

KanaaN

User's Manual

3x1 Matrix Switch for HDMI 4K*2K & 3D



Product number: KN40593

Thank you for purchasing the HDMI Matrix Switch from KanaaN.

We hold several brands to produce and distribute our products: LEICKE (power adapters, batteries), KanaaN (adapters/converters, charging cables etc.), Sharon (iPad cases with keyboard, fans etc.), Hebron (protective cases, docking stations, screen protectors etc.), Manna (cases for tablets and smartphones).

We continuously work on the development of our products, our customer support and innovations. Our products have a long service life, are eco-friendly and high performing. Furthermore, every day we do our very best to satisfy you as our customer. That is why you, no matter if private or business customer, are in the focus of our company's efforts. We take your reviews and proposals seriously and evaluate them continuously. That way, we get to know you and your demands on our products and services better and thus allow for positive enhancements.

To discover more about LEICKE products, or if you have any questions about this product, visit our website www.leicke.com.

Dear customer,

*This 3x1 HDMI Matrix Switch from our brand KanaaN is specially designed for either home or professional application. It enables you to connect multiple HDMI devices to two display devices without having to change any cables for usage. The included remote control enables you to switch easily. The matrix switch supports the new resolutions UHD and 4K*2K and 3D. The splitter may also be used as regenerator or amplifier for the use of long HDMI cables.*

Your LEICKE Team!

TECHNICAL DETAILS

Supported formats	HDMI 1.4b, ARC, 3D supported, CEC, Blu-Ray 24/50/60fs, HD-DVD, xvYCC
HDMI resolution	4k*2k (3840*2160) @ 24/25/30 Hz/ 3D /1080p /1080i /720p / 576p / 576i / 480p / 480i @ 24/50/60 Hz
Maximum data throughput	10.2 Gbps
Colour depth	24/30/36/48 bit
Band width	up to 340 MHz
Supported audio formats	DTS-HD/Dolby-TrueHD/LPCM 7.1/DTS/Dolby-AC3/DSD-HD (HBR)
Maximum cable length input/output	≤ 15m/25m (HDMI AWG26)
Input video signal (TDMS)	0.5~1.5V p-p
Input DDC signal	5V p-p (TTL)
Maximum current consumption	1000 mA
Power supply	AC: (50Hz, 60Hz) 100V-240V DC: 5V, 1A
Dimension (L x W x H)	93x56x18 (mm)
Weight	140 g

PACKAGE CONTENTS

Before attempting to use this device, please check the packaging and make sure the following items are contained in the package:

Number of Pieces	Name	Note
1	KanaaN 5x1 HDMI 4K*2K Matrix Switch	-
1	Micro-USB Power Cable	DC 5V/1A
	IR Cable	IR extender
1	Remote control	battery included
1	User's Manual	-

CONNECTION AND OPERATION

Step 1: Connect your source devices and displays to the KanaaN Matrix Switch.

Step 2: Connect the Micro-USB-Power cable with the HDMI splitter.

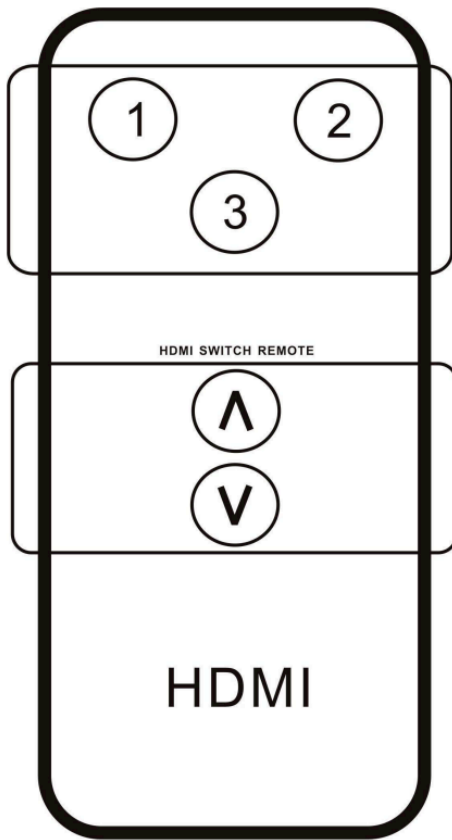
You can charge it, for example, with a USB-power supply.

Step 3: If you want to use the remote control, please connect the IR extender to the switch.

Step 4: Now choose the right combination of inputs and outputs with the remote control (pull plastic flap out first) or directly at the switch. As soon as the connection is established, the LEDs of the inputs and outputs will glow.

Note: For the protection of the switch and other devices, please make sure, that the switch is switched off before connecting the other devices. Please insert and extract all cables gently.

