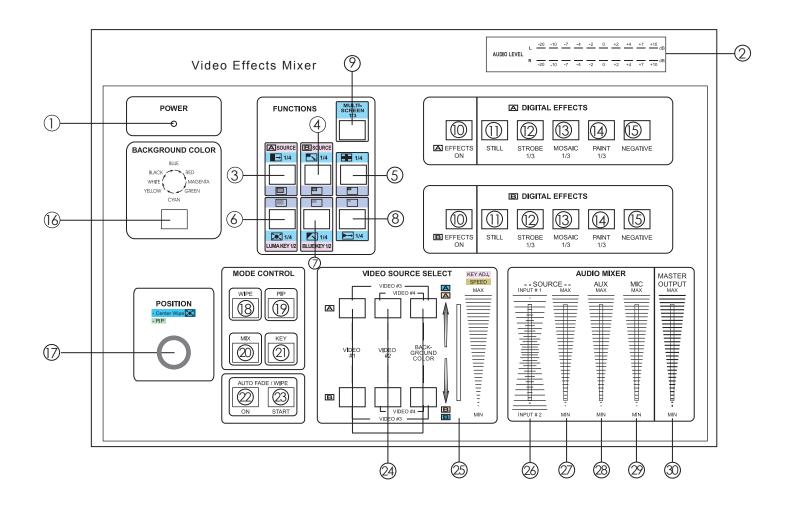
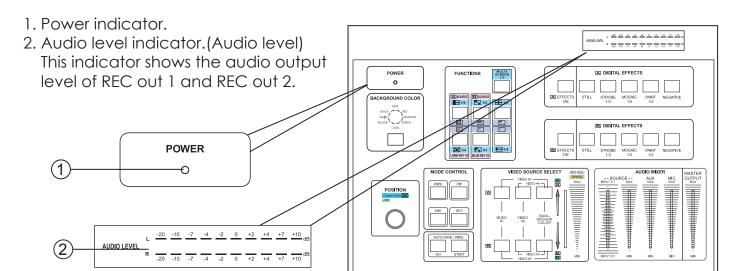
# Globalmediapro Fantail SD21 Vision Mixer Operation Manual



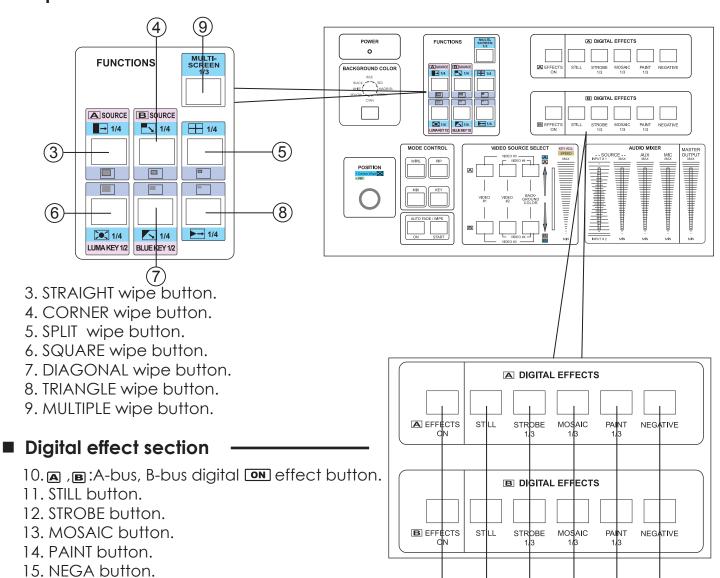
#### **Features**

- Four Video Inputs-4 BNC composite.
- Digital effects-STILL,STROBE,MOSAIC,PAINT,NEGATIVE.
- 96 wipe patterns.
- Chroma Key & Luminance Key.
- High resolution picture quality.
- 8 back colors.
- Joystick control for digital effect position.
- Fade control for Video and Audio.
- Audio and Video mixing.
- Picture in picture control.(3 window sizes)
- 4 Audio/Video source inputs.
- 4 Audio/Video source outputs.
- Auxiliary audio input.
- Microphone input and Headphone output.

