo) RCA Pin jack/ applicable impedance 10kΩ or more - 10dB x 1 pair 12VDC Out Terminal Mini DIN 9P connector, female x 1
Input terminal	RGB input Mini Dsub 15 Pin connector, female x 2 Audio input (stereo) 500mV (rms) impedance 47kΩ or more Φ3.5mm stereo mini jack x 2 Microphone Input (monaural) Φ6.3mm jack/ applicable impedance 600Ω-65dB x 1
RS-232C control terminal	Dsub 9 Pin connector, female x 1
Mouse terminal	Mini DIN 6P connector x 1
USB terminal	Type B receptacle x 1
Ext. signal downconverter	Provided
Upper lighting unit	Provided, 6W florescent lamp x 2
Base light	Provided
Carrying handle	Provided
Dimensions	[Set-up] 697 (W) x 541 (D) x 629 (H) mm (27.9 x 21.6 x 25.2") [Folded] 400 (W) x 541 (D) x 197 (H) mm (16.0 x 21.6 x 7.9")
Weight	10 kgs (22 lbs)
Accessories	Power cord (2.5M) x 1 LCD monitor connection cable x 1 Video cable (RCA pin connector) (3M) x 1 S-Video cable (Mini DIN 4P connector) (2M) x 1 Infrared wireless remote controller (RCW-732) x 1 Batteries (Type R03, AAA) x 2 Analog RGB cable (DSUB 15P connector) (2M) x 1 Instruction manual for HV-7100SX x 1 Warranty card for HV-7100SX x 1 Scroll mouse x 1 USB cable (1.8M) x 1 Utility Software CD-ROM x 1 Utility Software Installation Manual x 1

NOTE: Design and specifications are subject to change without previous notice.
Dimensions and weight are approximate.
VESA is a registered trademark of Video Electronics Standards Association.
SXGA and XGA are trademarks or registered trademarks of International Business Machines Corporation.

PROFILE



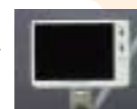
Optional Accessories

LM-5011N and MS-201 LCD monitor shoe

TFT LCD color monitor, handy for document positioning and confirmation of zoom and focus

Specifications

- Signal system / NTSC ● Backlight / cold-cathode fluorescent lamp ● Power-supply voltage / DC 12 to 15 V
 - Power consumption / 8 W (at DC 15 V)
 - Number of pixels / 140,400
 - Image input connectors / RCA pin jacks
 - Weight/400 g Dimensions / 109 mm (H) x 152 mm (W) x 31 mm (D)
- Also available in charcoal gray (identical with the HV-7100SX).



ICL-430 Infinite Conversion Lens

for distant image objects

ELMO CO., LTD. (Head Office and Factory)'s QMS/EMS has been registered to ISO 9001 & ISO 14001.

ELMO® ELMO CO., LTD. 6-14, Meizen-cho, Mizuho-ku, Nagoya, 467-8567, Japan
E-Mail: foreign-div@elmo.co.jp

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Additional technical information is available from any of the following subsidiary companies:

ELMO Mfg. Corp.

1478 Old Country Road,
Plainview, NY 11803-5034, U.S.A.
Tel. 516-501-1400 Fax. 516-501-0429
E-mail: elmo@elmousa.com
Web: http://www.elmousa.com

ELMO (Europe) G.m.b.H.

Neanderstr 18,
40233 Düsseldorf, Germany
Tel. 0211-376051-53 Fax. 0211-376630
E-mail: elmoeurope@AOL.com
Web: http://www.elmo.de

ELMO Canada Mfg. Corp.

