

nT15EX17

SDI TO HDMI UP/DOWN SCALER



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Feature

Supports HD format :

720p 50 & 60

1080i50 & 60

1080p24, 25, 30, 50 & 60

Support 525i & 625i SD D1 format

Auto 3G/HD/SD-SDI detection

Firmware is upgradable in the field using the integrated USB port

The converter is Plug-and-Play

Dual output are available (SDI & HDMI)

One 3G-SDI source to two 3G-SDI devices

Front Panel



NO	Component	Function
1	SDI Output Port	From your SDI Display Device plug into these ports (Pass Through)
2	HDMI Output Port	From your HDMI Display Device plug into these ports

Rear Panel



NO	Component	Function
1	Power Jack	The Power adapter plug into here.
2	LEDs indicate	The LEDs is indicate Input/output Format
3	MODE Button	Select Format/Zoom Function
4	SDI Input Port	From your SDI Source plug into these ports

Side Panel



NO	Component	Function
1	USB Connector	Upgrade Firmware/Control Box by PC

Installation

SDI2HD-S installation consists of the following:

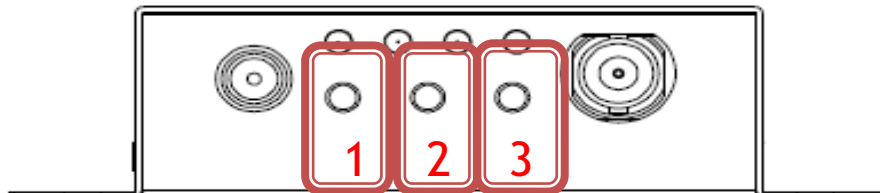
1. Disconnect +12DC adaptor to converter.
2. Connect Video Source (SDI) to the BNCs Connector.
3. Connect HDMI equipment to the HDMI connector
4. Connect the +12DC adaptor to the converter.

Package Contents

The SDI2HD-S BOX package contains the following items:

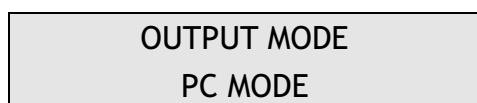
- User Manual x 1
- +12 DC Adapter x 1
- SDI2HD-S Converter x 1

Button/LED Control

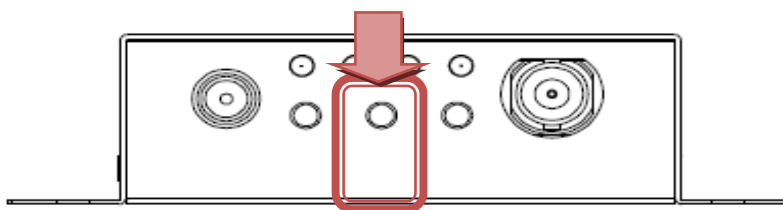


1. Switch PC/AV Mode:

Hold on the Button 2 until show the Output Mode



- a. PC mode: define output format is based on VESA (PC)
- b. AV mode: define Output format is base on CEA861 (Customer)







OSD Indicate	LED indicate			
Output Mode PC mode	SD LED ●	HD LED ●	3G LED ○	Power LED ○
Output Mode AV mode	SD LED ○	HD LED ○	3G LED ●	Power LED ●


2. Switch Format:

a. AV Mode:

If Pull the button 1, the box is setting to Output Format Mode and Frame number by button 2 and 3.

		
By Pass		
720x480	60i	59.94i
	60p	59.94p
720x576	50i	
	50p	
1280x720	60p	59.94p
	50p	
1920x1080i	60i	59.94i
	50i	
1920x1080p	60p	59.94p
	50p	
	30p	29.97p
	25p	
	24p	23.97p

: is default format at change button 1 after.

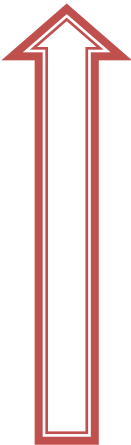
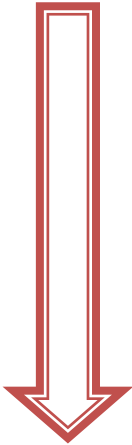
	SD LED	HD LED	3G LED	POWER
BY PASS	●	●	●	●
720 x 480	●	○	○	○
720 x 576	○	●	○	○
1280 x 720	●	●	○	○
1920 x 1080i	○	○	●	○
1920 x 1080p	●	○	●	○

● : LED ON

○ : LED OFF

b. PC Mode:

Pull the button 1 and button 2, the box is setting to Output Format Mode in PC mode




