





User Manual

4x1 Multiformat Presentation Switcher 4K (60Hz 4:4:4), HDMI Out with HDCP 2.2 support

Model PT-PSW-41E

Designed in Germany



Preface

Read this user manual carefully before using this product. Pictures shown in this manual are for reference only. Different model layouts and specifications are subject to the physical product.

This manual is for operation instructions only, not for any maintenance usage.

In the constant effort to improve our product, we reserve the right to make changes in functions or parameters without prior notice or obligation.

Trademarks

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FCC Statement

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. It 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 commercial installation.

Operation of this equipment in a residential area is likely to cause interference, in which case the user at their own expense will be required to take whatever measures may be necessary to correct the interference.

Any changes or modifications not expressly approved by the manufacture would void the user's authority to operate the equipment.





REACH | 1907/2006/EU

ROHS | 2011/65/EU

PureLink hereby declares that this product **PureTools PT-PSW-41E** complies with Directives 1907/2006/EU und 2011/65/EU.

EMC / LVD (Electro Magnetic Compatibility / Low Voltage Directive)

PureLink GmbH hereby declares that this product **PureTools PT-PSW-41E** complies with Directives 2014/30/EU and 2014/35/EU. The full text of the EU Declaration of Conformity is available at the following Internet address:

http://www.purelink.de/ce/4251364718384_CE.pdf







SAFETY PRECAUTIONS

To ensure the best from the product, please read all instructions carefully before using the device. Save this manual for further reference.

- Unpack the equipment carefully and save the original box and packing material for possible future shipment
- Follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- Do not dismantle the housing or modify the module. It may result in electrical shock or burn.
- Using supplies or parts not meeting the products' specifications may cause damage, deterioration or malfunction.
- Refer all servicing to qualified service personnel.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Do not put any heavy items on the extension cable in case of extrusion.
- Do not remove the housing of the device as opening or removing housing may expose you to dangerous voltage or other hazards.
- Install the device in a place with fine ventilation to avoid damage caused by overheat.
- Keep the module away from liquids.
- Spillage into the housing may result in fire, electrical shock, or equipment damage.
 If an object or liquid falls or spills on to the housing, unplug the module immediately.
- Do not twist or pull by force ends of the optical cable. It can cause malfunction.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.
- Unplug the power cord when left unused for a long period of time.
- Information on disposal for scrapped devices: do not burn or mix with general household waste, please treat them as normal electrical wastes.



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1. Product Introduction

Thanks for choosing the HDMI 2.0 4x1 Presentation Switcher. The switcher allows selection of four different sources (three HDMI inputs and one DisplayPort input), and will simultaneously switch the selected video to HDMI output. It supports video resolution up to 4Kx2K@60Hz 4:4:4 8bit, 1080P, and 3D. In addition, there is the smart built-in EDID setting can be selected by the 4-pin DIP switch on the rear panel.

The switcher supports stereo and multichannel audio on the HDMI inputs. In addition to the audio embedded in the HDMI output stream, the audio is simultaneously de-embedded to an optical digital audio output and a balanced analog audio output.

The switcher features multiple methods of control. When in the AUTO mode, the switcher will automatically switch to the first detected source device. When the active source is removed, the switcher will switch from input 1 to 4. The switcher can be manually controlled by the front panel buttons, IR remote and RS232 command. CEC allows the display device can be controlled by the front panel buttons and RS232 CEC commands.

1.1 Features

- Supports HDMI 2.0 and video resolution up to 4K@60Hz 4:4:4 8bit, 1080P, and 3D.
- 18Gbps bandwidth and supports HDR10, HDR10+, Dolby Vision.
- HDCP 2.2 compliant.
- Supports automatic switching.
- CEC control for display volume and ON/FF.
- Controllable via RS232 and IR.
- Optical and balanced analog audio for audio de-embedding.
- Smart EDID management for various application and customized setting.



1.2 Package List

- 1x PT-PSW-41E HDMI 2.0 4x1 Presentation Switcher
- 2x Mounting Ears with 4 Screws
- 4x Plastic Cushions
- 1x IR Receiver
- 1x IR Remote
- 1x 3-pin Terminal Block
- 1x 5-pin Terminal Block
- 1x Power Adapter (12V DC, 1A)
- 1x User Manual

Note: Please contact your distributor immediately if any damage or defect in the components is found.



