

# *SDI2HD-DS4K*

## User Manual



## Content

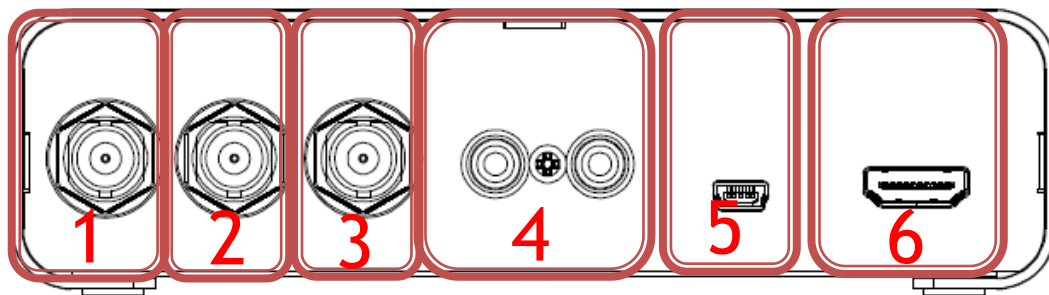
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## Feature

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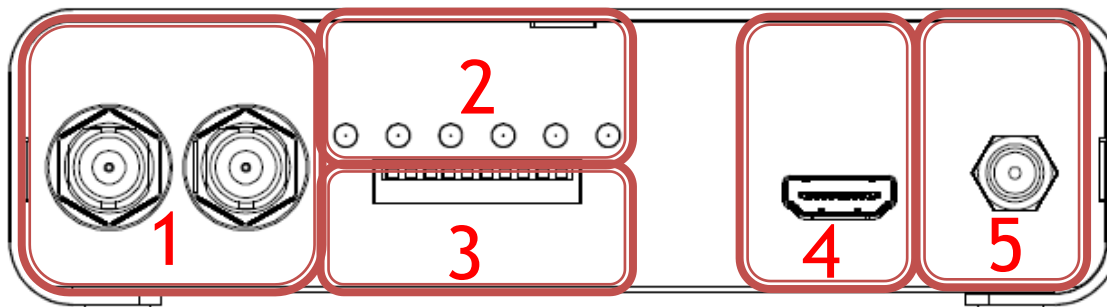
- SDI Supports HD formats :
  - 720p50 & 60
  - 1080i50 & 60
  - 1080p24, 25, 30, 50 & 60
- SDI Support 525i & 625i SD D1 format
- Auto 3G/HD/SD-SDI detection
- HDMI In/Output Support 4K format
- Can be split one 3G-SDI displays simultaneously.
- Frame rate conversion(1.000/1.001)
- External Dipswitch and Usb Configuration
- Firmware is upgradable in the field using the integrated USB port
- The converter is Plug-and-Play
- Support SDI and HDMI
- Support stereo audio( L/R Audio ) input

## Front Panel



NO	Component	Function
1	SDI Input Port	From your SDI Device plug into this port
2	SDI Pass Thru	From your SDI Display Device plug into this ports
3	Ref In Port	From your Ref Sync Device plug into this port
4	L/R audio input port	From your L/R audio Device plug into this port
5	USB Port	Upgrade firmware/Control Box From PC
6	Power Jack	The Power adapter plug into here

## Rear Panel



n	Component	Function
1	SDI Output Port	From your SDI Device plug into this port
2	Input Port/ Output Format LED	The LEDs are indicate Input Ports and Output Format index.
3	Dipswitch	Control the Box ( Input Port/Audio/Output Format)
4	HDMI Output Port	From your HDMI Device plug into this port
5	Power Jack	The Power adapter plug into here

## DipSwitch/LED Control





NO	Component	Function
1	Control Mode	Control Box from Dipswitch or USB
3	Input Source	Select Input Source( HDMI/SDI )
2	Genlock mode	Select Genlock Mode(Free/Genlock)
4	Audio Source	Select Audio Source
5	4K Enable	Select 4K or FHD format
6	Output format	Select output format

### ◆ Control Mode:

Control Box from Dipswitch or USB.





Control Mode	Dipswitch Indicates
DipSwitch	
USB	

### ◆ Input Source mode:

Select Input Source





Input Source	Dipswitch Indicates
SDI	
HDMI	

◆ **Genlock mode:**

Select Genlock mode







Genlock mode	Dipswitch Indicates
Free Run	
Genlock	

◆ **Input Audio mode:**

Select Audio Source, five kinds of mode can be select



Input Source	Dipswitch Indicates
Default	
SDI	
HDMI	
External L/R Audio	

◆ **4K mode:**

















Select 4K mode



4K mode	Dipswitch Indicates
Full HD	
4K	

◆ **Output Format:**



Resolution	Dipswitch Indicates	Resolution	
1920x1080p60		1920x1080pi60	
1920x1080p59		1920x1080pi59	
1920x1080p50		1920x1080pi50	
1920x1080p30		1280x720p60	
1920x1080p29		1280x720p59	
1920x1080p25		1280x720p50	
1920x1080p24		720x480i59	
1920x1080p23		720x576i50	

## **Installation**

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SDI2HD-DS4K installation consists of the following:

1. Disconnect +12DC adaptor to converter.
2. Connect Video Source to the Input Connector.
3. Connect Display Equipment to the output's connector
4. Connect the +12DC adaptor to the converter.

