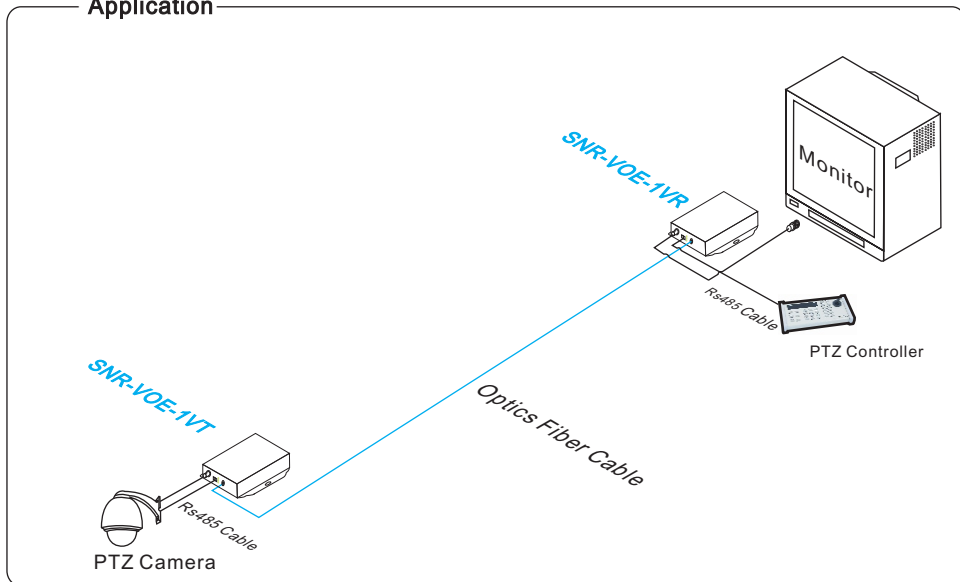


# Single Video Fiber Optic Extender

The product is a transmission device to transfer 1ch Video and 1ch Data by single mode optical fiber. The device adopts advanced full-digital non compression, broadcast grade transmission technology, using single mode optical fiber as transmission medium to transfer 1ch PAL, NTSC, SECAM system signal and 1ch reverse data signal, can reach 20km transmission distance. The device includes transmitter and receiver, need to be used in couple. It features long transmission distance, good quality, strong anti-interference and lightning protection etc.. It's widely used in security camera, multi-media teaching area etc..

## Application



## Feature

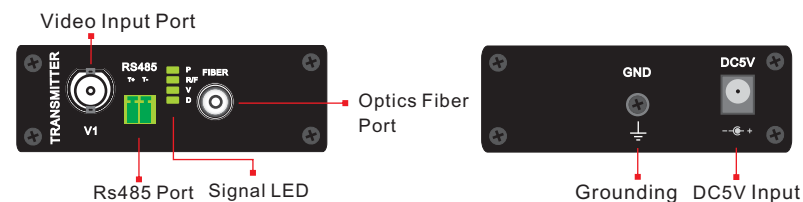
- Power Supply: 5V DC
- Transmission Effect: Real time non compression, video and control signal transmission in broadcast grade. Video signal transmission is in high quality and stable.
- Transmission Distance: 20km
- Function: Adopt single mode optics fiber for long distance 1ch video and 1ch control signal transmission.
- It supports PAL, NTSC, SECAM system video etc.
- Technology: Super Optics Dynamic Range. It requests no adjustment. Auto power rate adjustment, auto temperature compensation electric circuit, auto overload recovery protection
- Security: excellent lightning protection ability and strong anti-interference.

## Notice

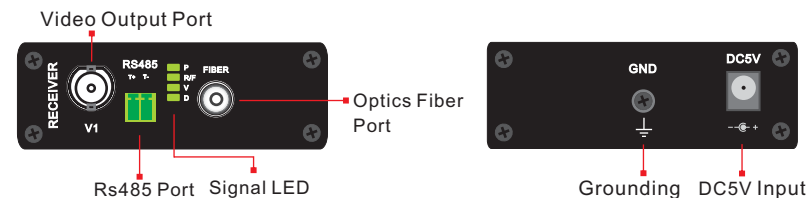
Transmission distance is related with the connecting cable. To get better transmitting image, please use standard network cable.

## Board Diagram

### Transmitter



### Receiver



## Installation

Please check the following item before installation. If it's missing, please contact the dealer

- Transmitter 1set
- Receiver 1set
- 5V/2A Power Adapter 2sets
- User Manual 1set

### Installation steps

- 1) Please close the power related to the device before installation.
- 2) Please check if the coaxial cable being taken up by other device;
- 3) Please connect the camera or PTZ and the V1 Port of the 1ch optics fiber extender with coaxial cable;
- 4) Please connect the monitor or DVR video input and the receiver with coaxial cable ;
- 5) Please connect the transmitter and receiver with optics fiber cable ;
- 6) If the machine connect to the PTZ, please connect the keyboard and the receiver with RS485 cable. and the other side from PTZ and the transmitter with RS485. ;
- 8) Please check if the installation is correct and power the system;

## Specification

	Item	Description
Function	Transmission Channel	1ch
	Distance	20km
Power	Power Supply	DC5V
	Consumption	TX : <2W                      RX:<2W
Video	Video Port and Impudent	BNC/75Ω
	Signal Bandwidth	
	Differential Gain	DG < 1% ( Typical Value)
	Differential Position	DP < 0.6° ( Typical Value )
Data	Video S/N Rate	S/N≥67dB ( Weighting )
	Signal Port	Screw fix port
	Data Type	RS485
	Supporting Rate	0~400kbps
Optical Fiber Index	Error Rate	< 10 <sup>-9</sup>
	Optical Fiber Port	FC Port
LED Light	Wave Length	Single Mode: 1310/1550nm
	Power LED(P)	Green(On means normal)
	Run LED(R)	Green(Spark means normal)
	Data LED(D)	Green(Spark means normal)
Protection	Video LED(V1~V4)	Green(On means normal)
	ESD	1a Contact Discharge Level 3 1b Air Discharge Level 3
Environment	Working Temperature	0°C~55°C
	Storage Temperature	-20°C~70°C
	Humidity	0~95%
Structure	Size	135mm×106mm×28mm
	Material	Aluminum
	Color	Black
	N.W.	Transmitter : 216g                      Receiver : 215g
Stability	MTBF	>10000h

*Specification Change will not be noticed*

## Problem Examination

### Please find the following solution when the device doesn't work

- Please confirm if the installation is correct
- Please check if the cable and connection is stable;
- Please do not overrun the max transmission distance;
- Please check if the powering or connection is right when find no image;
- Please replace a normal device with a failure one,
- If the problem still exist, please contact the factory