2. Specification

Video	
Video Input	(1) HDMI/MHL, (2) HDMI, (1) DP
Video Input Connector	(3) Type-A female HDMI, (1) DisplayPort
HDMI Input Resolution	Up to 4Kx2K@60Hz 4:4:4 8bit
MHL Input Resolution	Up to 1080P@60Hz
DP Input Resolution	Up to 4Kx2K@60Hz 4:4:4 8bit
Video Output	(1) HDMI
Video Output Connector	(1) Type-A female HDMI
HDMI Output Resolution	Up to 4Kx2K@60Hz 4:4:4 8bit
HDMI Version	2.0
HDCP Version	2.2
MHL Version	2.2
DP Version	1.2
HDR 10	Supported
CEC	Supported
HPD	Supported
Audio	
Audio Output	(1) OPTICAL, (1) Stereo balanced L/R
Audio Output Connector	(1) Toslink connector, (1) 5-pin terminal block
HDMI Audio Format	LPCM 7.1 audio, Dolby Atmos®, Dolby® TrueHD, Dolby Digital® Plus, DTS: X™, and DTS-HD® Master Audio™ pass-through.
Stereo analog L/R audio Format	PCM
Toslink Digital Audio Format	PCM, Dolby Digital, DTS, DTS-HD
Max Output Level	2.0Vrms ± 0.5dB. 2V = 16dB headroom above -10dBV (316mV) nominal consumer line level signal
THD+N	<0.05% (-80dB), 20Hz ~ 20KHz bandwidth, 1KHz sine at 0dBFS level (or max level)
SNR	>80dB, 20Hz ~ 20KHz bandwidth
Crosstalk Isolation	>70dB, 10KHz sine at 0dBFS level (or max level before clipping)



Audio	
L-R Level Deviation	< 0.3dB, 1KHz sine at 0dBFS level (or max level before clipping)
Frequency Response Deviation	<± 0.5dB 20Hz ~ 20KHz
Output Load Capability	1Κ Ω and higher (supports 10x paralleled 10Κ Ω loads)
Stereo Channel Separation	>70dB@1KHz
Control Part	
Control	(1) FW, (1) EDID, (1) IR IN, (1) RS232, (1) TCP/IP
Control Connector	(1) Micro-USB, (1) 4-pin DIP switch,
Control Connector	(1) 3.5mm mini jack, (1) 3-pin terminal block, (1) RJ45
General	
	4K@60Hz 4:4:4 ≤ 5m,
HDMI 2.0 Cable Length	4K@60Hz 4:2:0 ≤ 10m,
	1080P ≤ 15m
Bandwidth	18Gbps
Operation Temperature	-10℃ ~+55℃
Storage Temperature	-25℃ ~+70℃
Relative Humility	10%-90%
External Power Supply	Input: AC 100~240V, 50/60Hz, Output: 12V DC 1A
Power Consumption	5W (Max)
Dimension (W*H*D)	262mm x 26mm x 84mm
Net Weight	320g



3. Panel Description

3.1 Front Panel



① **Power LED:** The LED illuminates red when the device is in standby, or illuminates green when the device is power on.

② VIDEO SOURCE:

- Press 1-4 button to select input source respectively, and its corresponding LED illuminates green.
- Press and hold the AUTO button at least three seconds to enable automatic switching mode, and its LED illuminates green.

③ DISPLAY CONTROL:

- Press **ON** to turn on the display.
- Press **OFF** to turn off the display.
- Press 🚺 to mute/unmute display audio.
- Press to decrease the audio volume gradually, or press and hold it to decrease the audio volume constantly.
- Press to increase the audio volume gradually, or press and hold it to increase the audio volume constantly.
- **FW:** Micro-USB port for firmware upgrade.



