

Bridge[™]

USER MANUAL

BRIDGE X-MC



Description

Bridge X_MC is composed of the various types of input / output, which can convert a source into almost all types of a demanded output. The supported input / output are HDMI, VGA, YPbPr (Component), CVBS (Composite), SDI.

Moreover, its OSD provides the user-convenient operations as Input selection, Resolution & Audio Setting, and so on. The OSD operation is made by using the switch located on the top left of the product. It is also available to control through RCP.

Main Functions

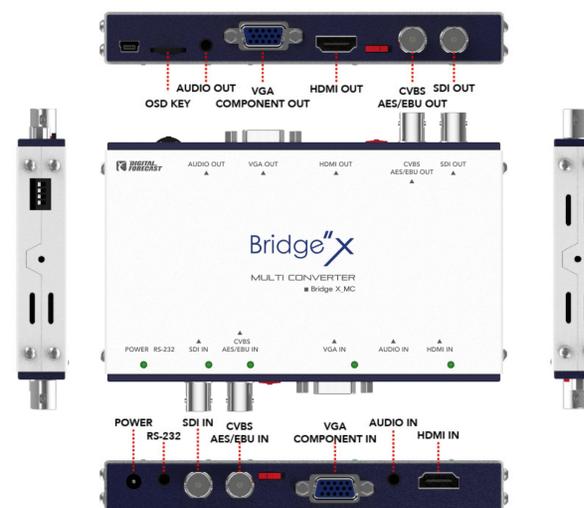
- Up/Down/Cross/Scan converter
- Audio Mux Function
- HDMI in/output
- Audio Mux Function
- Audio DeMux Function
- User selectable output format
- User selectable output ARC (CVBS, AES/EBU, SDI, VGA, COMPONENT, Analog Audio, HDMI)
- Remote Control Support (option)



User's Manual

Bridge X_MC

Product Composition



Product Components

Before use, please make sure that the following components are properly provided.



※ The Product Configuration or Specification may be changed without prior notice in purpose of performance improvement.

※ In case of needing an additional Purchase of the components according to circumstances, please contact the Manufacturer (Refer to the Digital Forecast Website : www.dfcast.co.kr)

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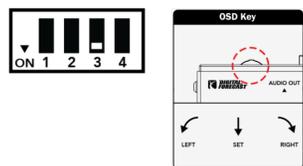
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User's Manual

How to use DIP S/W

Dip Switch Control	
Upward Position	OFF
Downward Position	ON

- When the Third Dip SW is "ON" like the lower-left figure, it enables the OSD key to select an input type.



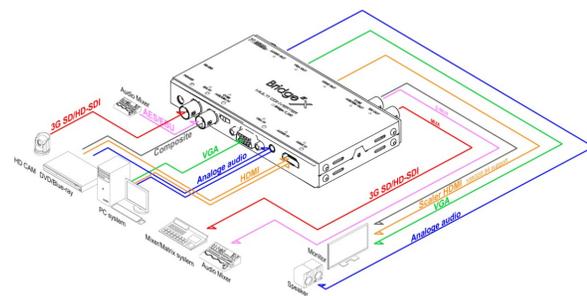
- In case of needing to activate "Fixed Mode", please turn "ON" the Fourth Dip SW like below.



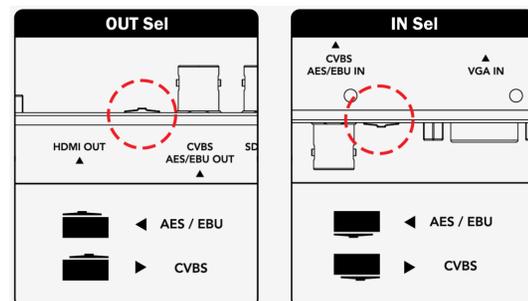
User's Manual

Configuration

X_MC is available to use like the below configuration.



CVBS or AES / EBU can be selected by the RED-marked switch located in the below figure which describes how to select.



Component Cable Connection

Component Input is available to use by means of connecting to VGA port after applying the Conversion Gender of "D-SUB to Component". The use of Component Output is also available by the same method.



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Specifications

IN PUT CONNECTER	1 x BNC 75Ω[SDI] 1 x BNC 75Ω[CVBS or AES/EBU] 1 x D-SUB[VGA or Component] 1 x Phone Jack[Audio L/R] 1 x HDMI
OUT PUT CONNECTER	1 x BNC 75Ω[SDI] 1 x BNC 75Ω[CVBS or AES/EBU] 1 x D-SUB[VGA or Component] 1 x Phone Jack[Audio L/R] 1 x HDMI
SDI	SD-SDI, HD-SDI, 3G-SDI
Audio sample clock	48Khz
HDMI	Version 1.3
IN/OUT Resolution	Appendix
Remote Control	Phone Jack[RS-232]
Firmware Update	USB MINI B-Type
Power Supply	DC 12V 1.2A
Dimension (WxHxD)	144 x 81 x 19.6(mm)
Weight	210 g

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Troubleshooting

When the screen is cracked or HDMI input noise is generated

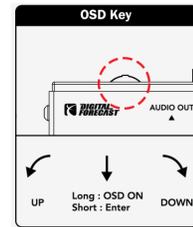
- ▶ A low-priced (or uncertified) HDMI cable may cause a data loss at more than 1080i resolution. The verification method is to check the video quality of more than 1080i resolution on the monitor in direct connection between a problematic HDMI cable and video display unit NOT as via X_MC. If the HDMI cable is the cause, the display keeps showing the same symptom. Therefore, Genuine HDMI cable is recommended.