#### ■ Power and Audio level indicator section



## ■ Wipe mode section



(12)

(11)

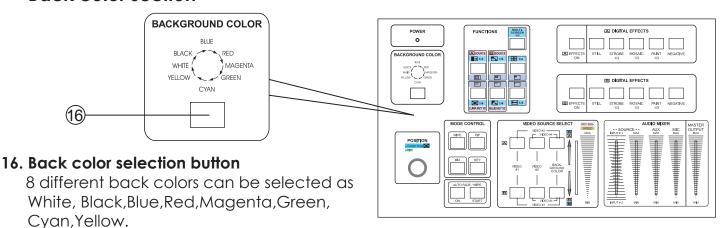
(10)

(13)

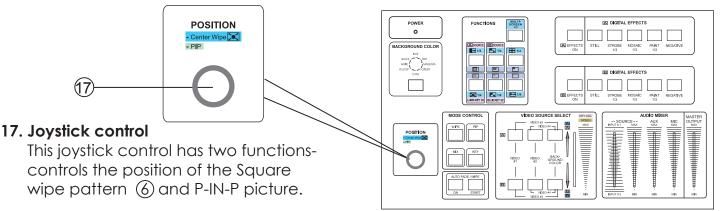
(15)

(14)

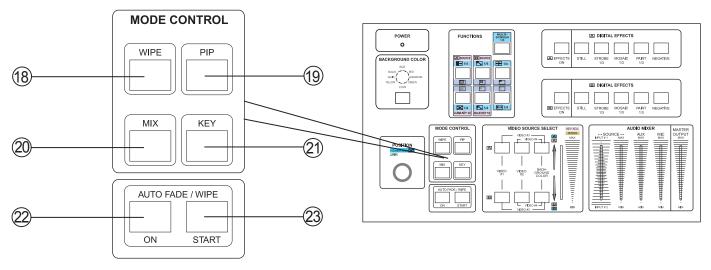
#### ■ Back color section



#### ■ Position section



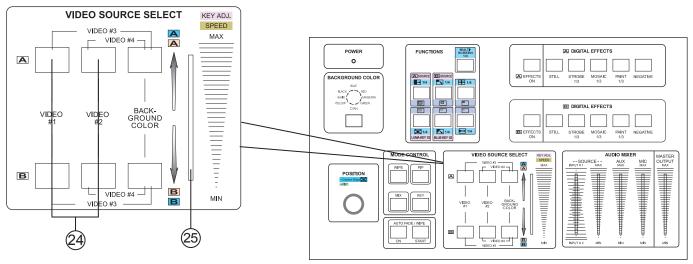
## ■ Mode control section



- 18. WIPE button: Press once to generate wipe edge (sharp edge).

  Press again to remove wipe edge (soft edge).
- 19. PIP button: Picture in picture mode can be selected by pressing this button.
- 20. MIX(FADE) button: Press this button to select the fade In/Out mode; use slide bar (25) to fade from one source into another.
- 21. KEY button: This button allows you to tune in a best performance point for the blue key and luma key effects.
- 22. AUTO button: AUTO FADE/WIPE can be performed with START (23) button when the button (22) is set to ON.
- 23. START button: Automatic MIX and WIPE operation can be performed by pressing the START button. Transition time can be adjusted via video slide (25). When transition time lapsed, the LED goes off.

