



Smart-e

Smart-e Limited • Hale House Barns • Oakwoodhill • Ockley • Surrey • RH5 5NA • UK
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SDS-7000 Switcher

Flexible and comprehensive professional HDMI and Analogue Presentation solution for Commercial and Education use.



The SDS-7000 is a professional and versatile 9 input presentation switcher capable of selecting between 9 different digital and analogue inputs including: 3 x HDMI, 1 x HDBaseT, 2 x RGBHV (VGA), 1 x DisplayPort, 1 x Composite and 1 x Component. The video can be scaled up to WUXGA (1920 x 1200) resolution and is outputted as HDMI and HDBaseT. Separate analogue audio inputs and an internal power amplifier provide additional features

Switch and scale 9 digital and analogue inputs to WUXGA resolutions outputting as HDMI and HDBaseT with separate audio and power amp

The SDS-7000 presentation switcher offers an unprecedented level of both switching and distribution functionality for high resolution HDMI, HDBaseT or DisplayPort signals together with legacy analogue signals. The scaled output is available via an HDMI or HDBaseT connection transmitting up to 100m of Cat 5e-8 cable

The SDS-7000 sets a new benchmark for complete integrated presentation systems, all of which can be controlled easily via either IP, Infra-Red, RS232 and front panel.

An internal image processor provides seamless switching and scaling up to WUXGA (1920 x 1200) resolutions. Each input also has an analogue stereo audio input which can be selected instead of the embedded signal to be outputted via an internal stereo power amplifier.

Ideal for Meeting and Boardrooms together with Training facilities. Compatible with the 4K-TX and RX900 transmitter and receiver units for remote HDBaseT connectivity

Compact 1U 19" rack mounting chassis makes for ease of installation with optional upgrade to SmartIP (extra 1U).



The Smart-e SDS-7000 features

- HDMI, DP and HDBaseT inputs
- HDCP 1.3 & HDMI 1.3a compliant
- Analogue YPrPB, RGBHV & CV inputs
- HDTV 1080p & 3D compatible
- PC resolutions up to 1920x1200@60 Hz
- High bandwidth seamless switching
- Enhanced EDID management
- Supports Deep Colour (10 & 12 bit)
- Scaled HDMI & HDBaseT output
- Front panel button & RS232 control
- TCP/IP control
- Internal stereo 10W power amp
- Image processing
- Compact 1U 19" rack mounting
- 3 year warranty



VAT Registered No. 725 363046
 Registered in England & Wales No. 3885453



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INPUT SIGNAL SPECIFICATION

HDMI video

Signal Types	HDMI V1.3a and DVI V1.0
Maximum pixel clock	225MHz
Protocols	HDMI V1.3a, DVI V1.0, HDCP V1.3
Connector	HDMI Type A Female
Impedance	100R
TV resolutions PC resolutions	480, 576, 720, 1080 p & i 640x480 through to 1920x1200

DisplayPort video

Signal types	DisplayPort
Transmission bandwidth	10.8 Gbps
Protocols	DisplayPort V1.1
Connector	20-pin DP interface
Transmission delay	Max 500uS
TV resolutions PC resolutions	480, 576, 720, 1080 p & i 640x480 through to 1920x1200

HDBaseT video

Signal Types	HDBaseT
Maximum pixel clock	225MHz
Connector	RJ-45
Cable types	CAT 5e, CAT 6/6e, CAT 7, STP, FTP
Cable distance	Max 100m 1080p @60Hz
TV resolutions PC resolutions	480, 576, 720, 1080 p & i 640x480 through to 1920x1200

