

How to play video _ V1.0

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Summary	How to play video



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1. Scope

Things document applies only to series of serial-screen products.

2. Development Environment version

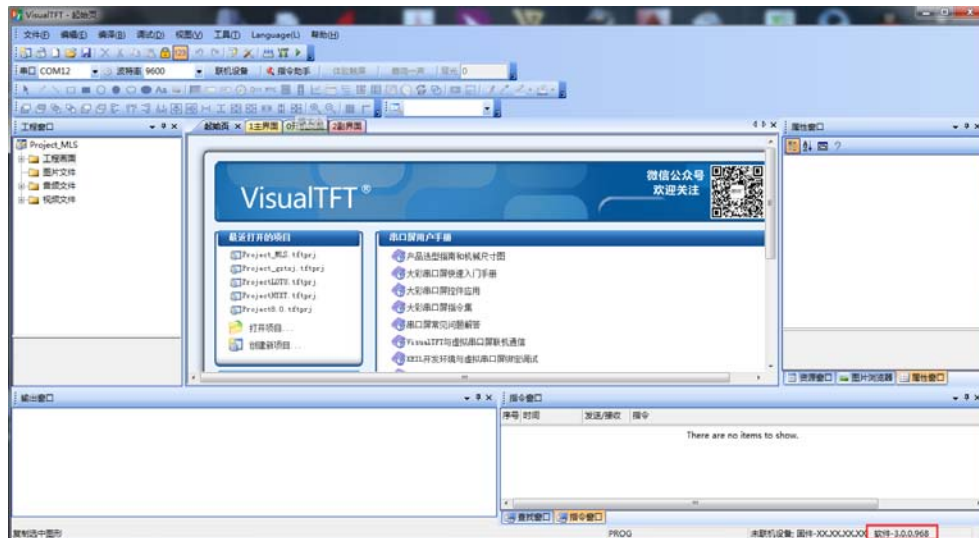
1. VisualTFT Software version: V3.0.0.944 And above versions. View version:

- a) turn on VisualTFT Software start page is shown 2-1 Right corner will display the software version number;



Map 2-1 Software version

- b) turn on VisualTFT You can view the map in the lower right corner of the software version of the software 2-2 The latest version can log <http://www.gz-dc.com/> Download.



Map 2-2 Software version

2. Serial screen hardware version: V3.0.287.0 And above versions. View version:

- a) Check the version number sticker on the back of the screen;
- b) VisualTFT After the success of the online screen, the version number displayed in the lower right corner.



3. Video Player Profile

Serial port supports playback of stored video screen internal screen and external matter with our series of serial screen U Disk or SD Video card. Play video requirements: MP4 Format, resolution shall not exceed 1280 * 720 . And play video files need to go through software Freemake Video Converter Converted into MP4 Format (source video format MP4 Is also subject to conversion), if other video converter format conversion, serial screen may not play properly.

Playback video screen and the outside thereof inside the screen displays the serial port linked screen U Disk or SD Video card in the process of operation is similar except that the configuration of the video playback controls properties window "video file" method differ.

Was linked serial video screen displays specific procedure is as follows:

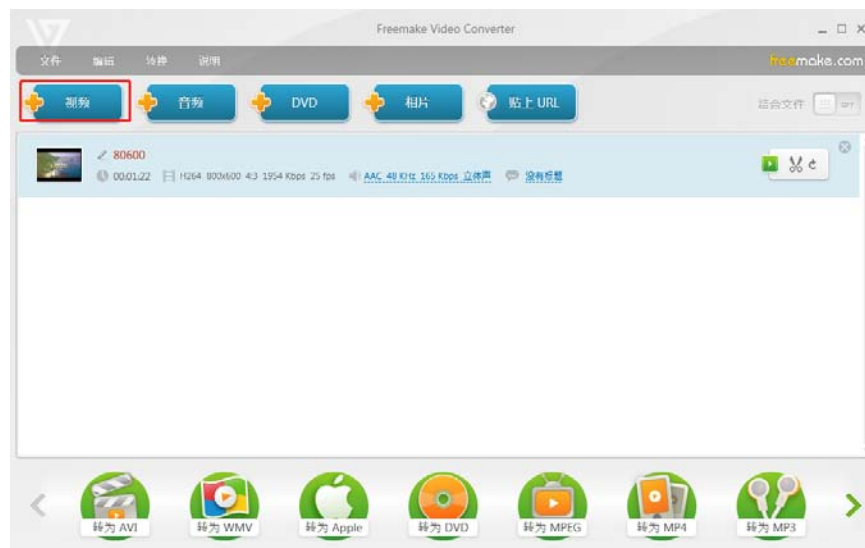
1. The video project required format (MP4 Format) conversion;
2. The video added to project files (external player U Disk and SD The video card without having to process);
3. Add and configure the video playback controls on the project screen;
4. By sending a corresponding control command to play the video.

