

iStream 402

4x2 Streaming Switcher

Datasheet V1.0





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1. OVERVIEW

The **iStream 402** HD video streaming switcher adopts portable integrated design, adopts portable integrated design, metal shell, small size and light weight, suitable for small outdoor scenes video effects switching requirements. The device integrates multiview processor, special effect generator, audio processor, control keyboard and other switcher functions.

The **iStream 402** supports 4-CH HDMI inputs. 1 channel of Multiview output, which can be connected to the display to pre-monitor the current screen, external preview signals can be output synchronously, which is convenient for users to expand.

It supports HDMI embedded audio and external analog audio inputs. After mixing, it can be embedded into the output HDMI signal or output from the analog port.

The resolution of all input signals is automatically adapted, and the resolution of output signals can be selected according to requirements, which is quite flexible.

The **iStream 402** switcher is suitable for live performances, course recording and studio broadcasting, etc. The switcher has a variety of functions, such as input resolution adaptive, analog audio input and output, audio embedding and de-embedding, audio mixing, Luma/Chroma key, PIP/POP, TF card recording, USB 3.0 streaming, RJ45 network port streaming, with remote upgrade capability.

2. FEATURES

It is a multi-functional switcher that requires no professional knowledge and can perform video switching and audio mixing with simple operations. This unit can be used in live broadcasting, church and various event venues.

- Portable all-in-one design, metal case, high strength and light weight.
- Support PGM and MultiView outputs.
- Support 4x HDMI inputs.
- Support 2x MIC inputs, 1 LINE IN input.
- Support 1x LINE OUT output.
- Support network streaming (RTMP).
- Support audio follow and mix function.
- Support HDMI audio de-embedding.
- Support effects switching, such as MIX/FADE.
- Support 4K signal input.
- Support FTB and color bar output.
- Supports overlay of images, text, and logo.
- Support USB3.0 UVC out.
- Support screen freeze function.
- Support POP/PIP function.
- Support luma and chroma key.
- Support PC remote control and DCB control.
- Support external expansion Tally system.
- Support wireless tally light.
- Support CUT and AUTO switching effects.
- Built-in chassis temperature detection and intelligent fan control system.
- Support software online upgrade.

- More than one hundred special effect wipes such as circle, rhombus, fan, plum blossom, shutter, etc.
- A separate PATTERN KEY can be used to set various anomalies patterns, the position, size, and quantity of images can be adjusted.

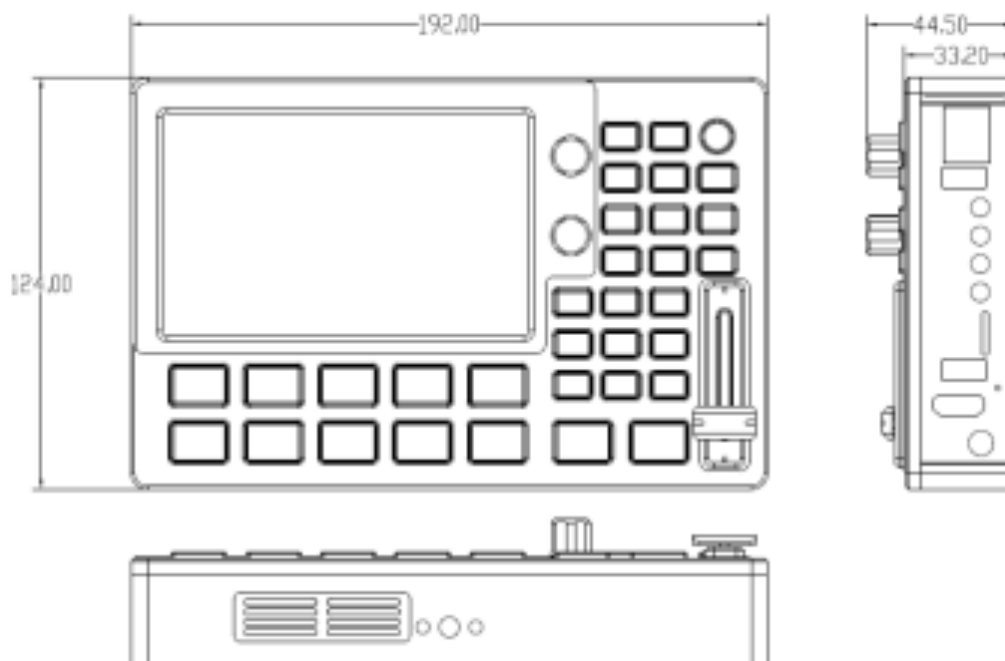
3. FUNCTIONS

Model	iStream 402
Name	4x2 Streaming Switcher
Interfaces	
Inputs	4x HDMI Inputs
PGM	1x HDMI FHD Output
Multiview	1x HDMI FHD Output
DCB2 control	√
TF card record	√
External USB record	√
Ext. SSD record	√
Network RTMP stream	√
Ethernet port (control/upgrade)	√
USB3.0 (UVC)	√
Control method	Button
LCD size	5"
Dimension	192*124*33.2mm
2-CH MIC inputs	√
1-CH LINE input	√
1-CH LINE output	√
T-bar	√
2 groups audio control faders	√