44 West Drive, Brampton,
Ontario, L6T 3T6, Canada
Tel. 905-453-7880 Fax. 905-453-2391
E-mail: info@elmocanada.com
Web: http://www.elmocanada.com

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ELMO®

High-Resolution Visual Presenter HV-7100SX

Amazing Image Quality and Crystal-clear Performance from 2.1 Megapixel CCD

Progressive Scan CCD
SXGA
2.1 mega pixels



ELMO®
Visualizing technology since 1921

**An Industry First
2.1 Megapixel CCD and SXGA output
Married with the distinguished Lens performance
and Image-processing Achieve
a New Generation of Ultra- High Image
quality.**



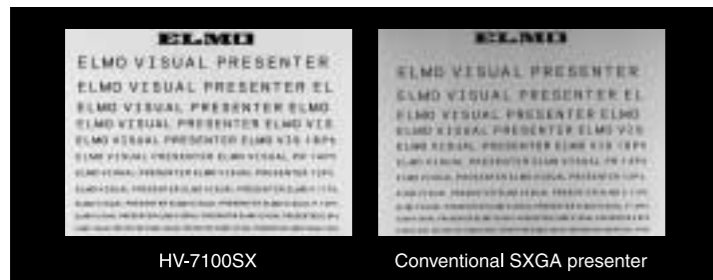
2.1 Megapixel CCD Creates Unheard-of 900 x 900 TV Lines.

Featuring a 2.1 megapixel progressive scan CCD, with its performance focused on SXGA (1,280 x 1,024) resolution, images of ultra-high crispness and clarity are produced. Resolution achieving unheard of levels comparable to more than 900(H) x 900(V) TV Lines (Broadcast video Resolution).



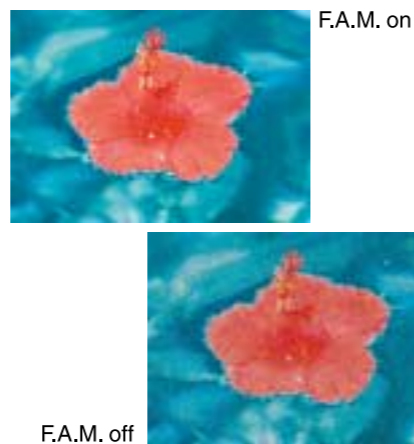
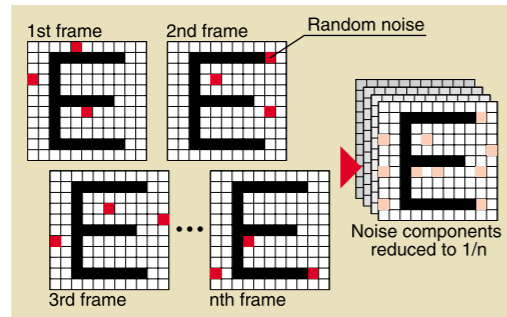
ELMO Image-Processing Engine (E.I.P.E.) Reproduces True Colors with Rich Gradations

A new CCD pixel-interpolation circuit algorithm used in the ELMO Image-Processing Engine reduces the conspicuous over-saturated colors and jaggedness along image/text edges. Interdependently with the enormous 2.1 megapixels data, text or even the filaments within a butterfly's wing are reproduced in true colors and with rich gradations.



F.A.M. for Super High-definition Still-Image Capture

Most documents are viewed in a still-image mode. By accumulating several images of the same document digitally in a fraction of a second, the F.A.M. (Frame Accumulate Mode) instantly reduces any artifacts or roughness within the image due to random noise.



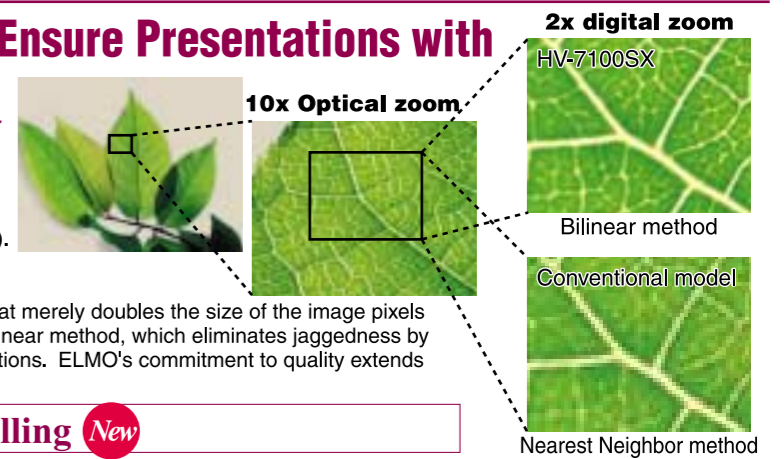
Ample Zoom of up to 20x Helps Ensure Presentations with Plenty of Optical Zoom Power

