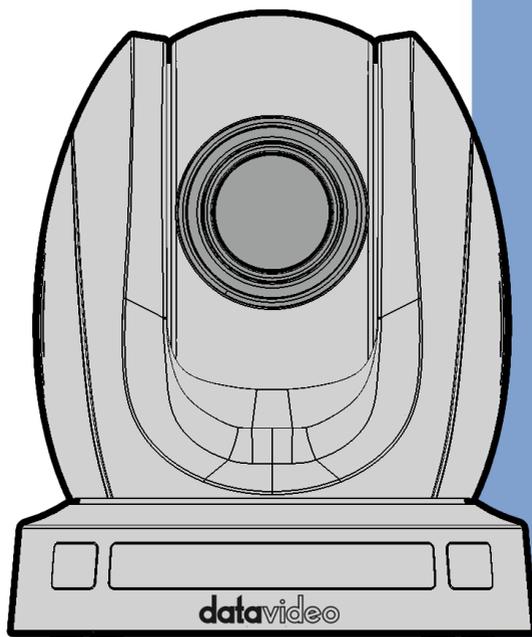


datavideo



HD PTZ CAMERA

PTC-140

Instruction Manual

www.datavideo.com

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Disclaimer of Product and Services

The information offered in this instruction manual is intended as a guide only. At all times, Datavideo Technologies will try to give correct, complete and suitable information. However, Datavideo Technologies cannot exclude that some information in this manual, from time to time, may not be correct or may be incomplete. This manual may contain typing errors, omissions or incorrect information. Datavideo Technologies always recommend that you double check the information in this document for accuracy before making any purchase decision or using the product. Datavideo Technologies is not responsible for any omissions or errors, or for any subsequent loss or damage caused by using the information contained within this manual. Further advice on the content of this manual or on the product can be obtained by contacting your local Datavideo Office or dealer.

FCC Compliance Statement

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Warnings and Precautions

1. Read all of these warnings and save them for later reference.
2. Follow all warnings and instructions marked on this unit.
3. Unplug this unit from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this unit in or near water.
5. Do not place this unit on an unstable cart, stand, or table. The unit may fall, causing serious damage.
6. Slots and openings on the cabinet top, back, and bottom are provided for ventilation. To ensure safe and reliable operation of this unit, and to protect it from overheating, do not block or cover these openings. Do not place this unit on a bed, sofa, rug, or similar surface, as the ventilation openings on the bottom of the cabinet will be blocked. This unit should never be placed near or over a heat register or radiator. This unit should not be placed in a built-in installation unless proper ventilation is provided.
7. This product should only be operated from the type of power source indicated on the marking label of the AC adapter. If you are not sure of the type of power available, consult your Datavideo dealer or your local power company.
8. Do not allow anything to rest on the power cord. Do not locate this unit where the power cord will be walked on, rolled over, or otherwise stressed.
9. If an extension cord must be used with this unit, make sure that the total of the ampere ratings on the products plugged into the extension cord do not exceed the extension cord's rating.
10. Make sure that the total amperes of all the units that are plugged into a single wall outlet do not exceed 15 amperes.
11. Never push objects of any kind into this unit through the cabinet ventilation slots, as they may touch dangerous voltage points or short out parts that could result in risk of fire or electric shock. Never spill liquid of any kind onto or into this unit.
12. Except as specifically explained elsewhere in this manual, do not attempt to service this product yourself. Opening or removing covers that are marked "Do Not Remove" may expose you to dangerous voltage points or

other risks, and will void your warranty. Refer all service issues to qualified service personnel.

13. Unplug this product from the wall outlet and refer to qualified service personnel under the following conditions:
 - a. When the power cord is damaged or frayed;
 - b. When liquid has spilled into the unit;
 - c. When the product has been exposed to rain or water;
 - d. When the product does not operate normally under normal operating conditions. Adjust only those controls that are covered by the operating instructions in this manual; improper adjustment of other controls may result in damage to the unit and may often require extensive work by a qualified technician to restore the unit to normal operation;
 - e. When the product has been dropped or the cabinet has been damaged;
 - f. When the product exhibits a distinct change in performance, indicating a need for service.

Warranty

Standard Warranty

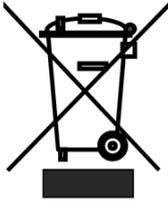
- Datavideo equipment are guaranteed against any manufacturing defects for one year from the date of purchase.
- The original purchase invoice or other documentary evidence should be supplied at the time of any request for repair under warranty.
- The product warranty period begins on the purchase date. If the purchase date is unknown, the product warranty period begins on the thirtieth day after shipment from a Datavideo office.
- All non-Datavideo manufactured products (product without Datavideo logo) have only one year warranty from the date of purchase.
- Damage caused by accident, misuse, unauthorized repairs, sand, grit or water is not covered under warranty.
- Viruses and malware infections on the computer systems are not covered under warranty.
- Any errors that are caused by unauthorized third-party software installations, which are not required by our computer systems, are not covered under warranty.
- All mail or transportation costs including insurance are at the expense of the owner.
- All other claims of any nature are not covered.
- All accessories including headphones, cables, and batteries are not covered under warranty.
- Warranty only valid in the country or region of purchase.
- Your statutory rights are not affected.

