

INSTRUCTION MANUAL

Image Mate 4

Please read this instruction manual carefully before using this product.

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INTRODUCTION

GREETING

Thank you for purchasing ELMO Document Camera. This manual will guide you through using Image Mate 4, the Document Camera controller software. Please read this manual carefully before using Image Mate 4.

NOTE

- The sample screens shown in this manual may differ from those you see while using the software.
- •For the latest instruction manual, installation manual and firmware information, go to the ELMO web site.
- •When using Image Mate 4, be sure to refer to the instruction manual supplied with the Document Camera.
- •Depending on the OS, Image Mate 4 may not display the correct fonts.
- •This software can only be used with our document camera.

(Cannot be used with other companies' document cameras)

INSTALLING / UNINSTALLING

INSTALLING

1. Go to Elmo official website.

http://www.elmousa.com/ http://elmoeurope.com/en/html/download/02.php

- 2. Select "Image Mate 4".
- 3. Click "Download" and read the "Precautions on the handling of the downloaded data". Click "Agree".
- 4. Downloading will start after a short while.
- * If you cannot find the downloaded file, check the download folder of your computer.
- 5. Run "ImageMate4Setup.msi" after the downloading is completed. Follow the instructions displayed in the installation window of Image Mate 4.
- 6. The icons [[] will be created on the desktop after the installation is completed.

OUNINSTALLING

To remove Ima					menu"	and	go to	"Settings" -	-
"System"-"Ap	ps & features	″, and uninst	tall Image I	Mate 4.					

Image Mate 4

STARTING IMAGE MATE 4

Start Image Mate 4 from a shortcut [IM] on the desktop.

Select the desired camera to display by the following procedure.

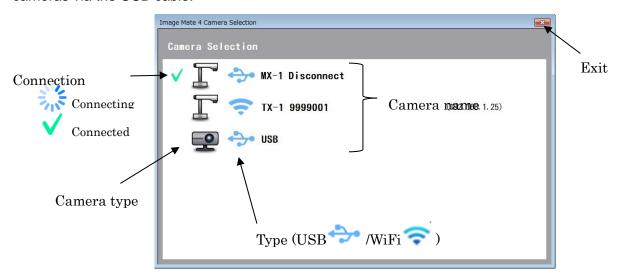
*The camera will not be recognized when it is not turned on. Connect the camera to a running computer via the USB cable (bus power).

- CAUTION

Image Mate 4 may not start if the USB cable is connected before starting Image Mate 4. Start Image Mate 4 before connecting the camera via the supplied USB cable.

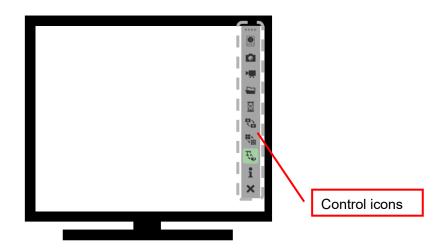
●HOW TO SELECT THE CAMERA

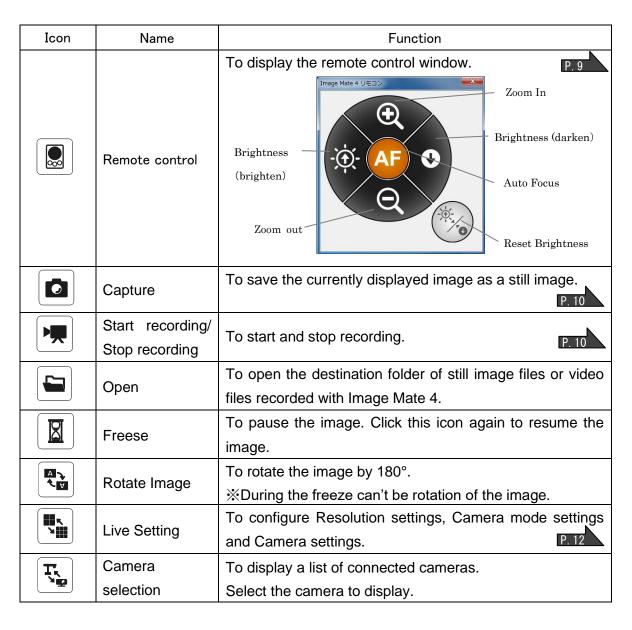
- The live image of the camera appears after Image Mate 4 is started when the Document Camera is connected to a computer via the USB cable.
- The following Camera Selection window appears when a computer is connected to several cameras via the USB cable.

