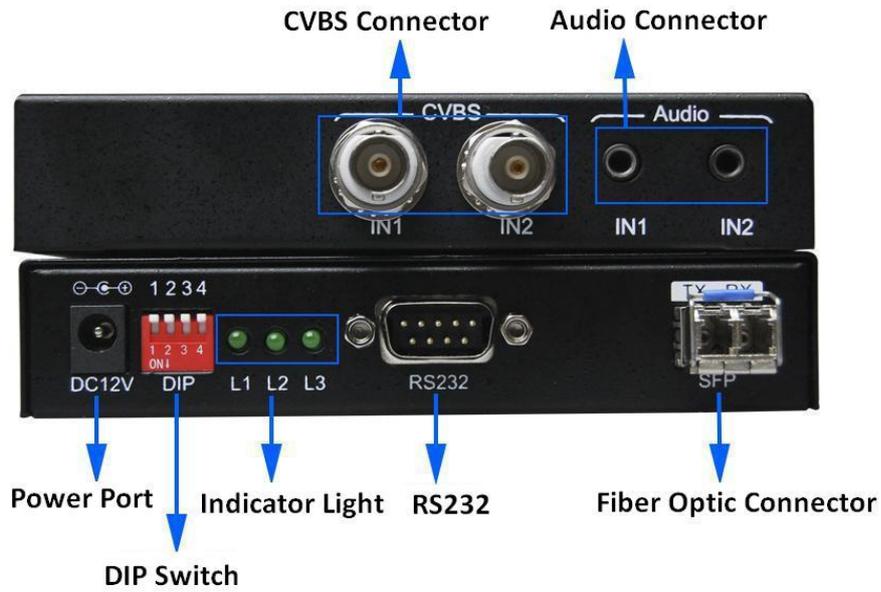


# Fiber Optic Extender User Manual

## Model: CV-F01-TX

### 1. I/O Connectors

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



### 2. Connection introduction

Figure 2 CV-F01-TX Fiber Optic Transmitter Connection



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.

Table 1 DIP switch operation instruction

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

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

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

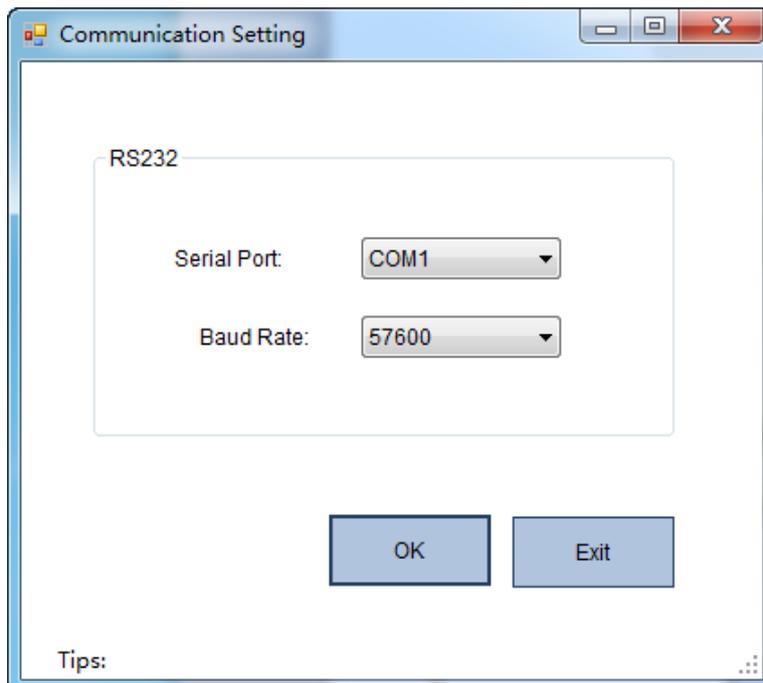
**Step 1:** Connect the CV-F01-TX to the control computer Connect the CV-F01-RX to the control computer by using the DB9 pin RS232 female cross serial line with the item.