3.2 Rear Panel



① VIDEO SOURCE:

- Three type-A female HDMI input ports to connect HDMI video source.
- One DisplayPort input port to connect DisplayPort video source.
- ② HDMI OUT: Type-A female HDMI output port to connect video display.
- ③ OPTICAL: Toslink connector for digital audio output.
- 4 L/R: 5-pin terminal block for balanced audio output.
- **⑤ EDID:** 4-pin DIP switch for EDID setting.
- (§) IR IN: 3.5mm mini jack to connect IR receiver to control the switcher by the included IR remote.
- RS232: 3-pin terminal block to connect RS232 control device (PC) or a device to
 be controlled by RS232 commands.
- TCP/IP: RJ45 connector to connect control device (e.g. PC) to control the switcher via GUI.
- OC 12V: DC barrel port for power adapter connection.

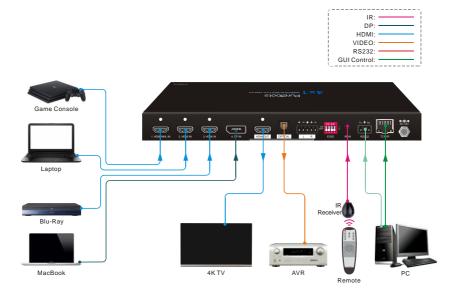


4. System Connection

4.1 Usage Precaution

- Make sure all components and accessories included before installation.
- System should be installed in a clean environment with proper temperature and humidity.
- All of the power switches, plugs, sockets, and power cords should be insulated and safe.
- All devices should be connected before power on.

4.2 System Diagram





5. Button Control

5.1 Manual Switching

When the switcher is in the manual switching mode, the Auto Mode LED goes out. If need to change the input source, please directly press the 1, 2, 3 or 4 button, and the corresponding LED illuminates green immediately.

5.2 Automatic Switching

Press and hold the **AUTO** button at least three seconds to enable automatic switching, and the Auto mode LED will light.

When in the Auto mode, the switcher will switch according to the following rules:

- The switcher will switch to the first available active input starting at input 1 to 4.
- New input: The switcher will automatically select the new input once detecting a new input.
- Reboot: If power is restored to the switcher, it will automatically reconnect the input before powered off.
- Source removed: When an active source is removed, the switcher will switch to the first available active input starting at 1-HDMI/MHL input.
- Press the Video Source button (1, 2, 3 or 4) can directly change the input source. If
 the corresponding source device is active, it will be switched as input source;
 otherwise, the switcher will switch to the first available active input starting at
 1-HDMI/MHL input.
- Press and hold the AUTO button at least three seconds again can exit AUTO mode, but the input source will remain the current setting.



5.3 Display Control

The switcher supports CEC, and the **DISPLAY CONTROL** buttons on the front panel are designed for Display On/Off and volume adjustment.

ON: Display On.

OFF: Display Off.

• IX : Mute/unmute display audio.

• Volume down display audio.

• Volume up display audio.

5.4 EDID Setting

The Extended Display Identification Data (EDID) is used for the source device to match its video resolution with the connected display. By default, the source device obtains its EDID from the first connected display. Meanwhile, since the displays with different capabilities are connected to the switcher, the 4-pin DIP switch on the rear panel can be used to set the EDID to a built-in fixed value. Use the following table to determine the setting for the 4-pin DIP switch for specific video resolution and audio capabilities.

The switch represents "0" when in the lower (OFF) position, and it represents "1" while putting the switch in the upper (ON) position.





Switch Status	Video Resolution	Audio Format
0000 (Default)	EDID pass-through	
0001	1920x1080@60Hz RGB 4:4:4 8bit	Stereo Audio
0010	1920x1080@60Hz RGB 4:4:4 8bit	High Definition Audio
0011	1920x1080@60Hz RGB 4:4:4 12bit	Stereo Audio
0100	1920x1080@60Hz RGB 4:4:4 12bit	High Definition Audio
0101	3840x2160@60Hz RGB 4:2:0 12bit	Stereo Audio
0110	3840x2160@60Hz RGB 4:2:0 12bit	High Definition Audio
0111	3840x2160@60Hz HDR	Stereo Audio
1000	3840x2160@60Hz HDR	High Definition Audio
1001	1280x800@60Hz RGB 4:4:4 8bit	Stereo Audio
1010	1920x1200@60Hz RGB 4:4:4 8bit	Stereo Audio
1011	User-defined 1	
1100	User-defined 2	
1101	User-defined 3	
1110	User-defined 4	
1111	Enable GUI or RS232 EDID management.	

