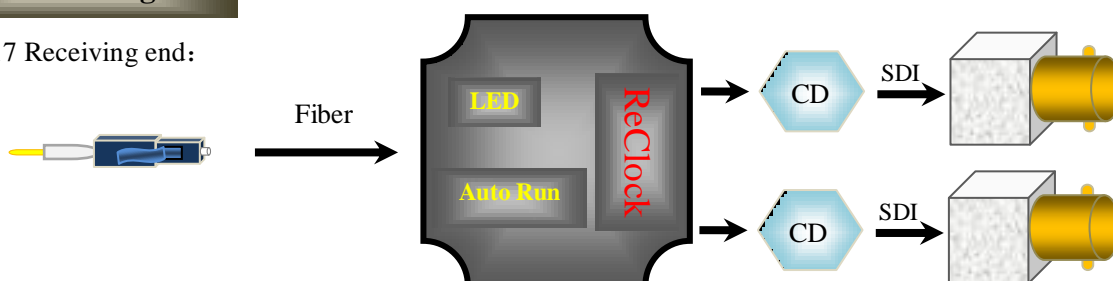


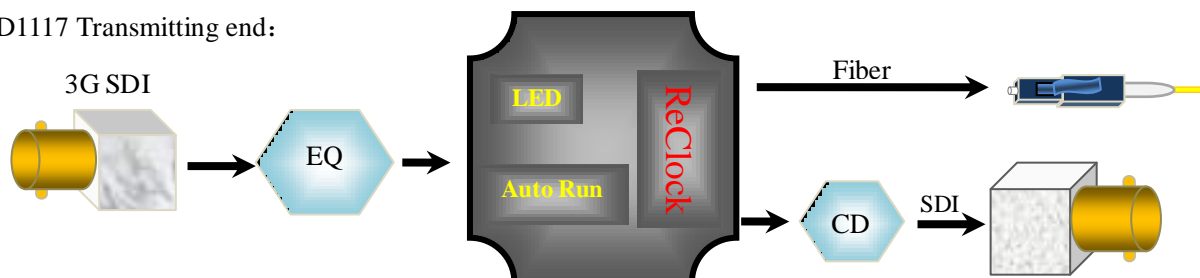
MD1117 (3G SDI Optical Transceiver+2.6"LCD)

Functional Diagram

MD1117 Receiving end:



MD1117 Transmitting end:


Product Introduction

DeviceWell Professional 3G SDI optical transceiver MD1117, optical signal transmission system based on broadcast SDI signal design. The device supports up to 3G SDI signals and is backward compatible with 1.5G SDI and 270M SDI signals. The device has built-in signal equalization, serial clock recovery and line drive. The equipment is used in pairs, and the input and output of optical fiber and SDI can be customized by controlling the DIP switch. The receiving end supports the conversion of 1 optical signal input into 2 independent SDI signal outputs. The transmitting end supports one SDI signal input, which is converted into one optical fiber output and one loop-out. The device adopts a detachable SFP optical module and a single-mode single-fiber design. The standard transmission distance is 20KM. The corresponding modules of different distances can be arbitrarily changed according to different application scenarios. The device's SDI input signal frequency is automatically adapted to automatically detect 3G/HD/SD-SDI signals, which can be applied to professional SDI video signals such as UHDTV/FHDTV/HDTV/SDTV, especially for broadcast-grade ultra-high definition digital. Long-distance fiber transmission and application of signals.

The device is powered by Type C and can be used in USB device power supply systems.

Features

Receiving end:

- ◆ 1-CH optical signal input
- ◆ 2-CH 3G SDI signal output
- ◆ Universal LC fiber interface
- ◆ Supports up to 3G SDI, backward compatible
- ◆ Input and output resolution adaptive
- ◆ Support Type C power supply
- ◆ Single / multimode fiber transmission
- ◆ Self-adapted 3G and below
- ◆ Built-in clock recovery function
- ◇ Special features can be customized

Transmitting end:

