SW-5004CZ

4x1 HDMI 2.0a & USB-C Switch with IR & 10W Power Delivery

User Manual

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INTRODUCTION

The **SW-5004CZ 4x1 HDMI 2.0a & USB-C Switch with IR & 10W Power Deliver** is a convenient device that allows you to switch effortlessly between four HDMI/USB-C sources on your high-definition display. It enables the transmission of full digital and high-quality video/audio from any of the four sources to your connected monitor using an IR remote control or the front panel button. With HDCP support, you can seamlessly connect up to four HDMI/USB-C sources, including devices like Apple TV, PlayStation, Xbox, PC, or smartphones with DP Alt mode.

Furthermore, the SW-5004CZ features USB Power Delivery 3.0 (PD 3.0) technology, allowing you to charge compatible devices such as smartphones through its USB-C port. This additional functionality adds convenience and versatility to the device, making it a valuable asset for managing multiple sources and enhancing your multimedia experience.

FEATURES

- HDMI 2.0a compliant
- Supports 4K2K@60 4:4:4 8bits
- Supports HDR* which is 4K2K@60 4:2:0 10bits**
- HDCP 2.2 and 1.4 compliant
- Wide frequency range: 25MHz~600MHz
- Video bandwidth: 18Gbps
- Supports xvYCC, x.v.Color & Deep color
- USB Power Delivery up to 10W
- Compatible with USB Power Delivery 3.0 (PD 3.0) specification (5V/2A output max) on USB-C port
- The switcher can select any HDMI input by front panel button and IR remote control.
- Handy front panel button to switch any four HDMI/USB-C sources
- Front Panel LED indictors
- Equalization on input ports and pre-emphasis on output port
- Easy installation

> ⚠ * HDR = High Dynamic Range.
> ** The video bandwidth of 4K2K@60 4:2:0 10bits (HDR) is 384MHz, and the 4K2K@60 4:4:4 8bits is 594MHz

PACKAGE CONTENTS

- 1x SW-5004CZ
- 1x 5V DC power adapter
- 1x IR Remote Control (10 keys)
- 1x User Manual

SPECIFICATIONS

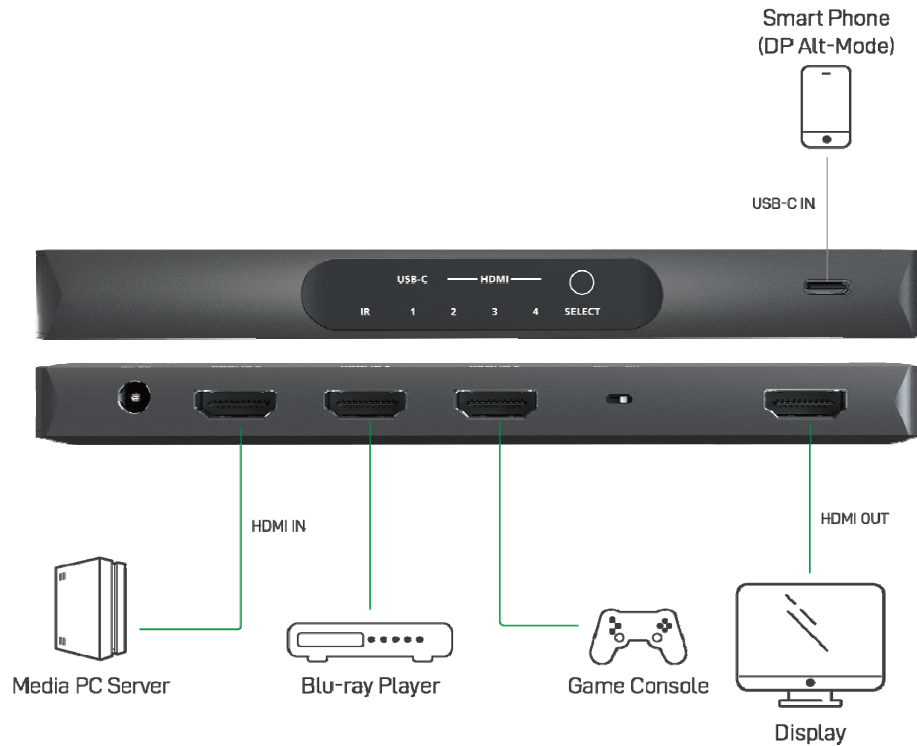| Model Name		SW-5004CZ
Technical		
Role of usage		4x1 switch
HDMI compliance		HDMI 2.0a
HDCP compliance		HDCP 2.2
Video bandwidth		Single-link 600MHz [18Gbps]
Video Support		HDR 4K2K@60 (4:2:0 10bits) / 4K2K@60 (4:4:4 8bits)
Audio Support		DTS-HD Master Audio, Dolby TrueHD Dolby Digital DTS, DVD-Audio, LPCM, SACD, MPCM
Input TMDS Signal		1.2 volts (peak-to-peak)
Input DDC signal		5 volts (peal-to-peak)
ESD Protection		Human body model—±15kV [air-gap discharge] & ±8kV [contact discharge]
Input		3x HDMI + 1x USB-C
Output		1x HDMI
IR Remote Control		Electro-optical characteristics: π= 25° / Carrier frequency: 38kHz
HDMI connector		Type A [19-pin female]
USB connector		USB-C
Mechanical		
Housing		Metal enclosure
Dimensions [L x W x H]	Model	158 x 46 x 16mm[6.2" x 1.8" x 0.6"]
	Package	
	Carton	
Weight	Model	
	Package	
Fixedness		Wall-mounting case
Power supply		5V DC
Power consumption		12 Watts [max]
Operation temperature		0~40°C [32~104°F]
Storage temperature		-20~60°C [-4~140°F]
Relative humidity		20~90% RH [no condensation]