Note:

- Stereo Audio: LPCM 2Ch
- High Definition Audio: LPCM 8Ch, AC-3 6Ch, DTS 5.1, Dolby Digital5.1.



6. IR Remote Control

Connect the **IR IN** port to an IR receiver, the switcher can be controlled by the below IR remote.



- ① Enter or exit standby mode.
- ② Video input selection buttons (1~4) and AUTO mode button.
- ③ Source device control buttons.

H	Page Up	₩	Page Down
*	Rewind	*	Fast Forward
►II	Pause/Play		Stop
D	Exit	ок	Enter
	Up	•	Down
4	Left	•	Right
ம	Power On/Off		

4 Display device control buttons.

ம	Power On/Off	■ ×	Mute/Unmute
4 >	Volume Down	◄)))	Volume Up



7. GUI Control

The switcher also be controlled via TCP/IP, and the default IP setting is:

IP Address: 192.168.0.178

Subnet Mask: 255.255.250.0

Please type <u>192.168.0.178</u> in the internet browser, and it will enter the below log-in webpage:



Username: admin

Password: admin

Please type the user name and password, and then click **Login** to enter the section for video switching.



7.1 Switching Tab



- Click the AUTO button to enable automatic switching mode.
- Click 1~4 button to select input source respectively.



7.2 Display Control Tab



- ON: Display On.
- OFF: Display Off.
- Mute/unmute display audio.
- Volume down display audio.
- 🗥 : Volume up display audio.



7.3 Audio Tab



- Turn on or turn off the digital audio output.
- Turn on or turn off the analog audio output.



7.4 EDID Tab



- Before select EDID in this tab, please ensure the 4-pin DIP switch on the rear panel is on the "1111" position.
- User-defined EDID: There are four EDID values can be customized by the below steps:
 - Step 1: Prepare the EDID file (.bin) on the control PC.
 - Step 2: Select the user-defined.
 - Step 3: Click the black box according the tooltip.
 - Step 4: Click **Apply** to upload the user-defined EDID.



7.5 RS232 Tab



- Baud Rate: Supports 2400, 4800, 9600, 19200, 38400, 57600 or 115200.
- Command Ending: NULL, CR, LF or CR+LF can be chosen.
- **Command:** Type the command in this box to control the third-party device which is connected to the RS232 port of the switcher.



7.6 Interface Tab



- Modify the title bar label.
- Modify the button labels.



7.7 Access Tab



- Modify the login password.
- Lock or unlock the front panel buttons.



7.8 Network Tab



- Set Static IP or Dynamic Host Configuration Protocol (DHCP).
- Modify the static IP Address, Subnet Mask, and Gateway.



7.9 GUI Upgrade

Please visit at http://192.168.0.178:100 for GUI online upgrade.

Type the username and password (the same as the GUI log-in setting, modified password will be available only after rebooting) to login the configuration interface. After that, click **Administration** in the source menu to get to **Upload Firmware** as shown below:



Select the update file and click **Apply** button, and then it will start upgrade process.



8. RS232 Control

Connect the RS232 port to control device (e.g. PC) with RS232 cable. The switcher can be controlled by sending the RS232 commands.

8.1 RS232 Control Software

- Installation: Copy the control software file to the control PC.
- Uninstallation: Delete all the control software files in corresponding file path.

Basic Setting:

Connect the switcher with all input devices and output devices needed, then to connect it with a PC which is installed with RS232 control software. Double-click the software icon to run this software.