REMOTE CONTROL (IR)

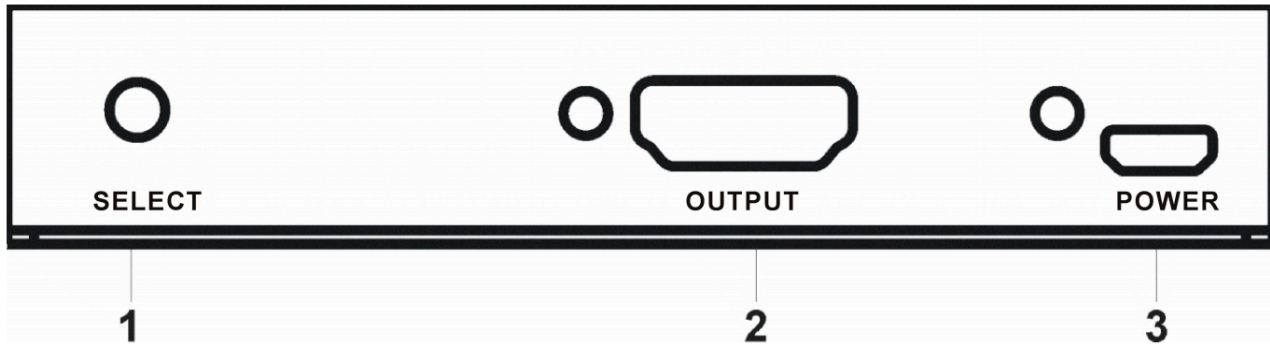


Directly select a specific HDMI Input choosing 1, 2, 3.

Press 'Up' or 'Down' buttons to select the previous or next input source.

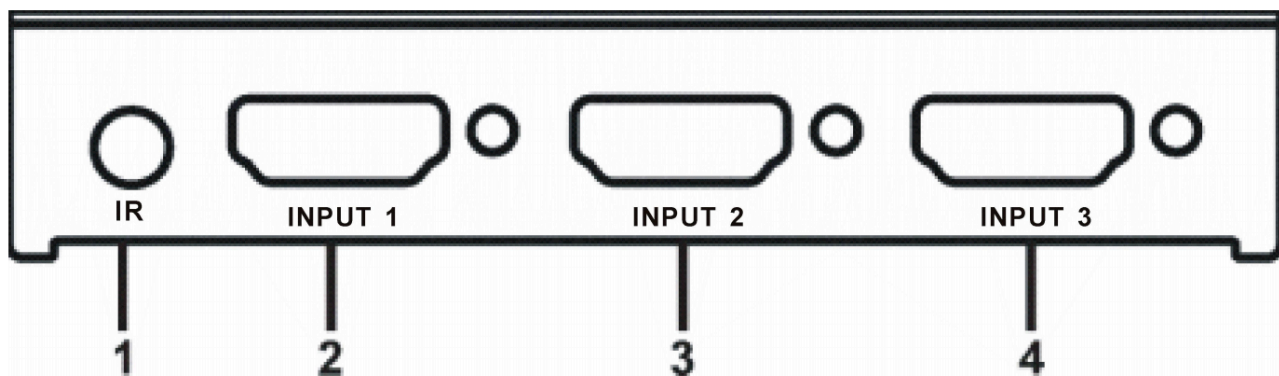
CONNECTION AND KEY'S

Figure 1: Front Panel



- 1: Input Select
- 2: HDMI Output and LED
- 3: USB Power Input and LED

Figure 2: Back Panel



- 1: IR Input
- 2-4: HDMI Input's and LED

TROUBLE SHOOTING

Please check the connection carefully before turning on the device. Please check, if all cables are correctly connected. The LEDs will help you to localise any cable problems as fast as possible.

Problem	Possible Cause/Possible Solution
No image	<ul style="list-style-type: none">• Is the power LED on? (check power supply)• Are the channels correctly adjusted? (Check configuration)• Do both devices support the output format? (choose the lower one if not)• Is the cable quality good enough? (use shorter/higher screened cable)
Audio and image troubles	<ul style="list-style-type: none">• Are the used cables of poor quality or maybe too long?• Are input device and output device compatible with each other?• Are the plugs correctly connected?• Check power supply. If necessary, choose another wall outlet.• Loosen HDMI cable and plug in again
Remote control is not working	<ul style="list-style-type: none">• Has the plastic strap been removed?• Is the remote controls battery low?• Is the IR-extender connected to HDMI-Switch?

Our customer's support will be glad to help you under info@leicke.com.

SAFETY NOTES

For your own safety and for long enjoyment of our product, please follow the following safety instructions:

- Please use device as described in the manual.
- To avoid damages to the video system by inrush current, please switch the amplifier/TV off before installing the converter. Non-compliance may cause damages to TV, amplifier system and your hearing! The amplifier is to be switched on last, after signal source and converter are already switched on.
- If the converter does not work normally, please disconnect the power adapter from the circuit and try to find the cause.
- Use original factory power adapter. Do not attempt to use the converter with other power adapters. Despite of matching plug connectors it may still damage the converter, the signal source and the sound system!
Warning: Power adapters with a higher voltage may damage the converter.
- Do not pull on power cord when taking off the wall socket.
- Turn off power when device is not in use for a longer time.
- Do not open cover and do not touch inner parts.
- Please keep power adapter and converter dry and just use in dry environment.
- Keep away from damp, high temperature, dusty, erosive and oxidative environment.
- Do not touch with wet hands.
- Keep safe from being hit or falling down.

FCC Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures: - Reorient or relocate the receiving antenna. - Increase the separation between the equipment and receiver. - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. - Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following conditions:

1. This device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

FCC-Caution: FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

IMPORTANT NOTE:

Radiation Exposure Statement:

1. This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users should follow the specific instructions in the user's manual to comply with the FCC rules.
2. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

DISPOSAL

This device contains materials that must not be disposed of as household waste. Please check local laws concerning the applicable disposal regulations. Protect the environment by participating in recycling programs!



DECLARATION OF CONFORMITY

Declaration of Conformity with regard to the EU Directive EMC 2014/30/EU. See also at www.leicke.com.

CONTACT

If you have any questions, please feel free to contact us.

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