

ELMO's New Visual Presenter



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Interactive Document Camera

TT-12i

The Essential Teaching Tool for the Interactive Classroom! Larger, clearer, more beautiful...

More flexible!

Easily Connect to an Interactive Whiteboard

USB Camera Function

By simply connecting to a computer via USB, the TT-12i functions as a USB camera. As no official software is required, the connection with external devices, such as an interactive whiteboard, has improved the broad utility.

View Material from Various Angles

300° Rotation

The rotating camera head turns 300 degrees allowing projection from various angles.

Easy operation with one hand



Larger!

Magnify With Clarity

Optical Zoom **12X** × Digital Zoom **8X** = **96X**

When the TT-12i's high-magnification 12X optical zoom is combined with its 8X digital zoom, images can be enlarged up to 96 times for a clear, distortion-free display of even the tiniest details.



With a Large Shooting Area, Various Teaching Materials Can Be Displayed at Once.
Maximum shooting area of 420mm x 334mm (at SXGA)

More beautiful and easier than ever!

High Definition Images (1080p)

3.4 million pixels CMOS sensor

The TT-12i's megapixel image sensor captures everything from small text to three-dimensional objects in 1080p full HD.

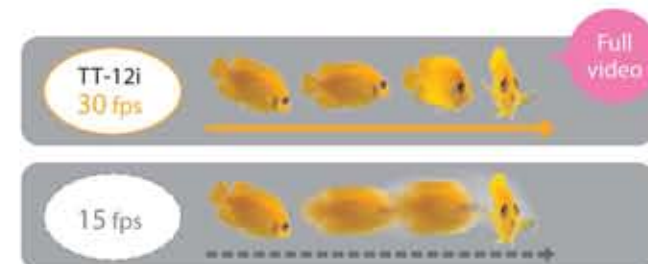
Excellent Color Reproduction

The TT-12i's exact color reproduction is visually engaging for students and enhances the learning experience.

Reproduces Smooth Motion

Full video (30 frames / sec.)

The TT-12i captures and reproduces moving images at 30fps (frames per second) for the display of truly smooth, natural motion.



Connect with Only One Cable

Equipped with high definition HDMI terminal

With just one cable, you can send high-definition images and audio to a projector or a monitor.



Easy Control at Your Fingertips

Zoom dial and one push AF button (Auto focus with one push)

A simple turn of the zoom dial is all that is needed to zoom in, zoom out and make fine zoom adjustments. For added ease of use, the AF (Auto Focus) button enables easy one-touch auto focusing.



More convenient!

Save Classroom Presentations on External Memory

Save on SD card or USB flash drive

The TT-12i allows still images (jpg) and audio video files (mp4) to be saved on an SD Memory Card or USB flash drive for future use.



Audio Input & Output

Built-in microphone and external audio input

With TT-12i, audio enhancement can be added to classroom presentations via the built-in microphone or an external microphone input (Mic In/Line In). The audio output can be routed to the external HDMI or audio line out port.



Easily Project Microscope Images

Microscope Attachment Lens (sold separately)

Simply attach the microscope attachment lens (sold separately) to a microscope and the TT-12i to view live microscopic images (e.g., slide specimens) enlarged on a screen or monitor.



Control from Anywhere in the Classroom

Wireless Remote Control

Anti-Slip

With improved non-slip rubber grip



Interactive Classroom ELMO Classroom Solutions

ELMO Student Response System



Create an Exciting and Interactive Learning Environment

ELMO Student Response System

CRV-24 / CRV-32
Engage student participation with ELMO's Student Response System



Wireless Tablet

CRA-1
Annotate presentations and lessons with ELMO's Wireless Tablet



System Configuration



Split Screen Show a still image and a live image simultaneously.	Highlight Draw attention to a particular section of an image.	Mask Hide a selected part of an image from view.
Mosaic Images can display a mosaic-like effect.	Picture-in-Picture Display a quarter-size still image along with a live image.	Color Filter Blacken specific colored parts of an image.

