

Version 1.1



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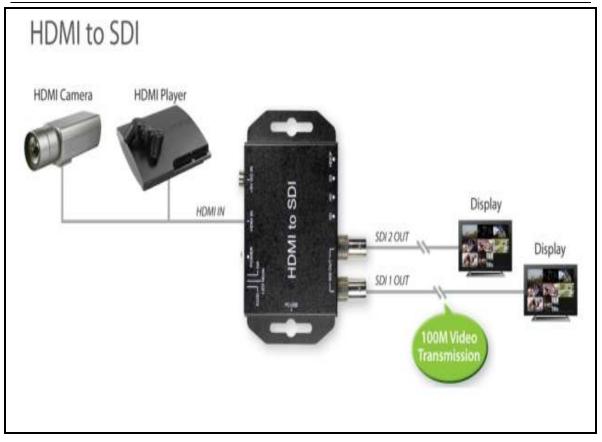
Description

The KanexPro next generation of HDMI to SDI converters are designed for converting single –HDMI signal into two 3G-SDI, HD-SDI signals in professional applications involving broadcasting, post –production and filming. It auto detects input signals converting the output resolution to correct format.

Features

- Get the supreme quality HDMI conversion to HD-SDI
- SDI loop output for duplication or broadcasting
- Built-in re-clocking & equalization
- Supports 2 channel audio @48KHz
- Supports multiple video resolutions:
- SDI 525i, 625i HD: 720p 24, 25,30,50 & 60 Hz
- HD: 1080i 50 & 60 Hz.
- HD: 1080p 24, 25,30, 50 & 60 Hz
- 3G mode length up to 130m
- HD mode length up to: 170m
- SD mode length up to 300m
- Supports conversion to SMPTE 425M Level A 1080p 50/59.94/60 4:2:2 10-bit
- Supports cascading of multiple SDI's in application
- Automatically switches between SD, HD and 3G-SDI standards
- Compact & ruggedized size makes perfect mobile broadcasting hardware
- Micro-USB Port for firmware update

Application Diagram



Front Panel



Rear Panel

1. 2. 3. 4.	1 2 Power (+6V ~ + 15V) HDMI Input Power LED indicator Dip Switch:	3 4
	Pin On (↑): Enable a. EDID b. LED Mode c. 3GB/3GA Switch	Pin OFF (↓): Disable

Dip Switch

• EDID:

In order to keep the compatibility of HDMI to most monitors, SDI-HDSDXPRO features EDID learning ability. Pin On (↑): Default EDID Pin OFF (↓): Leaning EDID

• LED Mode:

Pin OFF (\downarrow) :

Resolution	SD LED	HD LED	3G LED	HDCP LED
720 x 480i (NTSC)	0	0	0	•
720 x 576i (PAL)	0	0	•	0
1280 x 720 p50	0	0	•	•
1280 x 720 p60	0	•	0	0
1920 x 1080 i50	0	•	0	•
1920 x 1080 i60	0	•	•	0
1920 x 1080 p24	0	•	•	•
1920 x 1080 p25	٠	0	0	0
1920 x 1080 p30	٠	0	0	•
1920 x 1080 p50	٠	0	•	0
1920 x 1080 p60	•	0	•	•
Un-Support	•	٠	٠	•

• : LED ON

○ : LED OFF

Pin On (↑)

Resolution	3G LED	HD LED	SD LED
NTSC / PAL	0	0	•
720p / 1080i / 1080 [24p, 30p]	0	•	0
1080 [50p,60p] / 2K	٠	0	0

: LED ON
: LED OFF

• 3GA/3GB:

Switcher 3GA and 3GB Format only supports $1920x1080\ p60$, 1920x1080p59 and $1920x1080\ p50$

	Dip Swticher
3GA Format	
3GB Format	

EDID Leaning

- 1. Turn off SDI-HDSDXPRO Box and EDID pin is pull down.
- 2. Connect the TV monitor thru HDMI port to SDI-HDSDXPRO box, and then turn on SDI-HDSDXPRO box.
- 3. The LED of SDI-SDHDXPRO box will light, which indicates the EDID learning process is finished.

