Fiber Optic Extender User Manual

Model: CV-F01-TX

1. I/O Connectors



Figure 1 CV-F01-TX Fiber Optic Transmitter I/O Connectors

2. Connection introduction





Note: Please connect one single-mode optical fiber to the TX port in the fiber optic connector.

3. DIP Switch

Dial up is "OFF", the corresponding number is "1"; dial down is "ON", the corresponding number is "0". The DIP switch operating instructions as shown in Table 1. And the DIP switch

setting and the corresponding output mode and resolutions as shown in Table 2.

DIP	Item	Description				
	Function	To set output mode and resolution.				
	Applying Condition	Before applying power to the CV-F01-TX or				
Dial both switch 1	Applying Condition	during the service of the item.				
and switch 2		Dialing combination of the DIP switch and				
	Operation	the corresponding resolutions as shown in				
		table 2.				
	Function	To set input standard of CVBS.				
	Applying Condition	Before applying power to the CV-F01-TX or				
Dial only switch 3	Applying Condition	during the service of the item.				
	Operation	Dial OFF: PAL standard				
	Operation	Dial ON: NTSC standard				
	Function	To set the functions of RS232 serial port.				
Dial only switch 4	Applying Condition	Before applying power to the CV-F01-TX or				
	Applying Condition	during the service of the item.				
	Operation	Only OFF is available.				

Table 1 DIP switch operation instruction
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 Table 2
 DIP switch setting and the corresponding output mode and resolutions

Output Resolution & Mode	Dial Switch 1	Dial Switch 2	Corresponding Binary Code
Output: 800×600 Signal Source: Input 1	OFF	OFF	11
Output: 800×600 Signal Source: Input 2	ON	OFF	01
Output: 1600×900 Signal Source: The two signal sources are divided into left and right to display	OFF	ON	10
Output: 1600×600 Signal Source: The two signal sources are divided into left and right to display	ON	ON	00

Note: Default output mode and resolution can be configured through the serial port.

4. Indicator Light

Table 3	Indicator	light	and signal	state
		ω	0	

Light State	L1 flash	L2 on/off	L3 on/off
Description	The CV-F01-TX	on: Input 2 has signal	on: Input 1 has signal
Description	works normally	off: No signal in Input 2	off: No signal in Input 1

5. Audio Input

- The CV-F01-TX supports two 3.5mm ear jack interface line audio transmission, need to add embedded binding CVBS video signal transmission;
- > Please note that two audio can be transmitted separately.
- > CVBS transmission without audio is available.
- > Audio input can be configured through the serial port.

6. Applying Power

- First, please make sure that all the connection is fine.
- > Second, make all the configuration completed according to your specific needs.
- > Third, applying stable 12V/2A power to both the transmitter and the receiver.

7. OSD Setting

Step 1: Connect the CV-F01-TX to the control computer Connect the CV-F01-RX to the control computer by using the DB9 pin RS232 female cross serial line with the item. **Step 2:** Put the CD into the control computer and decompress the configuration tool folder that burned in the CD and install the tool. (You can also ask the technical specialist for the configuration tool folder.)



Step 3: Double click the configuration tool Extender will enter into the Communication

Setting interface. Select serial port and baud rate as shown in figure 3. After that, click the **OK** button.

Communication Setting	
RS232	
Serial Port:	COM1 -
Baud Rate:	57600 🔻
	OK Exit
Tips:	.::

Figure 3 Communication setting interface

Step 4: OSD setting main interface will show up after click the **OK** button in step 3. OSD setting is available in text and image mode.

- ▶ Image size is required to be less than 16K.
- > Text should not exceed the software preview display.
- > Image format is available in bmp, jpg and jpeg.
- > Color setting is available in background and foreground.

Details as shown in figure 4.

Fiber Optic E	xtender Co	nfig Tool 1.0	on the form	- 34	- 6.6	5 T · =·	0-86 X	
OSD F	aram Set	Device Info						
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Wio	ith 128		ight 50	×		0 300%	0 400%	
Colo	r ckaround		Transparent	0—		0		
Fo	reground		Inverse				Swite	ch
Back	ground Ima	ge (Optional)						
	Load Pictur	e I	mage			Monochrome –	Advance	
		321	bmp					
Text	10	4						*
Y	10		Font					
		-				1		Ŧ
				Dov	vnload			
Tips:								

Figure 4 OSD setting main interface

Image mode setting steps are as follows:

Step 1: Select the input port.

