

MP-SC6T-MV

6×1 4K Presentation Switcher with HDBaseT

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Product Overview

The MP-SC6T-MV is a 6×1 4K presentation switcher with four HDMI inputs, one DisplayPort input and one USB-C input. It provides mirrored HDMI and HDBaseT outputs, with HDBaseT PoC and long-distance transmission. The switcher combines seamless/auto switching, multiview, audio mixing, CEC and flexible control through front-panel buttons, GUI, IR and RS232.

Key Features

- 6×1 4K presentation switcher with HDBaseT output
- 4× HDMI + 1× DisplayPort + 1× USB-C inputs
- HDMI and HDBaseT mirrored outputs
- HDBaseT transmission up to 40m at 4K and 70m at 1080p
- Seamless and auto switching
- Up to 16 Multiview modes
- Audio embedding, de-embedding and microphone mixing
- HDMI 1.4 and HDCP 2.2 compliant
- Front panel, Web GUI, IR, RS232 and CEC control
- USB-C power charging up to 60W

Typical Applications

Presentation systems • Meeting rooms • Training rooms • Multiview monitoring • Lecture halls • Digital signage • Professional AV installations

Manual Version: MP-SC6T-MV_2020V1.0

Technical Specifications

Specification	Details
Video Inputs	4× HDMI, 1× DisplayPort, 1× USB-C
Input Connectors	4× Type-A female HDMI, 1× DisplayPort, 1× Type-C USB
Input Resolution	HDMI/DP/USB-C up to 4K@30Hz 4:4:4
Video Outputs	1× HDMI, 1× HDBaseT
Output Connectors	1× Type-A female HDMI, 1× RJ45
Output Resolution	HDMI/HDBaseT up to 4K@30Hz 4:4:4
HDMI Standard	Up to HDMI 1.4
HDCP	Up to HDCP 2.2
Audio Inputs	1× LINE, 1× MIC; 3-pin terminal blocks
Audio Format	LINE/MIC: PCM 2.0; HDMI/DP: PCM 2.0 48K
Analog Audio Output	1× L+R balanced output via 5-pin terminal block
SPDIF Output	1× Toslink; PCM 2.0
Frequency Response	20Hz–20kHz
Control Ports	CONTACT IN, IR IN, IR OUT, IR EYE, FIRMWARE, RS232, TCP/IP
Power	AC 100–240V 50/60Hz input; 24V DC 5A output
Power Consumption	90W max
USB-C Charging	60W max
Operating Temperature	–5°C to +55°C
Storage Temperature	–25°C to +70°C
Relative Humidity	10%–90%
Dimensions (W×H×D)	250 × 44 × 200mm
Net Weight	1.6kg

Analog Audio Performance

Parameter	Specification
Max Input Level	2.0Vrms ±0.1
Input Impedance	>10KΩ
Output Frequency Response	20Hz–20kHz, ±1dB
THD+N	<0.05%
SNR	>80dB
Crosstalk Isolation	<–70dB
Output Load	1KΩ and higher
Noise	–80dB

Receiver & Control Functions

MP-MVRX HDBaseT Receiver

Specification	Details
Input	1× HDBT IN, RJ45
Output	1× HDMI OUT, Type-A female
Control	IR IN, IR OUT, RS232
Maximum Resolution	4K@60Hz 4:2:0, including 1080p@60Hz
Transmission	HDBaseT
Distance	1080p up to 70m; 4K up to 40m
Bandwidth	10.2Gbps
Video Standard	HDMI 1.4 with HDCP 2.2
Power	12VDC 1A or PoC
Power Consumption	10W
Operating Temperature	–5°C to +55°C
Storage Temperature	–25°C to +70°C
Operating Humidity	0%–90%
Dimensions	106 × 16 × 84mm
Net Weight	250g

Multiview

- Up to 16 Multiview modes can be selected.
- Built-in layouts include full-screen, PBP, PIP and multi-window arrangements.
- Four user-defined layouts can be configured through the GUI.
- Window size and source assignment can be adjusted in GUI.