Major Specification

CODE: 1341

Power/Power consumption	DC12V (AC adapter AC100 – 240V) / 16.2W		Gamma setting	Provided (Only for color document1 mode)
Image sensor	1/2.8 inch CMOS		Image mode	Text(1 / 2 / 3) / Colored doc.1 / Colored doc.2
Frame rate	30 fps		Still image storage	Provided
Total pixels	Horizontal 2,144, Vertical 1,588...Approx.34,000,000 pixels		Pause	Provided
Effective pixels	Horizontal 1,920, Vertical 1,536			
Lens	f=4.0mm – 48.0mm (12x zoom) F3.2 – F3.6		Video storage	Provided
Shooting area	SXGA	Max.420mm×334mm Min.48.5mm×38.5mm	Image rotation	0° / 180°
	WXGA	Max.420mm×259mm Min.48.5mm×30.5mm	Illumination lamp	White LED
	XGA	Max.420mm×313mm Min.48.5mm×36.5mm	Input selection	Main / External
	1080p	Max.420mm×233mm Min.48.5mm×27.5mm	USB camera function	Provided (USB Video Class Supported)
Focus adjustment range	Lens	50mm – ∞ (Less than f=23.4mm)	Output terminals	RGB output mini-Dsub 15P connector female × 1
	from the edge	200mm – ∞ (f=23.4mm or more)		Composite video output RCA pin jack / 75Ω Unbalanced × 1
Zoom	Optical 12X/Digital 8X		HDMI output terminal	Line output terminal φ 3.5mm Stereo mini jack×1
Focus	Auto/One-push/Zoom interlocked		Input terminals	RGB input mini-Dsub 15P connector female × 1
Brightness control	Auto/Manual (level adjustable)			Microphone input/Line input φ 3.5mm Stereo mini jack × 1
Resolution	Analog RGB	Horizontal/vertical 800TV or more	Ext. control	USB device(2.0 compliant) TypeA miniB Receptacle × 1
	Video output	Horizontal/500TV or more	Memory interface	SD card slot × 1
Image output	SXGA, WXGA, XGA, 1080p, 720p, Composite video			USB host (2.0 compliant) TypeA Receptacle × 1
HDMI output	Image output	1080p, 720p	Dimensions	W355mm × D373.5mm × H426.5mm (setup)
	Audio output	PCM 44.1kHz Sampling		W195mm × D294mm × H469mm (folded)
Video output	NTSC/PAL Compliant		Weight	App.3.2kg (main unit only)
White balance	Auto/One-push/Manual		Accessories	AC adapter, Power cord, Analog RGB cable, USB cable, Instruction manual/Image Mate CD-ROM, Image Mate Installation manual, Infrared wireless remote control, AAA battery, Easy start-up guide, warranty sheet
Flicker correction	60Hz/50Hz			
Positive/Negative conversion	Provided			
Color/B&W selection	Provided			
Highlight mask	Provided (Only for color document1 mode)			

Optional Accessories



Microscope attachment lens

CODE 1332



Stage

CODE 1345

LET'S Start ICT in Education with "Document Camera"!

<http://www.elmoglobal.com>

Visit the ELMO global website to understand what a document camera is in 13 different languages. The ELMO global website introduces you to the useful and effective ways of using the document camera and how the ELMO document camera is used and supported by teachers worldwide.

ELMO's Helping to Provide a Greener Future for Our Children

This ELMO product complies with RoHS Directive 2002/95/EC (Restriction Of the use of certain Hazardous Substances in electronic equipment). This compliance helps to ensure a healthier and greener environment for all our children.



ELMO CO., LTD. is one of the sponsors for Japan Committee Vaccines for the World's Children (JCV).

JCV operates under basic guidelines and objectives of the Children's Vaccine Initiative (CVI) founded in 1990 by UNICEF, WHO, UNDP, the Rockefeller Foundation, and the World Bank.

ISO 9001
ISO 14001

ELMO CO., LTD. (Head Office and Factory)'s EMS-EMS has been registered to ISO 9001:2008 and 14001:2004.



Read the "Instruction Manual" carefully before using the projector.

Do not place this product in locations subject to water, humidity, vapor, dust, oil, smoke, etc. as it may cause fire, electric shock, or damage to this unit.

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