Three Year Warranty

- All Datavideo products purchased after July 1st, 2017 are qualified for a free two years extension to the standard warranty, providing the product is registered with Datavideo within 30 days of purchase.
- Certain parts with limited lifetime expectancy such as LCD panels, DVD drives, Hard Drive, Solid State Drive, SD Card, USB Thumb Drive, Lighting, Camera module, PCIe Card are covered for 1 year.
- The three-year warranty must be registered on Datavideo's official website or with your local Datavideo office or one of its authorized distributors within 30 days of purchase.



Disposal



For EU Customers only - WEEE Marking

This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.



CE Marking is the symbol as shown on the left of this page. The letters "CE" are the abbreviation of French phrase "Conformité Européene" which literally means "European Conformity". The term initially used was "EC Mark" and it was officially replaced by "CE Marking" in the Directive 93/68/EEC in 1993. "CE Marking" is now used in all EU official documents.

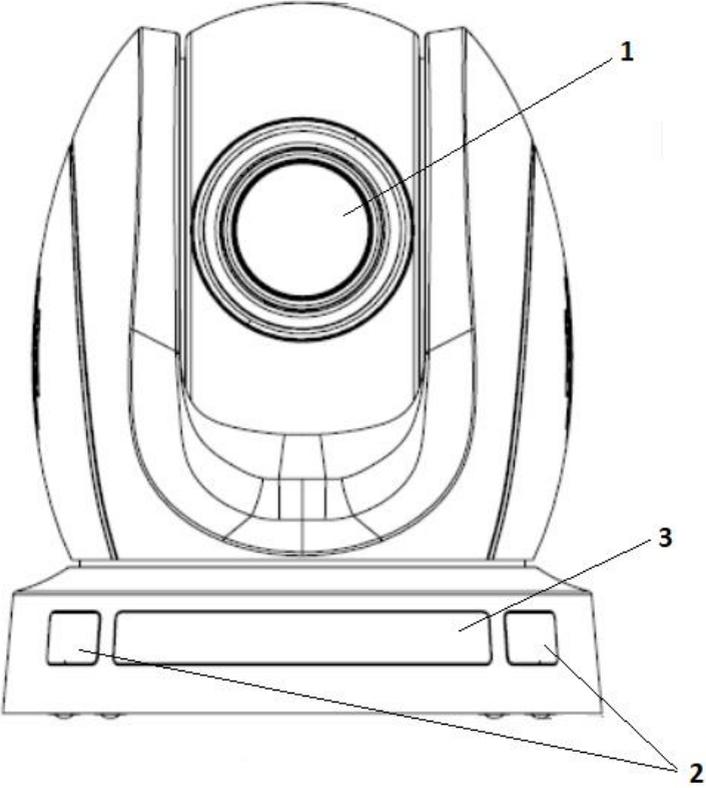
1. Product Overview

The PTC-140 is a low-cost SDI/HDMI PTZ camera, which features 20x optical zoom, 10 digital zoom. The PTC-140 is an IP camera as well, supports H.264/H.265 video compression and dual stream output.

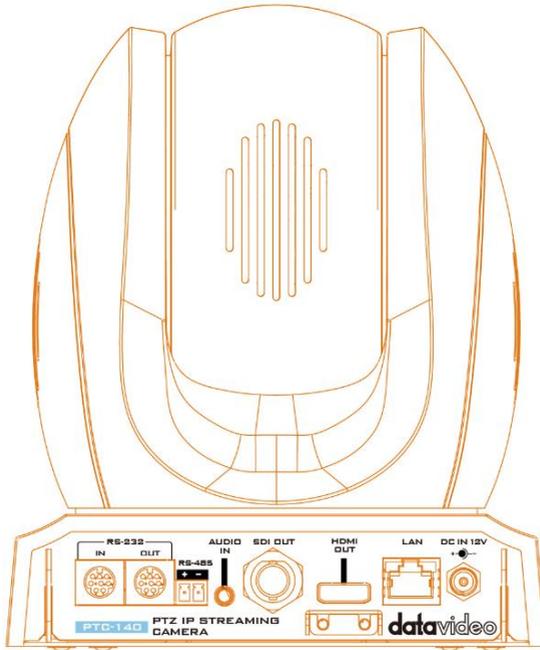
2. Features

- 1/2.8 inch CMOS sensor. Resolution is up to 1920x1080 with frame rate up to 60fps.
- Low Noise CMOS effectively ensures high SNR of camera video. Advanced 2D/3D noise reduction technology is also used to further reduce the noise, while ensuring image sharpness.
- Audio Input Interface
- Support 16000,32000,44100,48000 sampling frequency and AAC, MP3, PCM audio coding.
- Supports H.264/H.265 video compression; AAC, MP3 and PCM audio compression; Support compression of resolution up to 1920x1080 with frame up to 60fps and 2 channel 1920x1080p with 30fps compression.
- Supports multiple network protocols including RTSP, RTMP and it also supports easy to link streaming media server.

