



USER MANUAL

DUX-SRX

100-METER 4K HDBASET SCALING RECEIVER



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IMPORTANT SAFETY INSTRUCTIONS



NOTE:

We reserve the right to change the content from time to time without notice.



WARNINGS:

To reduce the risk of fire, electric shock or product damage, please observe the following Safety Instructions while installing and operating the product:



Do not expose this apparatus to rain, moisture, dripping or splashing. No objects filled with liquids, such as vases, shall be placed on the apparatus.



Do not install or place this unit in a bookcase, built-in cabinet or in another confined space. Ensure the unit is well ventilated.



To prevent risk of electric shock or fire hazard due to overheating, do not obstruct the unit's ventilation openings with newspapers, tablecloths, curtains, and similar items.



Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.



Do not place sources of naked flames, such as lighted candles, on the unit.



Clean this apparatus only with dry cloth.



Unplug this apparatus during lightning storms or when unused for long periods of time.



Protect the power cord from being walked on or pinched particularly at plugs.



Only use attachments/accessories specified by the manufacturer.



Refer all servicing to qualified service personnel.

INTRODUCTIONS



DUX-SRX is 100m HDBaseT Receiver with 4K@60Hz Scaler, transmits uncompressed 4K@60Hz UHD video, Ethernet, RS232 and IR up to 100m/328ft over a signal CatX cable and supports analog and digital audio de-embedding for HDMI audio output.

DUX-SRX comes with an auto-scaler for HDMI scaling out which can be adjusted by API command. In addition, the HDBaseT Receiver is capable of automatic display control through CEC or RS232, volume adjustment, Ethernet routing and accepts third-party control.

DUX-SRX HDBaseT Scaling Receiver is ideal for applications where high quality video transmission and scaling is required. While working with a Matrix like DUX-8D, a standalone AV switching and control system with video scaling will be created and will meet requirements for classroom and huddle room applications.

Features

- Capable of transmission:
 - Via Cat5e/6 cable:
 - Up to 70m/230ft: 4K@30Hz YUV 4:4:4 24bit or 4K@60Hz YUV 4:2:0 24bit
 - Up to 100m/328ft: 1080p@60Hz 36bit
 - Via Cat6a/7 cables:
 - Up to 100m/328ft: 4K@30Hz YUV 4:4:4 24bit or 4K@60Hz YUV4:2:0 24bit
 - Up to 100m/328ft: 1080p@60Hz 48bit
- Supports analog and digital audio de-embedding for HDMI Audio Out.
- Fully compliant with HDMI 1.4, and compatible with HDMI 2.0 (4K@60Hz, 4:2:0).
- HDCP 2.2 compliant.
- Bi-directional IR, RS232 and Ethernet pass-through over a CatX cable.
- Default auto-scaler for HDMI Scaling Out or output resolution adjustment by API.
- Built-in CEC controller for HDMI OUT.
- Built-in RS232 controller for pre-loading or storage of RS232 commands of the display device.
- Automatic CEC and RS232 command to power on or standby the display by detecting input signal status.
- Seamless switching when using with a Matrix like DUX-8D.

NOTE: The actual signal transmission distance depends on signal resolution and cable quality.

PACKING LIST

- 1 x DUX-SRX
- 1 x Power Adapter (12 VDC, 3.0A)
- 1 x AC Cable
- 2 x Phoenix Male Connector (3.5 mm, 3-pin)
- 1 x IR Emitter
- 1 x IR Receiver
- 2 x Mounting Brackets
- 1 x User Manual