4. Video format conversion (. MP4)

The project used the serial video screen use Freemake Video Converter Video conversion software to convert MP4 format.

4.1 Select the video to be converted

turn on Freemake Video Converter Software, add the video files to be converted, as 4-1 :



Map 4-1 Add video

4.2 Select the conversion format

Click "to MP4 "pop up MP4 Output Parameters window, in a window "preset" to select the same source. Figure 4-2 :



Map 4-2 Format Conversion

4.3 Video Set preset parameters

Click "Edit preset" Figure 4-2 ,turn on MP4 FIG editor preset 4-3, Modifying preset parameters:

1 , Screen size setting can be defined as self, but can not exceed the maximum resolution 1280 * 720 Users configure

Fill the screen resolution to the serial port;

2 , Adjustment may choose to extend (the default is opt-black side, where the user can choose their own needs);

3 , The video decoder selection H.264 , Remaining unchanged;

4 , Select Audio Video MP3 format.



Map 4-3 Set video parameters

4.4 Set the video file size

Since the file size of the video is controlled by the rate, so the higher the larger the file-definition video, but the video can not exceed the capacity of the port and the highest screen resolution. Figure 4-4;



Map 4-4 Custom output

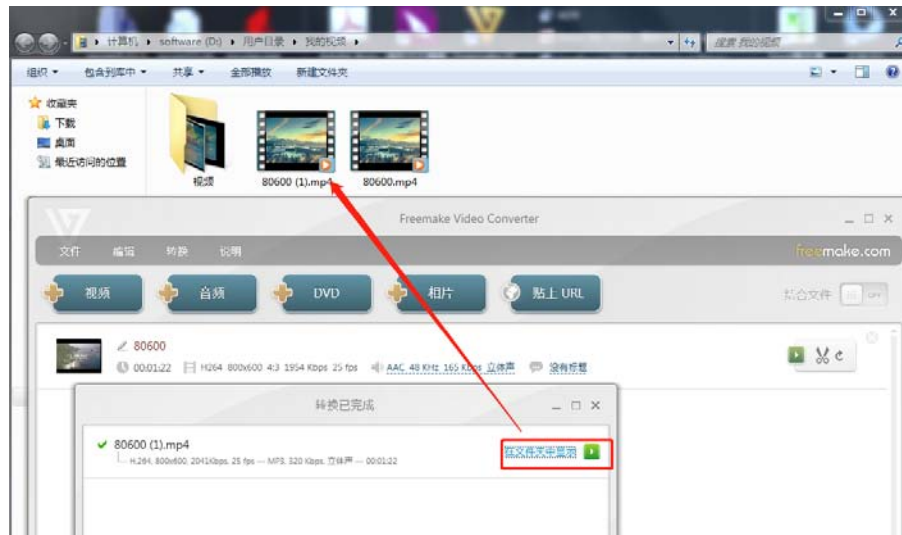
4.5 After the video conversion memory location

After completion of the above steps, convert the video into MP4 File, as 4-5 ; After successful conversion click *folder

Displays "can see the position of the video conversion is stored, in Figures 4-6;