#### ■ Source select



24. A,B-bus selection buttons:

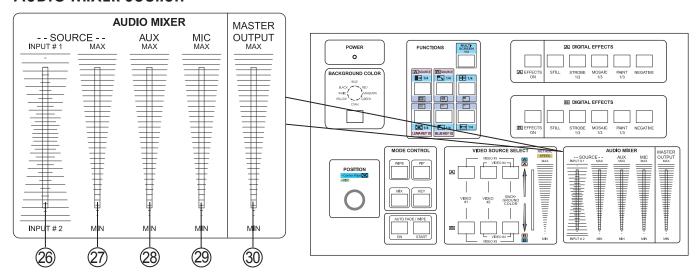
This processor can connect up to 4 input sources, Video 1, Video 2, Video 3 and Video 4. These 4 sources along with 8 back-ground colors can be selected as A bus or B bus for performing Wipe,Mix,P-In-P and many other effects.

Press the left button alone allows you to select Video 1 source; press the center button alone you can select Video 2 source; press the right button alone allows you to select one of the eight back colors.

To select Video 3 and Video 4 source you need to program the Source Select into S- source mode by pressing both left and right buttons or both center and right buttons simultaneously. The former step will program the left button as Video 3 while the latter will program the center button as Video 4.

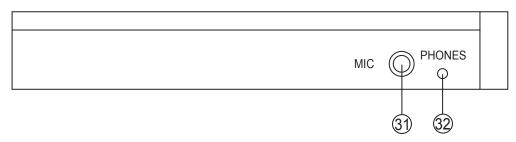
25. VIDEO slide: Wipe, PIP and Key effects could be controlled by this Video slide which moves A/B bus outputs horizontally or vertically,

#### ■ AUDIO MIXER Section



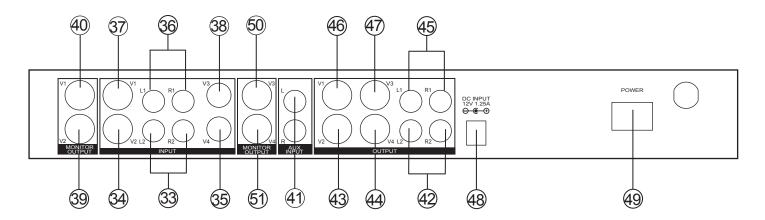
- 26. AUDIO: This slide dissolves the audio from Source A to Source B when the slide is moved from the top to the bottom.
- 27. SOURCE: This slide controls the audio level of the Source selected with slide (26).
- 28. AUX: Controls the audio level of the Auxiliary input.
- 29. MIC: Controls the audio level of the microphone input.
- 30. MASTER: Controls the overall audio output level.

#### **FRONT PANEL**



31. MIC: Microphone Jack. 32. PHONES: Headphone Jack.

### REAR PANEL

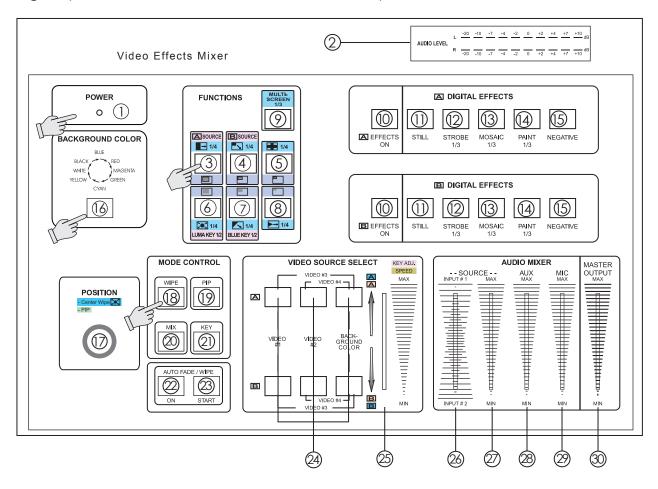


- 33. Source 2 Audio input Jack.
- 34. Source Video 2 input Jack.
- 35. Source VIDEO4 input connector.
- 36. Source 1 Audio input Jack.
- 37. Source Video 1 input Jack.
- 38. Source VIDEO3 input Jack.
- 39. Source V2 monitor output Jack.
- 40. Source V1 monitor output Jack.
- 41. Auxiliary Audio input Jack.