Button 1	Format	Button 2
	1920x1080 p60	
	1680x1050 p60	
	1600x1200 p60	
	1440x900 p60	
	1400x1050 p60	
	1366x768 p60	
	1280x1024 p60	
	1280x848 p60	
	1024x768 p60	
	800x600 p60	

	SD LED	HD LED	3G LED	POWER LED
800x600 p60	○	●	○	●
1024x768 p60	●	○	○	●
1280x848 p60	○	○	○	●
1280x1080 p60	●	●	●	○
1366x768 p60	○	●	●	○
1400x105 p60	●	○	●	○
1440x900 p60	○	○	●	○
1600x1200 p60	●	●	○	○
1680x1050 p60	○	●	○	○
1920x1080 p60	●	○	○	○

- : LED ON
- : LED OFF

3. Aspect Ratio Mode:

Pull the button 3 , the box will be seting to Aspect Ratio Mode

Mode	Display
<p>16:9 (Default)</p>	
<p>4:3</p>	
<p>1:1 (dot by dot)</p>	

4. LED Mode:

Resolution	SD LED	HD LED	3G LED	Power LED
NTSC / PAL	●	○	○	●
720p / 1080i / 1080 [24p,25p, 30p]	○	●	○	●
1080 [50p,60p]	○	○	●	●
No-Signal	○	○	○	●

● / ● : LED ON

○ : LED OFF

5. Firmware Version:

Hold on the button 3 and 2 until show show the firmware version.

FIRMWARE VERSION 0.1.0.1

6. Box Default:

Hold on all button(1, 2, and 3) until Hardware Reset to Default

Specifications

DESCRIPTION	
Support Video Resolution	SD – 720 x 480 i / 720 x 576 i HD– 1280 x 720 24p/23.97p/25p/30p/29.97p 1280 x 720 50p/60p/59.94p 1920 x 1080 50i/60i/59.94i 1920 x 1080 24p/23.97p/25p/30p/29.97p 3G– 1920 x 1080 50p/60p/59.94p
HDMI Output Format	CEA861: 720x480 60i/60p/59.94i/59.97p 720x576 50i/50p 1280x720 50p/60p/59.94p 1920x1080 50i/60i/59.94i 1920x1080 50p/60p/59.94p/ 1920x1080 24p/25p/30p/23.97p/29.97p VESA: 1920x1080p60/1680x1200p60/1600x1200p60 1440x900p60/1400x1050p60/1366x768p60 1280x1024p60/1280x848p60/1024x768p60 800x600p60
Re-clock Function	Yes (Default)
Coaxial Cable Type	RG6/RG59(75Ω)
Cable Equalization	3G: 120m of RG6/ 100m of RG59 HD: 200m of RG6/ 140m of RG59 SD: 400m of RG6/ 280m of RG59 *1 RG6: CANARE L-5CFB Cable / RG59: Belden 9275 Cable *2 Cable Length Performance: Depending on SDI Signal and Cable Quality
Firmware Updates	Via USB
Input	1 x BNCs [SDI]
Output	1 x HDMI 2 x SDI
BNC Connector	3G 75 Ω inter-locked socket
HDMI Connector	TYPE A [19-pin female]

Button	Format Switch/TV wall
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

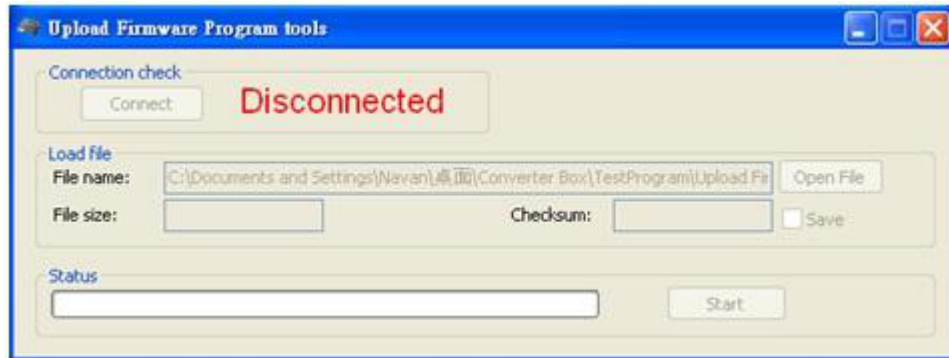
Firmware Upload

Firmware is upgradable in the field using the integrated USB port

How to Firmware upgrade:

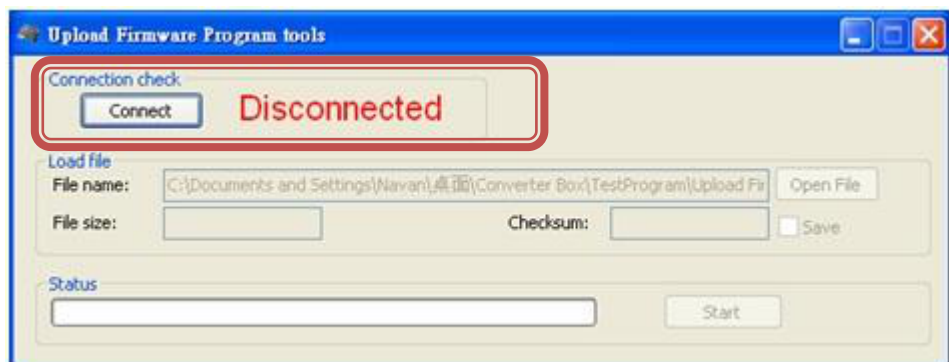
Step 1.

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



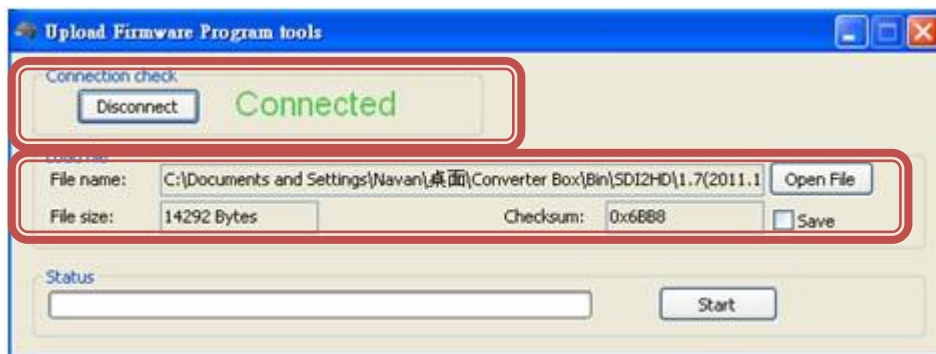
Step 2.

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



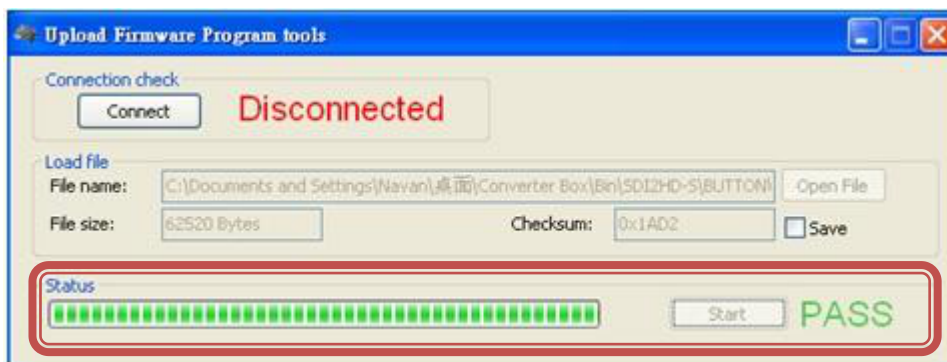
Step 3.

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.



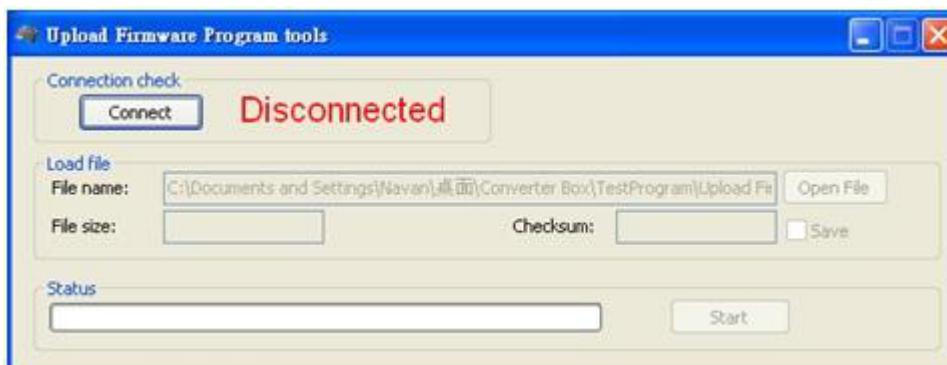
Step 4.

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



Step 5.

Close Upload Firmware Program tools



Update List

Data	Version	Command
2013.03.04	V1.4	1. Release
2013.11.29	V1.5	1. Add Aspect Ratio Mode
2015.03.20	V1.6	1. Change Box Pic