SPECIFICATIONS

Technical	
Input	1 x HDBT IN
Input Signal Type	HDBT
Input Resolution	- VESA: 800x600⁸, 1024x768⁸, 1280x768⁸, 1280x800⁸, 1280x960⁸, 1280x1024⁸, 1360x768⁸, 1366x768⁸, 1440x900⁸, 1600x900⁸, 1600x1200⁸, 1680x1050⁸, 1920x1200⁸ - SMPTE: 720x480P^{7,8}, 720x576P⁶, 1280x720P^{6,7,8}, 1920x1080P^{6,7,8}, 3840x2160P^{2,3,5,6,8}, 4096x2160P^{2,3,5,6,8} 1 = @ 23.98 Hz, 2 = @ 24 Hz, 3 = @ 25 Hz, 4 = @ 29.97 Hz, 5 = @ 30 Hz, 6 = @ 50 Hz, 7 = @ 59.94 Hz, 8 = @ 60 Hz;
Input Video Level	0.5-1.2 V p-p
Output	1 x HDMI OUT 1 x S/PDIF OUT 1 x AUDIO OUT
Output Signal Type	HDMI: TMDS
Audio Output	S/PDIF OUT L/R OUT
Audio Format	S/PDIF OUT: PCM 2.0, Dolby 2.0, Dolby 5.1; L/R OUT: PCM 2.0.
Output Resolution	- VESA: 800x600⁸, 1024x768⁸, 1280x768⁸, 1280x800⁸, 1280x960⁸, 1280x1024⁸, 1360x768⁸, 1366x768⁸, 1440x900⁸, 1600x900⁸, 1600x1200⁸, 1680x1050⁸, 1920x1200⁸ - SMPTE: 1280x720P⁸, 1920x1080P⁸, 3840x2160P^{5,8} 1 = @ 23.98 Hz, 2 = @ 24 Hz, 3 = @ 25 Hz, 4 = @ 29.97 Hz, 5 = @ 30 Hz, 6 = @ 50 Hz, 7 = @ 59.94 Hz, 8 = @ 60 Hz;
Video Impedance	100 Ω
Maximum Pixel Clock	594 MHz

Control	
Control Methods	Telnet, RS232, IR
General	
Operating Temperature / RH	32°F ~ 113°F (0°C ~ 45°C) 10% ~ 90%, non-condensing
Storage Temperature / RH	-4°F ~ 140°F (-20°C ~ 70°C) 10% ~ 90%, non-condensing
Power Supply	12 VDC 3.0A
Power Consumption	16.4 W (Max.)
ESD Protection	Human-body model: ±8 kV (Air-gap discharge) ±4 kV (Contact discharge)
Dimension (W × H × D)	234.4 mm × 25 mm × 143 mm
Weight	0.9 kg
Certification	CE, FCC

CABLE SPECIFICATIONS

To ensure best performance of DUX-SRX, please use straight-through Category cables wired to T568B standard and a Transmitter device which also supports 100-meter transmission.

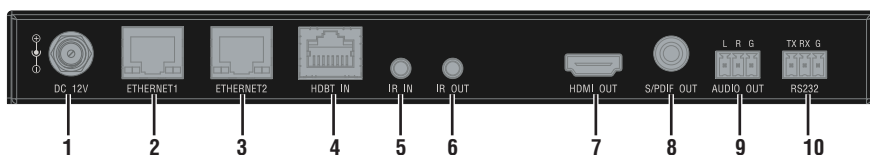
Cable Type	Range	Supported Video
Cat5e/6	100m/328ft	1080p@60Hz 36bit
	70m/230ft	1080p@60Hz 3D 4K@30Hz YUV4:4:4 4K@60Hz YUV4:2:0
Cat6a/7	100m/328ft	1080p@60Hz 36bit 1080p@60Hz 48bit 1080p@60Hz 3D 4K@30Hz YUV4:4:4 4K@60Hz YUV4:2:0

PANEL OVERVIEW



Front Panel

Item	Name	Description
1	POWER LED	On: DUX-SRX is powered on. Off: DUX-SRX is powered off.
2	SCALER LED	Blinking: DUX-SRX is working properly. Off: DUX-SRX is not working properly.
3	STATUS LED	Blinking: DUX-SRX is working properly. Off: DUX-SRX is not working properly.
4	HDCP LED	On: HDCP video is being transmitted. Blinking: Non-HDCP video is being transmitted. Off: No HDMI signal.
5	LINK LED	On: HDBT IN is linked. Off / Blinking: HDBT IN is not linked and there is a link error.



Rear Panel

Item	Name	Description
1	DC 12V	Connects the Power Adapter provided.
2	ETHERNET 1	Connects to an Ethernet device.
3	ETHERNET 2	Connects to an Ethernet device.
4	HDBT IN	Connects to an HDBT Transmitter device via a CatX cable.
5	IR IN	Connects the IR Receiver provided.
6	IR OUT	Connects the IR Emitter provided.
7	HDMI OUT	Connects to an HDMI display device.
8	S/PDIF OUT	Uses a coaxial port for S/PDIF digital audio output.
9	AUDIO OUT	Uses a 3-pin Phoenix female port for L/R analog audio output.
10	RS232	For RS232 serial communication or firmware upgrading.

INSTALL HARDWARE



WARNING:

- Before installation, disconnect the power supplies of all the devices.
- Please use quality cables and accessories specified or provided by the manufacturer.
- During installation, connect and disconnect cables with caution.