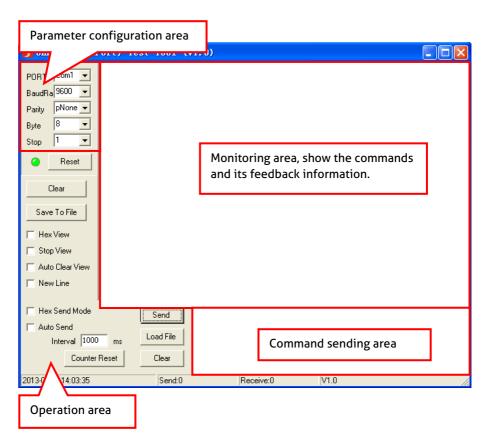
Here take the software CommWatch.exe as an example:



CommWatch.exe



The main view is shown as below:



Please set the parameters of COM number, bound rate, data bit, stop bit and the parity bit correctly, and then the command is ready to be sent in command sending area.



8.2 RS232 Command

Communication protocol: RS232 Communication Protocol

Baud rate: 9600 Data bit: 8 Stop bit: 1 Parity bit: none

Note:

All commands not need to end with "<CR><LF>".

• In the commands, "["and "]" are symbols for easy reading and do not need to be typed in actual operation.

• Please remember to end the commands with the ending symbols "." or ";".

• Please type the command carefully due to case-sensitive.

8.2.1 Device Control

Command	Function	Feedback Example
POWON.	Power on system.	Power ON!
POWOFF.	System standby.	Power OFF!
LOCK.	Lock front panel buttons.	Front Panel Locked!
UNLOCK.	Unlock front panel buttons.	Front Panel UnLock!
Baudrate[ххх].	Set baud rate to [xxx]. xxx = 115200, 57600, 38400, 19200, 9600, 4800 or 2400.	Example: Baudrate2400. Feedback: Set Local RS232 Baudrate Is 2400!
GETGUIIP.	Report GUI IP.	GUI_IP:192.168.0.178
SETGUIIP: [xox.xox.xox.xox].	Set GUI IP to [xxx.xxx.xxx.xxx].	Example: SETGUIIP:192.168.0.18. Feedback: SETGUIIP:192.168.0.18!
STA.	Report system status.	
RST.	Factory reset.	Factory Default!



8.2.2 Source Switching

Command	Function	Feedback Example
HDMI[x].	Switch to HDMI input [x]. x=1~4.	Example: HDMI4. Feedback: HDMI Out Switch To 04!
HDMIA.	Enable auto switching mode.	HDMI Out Switch Auto Mode!
ндмім.	Enable manual switching mode.	HDMI Out Switch Manual Mode!

8.2.3 EDID Management

Command	Function	Feedback Example
EDIDR[xxx].	Read the preset EDID. [xxxxx] represents the 4-pin DIP switch status.	EDID_0001!
EDIDUSE[κοσκ].	Invoke the preset EDID. [xxxx] represents the 4-pin DIP switch status. Please refer to the 5.4 EDID Setting. Note: When invoke the preset EDID, the 4-pin EDID DIP switch on the rear panel must be in the "1111" status.	EDIDUSE0001! EDID_RS232&GUI_MODE! EDID0001!



User-define EDID

There are four EDID values can be customized by sending the below command.

Note: When send the below commands to configure EDID, the 4-pin EDID DIP switch on the rear panel must be in the "1111" status.

Command	Function & Operation
	User-define EDID. xxxx = 1011, 1100, 1101 or 1110.
	Operation:
	Step 1: Prepare the EDID file (.bin).
	Step 2: Set the 4-pin DIP switch to "1111" status.
EDIDW[xxxx].	Step 3: Send the command "EDIDW1101.", and the feedback is "Please Send The EDID File!".
	Step 4: Send the EDID file (.bin). If successfully upload, the feedback is:
	"Received The File!
	Length=256!
	EDID1101 Update OK!"

8.2.4 Audio Control

Command	Function	Feedback Example
IISON.	Turn on the stereo analog L/R audio output.	IIS_OUT_ON!
IISOFF.	Turn off the stereo analog L/R audio output.	IIS_OUT_OFF!
SPDIFON.	Turn on the Toslink digital audio output.	SPDIF_OUT_ON!
SPDIFOFF.	Turn off the Toslink digital audio output.	SPDIF_OUT_OFF!