3. Location and Function of Parts

Front of Camera	
	
1	Lens Built-in 1/2.8" 2.07M Pixel CMOS HD color camera with white balance control, backlight compensation settings, automatic gain settings and etc.
2	Tally LED Tally lamp lights up when tally signal has been transmitted to the tally signal box.
3	Sensor for Remote Control Remote controller receiver

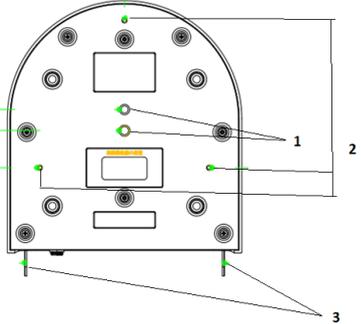
Rear of Camera



1	Power Input DC in socket connects the supplied 12V PSU. The connection can be secured by screwing the outer fastening ring of the DC In plug to the socket.
2	LAN Port This port is used to output the video of the camera. Please connect an Ethernet cable from this port to the LAN port of a PC or Notebook PC and then users can monitor the video of the camera from the web control interface. Moreover, it allows users to stream the video of the camera in various stream protocols.
3	HDMI OUT This interface is used to connect an HDMI cable to an external connected monitor for HDMI video output.
4	3G-SDI OUT This interface is used to connect an SDI cable to an external connected monitor for 3G-SDI video output.
5	Audio Input Interface It provides a 3.5mm audio input interface for audio signal input.

6	<p>2 pin RS-485 Input Port</p> <p>This connector can be used for connecting to the RS-485 interface. Please use the 2pin Euroblock that is packaged with the PTC-140. Users can use a USB to RS-485 adapter cable to connect the PTC-140 camera to a PC.</p> <p>Note: The 38400 Baud rate is not available for the RS-485 now.</p>
7	<p>8 pin RS-232 Input Port</p> <p>Please connect an RS-232 Mini-Din 8 pin to RS-232 DB9 adapter cable from the camera to an RS-232 interface remote controller or PC.</p>
8	<p>8 pin RS-232 Output Port</p> <p>Please connect an R-232 Mini-Din 8 pin cable from this pin to the RS-232 Mini-Din 8 pin RS-232 input port of another PTC-140 camera for cascade connection.</p>

Bottom of Camera

	1	<p>Tripod Screw Hole allows the user to mount the camera on the tripod.</p>
	2	<p>Screw Hole Screw holes for ceiling bracket mounting.</p>
	3	<p>Safety Rope Loop Safety rope loop for fixing the camera.</p>

4. Basic Setup

4.1 Power-On Initial Configuration

Step 1. Please connect the DC 12 V power adapter.

Step 2. The camera will start the initial configuration, the Red indicator light will be flashing.

Step 3. When the camera returns to the HOME position (middle position for P/T) and lens zoom-in/zoom-out is finished, the auto-testing is finished. The IR led will also stop flashing. If the preset 0 is set, camera will rotate to the 0 preset position after initial configuration.

4.2 Video Output

➤ Network Output

Step 1. Please connect the PTC-140 to the PC/Notebook PC by an Ethernet cable.

Step 2. Please open your web browser and then enter the default IP address of the camera into the address bar.

Note: The default Static IP address of the PTC-140 is 192.168.5.163

Step 3. The Login page of the web control user interface will pop-up. Please enter user name and password (the default user name and password is admin/admin).

Step 4. After entering into the preview window, the preview screen of the video will be shown.

➤ HDMI Video Output

Step 1. Please connect an HDMI cable from the HDMI OUT interface on the rear panel of the PTC-140 to an external connected monitor. When the self-test of the camera is finished, the video that is shot by the camera will be shown on the external connected monitor.

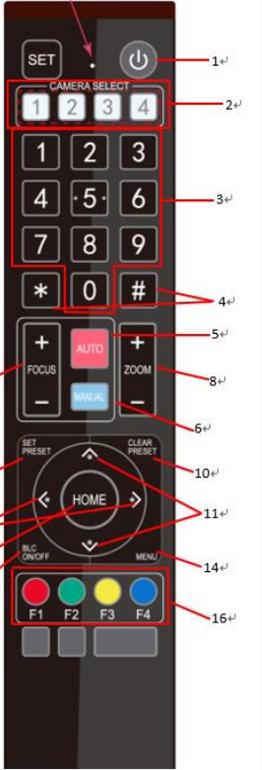
➤ 3G-SDI Video Output

Step 1. Please connect an SDI cable from the SDI OUT interface on the rear panel of the PTC-140 to an external connected monitor. When the self-test of

the camera is finished, the video that is shot by the camera will be shown on the external connected monitor.