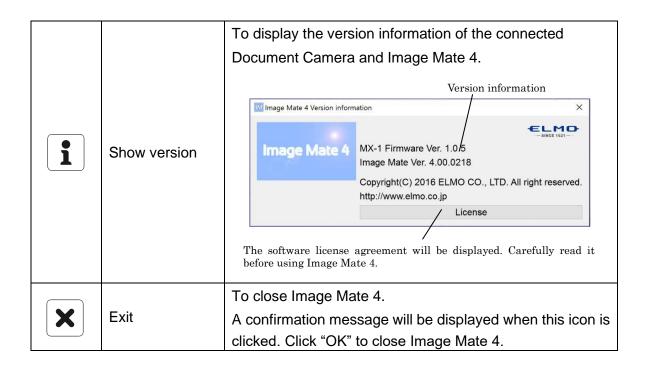


- <Connection procedure>
- ①Click the selected camera name.
- ②The connection status changes to "Connecting" [].
- ③The connection status changesto "Connected" [] after the connection is established.
 - *The software will cancel the selection and start to connect to the other selected camera if the camera name of the other camera is selected after the connection is established.
 - *The connection will be disconnected if [] is pressed
- 4 The camera selection window disappears and the live image of the camera appears.

The live image of the camera is displayed when Image Mate 4 is started.



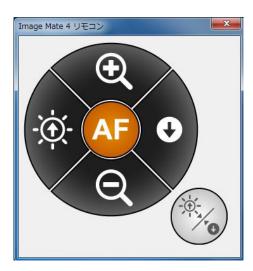




REMOTE CONTROL WINDOW

You can control the Document Camera from the remote control window.

- •Each function can be operated by pressing respective buttons.
- •The remote control window can be moved by dragging.



Button	Name	Function
AF	Auto Focus	To focus automatically.
•	Zoom in	To enlarge the image.
Q	Zoom out	To shrink the image.
÷.	Brightness (brighten)	To brighten the image.
0	Brightness (darken)	To darken the image.
	Reset Brightness	To return the brightness setting to factory default setting.

CAPTURING A STILL IMAGE / VIEWING A STILL IMAGE

•CAPTURING A STILL IMAGE

The currently displayed image can becaptured and saved as a still image.

Astill image of the currently displayed image will be captured when [] is pressed.

The captured still image will be saved in a folder.

•VIEWING A STILL IMAGE

- 1.Click [| 📥 |] in the menu to open the destination folder.
- 2.Double-click astill image file to view it.

RECORDING VIDEO / VIEWING VIDEO

•RECORDINGVIDEO

The currently displayed image of the Document Camera can be recorded and saved as a video file. When a microphone is connected to a computer, you can also record audio. Recording of the currently displayed image will be started when [] is pressed. The recorded video filewill be saved in a folder.

*There are some limitations on saving the recorded video file in a folder.

Resolution		Live video	Recording	
ne	esolution	streaming	resolution	
4:3	3M	2048x1536 30fps	1280x960 30fps	
	13M	4160x3120 21fps	1280x960 30fps	
16:9	720P	1280×720 60fps	1280×720 60fps	
	1080P	1920x1080 30fps	1280×720 30fps	
		1920×1080 60fps	1280×720 60fps	
	4K	3840x2160 30fps	1280x720 30fps	

CAUTION

- Recording may not be performed correctly depending on the performance of your computer or the network condition.
- The resolution will be changed according to the recording resolution during recording.
- The performance may be degraded when connecting with the USB2.0.

*The Start recording icon [] changes to the Stop recording icon during recording.

You can stop recording by pressing the Stop recording icon.



This icon appears during video recording.

The color of this icon changes between red and white during video recording.

•VIEWING VIDEO (SAME DESTINATION FOLDER AS A STILL IMAGE)

1.Click [igg| igg| in the menu to open the destination folder.

2.Double-click a video file to view it.



- Depending on the performance of your computer or type of the file, you may not be able to view the captured still image or recorded video correctly.
- Depending on the playback environment, some video files recorded by Image Mate 4 may not be played back.
- The recording time may differ from the created video time.

Image Mate 4 Live settings Resolution Settings Camera Settings Resolution Auto 1080P - 1920x1080 -Brightness Frame rate Contrast 12 30fps **‡** Hue 0 Image format Saturation 10 MJPG Sharpness 10 Gamma Apply White Balance 6500 ☑ Camera Mode 100 Focus Color mode Exposure **-4** ✓ Normal Noise reduction ○ Gray Power Line Frequency ○ 50Hz ● 60Hz \bigcirc Negative Backlight compensation \bigcirc On \bigcirc Off O Black and White Low light compensation \bigcirc On \bigcirc Off Scene mode Anti-flicker ○ On ● Off Normal Default \bigcirc Document Priority Mode O Binned Resized

Resolution Settings, Camera Mode settings and Camera Settings can be configured.

*The image shows the initial settings. (USB3.0)

Resolution Settings

Item	Setting	Frame rate		Description
	value	USB3.0	USB2.0	
Resolution/	VGA	30fps	30fps	1
Framerate	XGA	30fps	30fps	The image quality increasesin the
	720p	60fps	30fps	order as indicated bythe arrow, while
		30fps	Sulps	the network load also increases. Asthe
	QVGA	30fps	30fps	network loadincreases, the image
	1080p	60fps	205	distortion tends to occur, preventing
		30fps	30fps	smooth video playback.
	3.0M	30fps	18fps	
	4K	30fps		These settings are not available
	13.0M	21fps		when connecting with the USB2.0.