Analogue audio

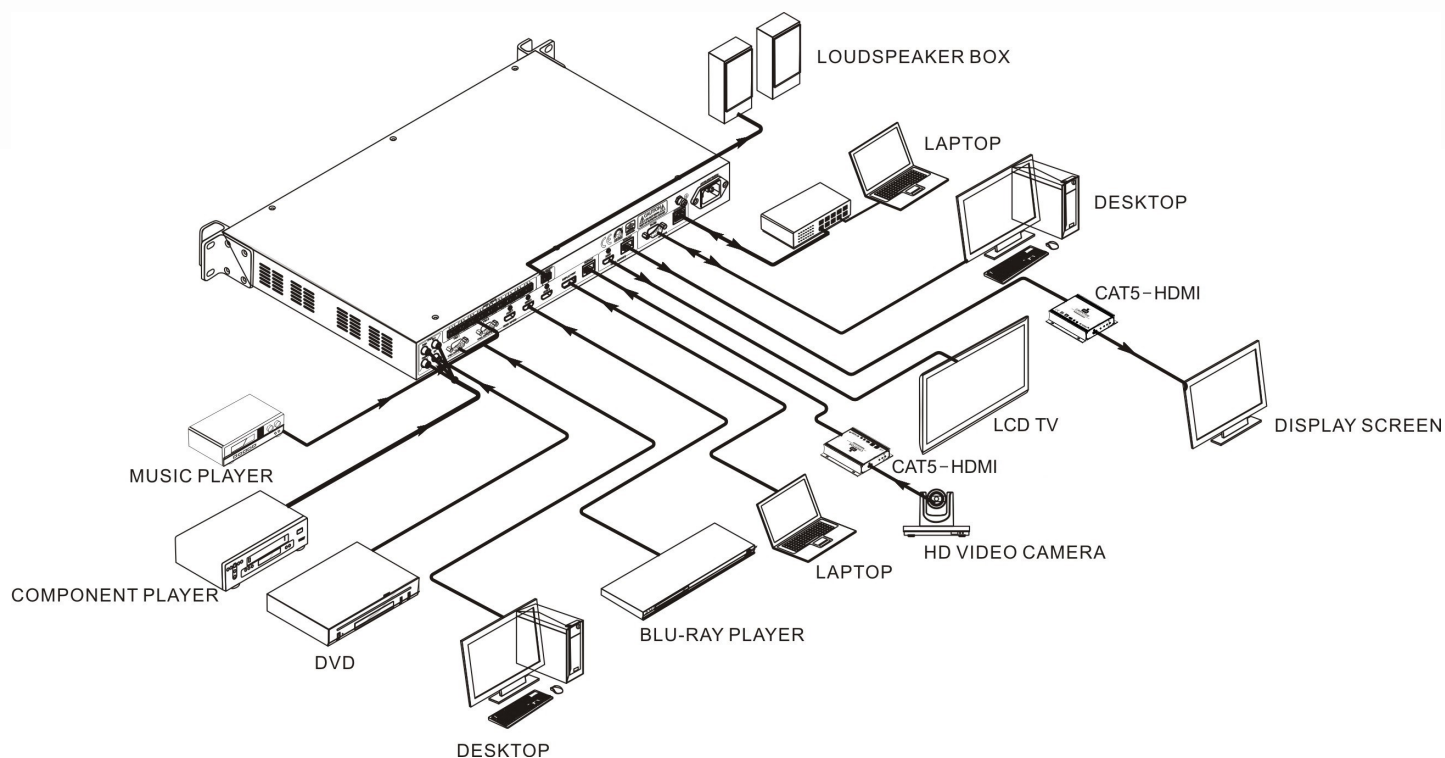
Signal types	Stereo unbalanced
Bandwidth	20-20kHz
Gain	0dB
Connector	3-pin Phoenix
Impedance	> 10k Ohms
Max input level	+19.5 dBu

RGBHV video

Signal Types	Red, Green, Blue, H & V Syncs
Bandwidth	380 MHz
Connector	High density 15-pin socket
Return Loss	<40 dB @5MHz
Impedance	75R
TV resolutions PC resolutions	480, 576, 720, 1080 p & i 640x480 through to 1920x1200