To install DUX-SRX with an HDBT Transmitter (e.g. DUX-8D) (See Application Example: System Wiring on Page 11):

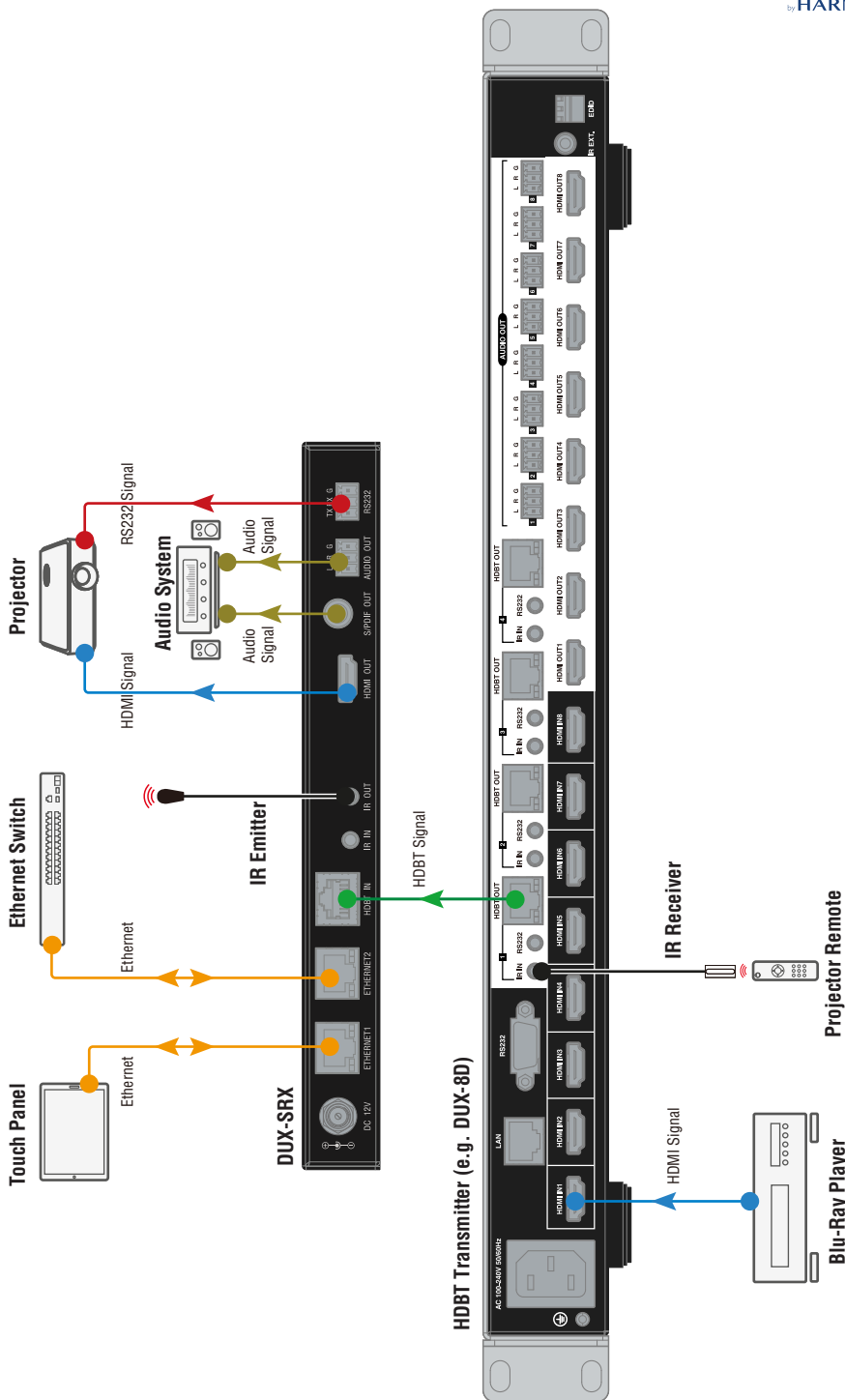
1. Connect the HDBT Transmitter (e.g. DUX-8D) selected to input sources (e.g. HDMI input sources from a Blu-ray Player, cable/satellite TV, media server, etc.).
2. Connect DUX-SRX's **HDBT IN** to HDBT OUT of the HDBT Transmitter.
3. Connect DUX-SRX's **HDMI OUT** to an HDMI output device (e.g. a projector).
4. If Audio Output is needed, connect DUX-SRX's **S/PDIF** (for digital audio signal) or **L/R** (for analog audio signal) connector.
5. Connect the included Power Adapter to DUX-SRX.
6. Power on all the devices and start operation.