Step 2: Click the checkbox which is in front of the Enable OSD.

Step 3: Select the background image according to your needs. Please note that this step is optional.

Step 4: Set the color of image.

Step 5: Set the location and the size of image.

Step 6: Select the magnification.

Step 7: Click the **Download** button and the setting will come into effect immediately. The details as shown in figure 5.

😨 Fiber Optic Extender Config Tool 1.0	×
OSD Param Set Device Info	
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video input 1	
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Color Background Transparent Switch Switch	
Background Image (Optional) Load Picture Image 321.bmp Monochrome Normal Advance	3
Text X 10 Image: Compared with the second secon	
Download 🕡	

Figure 5 Image mode setting steps

> Text mode setting steps are as follows:

Step 1: Select the input port.

Step 2: Click the checkbox which is in front of the Enable OSD.

Step 3: Design the text content according to your needs.

Step 4: Set the color of text.

Step 5: Set the location and size.

Step 6: Select the magnification.

Step 7: Click the Download button and the setting will come into effect immediately.

The details as shown in figure 6.

OSD Param Set Device Info Pot
OSD Param Set Device Info
Pot 2 video input 1 Location and Size X Y Width 160 Height 100 300% 400% Color Background Transparent Switch
video input 1 Location and Size x y i width 160 Height 100 300% 400% Switch
Image: state stat
video input 1
Video Input I Location and Size X 0 + Y 0 + 0 Width 160 + Height 100 + 0 Color Background Transparent Switch 0 Switch 0 Magnify @ 100% 200% @ 300% 400% 100 Switch 0 100 100 100 100 100 100 100 1
Location and Size Magnify ● ● 00% ● 200% ● <t< td=""></t<>
Location and Size X 0
Location and Size Magnify X Image: Color Background Transparent Switch Switch
Location and Size Magnify x v width 160 Height 100 Switch 300% Background Transparent Switch Switch
Location and Size Magnify X Image: Color Background Transparent Switch Switch
X V Y V Image: Second se
Width 160 Height 100 300% 400% Color Background Transparent 0 Switch 30%
Color Background Transparent Switch
Background Transparent Switch
Switch
Foreground Inverse
Background Image (Optional)
Monochrome
321.bmp
Text
x 10
Font Video input 1
Download
Tips:

Figure 6 Text mode setting steps

Note:

- If OSD setting is not required, please uncheck the option which is in front of the Enable OSD.
- > The crossover serial cable with DB9 pin female connector is needed.

8. Parameter Setting

The CV-F01-TX is available in audio input selection, image display setting and port parameter setting through the configuration tool.

- Audio input is available in Input 1 or input 2.
- > Image display mode can be controlled by the configuration tool or DIP switch.
- > Brightness, chorma, saturability, contrast and mode setting are available.

The details as shown in figure 7.

🦉 Fiber Opti	ic Extender Co	onfig Tool 1.0					-	- 8.4	
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OSD	Param Set	Device Info							
								and	
							L	oau	
		Audio Source							
			IN	1	IN2				
		Image							
		mage							
			So	ftware	Dial	Switch			
		Output M	ode 🚺	1600×900 <u>60</u>	Hz Input1.2		-		
				800×600 60H	z Input1	_	ī		
		Params	_	1600×900 60 1600×600 60	Hz Input1,2 Hz Input1,2				
		Port:	1			Default	1		
		Brightne	ess	142		-			
		Chro	ma	0					
		00		0					
		Saturab	ility	118		•			
		Contr	ast	127		-			
		Mo	ode	NTSC M/J		•			
Tips: Out	tput mode ha	s been set successfu	lly! 16:	46:7					

Figure 7 Parameter setting interface

Note:

- > If you would like to check the current state of the item, please click the Load button.
- If the control mode is **Dial Switch**, the resolution of the item can be configured by DIP switch directly.
- The important and commonly used OSD information can be saved to the local computer software to facilitate later use through the configuration tool.