

# Manual USB Fill/Key **ez-CGER mini**









# ez-CGER Mini USB type Fill/Key SDI Adapter Manual

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# **Installation Precautions**

This page states the safety measures the users must take to avoid circumstances where the system may occur physical damages or injuries. Please THOROUGHLY go over this page before the system installation/operation.

# **General Precautions**

- Maintain dust FREE condition during and after System Installation/Operation.
- Please place the system cover in a safe location when opened.
- Securely stow tools and cables away from the passages.
- Avoid wearing loosened clothes or accessories during installation/Operation.
- Avoid any unnecessary actions that may damage/harm system or personnel.
- Do NOT open the system unless advised by Lumantek representative. Lumantek takes no responsibility on units with broken RMA seals.

## **Power Precautions**

- Please check cable overload before connecting the system to the power supply.
- Avoid wearing metal accessories (Rings, Earrings) connecting system to the power source.
- Avoid operating on wet floors. Make sure power extension cables, floors, and instruments are grounded and in a safe operating condition.



- Please discharge static electricity by touching grounding metals before starting hardware installation.
- The grounding parts must be disassembled last.
- Manufacture takes no responsibilities on Direct/Indirect losses or damages due to use of inappropriate parts or services by unauthorized service provider
- Supplying power during the system installation may cause damages to the system and personnel.

# **AC Power Precautions**

- This unit utilizes AC power, the cord comes with a grounding function.
- Please connect the system to the power socket with groundings.
- Use Green/Yellow 0.75mm2 (18AWG) or higher grade grounding cables.
- Do NOT block power sockets with tools or boxes. Please keep it clear at all times.

# Z Liveshow



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# USB3.0 Fill/Key : ez-CGER mini (model:UB2)

USB 3.0 SDI Output Adapter

# 1. Introduction

ez-CGER mini UB2 is a compact hardware system that connects to the PC via USB 3.0, linking with CG software. It supports the Fill/Key output from the CG software via USB 3.0, designed to configure a system with video switchers supporting Fill/Key inputs such as ez-PRO.

- Features
  - 1 Operated by USB 3.0 power
  - ② File playback input : 1EA (CG software)
  - ③ SDI output : 2EA , Fill/Key
  - (4) Support HD quality output formats

# 1) ez-CGER mini UB2 H/W view







# 2. Installing/Uninstalling Software

# • Software Installation Requirements

- 1) Recommend Specification
  - ① OS : Windows7 or higher Ver.
  - ② CPU : Intel i7 or above
  - ③ RAM:8GB or above
  - ④ VGA : GeForce GTX 750 or above
  - (5) Monitor Resolution: 1920 x 1080 or above
  - 6 USB3.0 Connection
- 2) You may install the CG Software on your PC without connecting to the main hardware device. However, ez-CGER UB2 device is necessary in order to transmit the CG properly from the S/W.







#### • Software Installation

- 1. Run 'ez-CGER VM4' setup file.
- 2. Press 'Next' when screen below is shown.



3. Select the path you want to install the software, then click 'Next'.

🞯 ez-CGER VM4 - InstallAware Wizard			
Destination Folder Select folder where setup will install files.			5
Install ez-CGER VM4 to: C: \Program Files (x86)\Pez-CGER VM4		Chang	e
Destination Folder Required Disk Space: Remaining Disk Space:		115,09 355,08	
InstallAware	< <u>B</u> ack	<u>N</u> ext >	Cancel





4. Select the program folder name and user, then click 'Next'.

🞯 ez-CGER VM4 - InstallAware Wizard		
Select Program Folder Select the location where you would like to cre	eate new shortcuts.	5
Setup will add program shortcuts to the Program Folder listed below. You may type a new folder name, or accept the suggested name. Click Next to continue.		
Program Folder:		
ez-CGER VM4		
Ez-CGER VM4 Install this application for:		
InstallAware	< <u>B</u> ack <u>N</u> ext >	Cancel

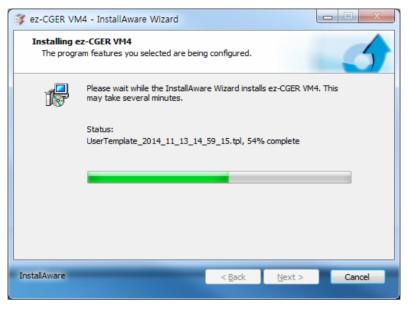
5. Click 'Next' when below ready message is shown.