Map 4-5 Conversion successful



Map 4-6 Converted video storage location

5. How to play the internal video screen

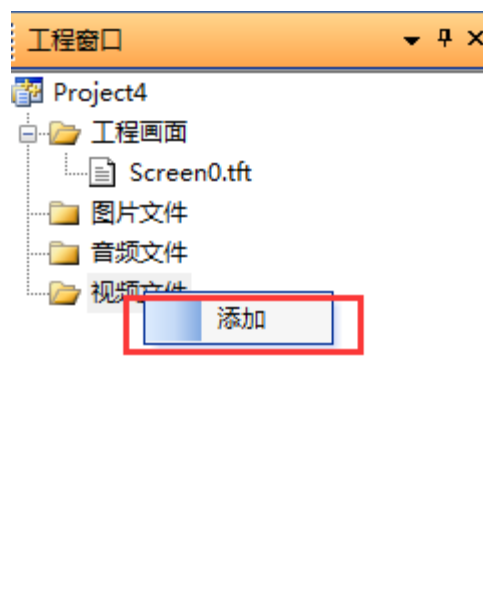
Use the video playback controls to play serial video screen inside also need to complete the following four steps:

1. Adding video works;
2. Add video project screen playback controls;
3. Video playback controls configuration properties window in the "Video File";
4. Send commands to control video playback, pause / resume, stop.

5.1 Add video project

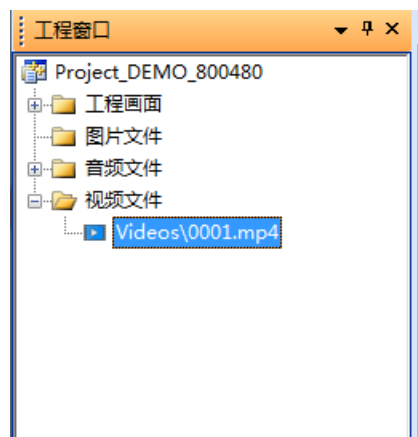
in VisualTFT Right-click on the project window "Video File" to add video, add video will be saved to the project directory after the success of " Videos "Folder.

By default compiler works with stored into the internal storage partition when you add here to download video files A In FIG. 5-1 It shows:



Map 5-1 Add video

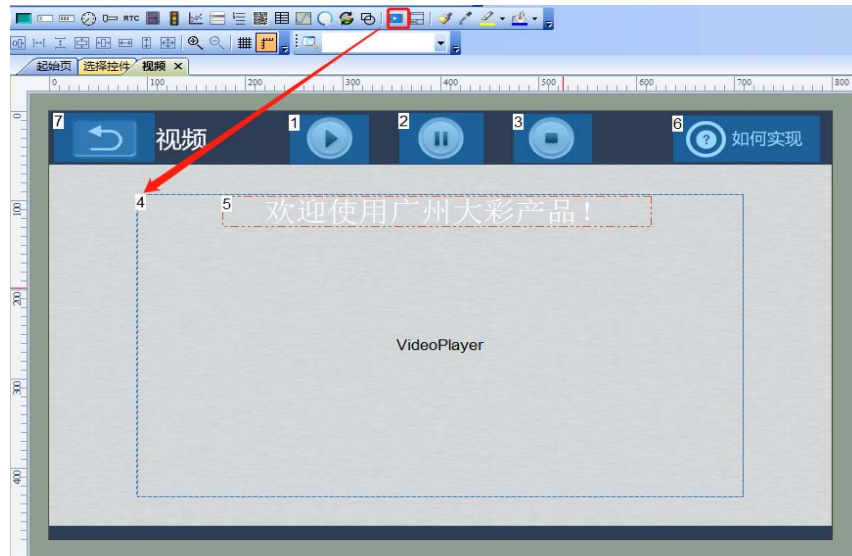
Note: The format for video MP4 Format, video path and file name of the letter (a-z),digital(0-9) And underscore (_) combination, does not support other characters. Figure 5-2 :



Map 5-2 Added successfully

5.2 Add video project screen playback controls

Video playback controls are placed on a screen, as shown in 5-3 Below:



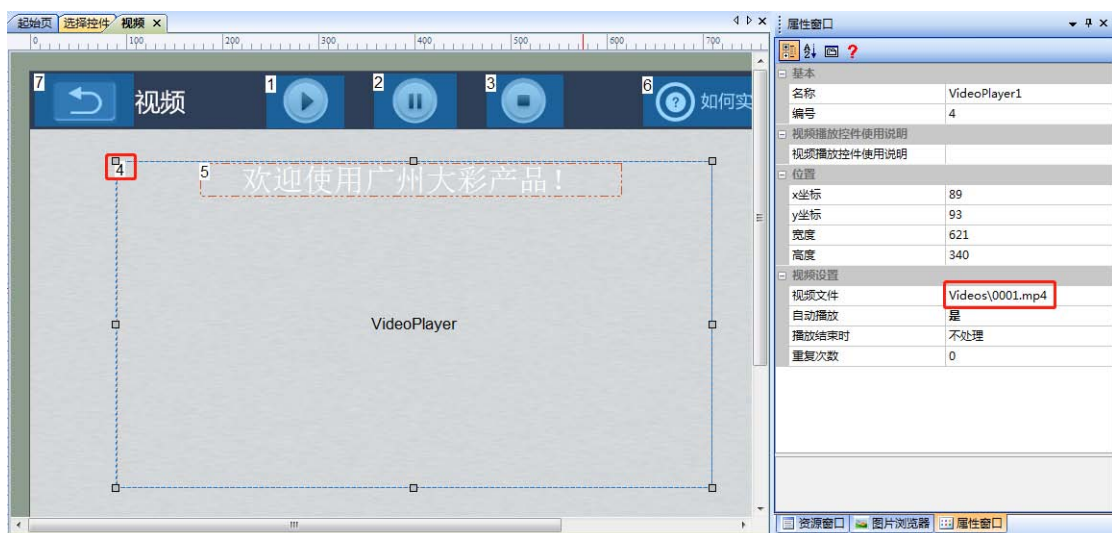
Map 5-3 Add video playback controls engineering

5.3 Configure the video playback controls in the Properties window " Video files "

Video playback controls need to configure the properties window in the "Video files" to play the video (Properties window in the "video file" refers to the video path), set the video path two ways:

1. When the project configuration, "Video File" is set to select the video playback controls in the control properties window to add project

Add video, as shown in 5-4 Below:



Map 5-4 Add video path

2. Set video path by sending commands. FIG acquisition command is as follows 5-5 :

1. Picture ID The serial number is on the screen where the video playback controls;
2. Controls ID Serial number for the control video playback controls;
3. Video storage location selected partition A Video name must be added in front of the corresponding video project name. Note: Adding video works by default stored in the internal memory partitions A , The storage partitions B , C Rarely used. As shown below:

设置视频路径

画面ID 控件ID

视频位置

A:/Videos/0001.mp4

指令

Map 5-5 Internal memory

Format:

Format: EE [B1 74 Screen_id Control_id Videos_Path] FF FC FF FF

Parameter Description: Screen_id (2 Bytes): Screen Number

Control_id (2 Bytes): Number of video playback controls

Videos_Path : Video path (can be converted in the instruction Assistant)

5.4 Send commands to control video playback, pause / resume, stop

After the properties window video playback controls in the "video file" is set, a video player can play the control by sending control commands, suspend / resume, or stop the video.

5.4.1 Video Player

Input screen video playback controls ID And Controls ID Click "Play" to play the video generation instruction. The issue control instructions cause the video player to play the video, as shown in 5-6 Below:

视频控制

画面ID 控件ID

播放次数 (0循环播放)

指令

Map 5-6 Play Video

Play instruction: Instruction Format: EE [B1 70 Screen_id Control_id Number] FF FC FF FF

Parameter Description: Screen_id (2 Bytes): Screen Number

Control_id (2 Bytes): Number of video playback controls

Number (2 Bytes): the number of video loop, 0 The primary instruction to loop for controlling the video playback controls playback, the video player can set the appropriate number of cycles, so that video playback in accordance with the appropriate setting. (Note: Video playback controls must set video path)

5.4.2 Video pause / resume

The pause command for controlling the video playback controls / resume as 5-7 .