NOTE:

1) 70m/230ft @4K or 100m/328ft @1080p are maximum transmission distances realizable when DUX-SRX and other devices are in perfect conditions and the straight cable runs with no electrical interference, bends, kinks, patch panels or wall outlets, etc. If any of these turns to be an issue in your installation, transmission distance will be affected.

2) When all set, check the LED indicators of DUX-SRX. For LED indication, please refer to page 08.



Application Example: Sytem Wiring

OPERATE WITH IR

DUX-SRX allows IR pass-through over HDBaseT. Hence, you can either control the source from the display location or control the display from the source location.

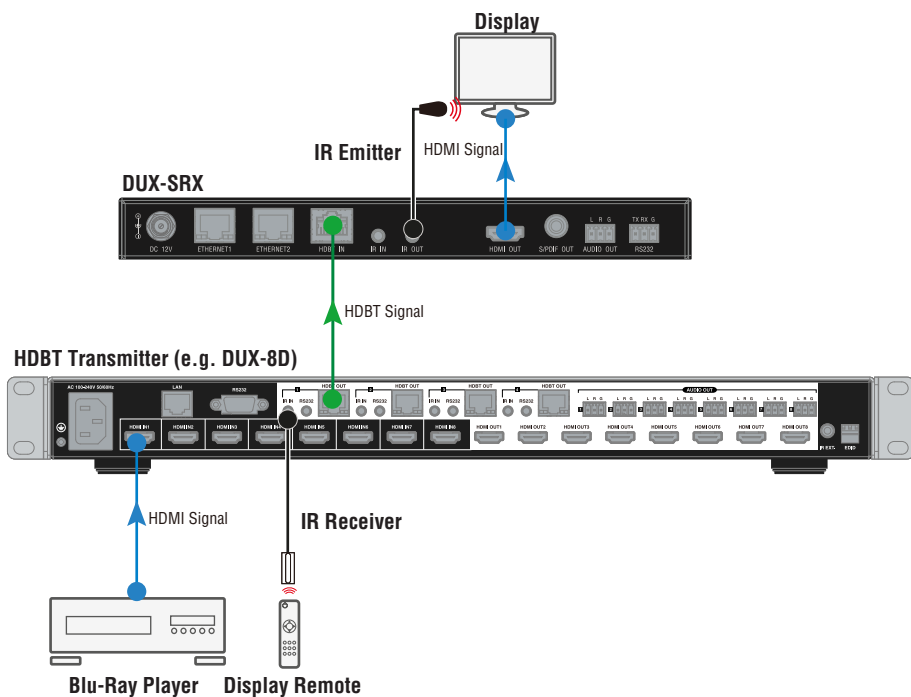
To realize such function, an HDBT Transmitter, e.g. DUX-8D or DUX-TX is needed.

Control the Display

To control the display from the source location:

1. Connect HDMI Display device to HDMI OUT of DUX-SRX.
2. Connect the IR Emitter provided to IR OUT of DUX-SRX.
3. Connect the IR Receiver provided and a source device to the HDBT Transmitter (e.g. DUX-8D).
4. Connect DUX-SRX and the HDBT Transmitter through HDBT.

When all set, the display can be controlled at the source end through a display remote.