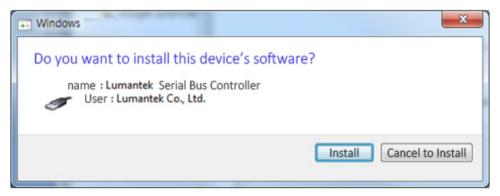




6. Installing the software.



7. When the device driver installation screen appears, press 'Install'.



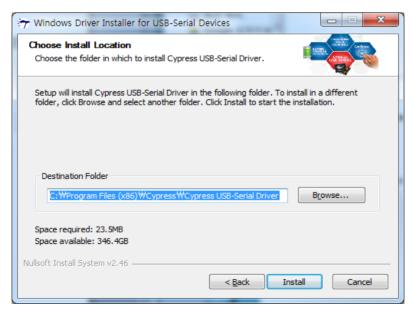




8. Press 'Next' to install the USB-Serial Driver.



9. Select destination folder then click 'Install'.



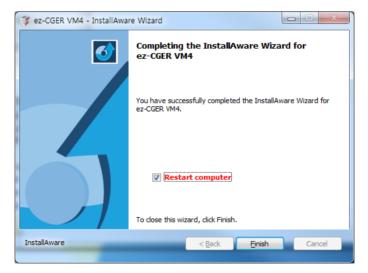




10. Click 'Finish' to complete the Driver installation.



- 11. Click 'Finish' to complete the S/W installation.
- 12. Please restart the system for proper operation of S/W and driver. You may restart the system later by unchecking the box.







## • Software Uninstall

- 1. Go to 'Start' on Windows then click 'All Programs'.
- 2. Select 'ez-CGER VM4'
- 3. Select 'Uninstall ez-CGER VM4'.



4. Click 'Yes' to uninstall.

ez-CGER V	M4 Uninstall
?	Are you sure you want to uninstall the selected application and all of its components?
	예(Y) 아니요(N)





5. Click 'Next' to remove the driver.



6. Click 'Uninstall' to remove all drivers



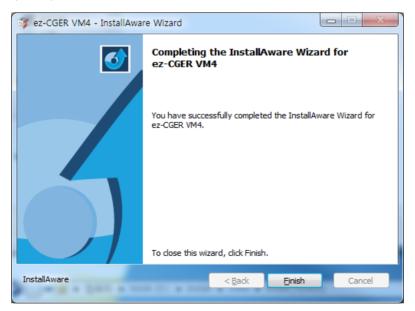




7. Click 'Finish' to complete driver uninstallation.



8. S/W is completely removed. Click 'Finish'.







# 3. Hardware device Connection

# 1) ez-CGER mini UB2 device connection

1. If you are using UB2 as character generator, connect a USB 3.0 cable with your PC/laptop.











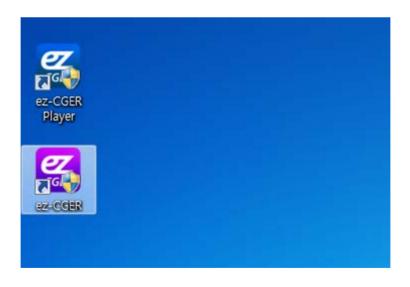
# 4. Software

# • Run ez-CGER VM4 S/W from the windows 'Start' menu

- 1. Go to 'Start', click 'All Programs'.
- 2. Select 'ez-CGER VM4' Folder
- 3. Click 'ez-CGER VM4' Icon either 32Bit or 64 bit based on your Operating System

🎼 ez-CGER			
🚭 ez-CGER (32bit)			
🚭 ez-CGER (64bit)			
🚭 ez-CGER Player (32bit)			
🚭 ez-CZER Player (64bit)			
🎆 Uninstall ez-CGER	Ŧ		
◀ Back			
Search files & programs			

- Run ez-CGER VM4 S/W from the desktop.
- 1. Double click 'ez-CGER VM4' icon on Windows desktop screen.