## **Package Contents**

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SDI2HD-DSpackage contains the following items:

1. User Manual x 1
2. +12 DC Adapter x 1
3. SDI-HD-UDC Converter x 1



## Specifications

DESCRIPTION	
SDI Format	SD-SDI, HD-SDI & 3G-SDI
SDI Transition Rate	2.970Gb/s, 1.485Gb/s and 270Mb/s
HDMI Format	VESA, CEA-861
Audio Support	8 - Channel
Coaxial Cable Type	RG6/RG59(75Ω)
Cable Equalization	3G: 100m of RG6/ 86m of RG59 HD: 170m of RG6/ 120m 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
Input Source	HDMI/SDI
Output Source	HDMI/SDI
Firmware Updates	Via Mini-USB
Input Connector	1 x BNC [SDI] 1 x BNC [SDI-Pass Thru] 1 x BNC [Ref Sync in] 2 x RCA [ L/R Audio] 1 x HDMI
Output Connector	2 x BNC [SDI] 1 x HDMI
BNC Connector	3G 75 Ω inter-locked socket
USB Connector	Mini-USB
Dipswitch	Output Format/Audio Source/Input Source
Housing	SECC
Dimension	
Power Source	Power Adapter: AC 100 ~ 240 V/DC (+9 ~ 15 V)
Operation Temperature	0~50°C [32~114°F]
Storage Temperature	-20~+60°C

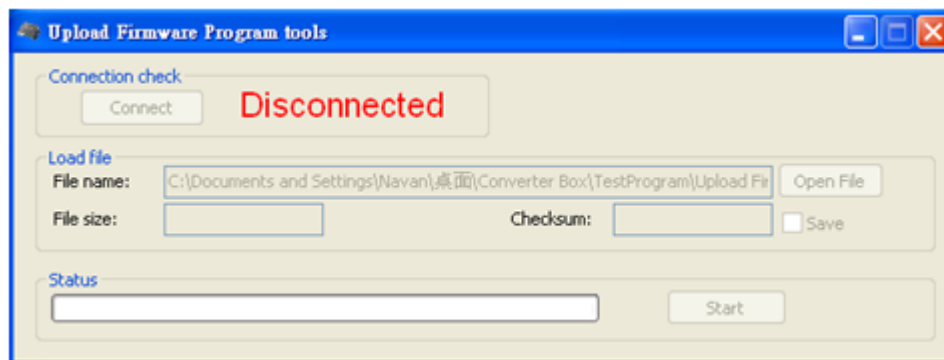
## Firmware Upload

Firmware is upgradable in the field using the integrated USB port

How to Firmware upgrade:

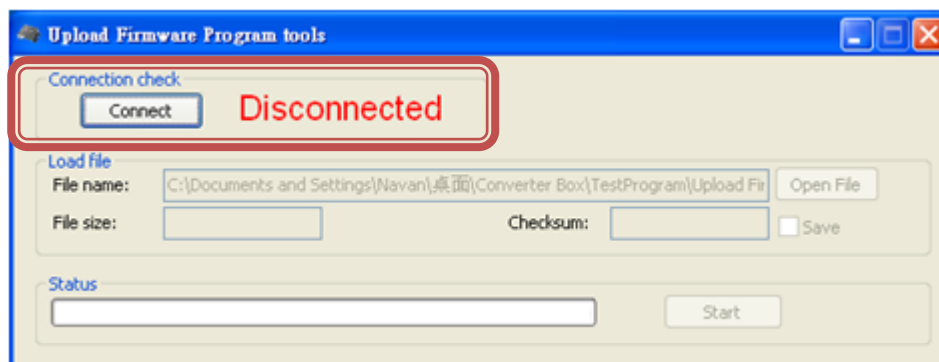
Step 1.

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



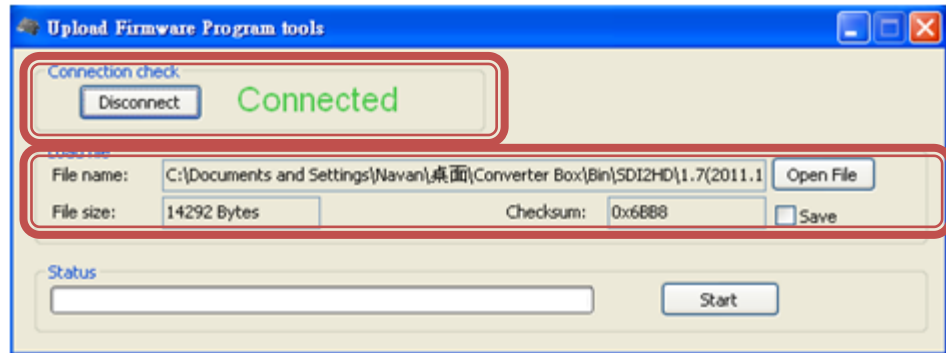
Step 2.

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



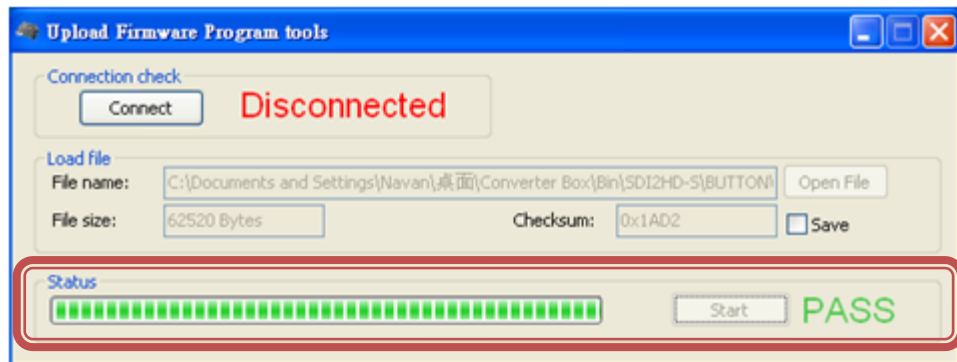
**Step 3.**

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