Audio Management

- Audio source can be selected independently.
- Microphone input supports audio mixing.
- Source and microphone volume can be controlled from the front panel/GUI.
- Audio output delay is adjustable from 0 to 170ms.
- In full-screen mode, audio can follow video switching; Multiview defaults to HDMI 1 audio.

EDID & Display Control

The GUI supports built-in EDID selection and user-defined EDID upload. Display control includes automatic display control, no-signal timeout, RS232 command configuration, display power/input commands and selectable output resolution.

RS232 Control

Default RS232 settings: **9600 baud, 8 data bits, 1 stop bit, no parity**. Commands are terminated with CR+LF.

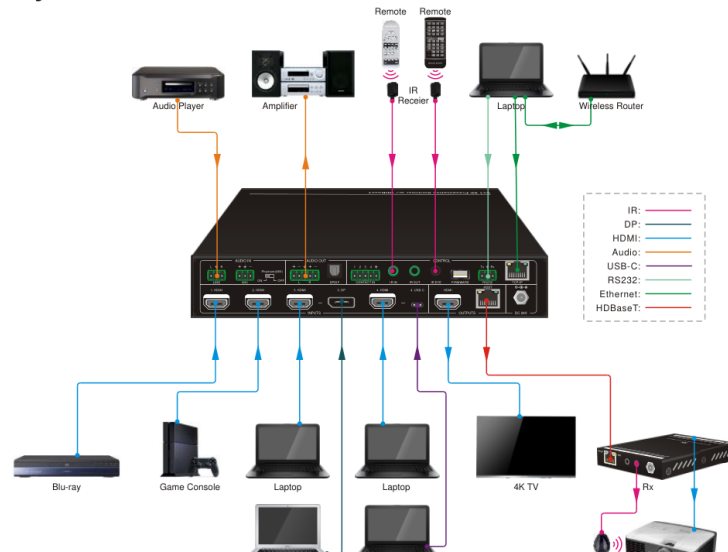
System Connection & Package Contents

System Diagram

The system connection diagram in the supplied manual shows multiple HDMI/DP/USB-C sources feeding the MP-SC6T-MV, with HDMI and HDBaseT distribution to displays. It also illustrates audio, IR, RS232 and Ethernet control paths, plus the included HDBaseT receiver.

- ④ **CTRL/UPDATE:** Switch for determining the behavior of the RS232 connection.
 - CTRL: It serves as an RS232 serial extender.
 - UPDATE: Update the Valens IC program.
- ⑤ **HDBaseT input**
- ⑥ **IR IN:** Connects to IR receiver for IR pass-through.
- ⑦ **IR OUT:** Connects to IR emitter for IR pass-through.
- ⑧ **DC 12V:** DC connector for power adapter connection.

3.4. System Connection



Front Panel Controls

Control	Function
INPUT 1–4	Select input sources; channel 3 toggles HDMI/DP and channel 4 toggles HDMI/USB-C.
AUTO	Enable/disable automatic switching in full-screen mode.
SWAP	Cycle the video source assigned to Multiview windows.
MULTIVIEW	Select built-in Multiview modes.
SELECT / FULL SCREEN	Select window A–D or display a window full-screen.
RESIZE	Adjust Multiview window size.
AUDIO SOURCE	Select audio source.
VOLUME	Adjust source/microphone volume; press to select, hold 3s to mute.

Package Contents

Qty.	Item
1	MP-SC6T-MV 6×1 Presentation Switcher
1	MP-MVRX HDBaseT Receiver
2	Mounting ears with 4 screws (switcher)
2	Mounting ears with 2 screws (receiver)

Qty.	Item
4	Plastic cushions (switcher)
4	Plastic cushions (receiver)
2	3-pin terminal blocks
2	5-pin terminal blocks
1	IR Remote
1	IR Receiver
1	IR Emitter
1	RS232 Cable (3-pin to DB9)
1	24V DC 5A Power Adapter
1	Power Cord
1	User Manual
1	3-pin terminal block (receiver)

Source

Prepared from the supplied MP-SC6T-MV user manual, Version MP-SC6T-MV_2020V1.0. Product image is taken from the manual cover; system diagram is taken from the System Connection section (manual page 7 / PDF page 10).