BENESTON AHD/CVI/TVI/CVBS Fiber Converter

User   Manual

Dear Customer:

Thank you for purchasing the transmission products of our company.

To smoothly proceed with you work, you are strongly recommended to read this user manual carefully and pay special attention to the precautions in this manual before connecting and operating the product.

Safety Instructions

To prevent personal injury and damaged to the product and other products connected to it, please pay special attention to the following safety instructions:

Do use the product in strict accordance with related regulations to prevent any potential damage.
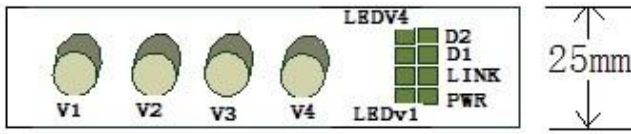
Note:

1. Power voltage: The product can only be used in regions supplied with AC power. Do not use it in other regions.
2. Use the right power cable and power supply. You shall use the power cables supplied with the product or other qualified power cable with cable with housing protection ground terminal. The protection ground terminal of the power socket matching the power cable should be perfectly ground.
3. Pay attention to product grounding. The product is grounded through the grounding conductor in the power cable. To avoid electric shock, the grounding conductor in the power cable should be perfected connected to the ground. Make sure that the product is properly grounded before the connection of the optical and electric ports of the products.
4. Pay attention to limits of all ports: To avoid fire or electric shock, please pay attention to all limits and related labels on the body of the product and those in this manual before the connection of the product
5. Use specified fuses
6. Do not operate at risk: if you suspect that the product does not operate normally, please consult the professional service personnel of our company. Do not continue operations at risk.
7. Do not open the cover or repair the product by yourself. This product contains no user serviceable parts. Refer servicing only to service-trained maintenance personnel of our company or those authorized by us. Open the product without authorization will void the product warranty.

Product Quality Warranty

It is guaranteed that our product will be free of quality defects in the materials or workmanship in one year after delivery. During the warranty period, if it is proved that any quality defects occur to our products, we would provide maintenance or replacement free of charge (only material and labor fees), based on our own tech team judgment.

To enable a user to enjoy the services promised in this warranty. The user shall inform our company or any quality defect occurring during the quality warranty period. And give appropriate assistance to the service we are going to provide. The user shall pack the defective product properly, and send it to the customer service department of our company. Our company will not bear the transportation fees incurring from the return of the product.

Panel (1-4CH)

Front panel

Rear panel

LED direction

LED	Description
PWR	Power supply on
LINK/F	Fiber link is on
D1、D2	Idle
LED V1-V4	1-4ch Video is on

Ports connection

Video connection: Connecting the video signal to/or from the product through a 75ohm coax cable with BNC plug

Video In : connected to video source e.g AHD camera, CVI camera

Video Out : Connected to video display e.g AHD converter or AHD DVR

RS-485 data connection: Connect the output data port(eg. TX+ and TX-) of other control device to the RX+ and RX- of the RX. Connect the input data port (eg. RX+ and RX-) of other under controlled device to the TX+ and TX -of the TX.GND in both TX and RX should be connected directly to user' equipment.'

The product provides two asynchronous data interface at most which are P1 and P2 interfaces configured on the site.

The RS-485 interface can be set to full duplex or half duplex mode on site   .When the interface works in the half duplex mode, the Transmitter uses ONLY TX+ and TX- terminals. And the Receiver uses only RX+ and RX- terminal.

Fiber connection : Connect the fiber optical cable pigtail (with FC/PC or SC/PC optical connector) to the products' fiber port.

(P.S. If you want to use Data control, please mention in the order list. Default setting data is Idle.)

Technical Specifications

Item	BENESTON CCTV Fiber Converter
Video	AHD/CVI/TVI/CVBS
Interface	75ohm, BNC
Signal mode	PAL/NTSC/SECAM
Bandwidth	25-27Mhz
Compatible	AHD and CVI and TVI and AV
Resolution	1080P 25/30, 720P25/30, 960H, D1
Video level	1.0 Vp-p
Differential Phase	2
Differential gain	2%
SNR	63dB
Audio	No
Data Communication	RS-485
Interface	Crimping Terminal block with screw clamps
Interface type	1ch RS-485
Connector	2/3pin screwing block
Operation mode	Simplex, half/full duplex mode
Communication speed	2400 ~ 9600kbps
BER	$<10\text{-}9$
Fiber optical	
Interface	FC (other option: SC)
Mode	Single mode and single fiber
Wave length	1310/1550nm
Distance	20KM
Power supply	DC5V, 2A
Size	200x139x29mm
N.G	1.3KGS
Box Size	340X260X100MM
Work temperature	-10°C ~ 60°C
Storage temperature	·20°C ~ 70°C

Packing List
1. Transmitter
2. Receiver
3. Power supply
4. User manual

Trouble Shooting

Fault Symptom	Possible Cause
Power indicator off	Not power-on
	Loose power plug
	Power failure
No signal output	Broken fiber line or excessively high line loss
No video output	Dirty end face of optic fiber connector
	Poor contact of BNC connector
	Lose power plug
	Monitor not turned on
	Coaxial cable fault
	Feed-in failure of front-end video signal
Poor video quality	Received optical power too low
	Poor connection of cables
	Poor quality of monitor
	Local interference