视频控制

画面ID	17	控件ID	4
播放次数	0	(0循环播放)	
		播放	停止
		暂停/恢复	
指令	EE B1 72 00 11 00 04 FF FC FF FF		

Map 5-7 Pause / Resume

Pause / resume instruction: Instruction Format: EE [B1 72 Screen_id Control_id] FF FC

FF FF

Parameter Description: Screen_id (2 Bytes): Screen Number

Control_id (2 Bytes): Number of video playback controls

5.4.3 Video stop

Stopping the playback control command for controlling the video playback, FIG. 5-8 .

视频控制

画面ID	17	控件ID	4
播放次数	0	(0循环播放)	
		播放	停止
		暂停/恢复	
指令	EE B1 71 00 11 00 04 FF FC FF FF		

Map 5-8 stop

Stop instruction: Instruction Format: EE [B1 71 Screen_id Control_id] FF FC FF FF

Parameter Description: Screen_id (2 Bytes): Screen Number

Control_id (2 Bytes): Number of video playback controls

6. How to Play U Video disk

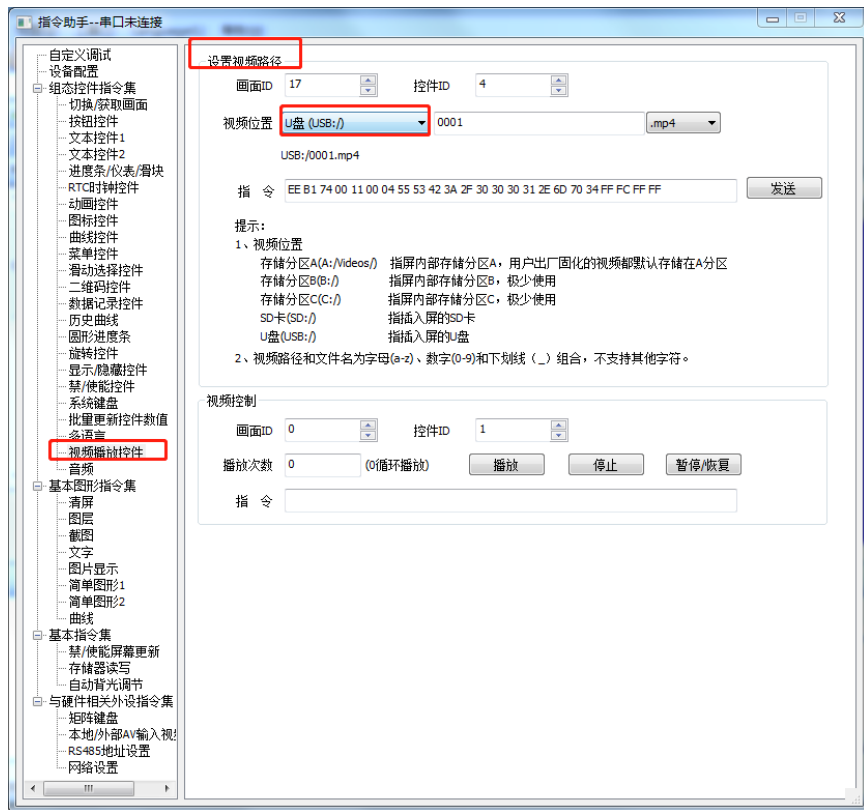
Play outside U And the step of playing a video disc internal video screens substantially the same steps, except that the external player U Video disc can only be set by sending an instruction video path, operation is as follows:

1. Add video project screen playback controls (refer to 5.2 chapter);
2. Transmission instruction set video path
3. Send commands to control video playback, pause / resume, stop (see 5.4 chapter).

6.1.1. Video path setting instruction

In the video play control command [assistant may generate instructions to configure the video playback controls, as shown in 6-1 , The parameters are as follows:

1. Picture ID The serial number is on the screen where the video playback controls;
2. Controls ID Serial number for the control video playback controls;
3. Select the video position U Plate, the name must be followed by video U Intraday consistent. Note: The format for video MP4 Format, video path and file name of the letter (a-z),digital(0-9) And underscore (_) combination, does not support other characters.