# 5. Software interface

- 1. Conti list management area
- 2. Conti page management area
- 3. Edit menu area
- 4. Edit area
- 5. Edit tool area
- 6. Transmission control area



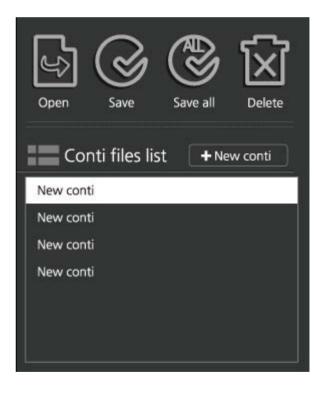




# 6. Software manual

# 1. Conti File Management

- Create a new conti
- 1. New conti is created automatically when program is opened.
- 2. Click 'New conti' to add conti to the 'conti files list'
- Load a conti file
- 1. Click 'Open' to load saved conti file.
- Save the conti file
- 1. Click 'Save' to store current conti page.
- 2. Click 'Save all' to store all conti pages on the list.



- Delete conti from the list
- 1. Click 'Delete' to remove selected Conti from the list
- 2. 'Delete' only removes selected conti from the list. The actual data file still exists in the storage which can be retrieved again.







## 2. Conti Page Management

- Add page
- Click 'Add' to add a new page.
- Select page
- Click on the desired page from the page list.
  The selected page appears in the content layer in the edit area.
- Delete page
- Click 'Delete' to remove(delete) selected page.
- Copy page
- Click 'Copy' to copy a selected page.
- Change page sequence
- Select a page from the list, then drag it with left mouse to change its sequence.







- 3. Layer
- There are total 3 layers per page



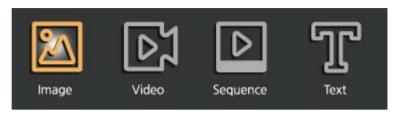
- Overlay layer
- 1. A layer positioned above the contents layers.
- 2. overlay layer maintains its format even if the contents have been changed.
- 3. Best use for Fix Program names or organization logos on the screen.
- Contents layer
- 1. A layer with applied contents for each conti file.
- Background layer
- 1. A layer positioned behind the contents layer.
- 2. Fix background images on the screen.



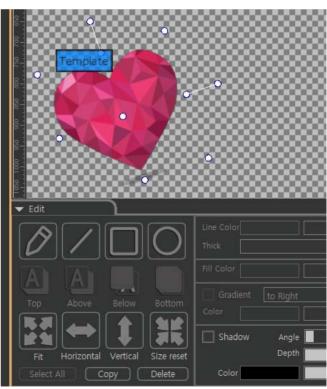


# 4. Conti Editing

Image



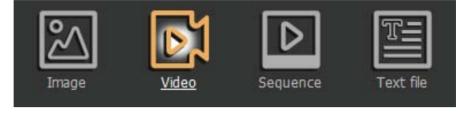
- 1. Click 'image' to load images.
- 2. Various formats, such as JPEG, PNG, Bitmap and GIF supported.
- 3. 32bit Bitmap file, PNG, PNG, GIF and TGA with Alpha channel (transparency value) support.
- 4. Animated GIF images support.
- Use a mouse to change the position/size/rotation of loaded images. Alpha (transparency) is adjustable at edit tool area.