- 42. Recording out 2 Audio output Jack.
- 43. Recording out video2 output Jack.
- 44. Recording out video4 output Jack.
- 45. Recording out 1 Audio output Jack.
- 46. Recording out video 1 output Jack.
- 47. Recording out video3 output Jack.
- 48. DC INPUT 12V 1.25A.
- 49. POWER On/Off.
- 50. Source V3 monitor output.
- 51. Source V4 monitor output.

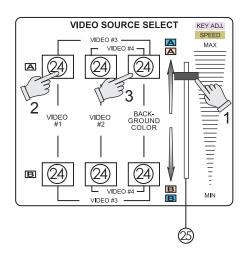
#### **Basic Operations**

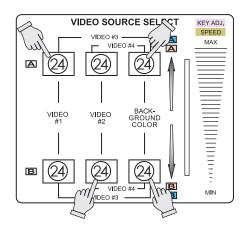
Press the power switch on the rear panel to the ON Position. The LED's on the operation panel light up and the unit is now in inital mode for operation.

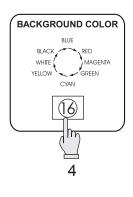


#### A. Input signal selection and Back color Selection

- 1. Slide the Video slide (25) to the A-bus position.
- 2. Press any of the Source 1 or Source 2 button. You will see the corresponding picture on the screen.
- 3. Press a Back Color button to select the back color you need.
- 4. Any of the 8 Back Colors-Blue→Red→Magenta→Green→Cyan→Yellow→White→Black. can be selected by reapeatedly pressing the Back color selection button (6).
- \* Please refer to Source select 24 in page 4 for selecting input sources from Video 1, Video 2, Video 3, and Video 4.



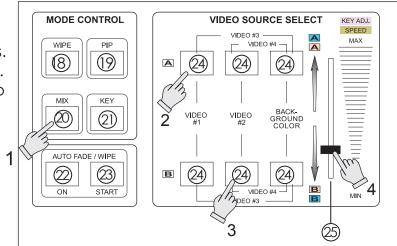




#### **B. VIDEO MIX**

#### Reset the operation panel to initial mode:

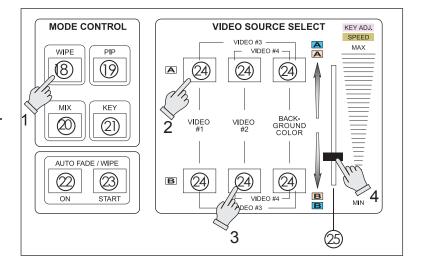
- 1. Press the MIX button 20.
- 2. Press one of the A-bus selection buttons.
- 3. Press one of the B-bus selection buttons.
- 4. Mix effect could be controlled by Video slide 25 which sliding A to B or B to A.



#### C. VIDEO WIPE

#### Reset the operation panel to initial mode:

- Each depression of the button results in a change on the wipe edge. The sequence of selection is: Sharpedge→Soft edge.
- 2. Press one of the A-bus selection button.
- 3. Press one of the B-bus selection button.
- 4. Wipe effect could be controlled by Video slide 25 which moves A/B bus outputs horizontally or vertically.

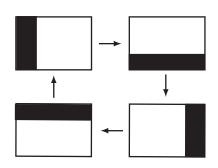


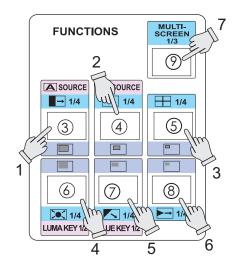
#### C. VIDEO WIPE

#### ■ WIPE PATTERN selection:

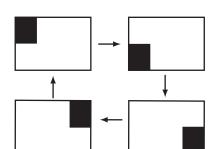
Six wipe modes can be selected as follows:

1. Press the straight wipe button (3) repeatedly, Four patterns are available.

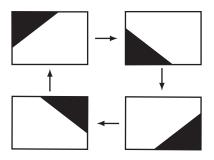




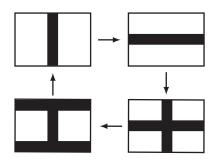
2. Press the corner wipe button (4) repeatedly, Four patterns are available.