8.2.5 Display Control

Command	Function	Feedback Example
TVON.	Power on the display.	CEC_TV_POWON!
TVOFF.	Power off the display.	CEC_TV_POWOFF!
TVVOL+.	Increase the display audio.	CEC_TV_VOLUP!
TVVOL	Decrease the display audio.	CEC_TV_VOLDOWN!
TVMUTE.	Mute/unmute the display.	CEC_TV_VOLMUTE/UNMUTE!

8.2.6 CEC Control

If the input sources and display support CEC, they can be controlled by sending the below command to replace IR remote.

CEC[I/O][port][command].

- The "[I]" represents the input port. The "[O]" represents the output port.
- The "[port]" represents the port number. The HDMI input ports are 01~04, and the HDMI output port is 01.
- The "[port]" is "FF" for sending command to all input or output ports.
- The "[command]" represents the specific command from the table below.
- ✓ Control the input source:

Command	Description	Example and Feedback
CECI[port]00.	Confirm operation (Enter).	CECI0100.
		CEC_IN_01_SEND_SUCCESS!
CECI[port]01.	UP.	CECI0101.
		CEC_IN_01_SEND_SUCCESS!
CECI[port]02.	DOWN.	CECI0102.
		CEC_IN_01_SEND_SUCCESS!
CECI[port]03.	LEFT.	CECI0103.
		CEC_IN_01_SEND_SUCCESS!



Command	Description	Example and Feedback
CECI[port]04.	DIGUT	CECI0104.
	RIGHT.	CEC_IN_01_SEND_SUCCESS!
anal de	Enter main menu.	CECIO10A.
CECI[port]0A.	Enter main menu.	CEC_IN_01_SEND_SUCCESS!
CECII no nallo D	Exit menu.	CECIO10D.
CECI[port]0D.		CEC_IN_01_SEND_SUCCESS!
CECII mantil d		CECI0141.
CECI[port]41.	Volume up.	CEC_IN_01_SEND_SUCCESS!
CECI[port]42.	Volume down.	CECI0142.
CECI[port]42.	votume down.	CEC_IN_01_SEND_SUCCESS!
CECI[port]43.	Mute	CECI0143.
CECI[port]43.	Mute	CEC_IN_01_SEND_SUCCESS!
CECI[port]44.	Play.	CECI0144.
CECI[port]44.	Play.	CEC_IN_01_SEND_SUCCESS!
CECI[port]45.	Stop.	CECI0145.
CECI[port]45.	зюр.	CEC_IN_01_SEND_SUCCESS!
CECI[port]46.	Pause.	CECI0146.
CECI[port]40.	rause.	CEC_IN_01_SEND_SUCCESS!
CECI[port]48.	Rewind.	CECI0148.
CECI[port]40.	Rewilld.	CEC_IN_01_SEND_SUCCESS!
CECI[port]49.	Fast forward.	CECI0149.
CECI[port]49.	rastrorward.	CEC_IN_01_SEND_SUCCESS!
CECI[port]4B.	Forward.	CECI014B.
CECI[port]40.	Tolward.	CEC_IN_01_SEND_SUCCESS!
CECI[port]4C.	Backward.	CECI014C.
сесцрогијас.	Dackwaid.	CEC_IN_01_SEND_SUCCESS!
CECI[port]6C.	Power off.	CECI016C.
czeitbordoc.		CEC_IN_01_SEND_SUCCESS!
CECI[port]6D.	Power on.	CECI016D.
		CEC_IN_01_SEND_SUCCESS!

Note: The above CEC commands may not be used to control some kinds of source devices. Please contact your local distributor for further assistance or solutions.



✓ Control the output display:

Command	Description	Example and Feedback
CECO[port]41.	Volume up.	CECO0141.
		CEC_OUT_01_SEND_SUCCESS!
CECO[port]42.	Volume down.	CEC00142.
		CEC_OUT_01_SEND_SUCCESS!
CECO[port]43.	Mute	CECO0143.
		CEC_OUT_01_SEND_SUCCESS!
CECO[port]6C.	Power off.	CECO016C.
		CEC_OUT_01_SEND_SUCCESS!
CEO[port]6D.	Power on.	CECO016D.
		CEC_OUT_01_SEND_SUCCESS!