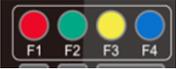
5. Remote Control and On-Screen Menu

5.1 Remote Control Functions

		<table border="1"> <thead> <tr> <th data-bbox="452 233 517 531">No</th> <th data-bbox="521 233 728 271">Item</th> <th data-bbox="732 233 1056 271">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="452 277 517 531">1</td> <td data-bbox="521 277 728 531"> Standby button  </td> <td data-bbox="732 277 1056 531"> After pressing the Standby button for 3 seconds, the camera will do the self-test again and then go back to the Home position. (Note: If power-on mode is turned on and Preset 0 is set, and there is no operation within 12s, it will automatically point to the specified preset position). </td> </tr> <tr> <td data-bbox="452 537 517 679">2</td> <td data-bbox="521 537 728 679"> Camera Address Selection  </td> <td data-bbox="732 537 1056 679"> These four keys are used to determine which camera will be controlled. Press the number to determine which camera will be controlled. </td> </tr> <tr> <td data-bbox="452 686 517 1412">3</td> <td data-bbox="521 686 728 1412"> Number Keys  </td> <td data-bbox="732 686 1056 1412"> The 0-9 number keys are used to set or to call presets. To Set Preset: Please press the 0-9 number keys at first. After that, please press the SET PRESET key and then the corresponding preset is set successfully. The remote controller can set for up to 10 presets. To Call Preset: Press the 0-9 number keys directly and then the preset will be executed automatically. Note: If there is no preset for a specific number key, the call preset function will be ineffective after pressing that number key. To Clear Preset: Press the CLEAR PRESET key at first and then please press one of the 0-9 number key and then the corresponding preset will be cancelled. </td> </tr> </tbody> </table>	No	Item	Description	1	Standby button 	After pressing the Standby button for 3 seconds , the camera will do the self-test again and then go back to the Home position. (Note: If power-on mode is turned on and Preset 0 is set, and there is no operation within 12s, it will automatically point to the specified preset position).	2	Camera Address Selection 	These four keys are used to determine which camera will be controlled . Press the number to determine which camera will be controlled.	3	Number Keys 	The 0-9 number keys are used to set or to call presets . To Set Preset: Please press the 0-9 number keys at first. After that, please press the SET PRESET key and then the corresponding preset is set successfully. The remote controller can set for up to 10 presets . To Call Preset: Press the 0-9 number keys directly and then the preset will be executed automatically. Note: If there is no preset for a specific number key, the call preset function will be ineffective after pressing that number key. To Clear Preset: Press the CLEAR PRESET key at first and then please press one of the 0-9 number key and then the corresponding preset will be cancelled.	Description
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4	<p style="text-align: center;">* , # Keys</p> 	<p>The * and # keys are used for key combination. The PTC-140 provides 17 key combinations for users which are shown as follows.</p> <ol style="list-style-type: none"> (1) 【#】 + 【#】 + 【#】 : Clear all presets. (2) 【*】 + 【#】 + 【6】 : Restore factory defaults (3) 【*】 + 【#】 + 【9】 : Switch images between normal & Up-side down position. (4) 【*】 + 【#】 +AUTO: Enter into the aging mode. (5) 【*】 + 【#】 + 【3】 : Set OSD MENU language to Chinese. (6) 【*】 + 【#】 + 【4】 : Set OSD MENU language to English. (7) 【*】 + 【#】 + MANUAL: Restore the default user name, password, and IP address. (8) 【#】 + 【#】 + 【0】 : Switch the video format to 1080P60. (9) 【#】 + 【#】 + 【1】 : Switch the video format to 1080P50 (10) 【#】 + 【#】 + 【2】 : Switch the video format to 1080I60 (11) 【#】 + 【#】 + 【3】 : Switch the video format to 1080I50 (12) 【#】 + 【#】 + 【4】 : Switch the video format to 720P60 (13) 【#】 + 【#】 + 【5】 : Switch the video format to 720P50 (14) 【#】 + 【#】 + 【6】 : Switch the video format to 1080P30 (15) 【#】 + 【#】 + 【7】 : Switch the video format to 1080P25
5	<p style="text-align: center;">AUTO Focus</p> 	<p>AUTO Focus</p> <p>This key is used to enter the Auto Focus mode. Once this key is pressed, the PTC-140 will enter into the Auto Focus mode.</p>
6	<p style="text-align: center;">Manual Focus</p> 	<p>Manual Focus</p> <p>This button helps users to set the camera in Manual Focus mode. Once this key is pressed, it allows users to adjust the Focus In/Focus Out and Zoom In/Zoom Out manually by pressing the Focus+/Focus- and Zoom+/Zoom- keys.</p>
7	<p style="text-align: center;">Focus Near/Focus Far</p> 	<p>Adjust Focus (Near)/Focus (Far)</p> <p>Once the Manual key is pressed, users can adjust the Focus (Near)/Focus (Far) of the camera by pressing this key.</p> <p>Focus (Near): Press “ 【Focus+】 ” key (Valid only in manual focus mode).</p> <p>Focus (Far): Press “ 【Focus-】 ”key (Valid only in manual focus mode).</p> <p>Press and hold the key, the camera keeps focusing and the camera stops as soon as the key is released.</p>
8	<p style="text-align: center;">Zoom In/Zoom Out</p>	<p>Zoom In/ Zoom Out</p> <p>Once the Manual key is pressed, users can adjust the Zoom In/Zoom Out of the camera by pressing this key.</p> <p>Press and hold the key, the camera will keep zooming in or</p>