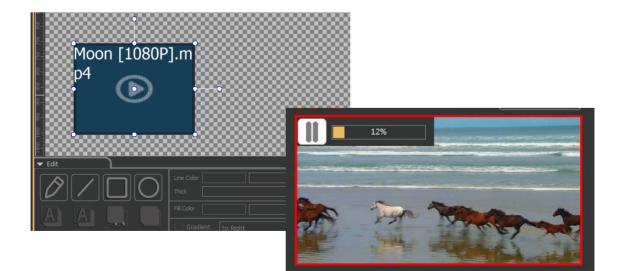




• Video

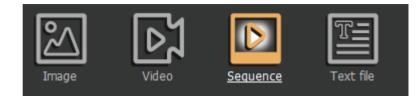


- 1. Click 'Video' to load video clips.
- 2. Only one video can be loaded per Conti page at its contents layer.
- 3. Use a mouse to change the position/size/rotation of loaded videos. Alpha (transparency) is adjustable at edit tool area.
- 4. Video which is currently being transmitted can be controlled in the transmission control window.



# **E** Liveshow

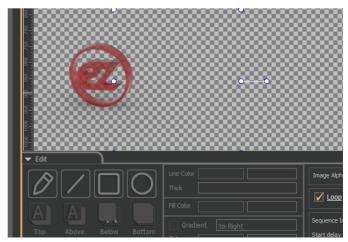
- 4. Conti Editing (Continue)
- Sequence animation



- 1. Click 'Sequence' to load sequence (animation frame) images.
- 2. The sequence file format follows the image file format. The animation frame sequence are sorted by the name of the files.



3. Apply features such as loop (repeat the animation), sequence interval (adjust the animation speed) start delay (delay on starting of the animation) at editing section.







• Text file



- 1. Click 'Text file' icon to load text.
- 2. If you see the pop up message below select 'Yes to load text files in the

format that current Conti-page is designed.

Caution	×
<b>i</b>	Do you want to apply current conti form?
	Yes No

3. If object is selected when loading the text file, the text file automatically applied to the object.

4. Select number of rows per page after selecting the text file.







Text Column



- 1. Click 'Text' to load text column object.
- 2. Click on the selected text object to edit.



3. Adjust font properties, colors, border settings and etc. at editing tool.



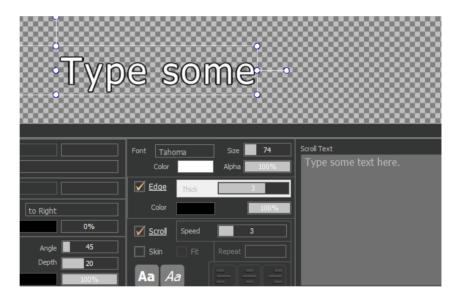




• Text Column Scroll



- 1. Create a scroll text column by checking 'Scroll properties' box.
- 2. Modify contents of the scroll in editing tools area.



- Text Skin
- 1. Apply skin image on the text object by 'Skin' check box.
- 2. Adjust skin repetition properties for more compressed skin images

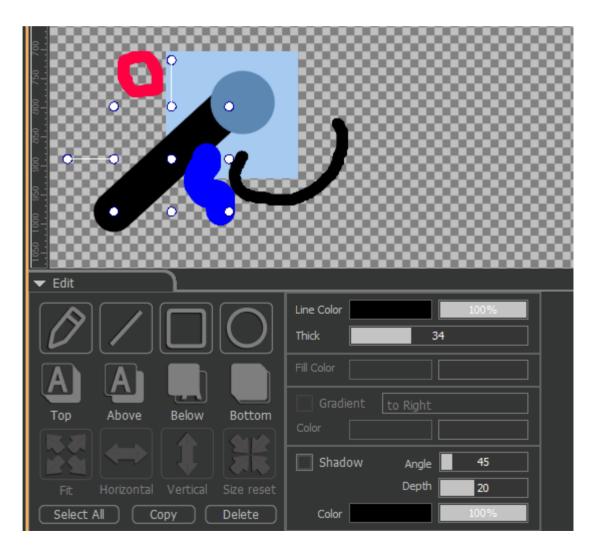
i Type son	ne te	xt —
Line Color	Font Tahoma Color	Size 74
	Edge Thick	3
Gradient to Right	Color	100%
Color 0%	Speed Speed	3
Shadow Angle 45	Skin Fit	
Color 100%	Aa Aa	



Figure



- Click 'Edit' to show 'figure' button in editing tool area.
  Select the shape of a figure. (curved line, straight line, round and etc. )
- 3. Select a figure to adjust its properties such as its colors, thickness and etc.