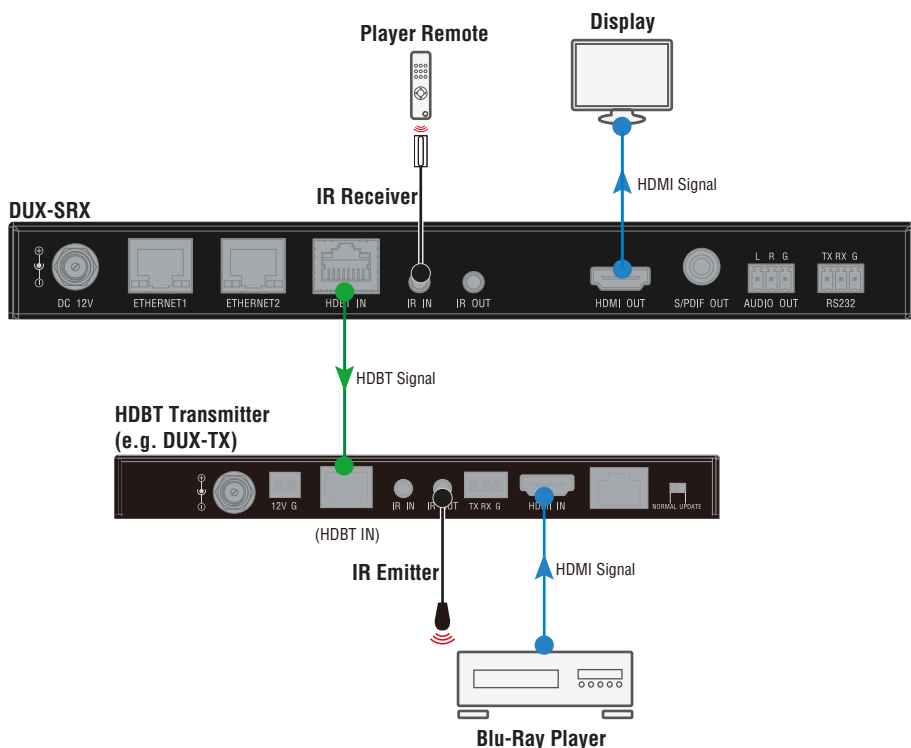


Control the Source

To control the source from the display location:

1. Connect the IR Receiver provided to **IR IN** of DUX-SRX;
2. Connect a display device to **HDMI OUT** port of DUX-SRX.
3. Connect the IR Emitter provided and a source device to the HDBT Transmitter (e.g. DUX-TX).
4. Connect DUX-SRX and the HDBT Transmitter via HDBT.

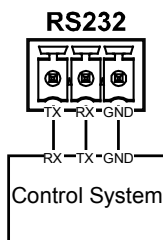
When all set, the source can be controlled at the display location through a source device remote.



OPERATE WITH RS232

RS232 Pinout

DUX-SRX installs a RS232 port at its rear panel and accepts Phoenix connector for firmware upgrading or serial communication.



RS232 for API Command

Connecting DUX-SRX to a control PC, users can control the device using API command over a professional serial interface software.

Before executing the API command through RS232 serial connection, please ensure the RS232 interface of DUX-SRX and the control PC are configured correctly. Please refer to the parameters in the table below.

A whole list of API Commands for controlling DUX-SRX is available in Appendix.

Parameters	Value
Baud Rate	9600 bps
Data bits	8 bits
Parity	None
Stop bits	1 bit
Flow control	None

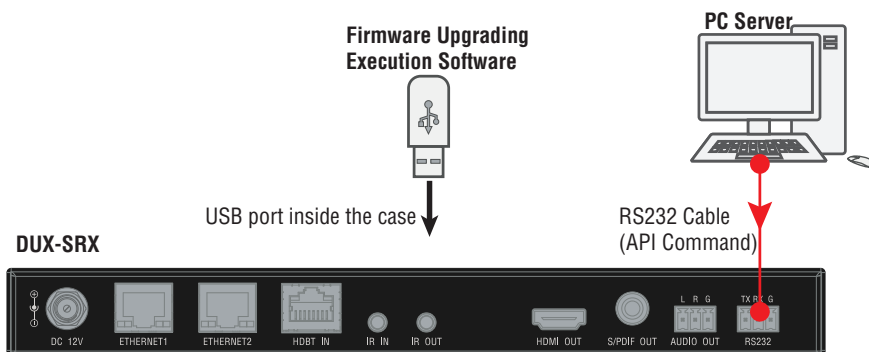


RS232 for Firmware Upgrading

RS232 port of DUX-SRX can be used for firmware upgrading.

To upgrade firmware of DUX-SRX:

1. Download firmware upgrading execution software (please contact the product manufacturer or your local dealer) to a flash drive;
2. Connect the flash drive to the USB port (inside the case) of DUX-SRX;
3. Connect your PC to RS232 port using a RS232 cable;
4. Send the command (Command 17 in Appendix: API COMMAND) through CommUart Assistant to start upgrading;
5. When the upgrading is successful, power cycle the device.