		zooming out and stops as soon as the key is released.
9	<p>SET PRESET</p> 	<p>SET PRESET This key is used for users to set presets. For Setting Preset Please press the SET PRESET key plus the 0-9 number keys and then the preset is set successfully.</p>
10	<p>CLEAR PRESET</p> 	<p>CLEAR PRESET This key is used for users to clear preset. For Clearing Preset Please press the CLEAR PRESET key plus the 0-9 number keys and then the preset is cleared successfully.</p>
11, 12, 13	<p>Direction Arrows</p> 	<p>11 & 12. PTZ Direction Control Keys Press the     keys to move the camera head to up/down/left/right sides.</p> <p>13. Home Key Users can press the Home Key to change the camera head of the PTC-140 back to the center position. Users can also press the Home key to enter next level of the OSD MENU once the OSD MENU is shown.</p>
14	<p>MENU</p> 	<p>Enter or Exit Camera Menu Option or Return to previous level of the OSD MENU.</p>
15	<p>BLC ON/OFF</p> 	<p>BLC ON/OFF This key allows users to turn ON/OFF the backlight compensation of the camera. Press this key to switch between backlight compensation ON/OFF.</p>

16	<p style="text-align: center;">Camera Remote Controller Address Setting Keys</p> 	<p>Camera Remote Controller Address Setting</p> <p>The F1 to F4 keys are used for users to set the camera remote controller addresses.</p> <p>Set the camera address as No.1: Please press 【*】 + 【#】 + 【F1】 from the remote controller.</p> <p>Set the camera address as No.2: Please press 【*】 + 【#】 + 【F2】 from the remote controller.</p> <p>Set the camera address as No.3: Please press 【*】 + 【#】 + 【F3】 from the remote controller.</p> <p>Set the camera address as No.4: Please press 【*】 + 【#】 + 【F4】 from the remote controller.</p>
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5.2 On-Screen Menu (Control by Remote Controller)

On-Screen Menu allows the user to change various camera settings such as shooting conditions and the system setup. The PTC-140 provides several options in the first layer OSD MENU including Language, (Setup), (Camera), (P/T/Z), (Video Format), (Version) and (Restore Default). Press **[MENU]** on the **remote control** to enter the on-screen menu as shown below.

On-Screen MENU	
1:	Language
2:	Setup
3:	Camera
4:	P/T/Z
5:	Video Format
6:	Version
7:	Restore Default
8:	Escape
[↑↓]	Select
[← →]	Change Value
[Menu]	Back
[Home]	OK

The following table lists all the sub-options of the options on the main menu.

Main Options							
	Language	Setup	Camera	P/T/Z	Video Format	Version	Restore Default
Sub-Options	1. English	1. Protocol	1. Exposure	1. Speed by Zoom	1. 1080P60	1. MCU Version	Restore Default
	2. Simplified Chinese	2. VISCA Address	2. Color	2. Zoom Speed	2. 1080P50	2. Camera Version	
		3. VISCA Address Fix	3. Image	3. Acc Curve	3. 1080I60	3. AF Version	
		4. PELCO-P Address	4. Focus	4. Preset Speed	4. 1080I50		
		5. PELCO-D Address	5. Noise Reduction	5. Joystic Pan Dir	5. 1080P30		
		6. Baudrate	6. Style	6. Joystic Tilt Dir	6. 1080P25		
					7. 720P60		
					8. 720P50		
					9. 1080P59.94		
					10. 1080I59.94		
					11. 1080P29.97		
					12. 720P59.94		

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Details of all options in the on-screen menu are listed in the table below.

First Level Main Options	Second Level Sub-Options	Third Level Parameters	Fourth Level Parameters	Sub-Option Descriptions
1. Language (English/Simplified Chinese)				
2. Setup	Protocol	1. Auto		
		2. VISCA		
		3. PELCCO-D		
		4. PELCCO-P		
	VISCCA Address	1-7		
	VISCA Address Fix	ON/OFF		
	PELCO-P Address	1-255		
	PELCO-D Address	1-255		
	Baudrate	2400		
		4800		
9600				
38400				
115200				
3. Camera	Exposure	Mode	Auto	
			Manual	
			SAE	
			AAE	
			Bright	
	EV	ON		
		OFF		
	EV Level	0		
		1		
		2		
		3		
		4		
		5		
		6		
		7		
		-7		
		-6		
		-5		
		-4		
		-3		
-2				
-1				
BLC	ON			

			OFF
			OFF
	Flicker		50Hz
			60Hz
	Gain Limit		0~15
			Closed
		DRC	1
			2
			3
			4
			5
			6
			7
			8
Color			Auto
			3000K
			3500K
			4000K
			4500K
			5000K
			5500K
			6000K
			6500K
			7000K
			Manual
			Onepush
			0
			1
			2
			3
			4
			5
			6
			7
			8
			9
			10
			-10
			-9
			-8
			-7
			-6
			-5
			-4
			-3
			-2
			-1
		0	
		1	
		2	
		3	
		4	
		5	
		6	
		7	
		8	
		9	

		10
		-10
		-9
		-8
		-7
		-6
		-5
		-4
		-3
		-2
		-1
	Saturation	60%
		70%
		80%
		90%
		100%
		110%
		120%
		130%
		140%
		150%
		160%
		170%
	180%	
	190%	
	200%	
	Hue	0
		1
		2
		3
		4
		5
		6
		7
		8
		9
		10
		11
		12
		13
	14	
	AWB Sensitivity	High
		Low
		Middle
Image	Brightness	0
		1
		2
		3
		4
		5
		6
		7
		8
		9
		10
		11
12		