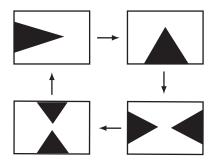
5. Press the diagonal wipe button 7 repeatedly, Four patterns are available.



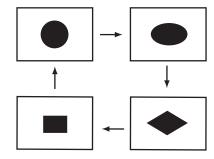
3. Press the split wipe button (5) repeatedly, Four patterns are available.



6. Press the triangle wipe button 8 repeatedly, Four patterns are available.



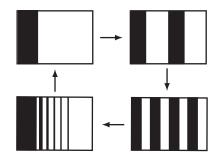
4. Press the square wipe button 6 repeatedly. Four patterns below are available. Each pattern position in this section could be set by joystick 7.

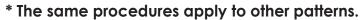


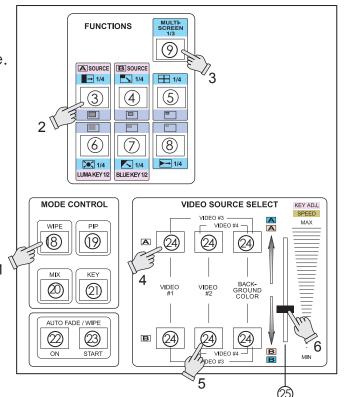
#### C. VIDEO WIPE

#### ■ MULTIPLE WIPE selections:

- 1. Press the wipe button (18).
- 2. Press the straight wipe button (3) for example.
- 3. Press the multi (9) button repeatedly to have the desired multiplication.
  - Four patterns are available.
- 4. Press one of the A-bus selection button.
- 5. Press one of the B-bus selection button.
- 6. Operate the video slide (25).







**FUNCTIONS** 

**B** SOURCE

■ 1/4

(4)

A SOURCE

(3)

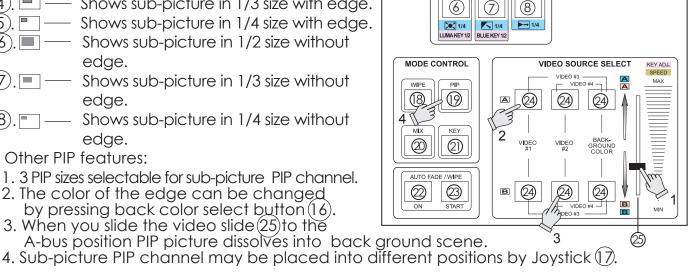
(9)

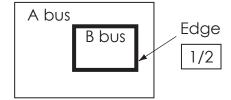
1/4 (5)

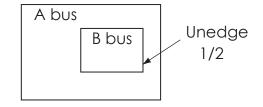
#### D. P-IN-P

Press the operation panel to initial mode:

- 1. Slide the video slide fully to the B-bus position.
- 2. Press one of the A-bus selection button.
- 3. Press one of the B-bus selection button.
- 4. Press the PIP button (19).
- 5. PIP mode changes by selecting  $(3) \sim (8)$  buttons.
  - 3). 🔳 Shows sub-picture in 1/2 size with edge.
  - 4). 🔳 Shows sub-picture in 1/3 size with edge.
  - ). Thows sub-picture in 1/4 size with edge.
  - Shows sub-picture in 1/2 size without
  - Shows sub-picture in 1/3 size without edae.
  - Shows sub-picture in 1/4 size without edge.
- 6. Other PIP features:
  - 1. 3 PIP sizes selectable for sub-picture PIP channel.
  - 2. The color of the edge can be changed by pressing back color select button (16).
  - A-bus position PIP picture dissolves into back ground scene.