10x Optical Zoom

ELMO's wide-ranging optical R&D technological experience has created a 10x optical zoom that takes the reflected light from an object or document and delivers it unaltered to the imager (CCD).

2x Digital Zoom

Compared to the 2x zoom function of conventional presenters that merely doubles the size of the image pixels using the nearest-neighbor method, the HV-7100SX uses the bilinear method, which eliminates jaggedness by using the data values for neighboring pixels to smooth out gradations. ELMO's commitment to quality extends even to 2x digitally zoomed images.



Highlighted Zoom Window and Scrolling New

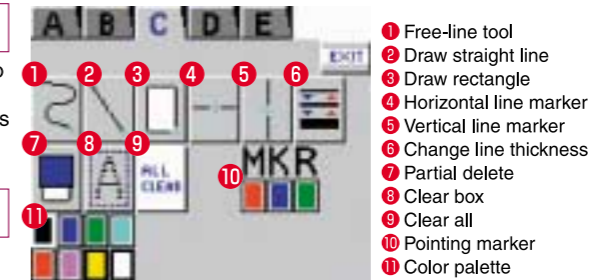
The new "Highlighted Zoom Window" feature lets you highlight (Brighten) a specific area within the picture displayed on screen in order to draw attention to it for discussion with your audience. By using the 2x magnification feature in this mode you are also able to pan and scroll through the area you highlighted.



"More Than Just One Way to Display" -- A Rich Array of Versatile Tools That Make Presentations Even More Entertaining

Drawing Tools New

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.



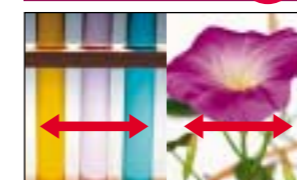
Pointing Marker New

You can use color selectable arrows to indicate up to three points that you want to emphasize. 10

Image Memory

You can save up to eight 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.)

Split Screen New



Live image Image in memory
Both the live image and the image in memory can be independently scrolled horizontally.

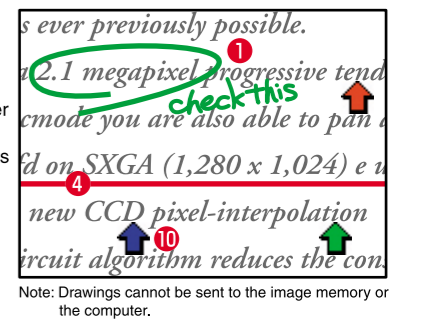
Say, for example, that you are giving an elementary-school science demonstration investigating the properties of aqueous solutions (acidic, neutral, or alkaline). Adding an acidic or alkaline aqueous solution to a flower pigment produces the beautiful colors. Using the split-screen feature, you can display the image of the flower used as the material (an image stored in memory) and the results of the demonstration (the live image) simultaneously. This lets you give your students a lesson that is even more fun and easier to understand.

Computer Connection Kit As Standard Equipment

The included Utility Software CD-ROM includes the Image Mate computer-capture program and a TWAIN driver permitting capture with commercially available font-retouching programs as standard features. (The software runs under Windows 98/Me/2000/XP.) A connection cable is also included.

Other Convenient Features

On-Screen Display	White Balance (Auto/ One-Push/ Manual)	Color/ B&W selection
Text mode (Contrast)	Image Rotation	Down-converter for Main Camera & RGB Inputs
Gamma Adjustment (8 Levels)	Freeze (Pause)	RS-232C port
Aperture Selection	Nega/ Posi Conversion	



Note: Drawings cannot be sent to the image memory or the computer.