When Analog audio is off.

- ▶ Please check the condition of Audio at Video Output of the SDI or HDMI which contains Audio data. If the checked Audio is normal, it may be a temporary symptom by ESD(Electrostatic Discharge) In this case, please reboot the product as turning OFF and ON the product : forced RESET

How to use OSD Menu

The OSD key (switch) is located on the top left of the product.



Selecting the input port

1. Press the OSD key and hold on for a while. Then OSD menu will appear like below.



2. When selecting "Video In SEL", the following sub-menu is displayed.



3. The OSD key enables the user to select a needed Video Input type. Optional : COMPONENT, HDMI, SDI, COMPOSITE, VGA. When the selection is made, the relevant Input LED is ON.

※ Notes

To use the COMPONENT, VGA, the input port must be equipped with an additional gender.

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Magnifying the Screen

1. Press the OSD key and hold on for a while in order to show the initial display menu. And move to 4. Zoom.



2. When "Zoom" menu is selected, the following menu will be displayed.



3. The OSD key enables the user to select the following values Selectable : No Zoom, 5%, 10%, 15%, 20%, 25%, 30%, 35%

Selecting the output Color

1. Press the OSD key and hold on for a while in order to show the initial display menu. And move to 5. Color Mode.



2. When "Color Mode" menu is selected, the following menu will be displayed.



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3. The OSD key enables the user to select the following mode. Optional : YUV422, RGB444

※ Notes

This feature can be used only available for VGA output. In case of selecting RGB444 mode for SDI, CVBS, and COMPONENT, the output mode will be abnormally displayed, because those support YUV422 mode only.

Display Test Pattern

1. Press the OSD key and hold on for a while in order to show the initial display menu. And move to 6. Test Pattern.



2. When "Test Pattern" menu is selected, the following menu will be displayed.



3. The OSD key enables the user to select whether to output. Selectable : On, Off

The output screen display the Color bar, and the -20dB of Tone signal is contained in Audio 1 group consisting of 2ch.

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Aspect Ratio Converter

1. Press the OSD key and hold on for a while in order to show the initial display menu. And move to 7. ARC Mode.



2. When "ARC Mode" menu is selected, the following menu will be displayed.



3. The OSD key enables the user to select whether to output. Selectable : Bypass, 4:3, 16:9

Adjusting the Screen

1. Press the OSD key and hold on for a while in order to show the initial display menu. And move to 8. Picture.



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4. "Audio In SEL" menu shows the selectable Audio inputs.

When "AUTO" is selected, the Audio input of the related Video is selected. In other words, the video of SDI, HDMI contains Audio data.

If the other types of video input are selected, Analog Audio input is selected accordingly.

Optional : AUTO, Analog, AES / EBU



Selecting the resolution

1. Press the OSD key and hold on for a while in order to show the initial display menu. And move to 3. Out Format.



2. When "Out Format" menu is selected, the following menu will be displayed.



3. A needed resolution can be selected by using OSD key.

4. "By pass" mode provides the same resolution of the input, excluding the PC resolution.

"Fixed 1080i" is fixed as the output resolution of 1080i (1080i50 or 1080i59, will be displayed depending on the frequency)

Selectable Resolutions :

Bypass, 480i_NTSC, 576i_PAL, 720p50, 720p59, 720p60, 1080i50, 1080i59, 1080i60, 1080p24, 1080p25, 1080p30, 1080p50, 1080p59, 1080p60, 640x480p60, 800x600p60, 1024x768p60, 1280x1024p60, 1360x768p60, 1600x1200p60, 1440x900p60, Fixed 1080i

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2. When "Brightness" menu is selected, the following menu will be displayed.



3. The OSD key enables the user to select the following values of "Brightness" output



The OSD key operation enables the user to change its value

The remaining "Contrast" and "Saturation" can be adjusted in the same way.

SAVE

1. Press the OSD key and hold on for a while in order to show the initial display menu And move to 9. Save



2. When "Save" menu is selected, the following menu will be displayed.



3. The OSD key enables the user to select whether to save the changed configuration. Choices: Yes, No

※ In spite of not saving through "SAVE" menu, the changed setting is automatically saved when OSD menu disappears.

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Initialize

1. Press the OSD key and hold on for a while in order to show the initial display menu. And move to 10. Factory Set.



2. When "Factory Set" menu is selected, the following menu will be displayed.



3. The OSD key to select whether to initialize the entire setting. Choices: Yes, No

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