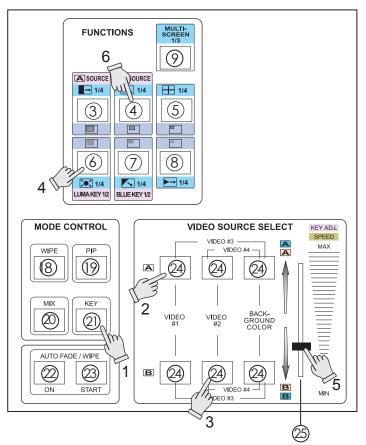




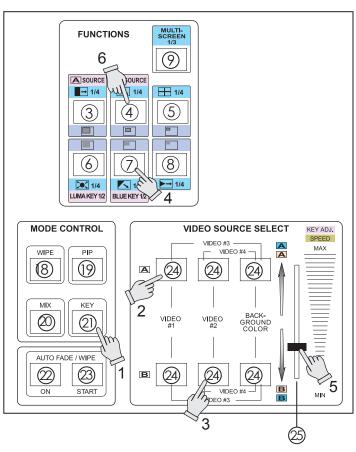
#### E. KEY

#### Reset the operation panel to initial mode:

- How to use the Luma key effect:
- 1. Press the KEY button (21).
- 2. Press one of the A-bus selection button.
- 3. Press one of the B-bus selection button.
- 4. Press the LUMA KEY button (6).
- 5. Use slide bar to control the Luma key level.
- 6. Press button 3 or 4 to change the source that is being keyed.
- 7. Press the LUMA KEY 6 once again to achieve Negative Luma Key.



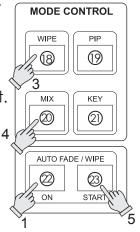
- How to use the Blue key effect:
- 1. Press the KEY button (21).
- 2. Press one of the A-bus selection button.
- 3. Press one of the B-bus selection button.
- 4. Press the BLUE KEY button (7).
- 5. Use slide bar to control Blue key level.
- 6. Press button 3 or 4 to change the source that is being keyed.
- 7. Press the BLUE KEY (7) once again to achieve Negative Blue Key.

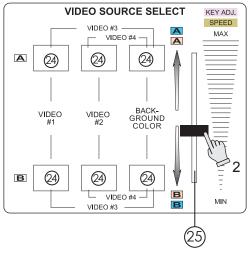


## F. AUTO FADE/WIPE selection

#### Reset the operation panel to initial mode:

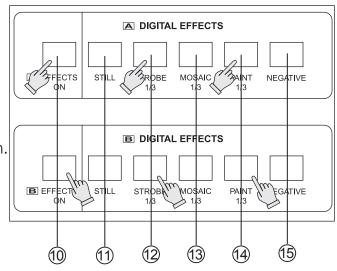
- 1. Press the ON button 22 to enter into AUTO FADE/WIPE mode.
- 2. FADE/WIPE transition time can be adjusted by operating slide bar 25.
- 3. Press the WIPE button (8) for wipe effect.
- 4. Press the MIX button ② for mix(fade) effect.
- 5. Press the START button 23 to start Auto wipe or fade effect.





#### G. DIGITAL EFFECT

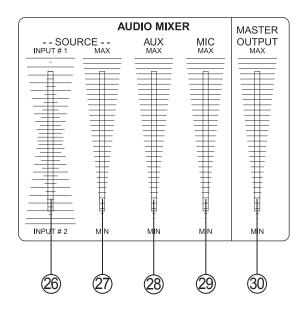
- Digital effect section which generates digital special effects for the A bus and B-bus source video signals. The selected effect(s) can be added to either the A-bus or B-bus at one time.
- The mosaic effects is not available in sub-picture under PIP mode.
  - 10. A, B: A-bus, B-bus digital effect on button.
  - 11. STILL button.
  - 12. STROBE button 3 steps.
  - 13. MOSAIC button 3 steps.
  - 14. PAINT button 3 steps.
  - 15. NEGATIVE button.