- ◆ 1-CH 3G SDI signal input
- ◆ 1-CH 3G SDI signal output
- ◆ 1-CH serial digital fiber signal output
- ◆ Universal LC fiber interface
- ◆ Supports up to 3G SDI, backward compatible
- ◆ Input and output resolution adaptive
- ◆ Support Type C power supply
- ◆ Single / multimode fiber transmission
- ◆ Self-adapted 3G and below
- ◆ Clock recovery function
- ◇ Special features can be customized

Interface Description



Receiving end:

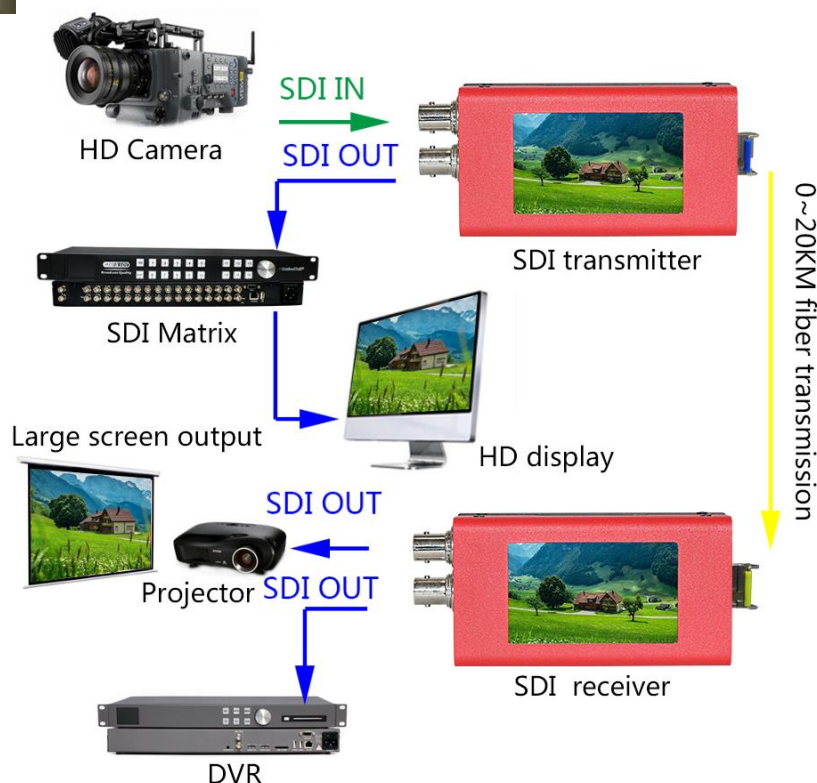
NO.	Function
1	SDI OUT
2	SDI OUT
3	Type C power supply
4	DIP control
5	FIBER IN
6	Audio Switch - Mute/Video On/Video Off
7	Display FIBER /SDI signal switch




Transmitting end:

NO.	Function
1	SDI IN
2	SDI LOOP
3	Type C power supply
4	DIP control
5	FIBER OUT
6	Audio Switch - Mute/Video On/Video Off
7	Display FIBER /SDI signal switch

Application



Product Parameters		
Name	SDI HD Video Optical Transceiver	
Model	MD1117	
SDI Video Input	Input signal	SDI Signal
	Rate	100MHz~3GHz
	Signal amplitude	800mV±10%
	Connector	BNC complies with IEC169-8
Optical Signal Input	Input signal	Optic Signal
	Connector	Standard LC
	Impedance	100Ω
SDI Video Output	Output signal	2-CH SDI Signal
	Rate	100MHz~3GHz
	Signal amplitude	800mV±10%
	Connector	BNC complies with IEC169-8
	Impedance	75Ω
Optical Signal Output	Output signal	Optical signal
	Connector	Standard LC
	Impedance	100Ω
General Parameters	Power supply	DC 5V
	Size	105*48*27mm
	Control	DIP
	Weight	0.2KG
	Operating temperature	0℃~50℃ No condensation
	Storage temperature	-20℃~75℃
	Working humidity	20%~70%RH

Parameters Setting		
		
DIP		Function
1	2	
ON	ON	Reserved
OFF	OFF	Transmitting end
ON	OFF	Receiving end
OFF	ON	Reserved