YPrPb and CV video

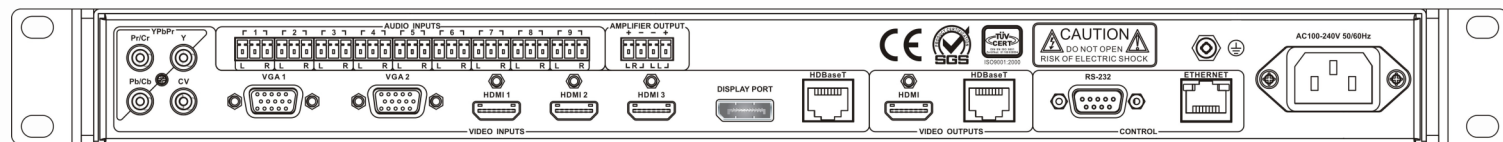
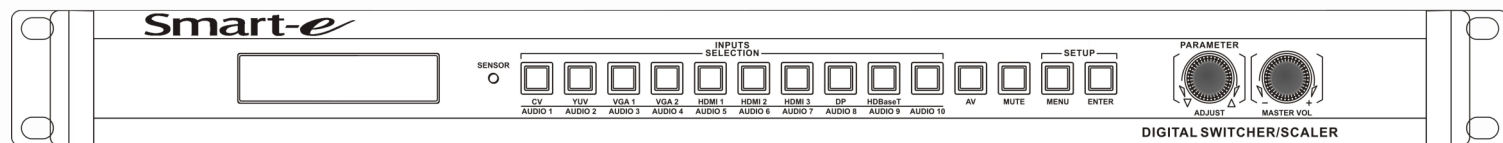
Signal types	Component and Composite
Bandwidth	150 MHz
Diff gain and phase	< 0.1°, < 0.1% @3.58/4.43 MHz
Connector	RCA female
Impedance	75R
Return Loss	< 30dB @5MHz





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OUTPUT SIGNAL SPECIFICATION

HDMI

Signal Types	HDMI V1.3a and DVI V1.0
Maximum pixel clock	225MHz
Protocols	HDMI V1.3a, DVI V1.0, HDCP V1.3
Connector	HDMI Type A Female
Impedance	100R
TV resolutions PC resolutions	480, 576, 720, 1080 p & i 640x480 through to 1920x1200

HDBaseT

Signal Types	HDBaseT
Maximum pixel clock	225MHz
Connector	RJ-45
Cable types	CAT 5e, CAT 6/6e, CAT 7, STP, FTP
Cable distance	Max 100m 1080p @60Hz
TV resolutions PC resolutions	480, 576, 720, 1080 p & i 640x480 through to 1920x1200

Audio

Signal types	Stereo balanced
Connector	4-pin Phoenix
Power amplifier	2x10W @8R, 2x20W @4R
Bandwidth	20-20kHz

Power

Voltage	90-240 AC 50/60 Hz
Connector	IEC
Fuse rating	1A A/S
Power	200 Watts

Dimensions

Height	1U
Width	19" rack mounting
Depth	483mm
Weight	2.5Kg

Control

IP Control	TCP/IP
IP control connector	RJ45
RS232	9600 Smart-e protocol
RS232 connector	Sub-miniature Db9 socket



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4Konnnect 4K-900

Flexible and cost effective HDMI extender for distances up to 100m of standard CAT5e-8 cable



The 4K-900 is a transmitter and receiver pair designed to extend HDMI, DVI or DisplayPort, together with reverse IR and bidirectional RS232 signals over a single twisted pair CAT 5e-8 cable. The units use HDBaseT technology to extend 12 bit Deep Colour 3D, 4K and 2K resolutions together with 1080p @60Hz

Extend HDMI, DVI or DisplayPort IR, RS232 over a single 100m of CAT 5e-8 cable with inline power

Wide band Infra-Red via external adapters (SM-EYER & SM-LED) and RS232 signals are extended through the same CAT 5e-8 cable together with 24V DC inline power up to 100m of cable. Each box has fixing holes to facilitate ease of installation and multiple units can fit side by side on a 1U 19" rack shelf.

The 4K-900 range from Smart-e provides a flexible and cost effective solution for point to point transmission for a single source to a single display



The Smart-e 4K-900 features

- HDMI, DVI & DisplayPort formats
- Deep Colour 3D, 4K and 2K
- 100m of CAT5e-8 cable
- HDCP compliant
- Wide bandwidth IR transmission
- Uses easy to install single CAT5e-8 cable
- Transparent RS232 passthrough
- Supports 1920x1200 @ 60 Hz
- Total cable distance up to 100m
- Cost effective, multi-function unit
- 19" x 1U rack kit for up to 4 x units
- Secure HDMI connector
- Locking DC connector
- High ground loop immunity
- Inline power
- Convenient fixing holes