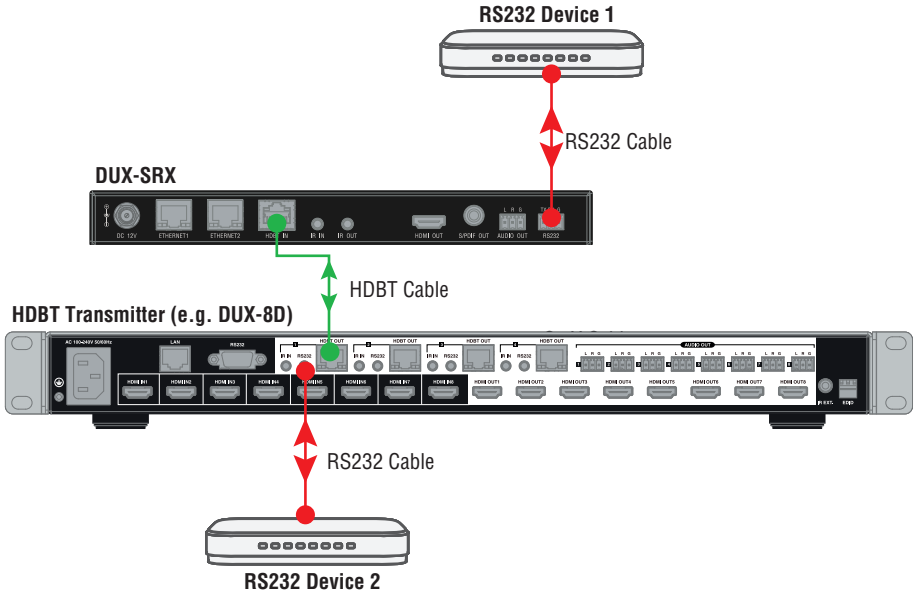
RS232 Pass-through

RS232 port of DUX-SRX can also be used for pass-through while working with a Transmitter device like DUX-8D.

To start RS232 pass-through between DUX-SRX and a Transmitter (e.g. DUX-8D):

1. Connect a RS232 Device (RS232 Device 1) to **RS232** port of DUX-SRX using a RS232 cable;
2. Connect another RS232 Device (RS232 Device 2) to **RS232** port of the Transmitter using a RS232 cable;
3. Connect **HDBT IN** of DUX-SRX and **HDBT OUT** of the Transmitter using a CatX cable.

4. When all set, the RS232 Device 1 can be controlled at RS232 Device 2 or vice versa.



TROUBLESHOOTING

1. Why the Power LED is off?

- Check that all the devices are on.
- Check that all the cables are qualified and connected properly.

2. Why the Link LED is off or blinking?

- Check that all the devices are on.
- Check that all the cables are qualified and connected properly.
- Check that the CatX cable used complies with the recommended specifications. For more information, see CABLE SPECIFICATIONS.

3. Why the display connected to DUX-SRX shows no picture?

- Check that all the devices are on.
- Check that all the cables are qualified and connected properly.
- Check that the Link LED is steady on. For more information, see Q2 above.
- Check that the display works properly, and that the source device has normal signals output.
- Ensure that the display device supports HDCP.
- Ensure the CatX cable and the HDMI cables used complies with the recommended specifications. For more information, see CABLE SPECIFICATIONS.
- Check that your display device is switched to the correct source input mode.
- Check that no compatibility issue exists between DUX-SRX and the display. If so, replace the display with other models.

4. Why the display connected to DUX-SRX shows snow or mosaic?

- Check that all the cables are qualified and connected properly.
- Check that Ethernet cables are Cat5e/6 or higher gauge.
- Check that the source input device has no such problem as snow, mosaic or with a damaged disc. If so, replace with another qualified input source.
- Check that no compatibility issue exists between DUX-SRX and the display. If so, replace the display with qualified models.

APPENDIX: API COMMAND SET

IDX	Function Description	More Details	
		Syntax	Example
1	To execute a global preset	Command: CSP#T Return: CSP#T Description: CECPWR_ONOFF will control sink power on or off SP#: #={0, 1} 0 : OFF 1 : ON	Command: CSP1T Return: CSP1T Description: Executes the sink power on.
2	To define a sink power by CEC automatically	Command: CSPA#T Return: CSPA#T Description: SPA#: #={0, 1} 0 : Disable 1 : Enable	Command: CSPA1T Return: CSPA1T Description: Enable control the sink power by CEC automatically.
3	To define a Delay Time to execute a sink power off when no active signal	Command: CD#SPT Return: CD#SPT Description: CECAUTO_DELAY is short for CEC auto Power Delay Timing D#: #={0~30MIN}	Command: CD5SPT Return: CD5SPT Description: Define Delay Time to 5 minutes.
4	To adjust the output's volume to a specific decibel level	Command: CVA#T Return: CVA#T Description: VA#: # = {0~100}	Command: CVA100T Return: CVA100T Description: Adjusts volume to 100
5	To verify the output's volume status	Command: SVT Return: SVT(#) Description: #: # = {0~100, M}	Command: SVT Return: SVT(100) or SVT(M) Description: Volume is 100 or mute.

