

USER MANUAL OMX-SDI2SDI

Up Down Cross Converter with Scaling and Genlock



Ocean Matrix

OMX-SDI2SDI

Up Down Cross Converter with Scaling and Genlock

The Ocean Matrix OMX-SDI2SDI Up/Down Cross Converter allows you to manage video output for multiple displays by matching native resolutions through up/down scaling of SD/HD and 3G-SDI signals with external dipswitch settings. Frame synchronization genlocks the video output of one source to another input source for live productions.

Includes: US 2-Prong 12VDC/1A Power Adapter

Specifications					
SDI Format	SD-SDI, HD-SDI and 3G-SDI				
SDI Supported Formats	 1080p60/50, 1080i60/50, 1080p30/25/24, 720p60/50 1080p59.94, 1080i59.94, 720p59.94, 1080p29.97, 1080p23.98 525i & 625i SD D1 Format RGB/YUV 4:4:4 Sampled 				
SDI Transition Rate	70Gb/s, 1.485Gb/s and 270Mb/s				
Input	1-SDI (BNC), 1-REF (BNC) Black Burst, Tri-Level Sync				
Output	2-Up/Down Converted SDI, 1-SDI Loop Through				
Genlock Frame Lock Mode	Free-run, External Sync Input				
Auto Detection	3G/HD/SD-SDI				
Frame Rate Conversion	1.000/1.001				
Cable Equalization	 3G: 100m of RG6/86m of RG59 HD: 170m of RG6/120m of RG59 SD: 400m of RG6/280m of RG59 				
Audio Support	Up to 8 channels, 24bit, 48KHz				
Input Power	7.5-15VDC				
Dimensions (LxWxH)	6.15x2.5x1in/ 156x63.5x25.4mm				
Weight	1 lb / 0.45 kg				

OMX-SDI2SDI

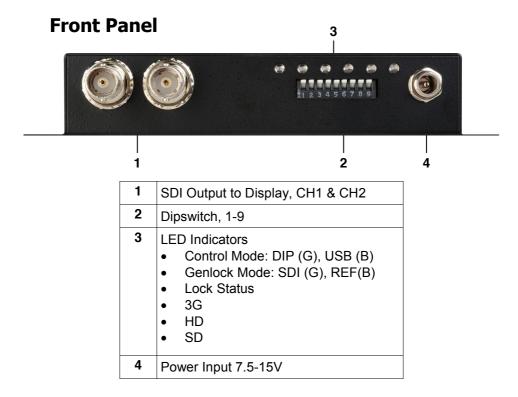
Installation

- 1. Connect the video source to the input connector
- 2. Connect display equipment to the output connector
- 3. Connect power supply

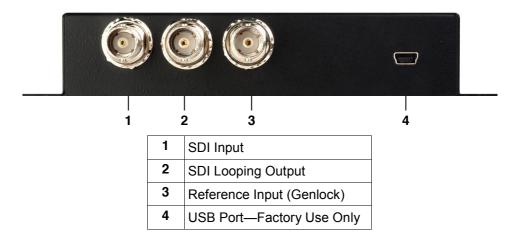




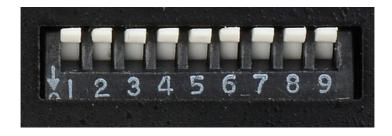
OMX-SDI2SDI Features



Rear Panel



OMX-SDI2SDI Dipswitch



1	Control Mode			
2, 3	Genlock Mode			
4, 5	Aspect Ratio			
6, 7, 8, 9	Output Format			

1 Control Mode	Dipswitch Setting
Dipswitch	1
USB	
2 Genlock Mode	
Free	11
SDI	1
Ref	11
3 Aspect Ratio	
Full Screen	11
16:9	1
4:3	
Pixel to Pixel	11

OMX-SDI2SDI Output Format



Resolution	Dipswitch Setting
1920x1080p60	
1920x1080p59	
1920x1080p50	
1920x1080p30	
1920x1080p29	
1920x1080p25	
1920x1080p24	
1920x1080p23	
1920x1080i60	
1920x1080i59	
1920x1080i50	
1280x720p60	
1280x720p59	
1280x720p50	
720x480i59	1111
720x576i50	1111

OMX-SDI2SDI GENLOCK MODE



	480i59	576i50	720p60	720p59	720p50	1080i60	1080i59	1080i50	1080p60	1080p59	1080p50
480i59											
576i50											
720p60											
720p59											
720p50											
1080i60											
1080i59											
1080i50											
1080p60											
1080p59											
1080p50											



- To prevent fire or shock hazard, do not expose this equipment to high humidity and/or dust. Do not use in an unprotected outdoor installation nor any area classified as overly damp or wet.
- 2. The temperature for installation should be kept between 32°F to 140°F (0°C to 60°C). Avoid direct sunlight exposure or extreme changes of temperature over a short period of time.
- 3. Do not disassemble the unit or place it on an unstable base.
- 4. Do not drop the unit and avoid heavy impact.
- This unit should not be permanently installed unless proper ventilation is provided. Any enclosure openings must not be blocked or covered as they protect the unit from overheating.
- 6. Before cleaning, turn off the power and unplug the unit from all connections. Use a damp cloth. Do not use liquid cleaners nor aerosol cleaners.
- Do not overload outlets and extension cords as this may result in a risk of fire or electric shock.
- Enclosure entry is dangerous. Never push objects of any kind, including liquids, into this unit through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock.
- Do not attempt to open or service this unit yourself as opening or removing covers may expose you to dangerous voltage and other hazards.
- 10. There are no user-serviceable parts inside the unit. If the unit requires service contact your authorized dealer, or an authorized repair service company.

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