Effects	
Chroma Key	√
Luma Key	√
Color bar output	√
FTB	√
Color gamut	RGB
Audio follow	√
Audio mix	√
Hundreds of special effect wipes	√
STILL	√
Fan intelligent temperature control rate adjustment	√
PC software control (network port)	√
MIX /FADE special effect transition	√
3 Transition Rate Adjustments	√
POP/PIP	√
Highest resolution	1080P
Input Resolution Adaptive	√
Adjustable output resolution	√
Extensions	
Wireless TALLY	√
Equipment cascading	√
Synchronous control	√
External keyboard	√

4. DIMENSION

Dimension: mm



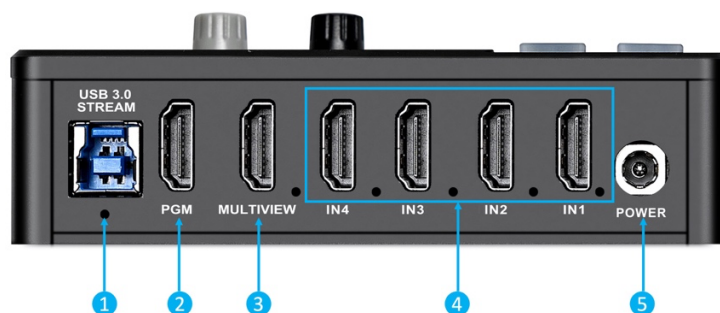
5. SPECIFICATION

Model	iStream 402
Name	4x2 Streaming Switcher
Inputs	
Input signal	HDMI video signal
Rate	270Mbps~6Gbps
Connector	HDMI A Female
Reflection loss	>15dB 5MHz~3GHz
Signal amplitude	800mV±10% (HDMI)
Impedance	100Ω (HDMI)
Balance	Adaptive
DVD input HD support	480i, 576i, 480p, 576p, 720p, 1080i, 1080p, 2160p

Computer HD input support	3840x2160, 1920x1080, 1680x1050, 1600x900, 1440x1050, 1366x768, 1360x768, 1280x1024, 1280x960, 1280x800, 1280x768, 1280x720, 1280x600, 1152x864, 1024x768, 800x600
Output	
Output signal	HDMI video signal
Rate	1.5Gbps~3Gbps
Connector	HDMI A Female
Signal amplitude	800mV±10% (HDMI)
Impedance	100Ω (HDMI)
Clock recovery	Optional
Control	
Control protocol	CAN bus
Network control	RJ45, 100M
Others	
Power supply	DC 12V
Power	>20W
Control panel	Support live production, integrate a variety of buttons
Operating temperature	0°C~50°C No condensation
Storage temperature	-20°C~75°C
Working humidity	20%~70%RH
Storage humidity	0%~90%RH, No condensation

6. PORTS

6.1 LEFT SIDE



No.	Definition	Description
1	STREAM OUT	USB-B 3.0 Interface, UVC Output
2	PGM Output	1x PGM Live Output
3	Multiview Out	HDMI Multiview Output
4	HDMI IN 1-4	4x HDMI Inputs
5	Power	DC 12V Power Supply

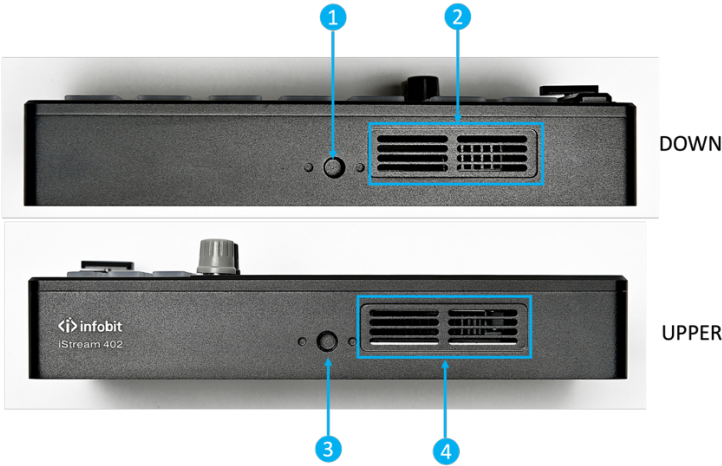
6.2 RIGHT SIDE



No.	Definition	Description
1	LOCK	Standby Switch
1	HD OUT	HDMI Output
2	EXT HDD	USB-A port, External Hard Drive Storage
3	TF Card Slot	TF Card Storage
4	LINE OUT	Stereo Audio Output
5	LINE IN	Stereo Audio Input
6	MIC IN	2x MIC Inputs
7	DCB2	DCB control (device cascade / wireless tally / external keyboard)

8	RJ45	Streaming/ upgrade/ remote control
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6.3 UPPER & DOWN SIDE



NO.	Function	NO.	Function
1	Screw Hole	3	Screw Hole
2	Heat Emission Hole	4	Heat Emission Hole