LED Sequence	SD LED	HD LED	3G LED	HDCP LED
Start	0	0	0	•
	0	0	•	•
	0	•	•	•
L L	•	•	•	•
Finish	0	0	0	0
• · I F				

○ : LED OFF

4. Connect SDI-HDSDXPRO box to the HDMI source through a HDMI cable

Specifications

DECODIDITION	
DESCRIPTION	
	SD – 720 x 480i (NTSC) / 720 x 576 I (PAL)
	HD– 1280 x 720p
Support Video Resolution	1920 x 1080 50i/60i
	1920 x 1080 24p/25p/30p
	3G– 1920 x 1080 50p/60p
	2K- 2048 x 1080 24p/30p
	SD-SDI (SMPTE 259M)
SDI format	HD-SDI (SMPTE 292M)
	3G-SDI (SMPTE 424M / SMPTE 425M)
Audio Support	2 Channel
Audio Sample	Auto Re-sample to 48Khz (For Stereo)
Coaxial Cable Type	RG6/RG59(75Ω)
	3G: 100m of RG6/ 86m of RG59
	HD: 170m of RG6/ 120m of RG59
	SD: 400m of RG6/ 280m of RG59
Cable Equalization	*1 RG6: CANARE L-5CFB Cable / RG59: Belden
	9275 Cable
	*2 Cable Length Performance: Depending on SDI
	Signal and Cable Quality
Input	1 x HDMI
Output	2 x BNC [SDI]
BNC Connector	3G 75 Ω inter-locked socket
HDMI Connector	TYPE A [19-pin female]
DIP Switch	3-pin [EDID / LED mode / NA]
Housing	SECC
Dimension	L:104mm x W:63.3mm xH:26mm
Power Source	Power Adapter: AC 100 ~ 240 V/DC (+6 ~ 15 V)
Operation Temperature	0~50°C [32~114°F]
Storage Temperature	-20~+60°C

Firmware Upload

• Firmware is upgradable in the field using the integrated USB port

How to Firmware upgrade:

Step 1.

Open Upload Firmware Program tools.exe and connect box to PC by USB Cable.

Canna	Disconne	cted	
Load file File name:	C. Documents and Settingel	annia milanto milantogan	A Device Open File
file size:		Chedisum	Save

Step 2.

Plug and un-plug "DC adapter" to power on/off the converter box (the connection check status will be changed to "Connect")

Connection ch Conne		bd	
oat file File name:	Citoo and Secreption	n Allifornin Indianiya	milipioeth Open Ne
File size:	<u>.</u>	Chedisum	- Dierr
Status			

Step 3.

Plug and un-plug "DC adapter" again (the connection check status will be changed to "Connected") and Please click the Open File button to select the firmware bin file.

File name:	Cil/Documents and Settingsl)	Neverl,桌面(Converter Box)(Bin)(SD12HO)(1.7(2	2011.1 Open File
File size:		Checksum: 0x6688	Save

Step 4.

Please click "Start' Button to proceed with new firmware programming. The PASS message will appear when the procedures finished.

Load file	et Disconne		
File name:	C Doosentha and Setting of	leven - All Contentes Contractor C-2000	TTONA Coven File
File size:	NUTUR NAME	Checksum [httACC	Save

Step 5.

Close Upload Firmware Program tools

Connection die Connec			
Load file Pile name:	C (Decements and Setting/Newsel) #3	 DiConvector Dovi VestProgram//	DRum(79) Open File
File size:		Checksum	Disere
Status			

Update List

Data	Version	Command
2013.02.25	V1.0	Modify Spec for audio support.
2016.02.23	V1.1	Add 3GB format (FW-0205)

Warranty

A. LIMITED WARRANTY

KanexPro [™] warrants that (a) its products (the "Product") will perform greatly in agreement with the accompanying written materials for a period of 36 months (3 full years) from the date of receipt and (b) that the product will be free from defects in materials and workmanship under normal use and service for a period of 3 years.

B. CUSTOMER REMEDIES

KanexPro's entire liability and Customer's exclusive remedy shall be, at KanexPro option, either return of the price paid for the product, or repair or replacement of the Product that does not meet this Limited Warranty and which is returned to KanexPro with a copy of customers' receipt. This Limited Warranty is void if failure of the Product has resulted from accident, abuse, or misapplication. Any replacement Product will be warranted for the remainder of the original warranty period of 3 years, whichever is longer.

C. NO OTHER WARRANTIES

To the maximum extent permitted by applicable law, KanexPro disclaims all other warranties, either express or implied, including, but not limited to implied warranties of merchantability and fitness for a particular purpose, with regard to the product and any related written materials. This limited warranty gives customers specific legal rights. Customers may have other rights depending on the jurisdiction.

D. NO LIABILITY FOR DAMAGES

To the maximum extent permitted by applicable law, in no event shall KanexPro be liable for any damages whatsoever (including without limitation, special, incidental, consequential, or indirect damages for personal injury, loss of business profits, business interruption, loss of business information, or any other pecuniary loss) arising out of the use of or inability to use this product, even if KanexPro has been advised of the possibility of such damages.

KanexPro

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