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

Figure 3 Communication setting interface

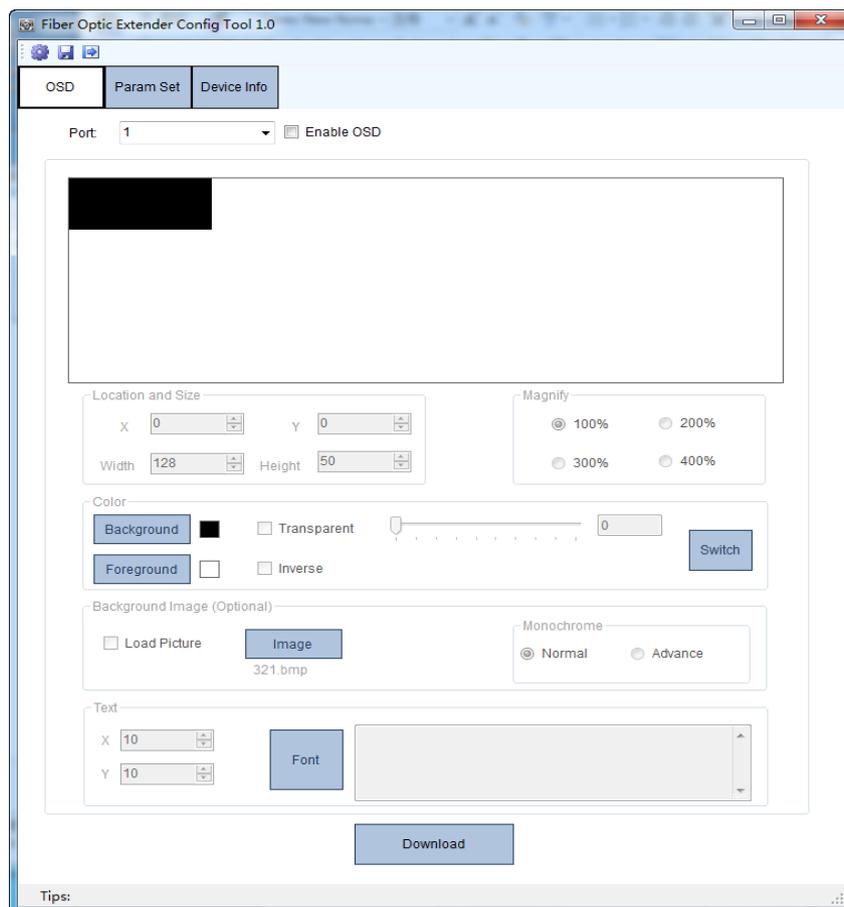


**Step 4:** OSD setting main interface will show up after click the **OK** button in step 3. OSD setting is available in text and image mode.

- 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.

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.