*CAT 5e-8 refers to Category 5e, 6, 7 and 8 UTP structured cabling

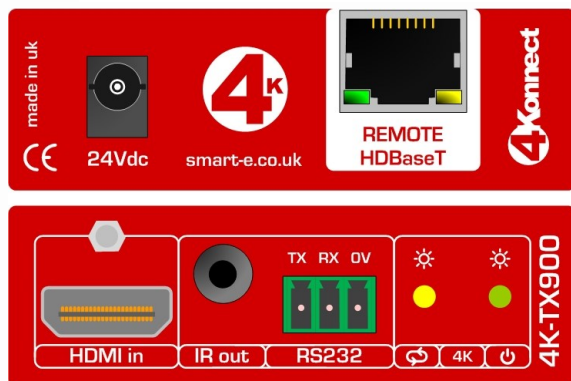
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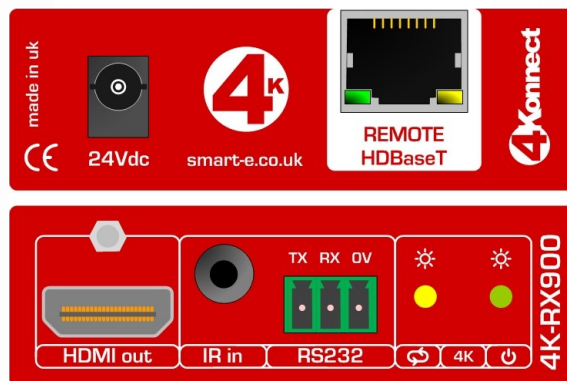
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TRANSMITTER



RECEIVER



Video

Signal Types	HDMI, DVI, DisplayPort Multimode
Formats	HDMI w/Deep Color 3D, 4K, 2K
Content Protection	HDCP V1.2
Connector	HDMI Type A Female
Cable Types	CAT 5e, CAT 6/6e, CAT 7, STP, FTP
TV resolutions	480, 576, 720, 1080 p & i
PC resolutions	640x480 through to 1920x1200

Audio

Types	Embedded audio in HDMI
Digital Formats	Dolby Digital® Plus Dolby® TrueHD DTS-HD High Res DTS-HD Master Audio™, up to 8chPCM
Digital Connector	HDMI

CAT 5 signals

Pair 1	HDBaseT pair 1
Pair 2	HDBaseT pair 2
Pair 3	HDBaseT pair 3
Pair 4	HDBaseT pair 4

Power

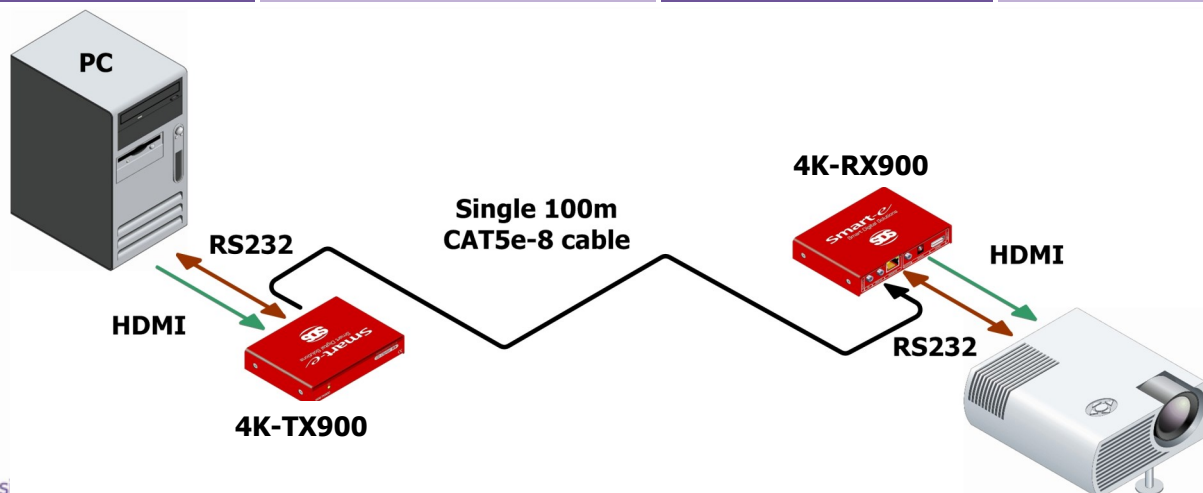
Voltage	24V DC
Connector	2.1mm DC locking jack
Max. current	200mA per unit
Power	5Watts

Dimensions

Height	22mm
Width	77mm
Depth	130mm
Weight	100g

Control

IR signal	30-500kHz
IR connector	3.5mm jack socket
RS232 pass-through	<115Kbaud
CEC	Yes



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