- 4. Conti Editing (Continue)
- Object Gradient
- 1. The gradient will be applied to the object when 'Gradient' property on either figures or the text columns that have been selected.
- 2. Direction, color, alpha value of the gradient are adjustable.

	•
	• • • •
▼ Edit	
	Line Color 100%
	Fill Color
A A Below Betom	Fill Color 100%
▼ Edit	Fill Color

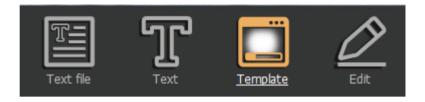
- Object Shadow
- 1. The shadow will be applied to the object when 'Shadow' property on either figures or the text columns that have been selected.
- 2. Direction, Density, Color and Alpha value of the shadow are adjustable.

	some tex	t
	Line Color	Font Tahoma Size 74 Color Alpha 100%
A  A  Image: Constraint of the second	Fill Color    Gradient    to Right	Color 100%
	Color      0%        Image: Shadow      Angle      30	Scroll Speed

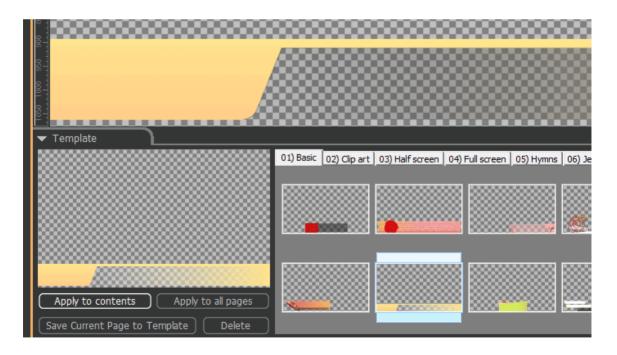




• Template



- 1. Load a template by clicking 'Template' button at the top of the editing window.
- 2. Selected template will be applied to the editing window by either double click on the template or click 'Apply Template'.
- 3. Click 'Apply to all pages' to apply same templates to the entire conti-file.
- 4. Clicking 'Save Current Page to Template' button will save changes after new template has been applied.
- 5. Click on the tabs to select basic templates or 'User' tab to select personalized templates.
- 6. 'Template' message will appear when images loaded from the Template.
- 7. 'Apply' template will overwrite previously applied templates.







## 4. Controlling the Object

Selecting the object

- Image, text column objects can be selected by clicking the left mouse .
- Select multiple objects simultaneously by Press& Hold the Shift key.
- Click and drag to select all objects inside a specific area.

**Deselecting the Object** 

- Right click on the editing window deselects the object.

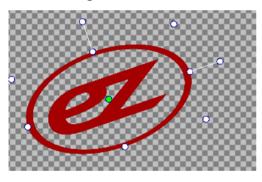
#### **Move Object**

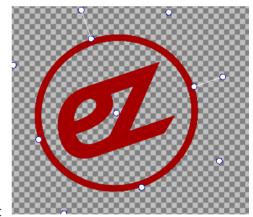
- Left click and Drag a selected object.
- Press & Hold 'Control' Key while moving object will horizontally/perpendicularly move
- the object.
- Use arrow keys to move the selected object.
- Press & Hold 'Shift' Key Shortens space while moving the object by arrow key.

#### Rotate object

- Rotate the object by clicking on the green point as shown in the picture below.

Size change





- ① Adjust the size of the object by moving green point
- Object order change

Use 'Top', 'Above', 'Below', and 'Bottom' buttons at Editing Tool to change order of the object.