IDX	Function Description	More Details	
		Syntax	Example
6	To increase the output's volume by a step	Command: CVS+T Return: CVS+T(#) Description: #: # = {0~100}	Command: CVS+T Return: CVS+T(50) Description: Increases volume a step, return the volume is at 50.
7	To decrease the output's volume by a step	Command: CVS-T Return: CVS-T(#) Description: #: # = {0~100}	Command: CVS-T Return: CVS-T(50) Description: Decreases volume a step, return the volume is at 50.
8	To define the step of the output's volume	Command: CVS#T Return: CVS#T Description: VS#: # = {1~20}	Command: CVS10T Return: CVS10T Description: Define the step of the output's volume is 10.
9	To verify the step of the output's volume	Command: SVST Return: SVST(#) Description: #: # = {1~20}	Command: SVST Return: SVST(10) Description: The step of the output's volume is 10
10	To mute the output	Command: CVMT Return: CVMT Description: Mute the output	Command: CVMT Return: CVMT Description: Mute the output
11	To un-mute an output	Command: CVUT Return: CVUT Description: Un-mute an output.	Command: CVUT Return: CVUT Description: Un-mute the output.

IDX	Function Description	More Details	
		Syntax	Example
12	To set output resolution	Command: CR#T Return: CR#T Description: R#: # = {1~18} 1 : 3840x2160@60 2 : 3840x2160@30 3 : 1920x1200@60 4 : 1920x1080@60 5 : 1280x720@60 6 : 1600x1200@60 7 : 1680x1050@60 8 : 1600x900@60 9 : 1440x900@60 10 : 1366x768@60 11 : 1360x768@60 12 : 1280x1024@60 13 : 1280x960@60 14 : 1280x768@60 15 : 1280x800@60 16 : 1024x768@60 17 : 800x600@60 18 : AUTO Auto (preferred native timing of the display)	Command: CR1T Return: CR1T Description: Set output resolution is 3840x2160@60.
13	To verify output resolution	Command: SRT Return: SRT(#) Description: R#: # = {1~17, 101~117} 1 : Fix 3840x2160@60 2 : Fix 3840x2160@30 ... 16 : Fix 1024x768@60 17 : Fix 800x600@60 101 : Auto 3840x2160@60 ... 117 : Auto 800x600@60	Command: SRT Return: SRT(1) or SRT(101) Description: Output resolution is Fix 3840x2160@60 or Auto 3840x2160@60.
14	To reset system setting	Command: ~SYSR! Return: ~SYSR! Description: Reset system setting	Command: ~SYSR! Return: ~SYSR! Description: Reset system settings

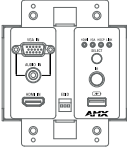
IDX	Function Description	More Details	
		Syntax	Example
15	To cause a warm reboot	Command: ~APP! Return: ~APP! Description: Cause a warm reboot	Command: ~APP! Return: ~APP! Description: Cause a warm reboot
16	To determine the system's Application Code version	Command: ~VER! Return: ~VER! (^^^) Description: Determine the system's Application Code version	Command: ~VER! Return: ~VER! (1.0) Description: The system's version is 1.0
17	To upgrade the system's Application Code	Command: ~UPG! Return: ~UPG! Description: Upgrade the system's Application Code	Command: ~UPG! Return: ~UPG! Description: Upgrade the system's Application Code
18	To set the static IP address	Command: CIPxx.xx.xx.xxMASKxx.xx.xx.xxT Return: CIPxx.xx.xx.xxMASKxx.xx.xx.xxT Description: IPxx.xx.xx.xx = {ipaddress} MASKxx.xx.xx.xx = {mask}	Command: CIP192.168.2.128MASK255.255.255.0T Return: CIP192.168.2.128MASK255.255.255.0T Description: Set static IP address
19	To verify the static IP address	Command: SIPT Return: SIPT(IP:xx.xx.xx.xx MASK:xx.xx.xx.xx) Description: IPxx.xx.xx.xx = {ipaddress} MASKxx.xx.xx.xx = {mask}	Command: SIPT Return: SIPT(IP:192.168.2.128 MASK:255.255.255.0) Description: Verify the static IP address