Map 6-1 Set up U Disk path

Format:

Format: EE [B1 74 Screen_id Control_id Videos_Path] FF FC FF FF

Parameter Description: Screen_id (2 Bytes): Screen Number

Control_id (2 Bytes): Number of video playback controls

Videos_Path : Video path (can be converted in the instruction Assistant)

7. How to Play SD Video card

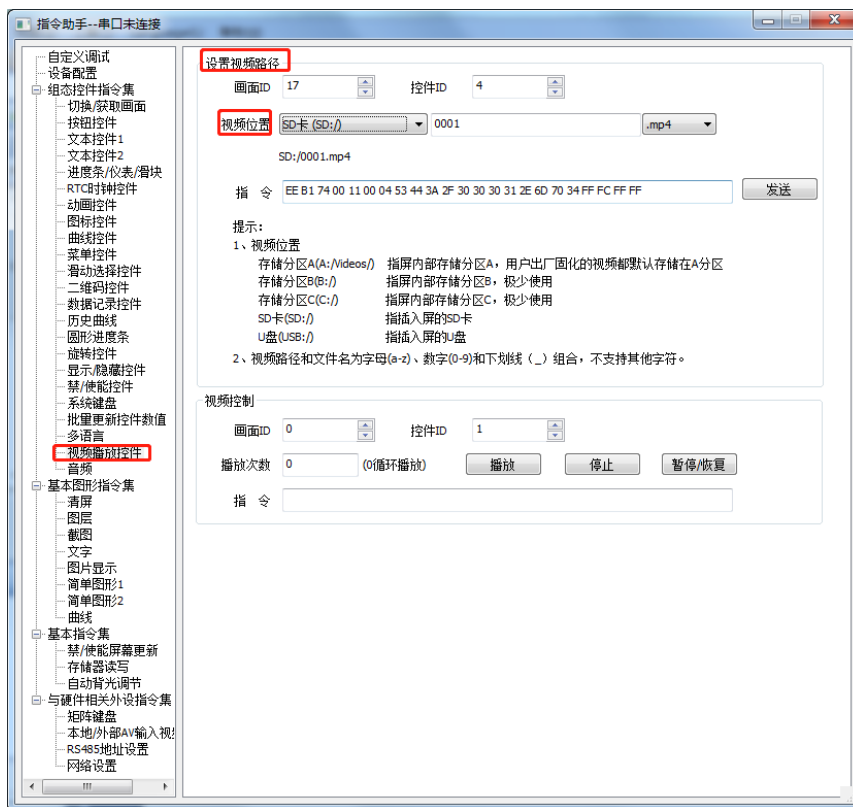
Play outside SD And the step of playing the video card internal video screens substantially the same steps, except that the external player SD Video card can only be set by sending an instruction video path, operation is as follows:

- 1 , Add video project screen playback controls (refer to 5.2 chapter);
- 2 , Transmission instruction set video path;
- 3 , Send commands to control video playback, pause / resume, stop (see 5.4 chapter).

7.1.1 Video path setting instruction

In the video play control command [assistant may generate instructions to configure the video playback controls, as shown in 7-1 , The parameters are as follows:

1. Picture ID The serial number is on the screen where the video playback controls;
2. Controls ID Serial number for the control video playback controls;
3. Select the video position SD Card, the name must be followed by video SD The same card. Note: The format for video MP4 Format, video path and file name of the letter (a-z),digital(0-9) And underscore (_) combination, does not support other characters.



Map 7-1 Configuration SD Video card path

Format:

Format: EE [B1 74 Screen_id Control_id Videos_Path] FF FC FF FF

Parameter Description: Screen_id (2 Bytes): Screen Number

Control_id (2 Bytes): Number of video playback controls

Videos_Path : Video path (can be converted in the instruction Assistant)

8. Use Cases

Things serial-type screen play U Under the root directory test.MP4 Video file. Methods as below:

1. Add three buttons and a video playback controls on the screen. The buttons are arranged three attributes and a set button exclusive