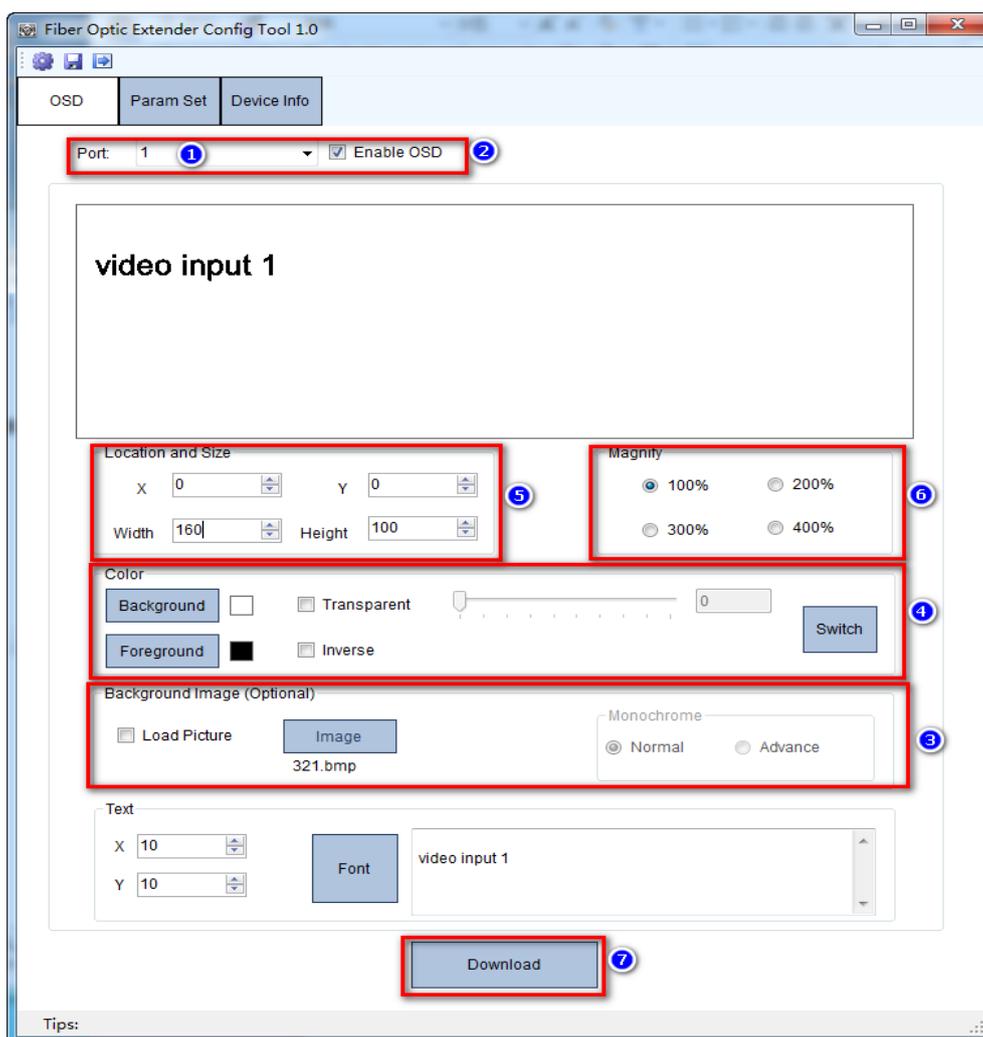
**Step 5:** Set the location and the size of image.

**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.

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.

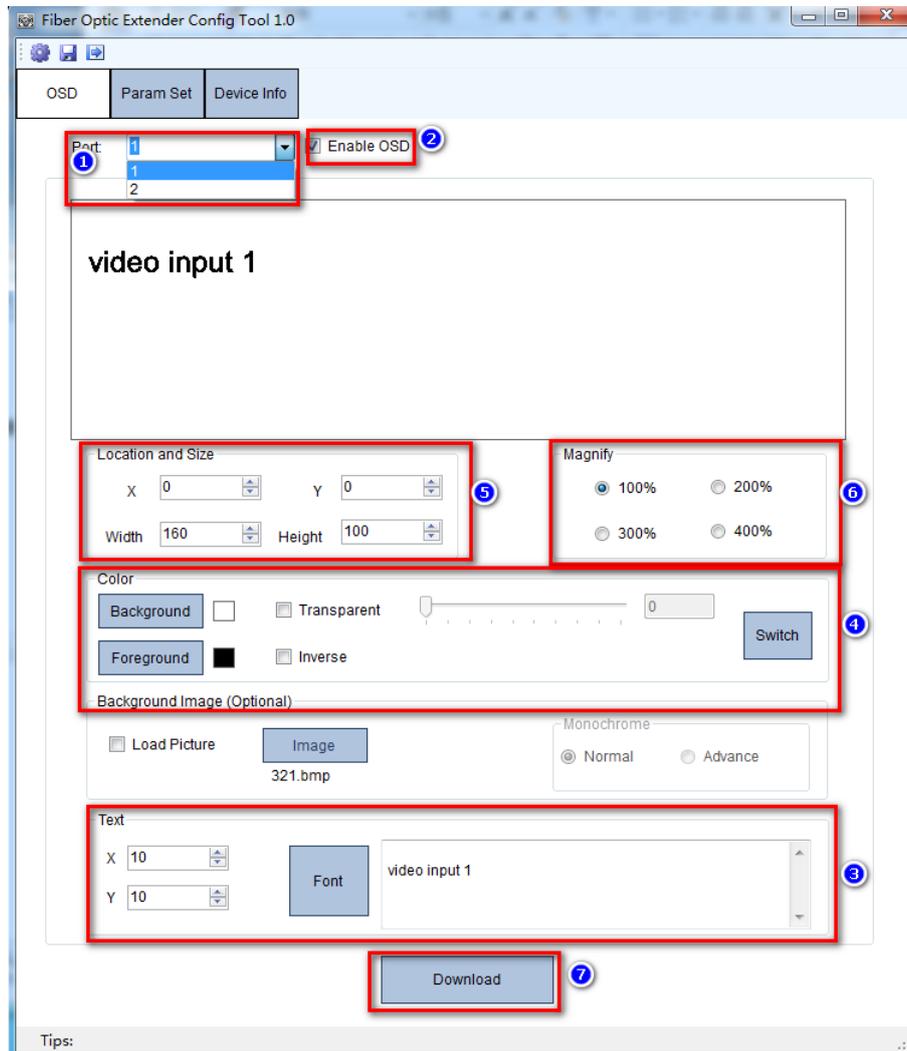
**Step 5:** Set the location and size.

