■ Major Specification

CODE: 1349				
Power/ Power consumption	DC 12V (AC adapter AC100-240V) /16.2W		Highlight mask	Provided(Only for color document 1 mode)
			Gamma setting	Provided(Only for color document 1 mode)
Image sensor	1/2.8 inch CMOS		Image mode	Text(1/2/3)/Colored doc.1/Colored doc.2
Frame rate	30fps		Still image storage	Provided
Total pixels	Horizontal 2,144, Vertical 1,588Approx 3,400,000 pixels.		Pause	Provided
Effective pixels	Horizontal 1,920, Vertical 1,536,		Video storage	Provided
Lens	f=4.0mm-48.0mm(12x zoom) F3.2-3.6		Image rotation	0°/180°
Shooting area	SXGA	Max.420mm x 334mm Min.48.5mm x 38.5mm	Illumination lamp	White LED
	WXGA	Max.420mm x 259mm Min.48.5mm x 30.5mm	Input selection	Main/External
	XGA	Max.420mm x 313mm Min.48.5mm x 36.5mm	USB camera function	Provided(USB Video Class Supported)
	1080p	Max.420mm x 233mm Min.48.5mm x 27.5mm	Output terminals	RGB output mini-Dsub 15P connector female x 1
	720p	Max.420mm x 233mm Min.48.5mm x 27.5mm		HDMI output terminal x 1
Focus adjustment range	Lens from the edge	50mm - ∞ (f=23.4mm or more)		Line output terminal φ3.5mm Stereo mini jack x 1
		200mm - ∞(f=23.4mm or more)		RGB input mini-Dsub 15Pconnector female x 1
Zoom	Optical 12x , Digital 8x		Input terminals	HDMI input terminal x 1
Focus	Auto/One-push/Zoom interlocked			Microphone input/Line input φ3.5mm Stereo mini jack x 1
Brightness control	Auto/Manual(level adjustable)		Ext. control	USB device(2.0 compliant) Type Mini B Receptacle x 1
Resolution	Analog RGB Horizontal/Vertical 800TV or more SXGA,WXGA,XGA,1080p,720p Memory interfa		M	SD card slot x 1
Image output			Memory Interrace	USB host(2.0 compliant) TypeA Receptacle x 1
HDMI output	Image output 1080p,720p Audio output PCM 44.1kHz Sampling		- Dimensions	W355mm x D373.5mm x H426.5mm(setup)
				W195mm x D294mm x H469mm(folded)
White balance	Auto/One-push/Manual		Weight	Approx.3.2kg(main unit only)
Flicker correction	60Hz/50Hz		Accessories	AC adapter,Power cord,USB cable,Instruction manual, Image Mate CD-ROM,Infrared wireless remote control, AAA battery,Easy start-up guide,warranty sheet
Positive/ Negative conversion	Provided			
Color/B&W selection	Provided			

Optional Accessories



Microscope attachment lens



Stage CODE 1345



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







CODE: 1340

ELMO CO., LTD. (Head Office and Factory)'s QMS/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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ELMO's New Visual Presenter

Interactive Document Camera

TT-12@

The essential teaching tool for the interactive classroom has evolved.

More beautiful and easier than ever!

High Definition Images(1080p)

3.4 million pixels CMOS sensor & HDMI output

The high resolution sensor of the TT-12iD allows you to show small letters and 3-D objects in Full HD (1080p) resolution via HDMI.

Excellent Color Reproduction

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

More convenient!

Save Classroom Presentations on External Memory

Save on SD card or USB flash drive

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





HDMI external input selection



HDMI & Analog RGB switcher

In addition to the superb image quality and easy-to-use functions, the new TT-12iD is now equipped with the HDMI input. With the independent built-in switchers, the external image input to the HDMI input is output from the HDMI output and the external image input to the Analog RGB input is output from the Analog RGB output.

Audio input & Output

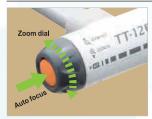
Built-in microphone and external audio input

With TT-12iD, 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.





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.

Easily Connect to an Interactive Whiteboard

USB Camera Function

By simply connecting to a computer via USB, the TT-12iD 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.

Easily Project Microscope Images

Microscope Attachment Lens(sold separately)

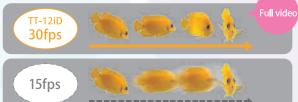
Simply attach the microscope attachment lens (sold separately) to a microscope and the TT-12iD to view live microscopic images (e.g., slide specimens) enlarged on a screen or monitor.





Reproduces Smooth Motion

Full video (30 frames/sec.)



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

Control from Anywhere in the Classroom

Wireless Remote Control

Anti-Slip With improved non-slip

rubber grip

Larger!

Magnify With Clarity

When the TT-12iD'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.









Maximum shooting area of 420mm x 334mm(at SXGA)

More flexible!

View Material from Various Angles

300° Rotation

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





Save your movies and photos to your computer

Imagemate Software (supplied)

By using the supplied Imagemate Software you can view the live image from the TT-12iD on your computer and save images and videos.

Live image display

To display the live image from the TT-12iD on your computer.

Normal recording

To record the live image of the TT-12iD as a video. The audio from the microphone connected to your computer can also be recorded.

Long time recording

The TT-12iD can record at set intervals. Choose between recording video or images. The audio of your computer cannot be recorded.

Annotation too

You can annotate on content captured by the TT-12iD.