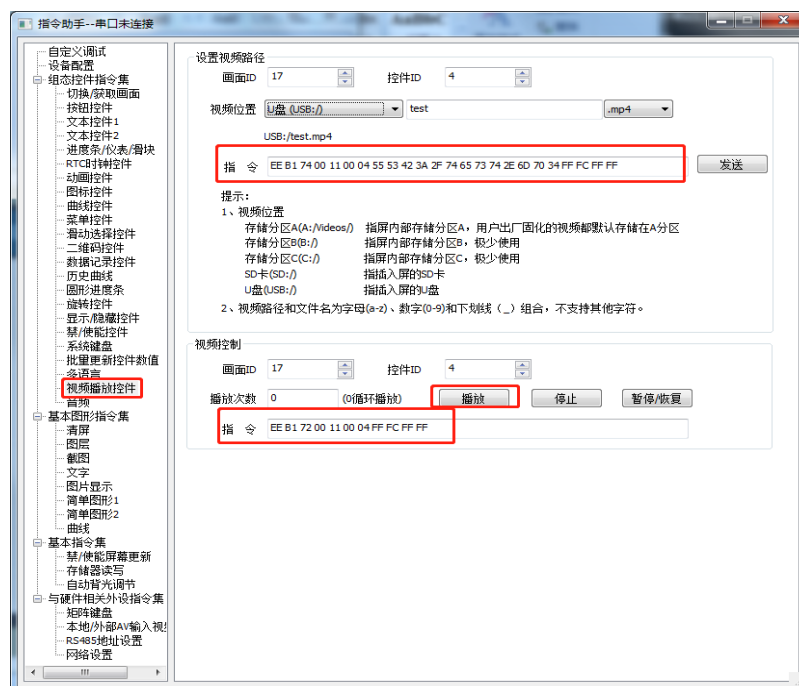
Bit. Figure 8-1



Map 8-1 Button placement

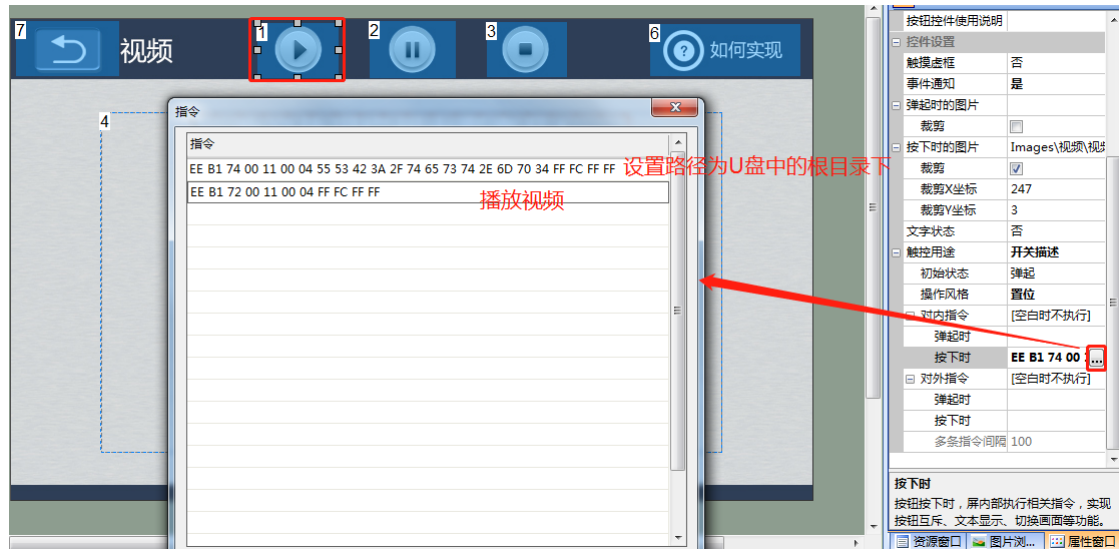
2. Generating a set of video play control in the playback path instruction Assistant U Under the root directory test.MP4 Documents

Instructions and video playback instruction as 8-2 :



