

WEINTEK LABS., INC.

USB Camera and Picture View

Demo Project

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1. Overview and Operation

Overview

This demo project introduces how to capture and save an image into SD card by using the USB camera feature of Video In object, and then display the saved image by using Picture View object.

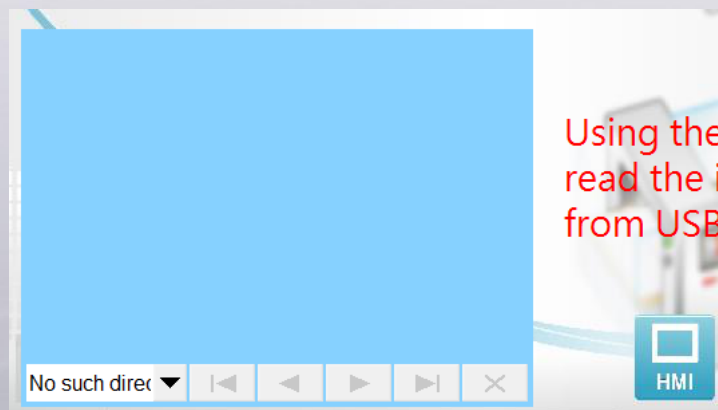
Operation



The [PLAY], [PAUSE], and [STOP] buttons are used to control the USB camera.

Tap [PLAY] to operate USB camera or tap [Stop] to stop USB camera.

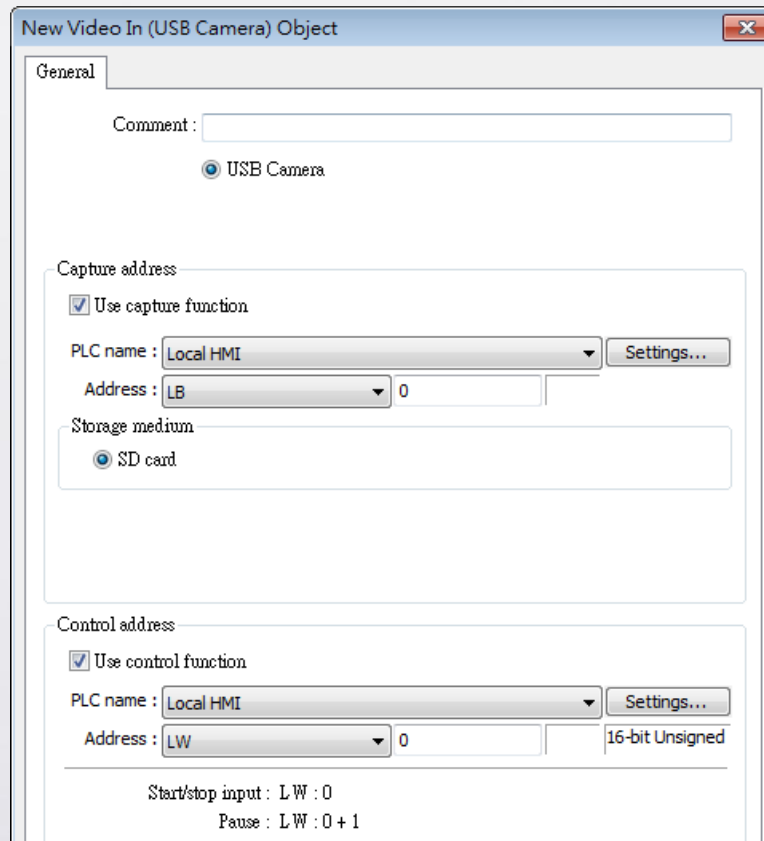
The [Retrieve photo] button on the right hand side saves the captured image into SD card. If USB camera is paused, clicking [Retrieve photo] button still captures the image, and wakes the USB camera.



The captured imaged can be displayed by using Picture View object.

2. Setting up the Screen

Step 1. Create a Video In (USB Camera) object, and select [Use capture function] check box. Create three Set Word objects to control USB camera, and one Toggle Switch object to retrieve photo.



New Video In (USB Camera) Object

General

Comment :

☒ USB Camera

Capture address

☒ Use capture function

PLC name : Local HMI

Address : LB 0

Storage medium

☒ SD card

Control address

☒ Use control function

PLC name : Local HMI

Address : LW 0 16-bit Unsigned

Start/stop input : LW : 0

Pause : LW : 0 + 1

Step 2. Create a Picture View object, select [SD card] for file position, and [Video In (USB Camera)] for directory. The directory name is automatically displayed.

New Picture View Object

General Security

Comment :

Outline

Toolbar position : ☐ Hide delete button

Background color :

Font :

File position

☒ SD card ☐ USB disk

Directory

Root directory
Screen hardcopy
Video in (USB Camera)
User-defined

* Note: Filenames must contain only ASCII characters. Unicode is not supported.

3. Addresses

The addresses of objects used in this demonstration are listed below.

Object	Address	Object ID	Description
Window 10			
Video In	LB-0	VI_0	Capture address
	LW-0	VI_0	Control address
Set Word	LW-0	SW_0	PLAY (Write constant value 1)
	LW-0	SW_2	STOP (Write constant value 0)
	LW-1	SW_1	PAUSE (Write constant value 1)
Toggle Switch	LB-0	TS_0	Retrieve photo