		13
		14
	Contrast	0
		1
		2
		3
		4
		5
		6
		7
		8
		9
		10
		11
		12
		13
	14	
	Sharpness	0
		1
		2
		3
		4
		5
		6
		7
		8
		9
		10
		11
		12
		13
		14
	15	
	Flip-H	ON
		OFF
	Flip-V	ON
		OFF
	B & W Mode	Color
		Black & White
	Gamma	Default
		0.45
		0.50
		0.55
		0.63
	DCI	Closed
		1
		2
		3
		4
		5
		6
		7
		8
Focus	Focus Mode	Auto
		Manual
	AF-Zone	Onepush
		Top

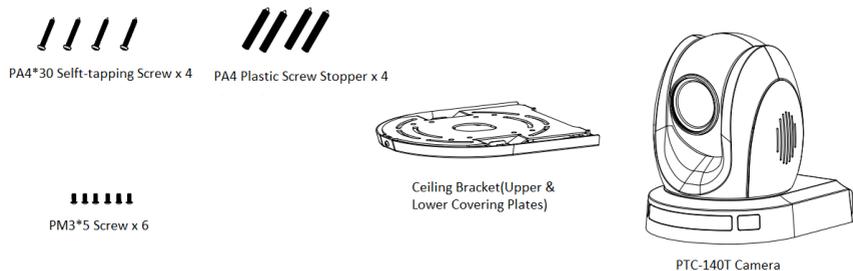
				Center	
				Bottom	
		AF-Sensitivity			All
					High
	Noise Reduction	NR-2D			Low
					Middle
					Auto
					OFF
					1
					2
					3
		NR-3D			4
					5
					6
					7
					8
					OFF
					1
			Dynamic Hot Pixel		
				3	
		4			
		5			
		OFF			
Style		Default			
	Normal				
	Clarity				
	Bright				
	Soft				
4. P/T/Z	Zoom by Speed	ON			
		OFF			
	Zoom Speed	1			
		2			
		3			
		4			
		5			
		6			
		7			
	Acc Curve	8			
		Standard			
		Slow			
	Preset Speed	Fast			
		Fast			
		Slow			
	Joystick Pan Dir	Middle			
		Positive			
	Joystick Tilt Dir	Negative			
		Positive			
		Positive			
Negative					
5. Video	1080P60				

Format	1080P50		
	1080I60		
	1080I50		
	1080P30		
	1080P25		
	720P60		
	720P50		
	1080P59.94		
	1080I59.94		
	1080P29.97		
	720P59.94		
6. Version	MCU Version		
	Camera Version		
	AF version		
7. Restore Default	Restore Default (Yes/No)		

6. Installation Instructions

Note: The material for the ceiling mounting and vertical mounting of the bracket is limited to the formwork or concrete and cannot be installed on the plasterboard.

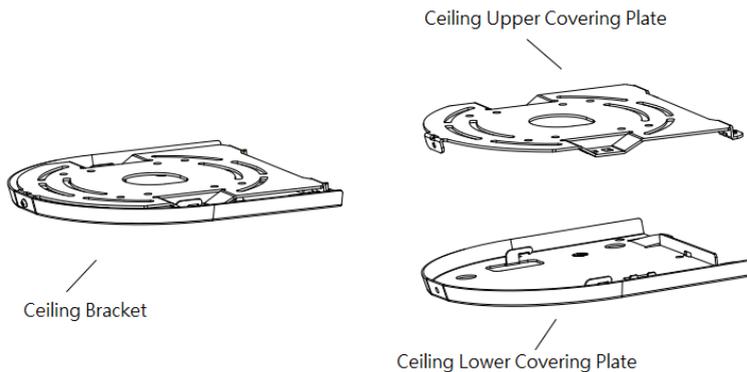
For the ceiling mount installation of the PTC-140, PA4*30 self-tapping screw x 4, PA4 plastic screw stopper x 4, PM3x5 screw x 6, ceiling upper covering plate x 1, ceiling lower covering plate x 1 and PTC-140 camera x 1 are needed.



Step 1. The Ceiling Bracket, Ceiling Upper Cover Plate and Ceiling Lower Covering Plate

- The ceiling bracket is shown as following and it can be separated into two parts including “ceiling upper covering plate” and “ceiling lower covering plate”.