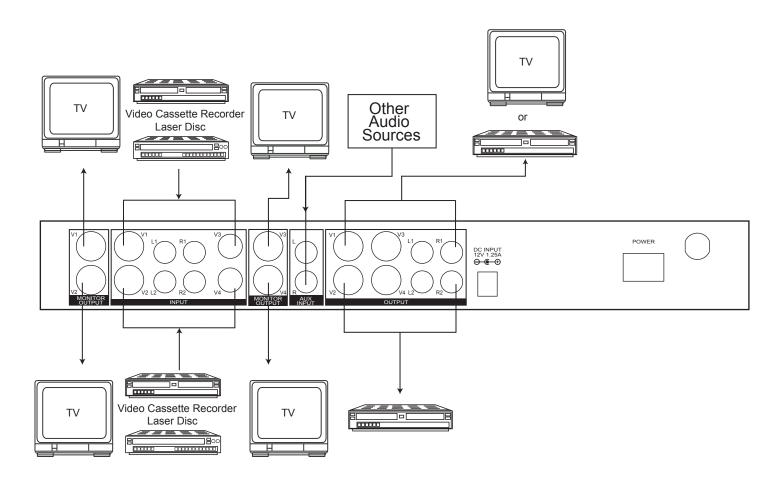


#### H. AUDIO MIXER

- Audio can be processed either separately or in combination with a video source.
- 26. AUDIO: This slide dissolves the audio from source A to Source B when the slide is moved from the top to the button.
- 27. SOURCE: This slide controls the audio level of the source selected with slide 26.

  If 26 is at the top, source A, then the level input of source A can be reduced with this slide.
- 28. AUX: Controls the audio level of the auxiliary input.
- 29. MIC: Controls the audio level of the microphone input.
- 30. MASTER: Controls the overall audio output level.





## Setting the video system:

The video system of SD21 is worldwide compatible. You can change its video system by pressing a special key combination so that it can be used everywhere in the world.

Please note this feature is not available on older version of the SD21. If this manual is included in your unit, then the feature is available.

Here is the way to set the SD21 to different worldwide TV systems.

Press and hold the following keys for over 10 seconds to get your desired system:

Color + ON(B-bus).....NTSC Color + Still (B-bus).....PAL

Color + Strobe(B-bus).....PAL N

Color + Mosaic(B-bus).....SECAM

Color + Paint(B-bus).....PAL M

Color + Nega(B-bus).....NTSC 4.43

## **Specifications**

Source Input	x 4 (Source 1, 2, 3, 4)   Video input:   1.0 Vp-p 75 $\Omega$ NTSC (PAL) composite signal, BNC Connectors Audio input:   -6 dBs/20 k $\Omega$ Pin Jack (L/R).
External Sound Input	MIC input: x 1 (MIC); -60 dBv/600 $\Omega$ AUX input: x 1 (AUX); -6 dBs/20 k $\Omega$ , Pin Jacks(L/R)
Recording Output	x 4 (Video out 1,2,3,4)  Video output:  1.0 Vp-p 75 Ω NTSC (PAL) composite signal, BNC Connectors  Audio output:  -6 dBs/ 1 kΩ Pin Jacks(L/R)
Monitor Output	x 4 (monitor out) video output: 1.0 Vp-p 75 $\Omega$ composite signal, BNC Connectors
Headphone Output	x 1 (Headphone); -20 dBv~ -80 dBv, $8\Omega$ unbalance, phone-5 jack
Effects	Video: Still, Strobe, Mosaic, Paint, Negative, Wipe, Mix, Fade, Picture-In-Picture, Chroma key, Luminance key
Back Color	White, Yellow, Cyan, Green, Magenta, Red, Blue, Black
Wipe Patterns	96 patterns
S/N (Typical)	video: 48 dB (composite), Audio: 60 dB
Power Source	12V DC
Power Consumption	Approx. 15W
Dimensions	400(W) x 300(D) x 55(H) mm
Weight	2.5 Kgs