PANEL DESCRIPTIONS

1. **IR Sensor:** IR sensor for receiving the IR commands from IR remote
2. **Selected Source Status LED:** the indicator LED will show the selected source.

LED Indicator	
	Select USB-C input 1
	Select HDMI input 2
	Select HDMI input 3
	Select HDMI input 4

3. **Channel Push Button:** Select input channel
4. **USB-C Input 1:** Connect to USB-C source
5. **+5V DC:** Connect to a 5V DC power supply
6. **HDMI Input 4~2:** Connect to HDMI sources (from the left to right is input 4, 3, 2)
7. **Slide Switch:** for F/W update mode
   [Left] Normal mode
   [Right] F/W update mode
8. **HDMI OUT:** Connect to HDMI display

CONNECTION DIAGRAM

Smart Phone
(DP Alt-Mode)

USB-C IN

USB-C ——— HDMI ———

IR   1   2   3   4   SELECT

HDMI IN

HDMI OUT

Media PC Server

Blu-ray Player

Game Console

Display

OPERATION APPROACH

Method A: IR Remote Control

4x1 HDMI & USB-C SWITCH
with IR & Power Delivery

Function Key	Function Description
⏻ POWER	Reserved
SOURCE SELECT 1	Select **HDMI INPUT 1** to be the input source
SOURCE SELECT 2	Select **HDMI INPUT 2** to be the input source
SOURCE SELECT 3	Select **HDMI INPUT 3** to be the input source
SOURCE SELECT 4	Select **HDMI INPUT 4** to be the input source
SOURCE SELECT 5	Reserved
‹	Switch from the selected input back to the prior input channel
›	Switch from the selected input to the next input channel
M	Turn on/off the auto detect function*
fn	Reserved

⚠
1. Auto detect function is enabled by default. Users can use the remote control to turn it on/off.
2. Auto detect status LED
   [On] All LED indicators flash once from left to right
   [Off] The selected input source LED indicator will blink once
3. Auto detect function
   (a) When an active source device is removed or turned off, the switcher will automatically switch as follows:
   • If there is a source device is connected or turned on, the switcher will select it automatically.
   • If not, the input with the highest priority among the connected signals is selected automatically. Input priority is from the highest input 1 to the lowest input 4.
   (b) When the switcher is power cycled, it will re-detect.

WARRANTY

The SELLER warrants the **SW-5004CZ 4x1 HDMI 2.0a & USB-C Switch with IR & 10W Power Delivery** free from defects in the material and workmanship for 1 year from the date of purchase from the SELLER or an authorized dealer. Should this product fail to be in good working order within 1 year warranty period, The SELLER, at its option, repair or replace the unit, provided that the unit has not been subjected to accident, disaster, abuse or any unauthorized modifications including static discharge and power surge. This warranty is offered by the SELLER for its BUYER with direct transaction only. This warranty is void if the warranty seal on the metal housing is broken.

Unit that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of repair. Such repairs are warranted for 90 days from the day of reshipment to the BUYER. If the unit is delivered by mail, customers agree to insure the unit or assume the risk of loss or damage in transit. Under no circumstances will a unit be accepted without a return authorization number.

The warranty is in lieu of all other warranties expressed or implied, including without limitations, any other implied warranty or fitness or merchantability for any particular purpose, all of which are expressly disclaimed.

Proof of sale may be required in order to claim warranty. Customers outside Taiwan are responsible for shipping charges to and from the SELLER. Cables and power adapters are limited to a 30 day warranty and must be free from any markings, scratches, and neatly coiled.

The content of this manual has been carefully checked and is believed to be accurate. However, The SELLER assumes no responsibility for any inaccuracies that may be contained in this manual. The SELLER will NOT be liable for direct, indirect, incidental, special, or consequential damages resulting from any defect or omission in this manual, even if advised of the possibility of such damages. **Also, the technical information contained herein regarding the SW-5004CZ features and specifications is subject to change without further notice.**