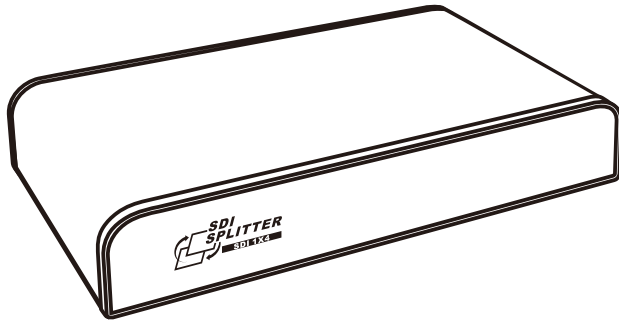# 1x4 SDI Splitter

User Manual

This product distributes SDI signal to 4 simultaneous SDI outputs. It supports full SDI signal input and output with easy operation and high reliability.
This splitter can be widely applied in SDI broadcast room,no-linear editing field, CCTV security and training showroom etc.

BOX CONTENTS

SDI splitter product

DC5V1A power adatper

User manual

1. IMPORTANT SAFETY INSTRUCTIONS

1). Keep the product aways from damp, heat sources, dust, Oxide Gas and corrosive gas environment.
2). Protect all components from strong vibration, crash, knocking and drop.
3). Hold the power supply plug when disconnect it from power socket intead of pulling power cable.
4). Turn off the power when you are not using it. Disconnect the power supply plug completely when not using for long time.
5). Do not open the housing and touch any inner components.
6). Only use power supply offered or specified by the manufacture.
7). Please install this product near ventilation openings to make sure normal heat dissipation.
8). Please keep this product from static and high-intensity magnetic field.
9). Please keep this manual for further reference.

2. INSTALLATION EQUIPMENTS

Source devices can output SDI signal, such as SDI camera
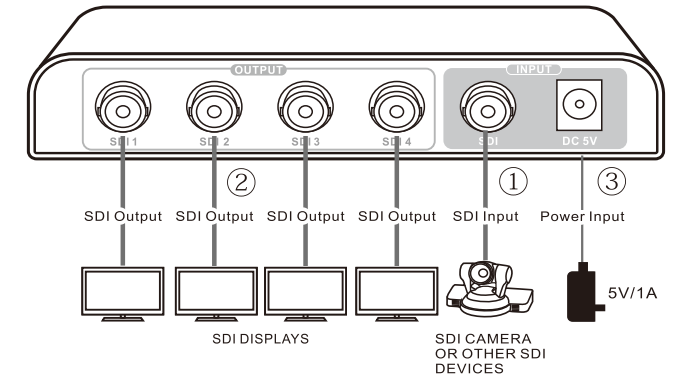
High quality coaxial cables can transmit SDI signal

Devices can receive SDI signal, such as SDI display
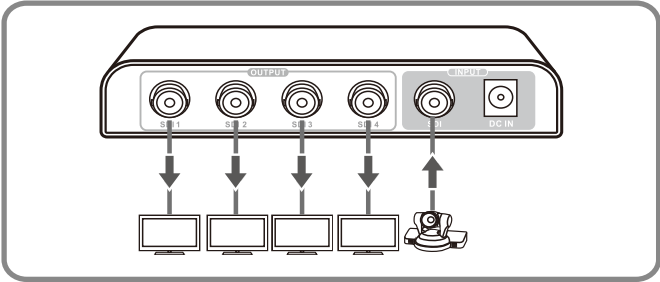
DC5V1A power adatper

3. INSTALLATION PROCEDURE

OUTPUT   INPUT

SDI 1   SDI 2   SDI 3   SDI 4   SDI   DC 5V

② ① ③

SDI Output   SDI Output   SDI Output   SDI Output   SDI Input   Power Input

5V/1A

SDI DISPLAYS

SDI CAMERA OR OTHER SDI DEVICES

Connect devices as above figure shows and then follow below instructions:
① Connect the SDI cable from the source device to the SDI splitter
② Coonect the SDI cable from the SDI splitter to the SDI displays.
③ Connect the power to SDI splitter. It starts working.
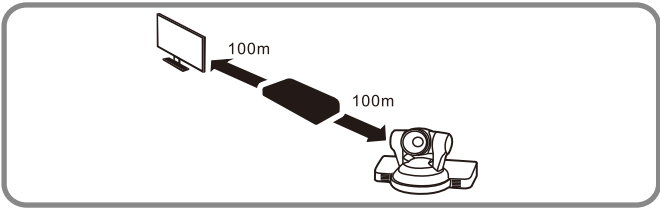
4.FEATURES

1). SDI splitter function
After 3 installation is done, the splitter can start normal working. It can support SD-SDI (270Mbps), HD-SDI (1.485Gbps) and 3G-SDI (2.97Gbps) and distribute to 4 simultaneous SDI outputs.
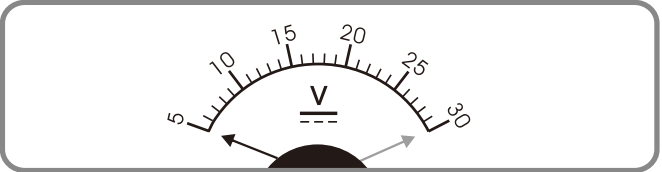

2). SDI repeater function
This splitter provides equalized and re-clocked transmission, and supports signal input and output distances of up to 400meters for SD-SDI signal,200meters for HD-SDI signal and 100meters for 3G-SDI signal.
Note:Tested by Belden 1694A cable,the distance may vary if by cables of different specification.

3). Wide voltage design
SDI splitter applies wide voltage inside design. It can support DC5V-30V voltage input(lowest power is 5W) and is more suitable for projects.

4). Intelligent design
It is plug and play and can detect SDI signal automatically. Indicator LED turns blue when correct SDI signal inputs, turns red when no signal or incorrect signal inputs and allows project customer to find the problem easily.

5.PRODUCT OPERATION

1). This product supports wide voltage input. Users can choose power supply from DC5V-30V as input.
2). 4 SDI signal output simultanuously. No adjust is needed.
3). It can detect SDI signal automatically. When detect correct signal, LED turns blue, otherwise it is red.

6. SPECIFICATIONS

Power supply	DC5V/1A, Supports 5V~30V voltage input
SDI input	BNCx1(SD-SDI/HD-SDI/3G-SDI)
SDI output	BNCx4(SD-SDI/HD-SDI/3G-SDI)
SDI standard	Compatible with 3G-SDI,SMPTE 424M, HD-SDI SMPTE292M and SD-SDI SMPTE259M-C
SDI signal format	SD-SDI, HD-SDI, 3G-SDI
SDI speed rate	143-2970Mb/s
SDI impedance	75Ω

SDI input resolution	480i@60Hz/576i@50Hz/720P@50Hz/ 720P@60Hz/1080i@50Hz/1080i@60Hz/ 1080P@24@25@30@50@60Hz
SDI output resolution	480i@60Hz/576i@50Hz/720P@50Hz/ 720P@60Hz/1080i@50Hz/1080i@60Hz/ 1080P@24@25@30@50@60Hz
SDI signal output amplitude	800mVp-p
Power consumption	< 250mA(DC 5V)
Net weight	201g
Dimension	(LxWxH)130x77x24mm
Temperature environment	0℃~60℃