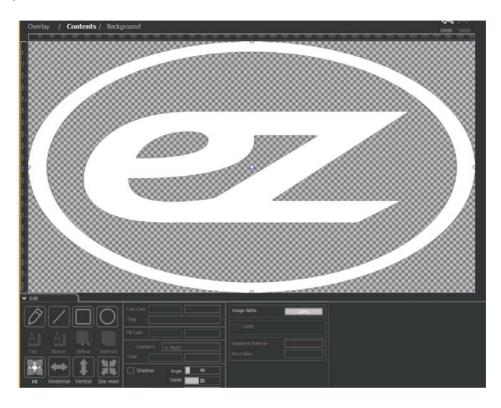








• Fit object to the Screen



- 1 Adjust the size of object with 'Fit', 'Horizontal', and 'Vertical' icon in Editing screen.
- ② Click 'Size Reset' to undo all the changes.
- Copy / Paste / Cut
- ① Used 'Ctrl + C', 'Ctrl + V' or 'Ctrl + X', 'Ctrl + V' to copy/cut/paste the object
- Copy (Mouse Drag)
- ① Press and drag while holding Ctrl key after while object is selected will copy the object.
- Paste to the different pages
- ① Object copied with 'Ctrl + C' or 'Ctrl + X' can be pasted in different conti pages, overlay, or background layer.

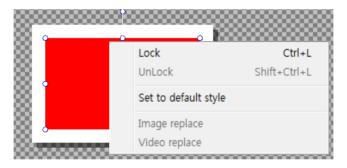




- Undo / Redo
- ① Press 'Ctrl +Z' to Undo / Press Ctrl +Shift+Z key to Redo
- ② Or, use the icons on Editing screen..



- Pop-up menu
- ① Right click on the object to check pop-up menu.



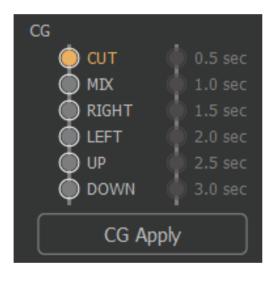
- ② Lock / unlock Lock/unlock location of the object.
- ③ Set to Default style Default style applied to every objects created
- ④ Image/Video Replace Replace the Image/Video of objects to the other files.





# 5. Transmission Control Area

- CG Transmission
- Click 'CG Apply' to transmit CG applied source
- Transition Effect and duration
  - ① CUT : Instantaneous transition.
  - ② MIX : Translucent Overlapping transition
  - ③ Right : Sweep to the right
  - ④ Left : Sweep to the left
  - <sup>5</sup> Up : Sweep to the top
  - 6 Down : Sweep to the bottom
  - ⑦ Effect duration: 0.5~3 second







- CG Cancellation
- 1. Click 'CG Cancel' to stop CG transmission.



- Emergency Message Transmission (Instantaneous Transmission)
- 1. Press 'F1' to transmit emergency messages.

Instant caption	<b>X</b>
instant caption - emergency typing	
	Apply Clear

- 2. Type in the instant messages in text box, then click 'Apply'. This will add emergency messages.
- 3. To remove emergency messages, press F1 then click 'Clear'





### 6. System Configuration

- 1. Click 'System Configuration' at 'Edit' menu.
- 2. Language

Change S/W Language interface settings.

- 3. System Resolution Select Input source resolution and SDI output resolution for VM4 and UB3.
- 4. HDMI/VGA Output Resolution
- 5. Adjust HDMI and VGA output resolution.
- 5. External Audio

Prioritize external Audio rather that input source channel audio.

6. Full Screen S/W in a Full Screen.

- 7. Project to 2nd Screen Extend Transmission control screen to the 2nd monitor. May require additional PC system resources.
- 8. Preview Display video on preview screen More performance load on PC

9. Load Preview in pauseLoad paused previewMay experience black screen depending on the source

10. Bible Select 'Bible' option to add bible features to the editing menu

11. Shortcut Shortcut key information

12. System Information Display S/W and H/W Ver.

Options	
	1
Language	
English	
System resolution	
1920x1080i 60Hz	
Scaled (HDMI/VGA) Out	
720x480p 59Hz	
External audio	
2nd Monitor	
Full screen	
Show preview video	
Preview video open paused	
Bible	
Shortcuts	
About	