**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.

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.

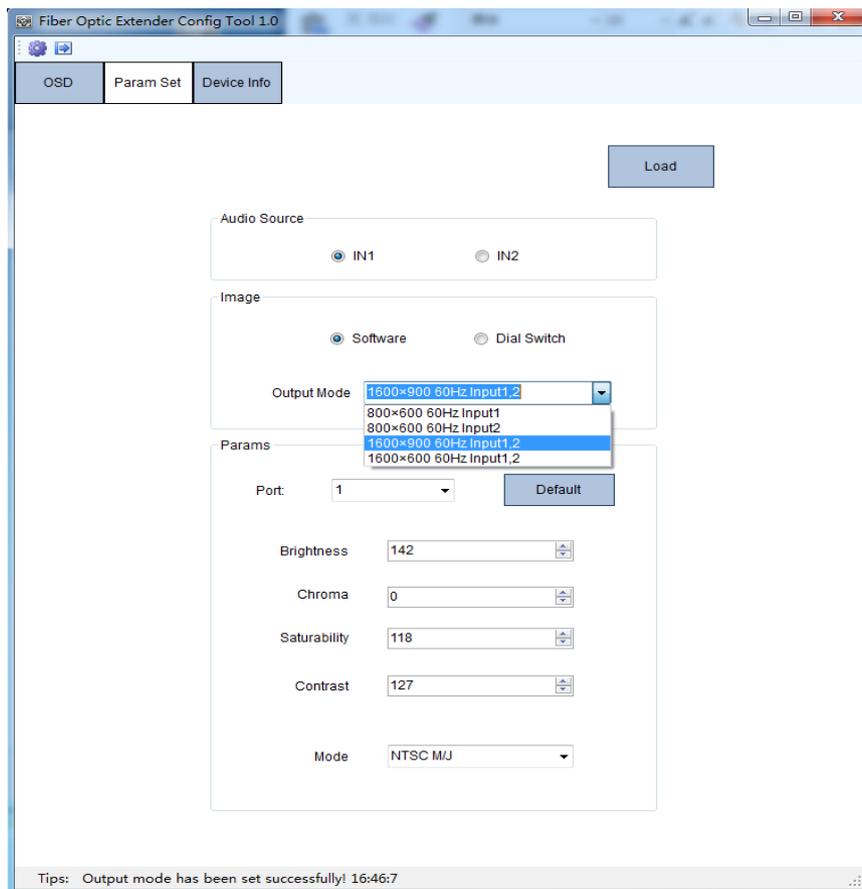
## 8. Parameter Setting

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, chroma, saturability, contrast and mode setting are available.

The details as shown in figure 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.