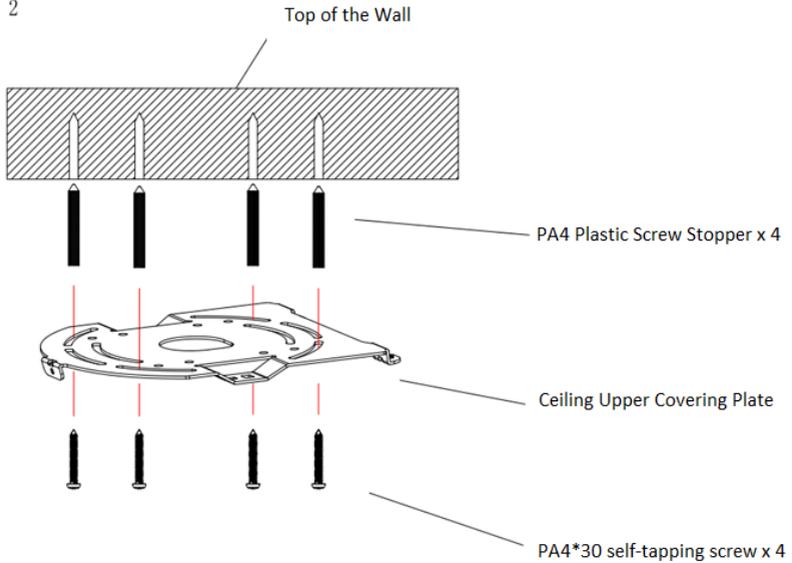
STEP 1



Step 2. Mount the Ceiling Upper Covering Plate to the Ceiling

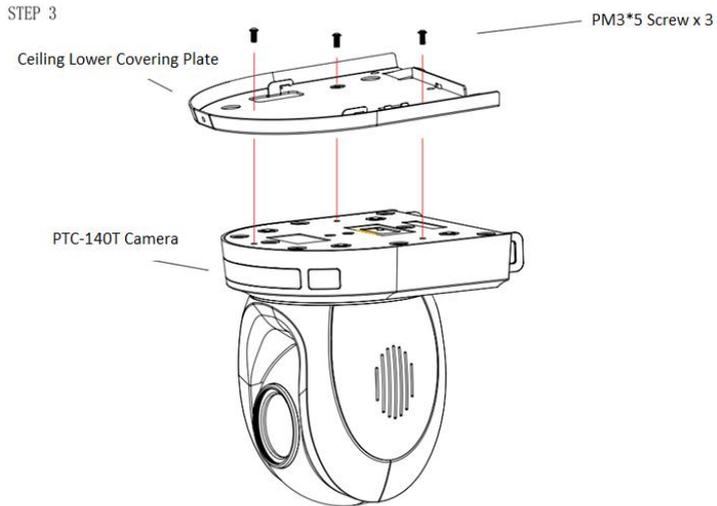
- At first, Please screw 4 PA4 plastic screw stoppers into the ceiling as shown as following diagram.
- Please connect the ceiling upper covering plate to the screw stoppers by using 4 PA4*30 self-tapping screws.

STEP 2



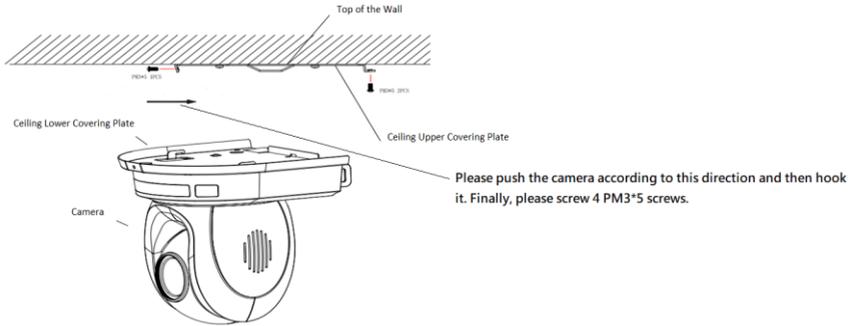
Step 3. Mount the PTC-140 Camera to the Ceiling Lower Covering Plate

- Please screw the PTC-140 camera to the ceiling lower covering plate by using 3 PM3*5 screws as shown as following diagram.



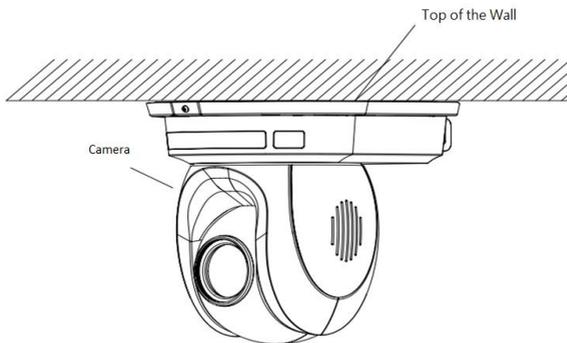
Step 4. Mount the PTC-140 Camera with the Ceiling Lower Covering Plate to the Ceiling Upper Covering Plate on the Wall

- Please push the PTC-140 camera with the ceiling lower covering plate according to the direction of following diagram and then please hook the ceiling lower covering plate to the ceiling upper covering plate. Finally, please screw 3 PM3*5 screws to fix the PTC-140 camera to the ceiling upper covering plate.



