Solutions
When quality counts

User Guide

MS-41AO

4K60 4x1 HDMI switcher



Revision: 1.0 - Mar 2026

Contents

Introduction 03

Key Features 03

Package Contents 04

Specifications 05

Operation Controls and Functions 05

IR Cable Pin Assignment 06

IR Remote 06

Notices

- This MSolutions product contains electrical components that may be damaged by electrical spikes, surges, electric shock, lightning strikes, etc. Use of surge protection is highly recommended in order to protect and extend the life of your equipment.
- The transmission distances of data over Cat cables are measured using TE CONNECTIVITY 1427071-6 EIA/ TIA-568B termination (T568B) of cables is recommended for optimal performance. To minimise interference of unshielded twisted pairs in the Cat6A (or above) cable, do not run the Cat6A (or above) cabling with or in close parallel proximity to mains power cables.
- Do not substitute or use any other power supply other than the enclosed unit, or an MSolutions approved replacement. Do not disassemble either the Transmitter or Receiver units for any reason. Doing so will void the manufacturer's warranty.
- MSolutions reserves the right to change the specifications of this unit without prior notice. As a result of this, physical representations or graphical elements contained within this user guide may not be accurate.

Introduction

The MS-41AO is a high performance HDMI 4x1 switcher that supports up to 4K60FPS and all HDMI 3D TV formats. It supports audio extraction to separate digital and analog outputs. This product supports HDCP repeater/CEC/ARC functions. Select any of the inputs by RS-232, front panel button or IR Remote.

Key Features

- HDCP 2.2 and HDCP 1.4 compliant.
- Video formats up to 4K60FPS and all HDMI 3D video formats.
- Supports PCM, Dolby TrueHD, DTS-HD Master Audio up to 7.1CH
- Digital and analog audio output
- Supports smart EDID management(Auto/2CH/5.1CH/7.1CH selectable)
- Supports input port auto switching or manual switching mode
- Audio Return Channel (ARC) supports

Package Contents

- MS-41AO HDMI switcher.
- 1x IR Remote
- 1x 3pin-3.5mm Phoenix Connector (male)
- 1x IR Wideband Receiver Cable (1.5m)
- 1x 5V Multinational Locking Power Supply

Introduction

Connection	
Max Bandwidth:	18Gbps
Input Ports:	4 HDMI ports, 1 IR Receive port and 1 RS232 port
Output Port:	1 HDMI port and 1 L/R port
HDMI Audio Output:	PCM 2.1 / 5.1 / 7.1 CH, Dolby 5.1, DTS 5.1, Dolby-True HD, DTS-HD
ESD Protection:	Human Body Model: ±8kV (air-gap discharge) ±4kV (contact discharge)

Connection	
Input	4x HDMI IN [Type A, 19-pin female]
Output	1x HDMI OUT [Type A, 19-pin female] 1x 3.5mm PL audio out connector
Control	1x RS-232 [3pin Phoenix connector] 1x IR CTL [3.5mm stereo mini-jack] 1x Push Button

Mechanical	
Housing	Aluminium Enclosure
Silkscreen Color	Black
Dimensions	142x70x32mm
Weight	600g
Power Supply	Input: AC100-240V 50/60Hz, Output: DC 5V/1A (US/EU standards, CE/FCC/UL certified)
Power Consumption	5.04W (Max)
Operation Temperature	-10°C ~ 45°C / 14°F ~ 113°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Relative Humidity	20~90% RH (non-condensing)

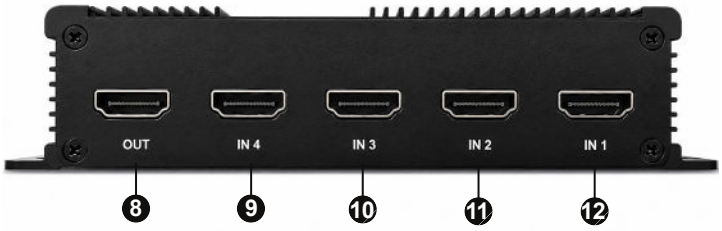
Operation Controls and Functions

Front Panel



No.	Name	Description
1	EDID DIP Switch	Used to configure the EDID mode (Auto/2CH/5.1CH/7.1CH)
2	Auto/Source Button	Switch between Auto and Manual source selection modes. Press for 2 seconds to switch states.
3	ARC On/Off Button	L/R Audio Output: Analog stereo audio output port.
4	L/R Audio Output	IR Control Port: Connect an IR receiver for remote control.
5	IR Control Port	Connect an IR receiver for remote control.
6	RS-232 Port	RS-232 Port Connects to a PC or control system for device control.
7	DC 5V Power Input	Connect the supplied 5V DC power adapter.

Rear Panel

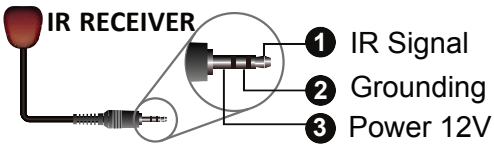


No.	Name	Description
8	HDMI OUT	The HDMI output port connects to a display.
9	HDMI IN 4	HDMI input port 4
10	HDMI IN 3	HDMI input port 3
11	HDMI IN 2	HDMI input port 2
12	HDMI IN 1	HDMI input port 1

IR Cable Pin Assignment



IR RECEIVER



Note: When the angle between the IR receiver and the remote control is ± 45 °, the transmission distance is 0-5 meters; when the angle between the IR receiver and the remote control is ± 90 °, the transmission distance is 0-8 meters

IR Remote



Power on the product or set it to standby mode.

1-4: Press 1/2/3/4 button to select the HDMI source port

ARC:Press this button to
enable or disable ARC function.
ARC LED on front panel will be illuminated if ARC function is enabled successfully.

<>: cycle between HDMI sources