IDX	Function Description	More Details	
		Syntax	Example
20	To set UART baud rate	Command: CUB#T Return: CUB#T Description: UB#: # = {1~3} 1 : 9600 2 : 57600 3 : 115200	Command: CUB1T Return: CUB1T Description: Set UART baud rate to 9600
21	To set UART end char	Command: CUE#T Return: CUE#T Description: UE#: # = {1~4} 1 : NULL 2 : 0X0D 3 : 0X0A 4 : 0X0D 0X0A	Command: CUE1T Return: CUE1T Description: Set UART end char to null
22	To verify UART end char	Command: SUET Return: SUET(#) Description: # : # = {1~4} 1 : NULL 2 : 0X0D 3 : 0X0A 4 : 0X0D 0X0A	Command: SUET Return: SUET(1) Description: UART end char is null
23	To configure UART CMD of Power ON	Command: CDON# # #T Return: CDON# # #T Description: # : # = {00 ~ FF} # # # : string of HEX	Command: CDON00 01 0AT Return: CDON00 01 0AT Description: Configure UART CMD of Power ON to 0X00 0X01 0X0A
24	To verify UART CMD of Power ON	Command: SDONT Return: SDONT(# # #) Description: # : # = {00 ~ FF} # # # : string of HEX	Command: SDONT Return: SDONT(00 01 0A) Description: UART CMD of Power ON is 0X00 0X01 0X0A

IDX	Function Description	More Details	
		Syntax	Example
25	To configure UART CMD of Standby	Command: CDOF# # #T Return: CDOF# # #T Description: # : # = {00 ~ FF} # # # : string of HEX	Command: CDOF00 01 0AT Return: CDOF00 01 0AT Description: Config UART CMD of Standby to 0X00 0X01 0X0A
26	To verify UART CMD of Standby	Command: SDOFT Return: SDOFT(# # #) Description: # : # = {00 ~ FF} # # # : string of HEX	Command: SDOFT Return: SDOFT(00 01 0A) Description: UART CMD of Standby is 0X00 0X01 0X0A
27	To configure UART Auto Power Enable/Disable	Command: CDFG#T Return: CDFG#T Description: DFG# : # = {0, 1} 0 : Disable 1 : Enable	Command: CDFG1T Return: CDFG1T Description: Configure UART Auto Power Enable
28	To set Power ON/OFF by UART Cmd	Command: CDISP#T Return: CDISP#T Description: DISP# : # = {0, 1} 0 : Off 1 : On	Command: CDISP1T Return: CDISP1T Description: Set Power On by UART Cmd

IDX	Function Description	More Details	
		Syntax	Example
29	To Set Input EDID	Command: CE#T Return: CE#T Description: E# : # = {1 ~ 13} 1 : 3840x2160@30_2ch 2 : 1920x1200@60_2ch 3 : 1920x1080@60_2ch 4 : 1280x800@60_2ch 5 : 1280x720@60_2ch 6 : 1024x768@60_2ch 7 : 3840x2160@30_6ch 8 : 1920x1200@60_6ch 9 : 1920x1080@60_6ch 10 : 1280x800@60_6ch 11 : 1280x720@60_6ch 12 : 1024x768@60_6ch 13: copy	Command: CE1T Return: CE1T Description: Set input FIX EDID max timing 3840x2160@30_2ch
30	Uart Connection	Command: CCON#T Return: CCON#T Description: CON# : # = {1 ~ 4} 1 : uart to vs 2 : uart to vs_update 3 : uart to scaler 4 : vs to scaler	Command: CCON1T Return: CCON1T Description: Connect uart to vs.
31	To verify uart connection status	Command: SCONT Return: SCONT(#) Description: # : # = {1 ~ 4} 1 : uart to vs 2 : uart to vs_update 3 : uart to scaler 4 : vs to scaler	Command: SCONT Return: SCONT(1) Description: Uart connection status is to vs.

AMX DUX SERIES

DUX-8C	Compact 8x8 HDMI 2.0 matrix switcher for video signals up to 4K@60Hz 4:4:4 (bandwidth 18 Gbps)	
DUX-8D	Dual output 8x8 HDMI 2.0 matrix switcher with 4 mirrored HDBT outputs for video signals up to 4K@60Hz 4:4:4 (bandwidth 18 Gbps)	
DUX-TX	HDMI 1.4 over HDBT TX up to 100m	
DUX-RX	HDMI 1.4 over HDBT RX up to 100m	
DUX-TX-70	HDMI 1.4 over HDBT TX up to 70m	
DUX-RX-70	HDMI 1.4 over HDBT RX up to 70m	
DUX-SCL	HDMI scaler up to 4K@60Hz 4:4:4	
DUX-SRX	HDMI scaling receiver up to 4K@60Hz 4:4:4	
DUX-SRX	HDMI 1.4 & VGA over HDBT TX up to 100m	
DUX-SRX-WP	HDMI 1.4 & VGA over HDBT wall-plate TX up to 100 m	



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