*The available frame rate varies depending on the selected resolution.

Image format	MJPG	The image format of the MX-1 is MJPG.
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Camera Mode

Item	Setting value	Description
Color mode	Normal	To display the image in color.
	Gray	To display the background in blackandthe light color in gray.
	Negative	The brightness or darkness of the image and the color of the image
		will be reversed.
	B&W	To display the image in black and white.

Scene mode	Normal	To clearly display photos or documents with color.
	Document	To clearly display text documents.
Priority mode	Binned	The speed takes precedence over image quality.
	Resized	The image quality takes precedence over speed.

●Camera Settings

Item	Setting range	Description
Brightness	0~12	To adjust the brightness. It does not follow the brightness of the shooting environment.
Contrast	0~20	To adjust the level of contrast of texts and lines.
Hue	-180~180	To adjust the color tone of the image.
Saturation	0~31	To adjust the saturation of the image.
Sharpness	5∼15	To adjust the clarity of the image.
Gamma	100~200	To adjust the image characteristics of the input/output devices. Adjust the value according to your preference.
White Balance	2000~8000	To adjust the level of red color and blue color in the image manually.
Focus **	I 100∼3000	To adjust the focus.
Exposure *	1 -10~1	To adjust the exposure level. ightharpoonup In the check box of "Auto", the above brightness setting will be disabled.
Noise reduction	1 0~10	To adjust the level of noise reduction.
Power Line	50Hz	When you notice a light flickering, set this value
Frequency	60Hz	same as the power frequency of your area.
Backlight	On	To prevent the object in the center of the image from
compensation	Off	becoming dark when there is a strong backlight behind the object.
Low lig	On	When this setting is set to On, the camera automatically selects the appropriate brightness for
compensation	Off	the shooting in dark environment or in an environment where the brightness changes abruptly.
Anti flinker	On	To reduce the flickering in the image by adjusting the
Anti-flicker	Off	brightness.

- ※1 If you remove the tick from the check box of "Auto" □at the right of the setting items, you can set the value as you wish.
- * The Camera mode settings and Camera settings will be initialized when the Default button is pressed.

SYSTEM REQUIREMENT

Your computer must meet the following requirements to use Image Mate 4.

os	Windows 8.1 (32 / 64bit)
	Windows 10 (32 / 64bit)
CPU	Intel Core i5 2GHz more(4K)
	Intel Core i3(2K)
RAM	2GB more
Resolution	1024 x 768 more
USB	USB 3.0
Compatible Document	P30HD / P100HD / P10HD / MO-1 / MO-1w /
Camera	L-12 / TT-12 / L-12i / TT-12i / L-12iD / TT-12iD / L-12tx /
	TT-X1 / TT-L1 / TX-1 / LX-1/ MX-1/ MX-P/ PX-10E /
	PX-30E / MO-2 / MA-1 / MX-P2 / OX-1 / L-12F / L-12W /
	MX-P3
	※PX-10E / PX-30E does not support UAC
	※Optoma / Aver / HoverCam / IPEVO / Lumens are
	non-compliant manufacturers. Can't connect.

If your computer does not meet the system requirements or depending on the
 Note
 performance of your computer, the frame rate during the live video streaming or recording may decrease.

TROUBLE SHOOTING

BEFORE CONTACTING SUPPORT

Symptom	The following message appears. The following message appears
Cause	The USB cable is disconnected.
Remedy	Remove the USB cable and connect again. If the problem still persists, restart Image Mate 4.

Symptom	There is a delay or decrease in the frame rate.
	Close all other applications on your computer.
Remedy	If you have not updated your Windows, update it immediately to keep your
	Windows up-to-date. This may improve the problem.

Symptom	Video recording cannot be performed properly.
Remedy	Video recording may not be possible if your computer does not meet the
	system requirements.

Symptom	There is a distortion in the Live image.
Remedy	The image distortion can be reduced by decreasing the resolution and frame rate. If you are using a 32bit computer, you may not be able to achieve the full performance when the resolution is set to high such as 4K and 13K. Decreasing the resolution or using a 64bit computer may improve the problem.

Symptom	4K video images cannot be displayed.
Remedy	Verify that your system meets the following requirements:
	Processor : Intel® Core i7 or higher
	Memory: 16GB
	Graphic board : GeForce GTX750 or higher

Symptom	Image Mate 4 does not start.
Remedy	Image Mate 4 may not start if the USB cable is connected before starting
	a computer.
	Start Image Mate 4 before connecting the USB cable.

REFERENCE

DISCLAIMER

The contents of this manual and Image Mate 4 are subject to change without prior notice.

Our software may not function as intended due to compatibility issues with the peripheral devices and existing software installed in your computer.

ELMO Co., Ltd. cannot be held responsible for either direct or indirect damages suffered by users while using our software.

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The shortened form of the OS name is used in the text.

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