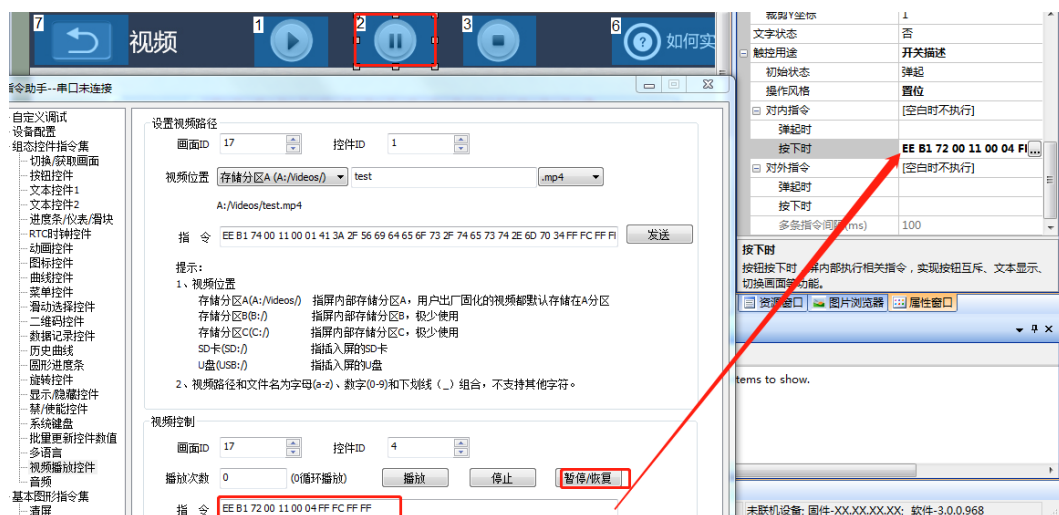
Map 8-2 Generates an instruction

3. Adding to the first two instructions in a button control. Figure 8-3 ;



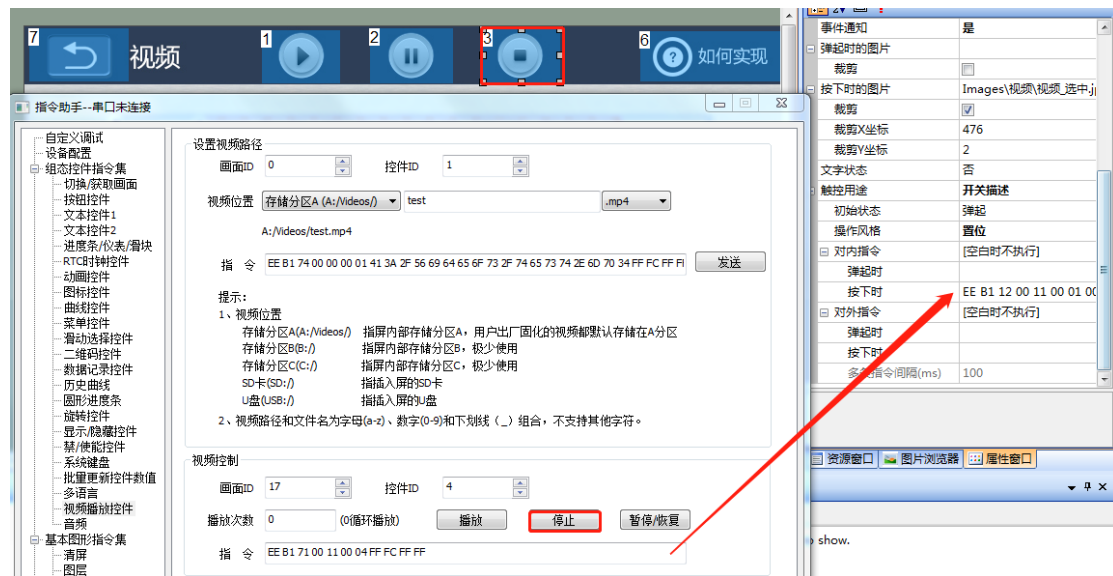
Map 8-3 Add instructions

4. The suspend / resume button is added to the second instruction in FIG. 8-4 :



Map 8-4 Pause / resume instruction

5. The stop command is added to the third button, FIG. 8-5 ;



Map 8-5 Stop command

6. After configuration, download the project to the entity running screen Figure 8-6 Fig.



Map 8-6 Play Video