Note: The above CEC commands may not be used to control some kinds of display devices. Please contact your local distributor for further assistance or solutions.

8.2.7 Third-party Device Control

The switcher supports RS232 pass-through control, the third-party device can be controlled by RS232 command, and the command format as shown below:

Command	Description	Example and Feedback
/+[В]:хюх.	ххх: ASCII string. The "B" represents the baud rate of	/+3:123456.
	third-party device.	
	B=1, the baud rate is 2400	
	B=2, the baud rate is 4800	Send the command "123456" to the third-party whose baud rate is 9600.
	B=3, the baud rate is 9600	
	B=4, the baud rate is 19200	
	B=5, the baud rate is 38400	
	B=6, the baud rate is 57600	
	B=7, the baud rate is 115200	
CMDON/+[B]:жж.	Power on the third-party device.	CMDON/+3:455665.
CMDOFF/+[B]:ххх.	Power off the third-party device.	CMDOFF/+3:455666.



Note: When send HEX command in this box, the "/+[B]:" and the end mark "." must be converted to hexadecimal characters. For example, send the HEX command "**FO 01 01 02 0A**" to the third-party whose baud rate is 9600. The "/+[3]:" and the point "." Is converted to "2F 2B 5B 33 5D 3A" and "2E", thus the complete HEX command is "2F 2B 5B 33 5D 3A **FO 01 01 02 0A** 2E".

9. Panel Drawing





10. Troubleshooting & Maintenance

Problems	Potential Causes	Solutions
Output image with snowflake	Bad quality of the connecting cable	Try another high quality cable.
	Fail or loose connection	Make sure the connection is good
No output image when switching	No signal at the input / output	Check with oscilloscope or multimeter if there is any signal at the input/ output end.
	Fail or loose connection	Make sure the connection is good
	The switcher is broken	Send it to authorized dealer for repairing.
POWER indicator doesn't work or no respond to any operation	Fail connection of power cord.	Make sure the power cord connection is good.
EDID management does not work normally	The HDMI cable is broken at the output end.	Change for another HDMI cable which is in good working condition.
Static becomes stronger when connecting the video connectors	Bad grounding	Check the grounding and make sure it is connected well.
Cannot control the device by control device (e.g. a PC) through RS232 port	Wrong RS232 communication parameters	Type in correct RS232 communication parameters.
	Broken RS232 port	Send it to authorized dealer for checking.
Cannot control the device by front panel buttons while can control it through RS232 port	The front panel buttons are locked	Unlock the front panel buttons.

Note: If the problem still remaining after following the above troubleshooting steps, please contact your local dealer or distributor for further assistance.



11. After-Sales Service

If there appear some problems when running the product, please check and deal with the problems referring to this user manual. Any transport costs are borne by the users during the warranty.

- Product Limited Warranty: The product will be free from defects in materials and workmanship for two years (The purchase invoice shall prevail).
 Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the unit is within the Warranty period must be presented to obtain warranty service.
- 2) What the warranty does not cover (servicing available for a fee):
 - · Warranty expiration.
 - Factory applied serial number has been altered or removed from the product.
 - Damage, deterioration or malfunction caused by:
 - Normal wear and tear.
 - Use of supplies or parts not meeting our specifications.
 - No certificate or invoice as the proof of warranty.
 - The product model showed on the warranty card does not match with the model of the product for repairing or had been altered.
 - Damage caused by force majeure.
 - Servicing not authorized by distributor.
 - Any other causes which does not relate to a product defect.
 - Delivery, installation or labor charges for installation or setup of the product.
- 3) Technical Support: For any questions or problems, contact your distributor or reseller and tell them the respective product name and version, the detailed failure situation as well as the formation of the cases.





Asking for Assistance

Technical Support:

Phone: +49 5971 800299 - 0 Fax: +49 5971 800299 - 99

Technical Support Hours:

8:30 AM to 5:00 PM Monday thru Thursday 8:30 AM to 4:00 PM Friday

Write to:

PureLink GmbH Von-Liebig-Straße 10 D - 48432 Rheine www.purelink.de info@purelink.de