### Major Specification

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power</strong></td>
<td><strong>DC 12V AC adapter AC100-240V/16,2W</strong></td>
</tr>
<tr>
<td><strong>Power consumption</strong></td>
<td><strong>9W</strong></td>
</tr>
<tr>
<td><strong>Image sensor</strong></td>
<td><strong>1/2.7 inch CMOS</strong></td>
</tr>
<tr>
<td><strong>Frame rate</strong></td>
<td><strong>25fps</strong></td>
</tr>
<tr>
<td><strong>Total pixels</strong></td>
<td><strong>Horizontal: 1,293, Vertical: 988. Approx. 3,600,000 pixels.</strong></td>
</tr>
<tr>
<td><strong>Effective pixels</strong></td>
<td><strong>Horizontal: 1,293, Vertical: 936.</strong></td>
</tr>
<tr>
<td><strong>Wide</strong></td>
<td><strong>4.6mm to 1.54mm, 12x zoom, F2.0-2.9</strong></td>
</tr>
<tr>
<td><strong>Shooting area</strong></td>
<td><strong>BGA: Max 4.20cm x 6.33cm Min 0.85cm x 0.85cm. ARGA: Max 2.9cm x 4.32cm Min 0.6cm x 0.6cm.</strong></td>
</tr>
<tr>
<td><strong>Focusing</strong></td>
<td><strong>40cm - 27cm.</strong></td>
</tr>
<tr>
<td><strong>Zoom</strong></td>
<td><strong>Optical 12x, Digital 8x</strong></td>
</tr>
<tr>
<td><strong>White balance</strong></td>
<td><strong>Auto/One-push/Manual</strong></td>
</tr>
<tr>
<td><strong>Power correction</strong></td>
<td><strong>50Hz/50Hz</strong></td>
</tr>
<tr>
<td><strong>Optional accessories</strong></td>
<td><strong>Microscope attachment lens</strong></td>
</tr>
</tbody>
</table>

### Optional Accessories

- Microscope attachment lens
- Stage

### LET'S Start ICT with Document Camera

Visit the ELMO global website to understand what each document camera is in 19 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 New Visual Presenter

This ELMO product complies with RoHS Directive 2002/95/EC. Restriction of the use of certain hazardous substances in electrical equipment. This compliance helps to ensure a healthier and greener environment for all children.

### CAUTION

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

- Do not place the projector in locations subject to water, humidity, sap, dust, sun, etc., as it may cause fire, electric shock, or damage to the unit.

**ELMO CO., LTD.**

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- **Website:** http://www.elmo.co.jp

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- **Headquarters:** 1478 Old Country Road, Westport, CT 06880, USA
- **Website:** http://www.elmousa.com

**ELMO Europe SAS**

- **Headquarters:** 15 Rue du Mont-Valérien, 92100 Boulogne-Billancourt, France
- **Website:** http://www.elmo-europe.fr

**Distributed by**

- **Forma**
- **JVC**
- **Canon**

**ISO 9001**

This ELMO product complies with ISO 9001:2000. The quality management system of the product is implemented according to the quality management system standard. This quality management system is implemented at all stages of the product's lifecycle from raw materials to design, production, and after-sales service.
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

Excellent Color Reproduction
The TT-121D's exact color reproduction is visually engaging for students and enhances the learning experience.

HDMI external input selection
HDMI & Analog RGB switcher
In addition to the superb image quality and easy-to-use functions, the new TT-121D 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.

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.

Reproduces Smooth Motion
Full video (30 frames/sec.)
The TT-121D captures and reproduces moving images at 30fps (frames per second) for the display of truly smooth, natural motion.

Larger!
Magnify With Clarity
When the TT-121D'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.

More convenient!

Save Classroom Presentations on External Memory
Save on SD card or USB flash drive
The TT-121D 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.

Audio input & Output
Built-in microphone and external audio input
With TT-121D, audio enhancement can be added to classroon 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 Connect to an Interactive Whiteboard
USB Camera Function
By simply connecting to a computer via USB, the TT-121D 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-121D 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

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
Imagemat Software (supplied)
By using the supplied Imagemat Software you can view the live image from the TT-121D on your computer and save images and videos.

Live Image Display
To display the live image from the TT-121D on your computer.

Record Function
To record the live image of the TT-121D as a video. The audio from the microphone connected to your computer can also be recorded.

Long time recording
The TT-121D can record at 512 MB/s. Choose between recording video or images. The audio of your computer cannot be recorded.

Annotation tool
You can annotate on content captured by the TT-121D.