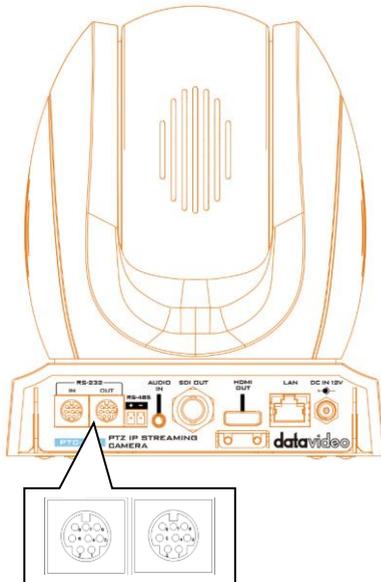
- **Step 5. The installation is Finished**

FINISH



7. Direct Connection to Camera

To use the PTZ Camera Control Unit to directly control the PTC-140 camera, connect the Mini-Din 8 pin RS-232 port on the camera's rear panel to the DB9 pin RS-232 port on the control keyboard or PC by a Mini-Din 8 pin to DB9 pin adapter cable.

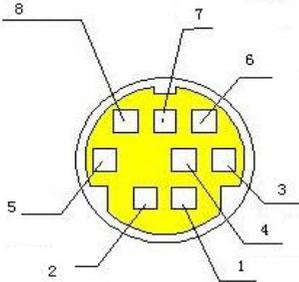


Connect PTC-140 to Control Panel or PC

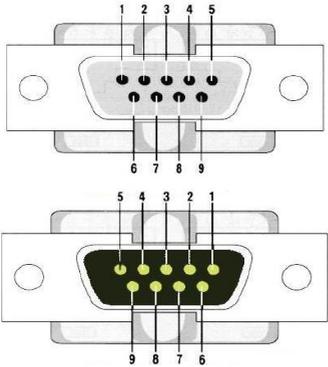
PTC-140	Remote Control Panel/PC's Windows DB-9 RS-232
1.DTR	1.DCD
2.DSR	2.RXD
3.TXD	3.TXD
4.GND	4.DTR
5.RXD	5.GND
6.GND	6.DSR
7.IR OUT	7.RTS
8.NC	8.CTS
	9.RI



7.1 RS-232 Mini-Din 8 Pin Definition

	NO.	Port	Definition
	1	DTR	Data Terminal Ready
	2	DSR	Data Set Ready
	3	TXD	Transmit Data
	4	GND	System Ground
	5	RXD	Receive Data
	6	GND	System Ground
	7	IR OUT	IR Commander Signal
	8	NC	No Connection

7.2 RS232 (DB9) Pin Definition

	NO.	Port	Definition
	1	DCD	Data Carrier Detect
	2	RXD	Receive Data
	3	TXD	Transmit Data
	4	DTR	Data Terminal Ready
	5	GND	System Ground
	6	DSR	Data Set Ready
	7	RTS	Request to Send
	8	CTS	Clear to Send
	9	RI	Ring Indicator

8. PTC-140's Web-Based User Interface

8.1 How to Connect the PTC-140 Camera to the PC

Users can connect the PTC-140 camera to the PC/Laptop in Static IP mode and DHCP mode. The default static IP address of the PTC-140 is **192.168.5.163**. Please see following steps for connecting the PTC-140 camera to the network for using the web-based user interface of the PTC-140.

8.1.1 Connect the Camera to the PC in DHCP Mode

Please follow following steps for connecting the PTC-140 camera to the PC in DHCP Mode.

Step 1. Please connect a 12V power adapter to the DC IN 12V interface on the rear panel of the PTC-140.

Step 2. Please use an RJ-45 Ethernet cable to connect the WAN port of a router to an RJ-45 port of the public network.

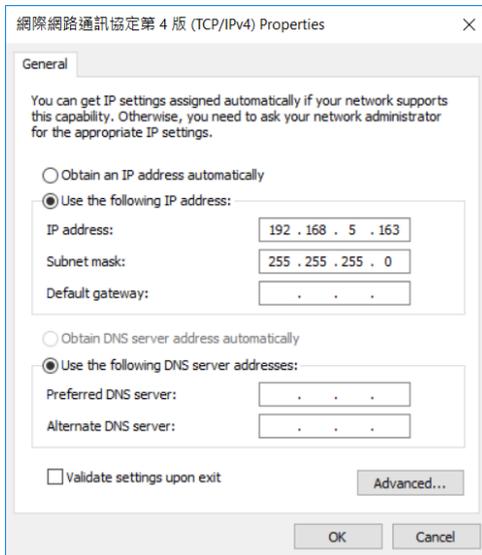
Step 3. Please connect an RJ-45 Ethernet cable from the LAN interface on the rear panel of the PTC-140 to the RJ-45 Ethernet port of a router.

Step 4. Please use an HDMI cable to connect from the HDMI OUT interface on the rear panel of the PTC-140 to the HDMI IN interface of an external connected monitor.

Step 5. You can see the IP address and the IR address of the PTC-140-T will be shown on the top-left side of the screen.

Step 6. Please connect an RJ-45 Ethernet cable from the RJ-45 port of your PC to the LAN port of the router.

Step 7. The default IP mode for the PTC-140 is Static IP mode. So please set your PC in Static IP mode in advance. Since the Static IP address of the PTC-140 is **192.168.5.163**, the IP address for your PC must be set in **192.168.5.x**



Step 8. After that, the PTC-140 and your PC are in the Static IP mode. Please open the PTC-140 web UI by using the IP address 192.168.5.163.

Step 9. Please enter the default User Name and Password and then click the Login button.

The Default User Name: admin

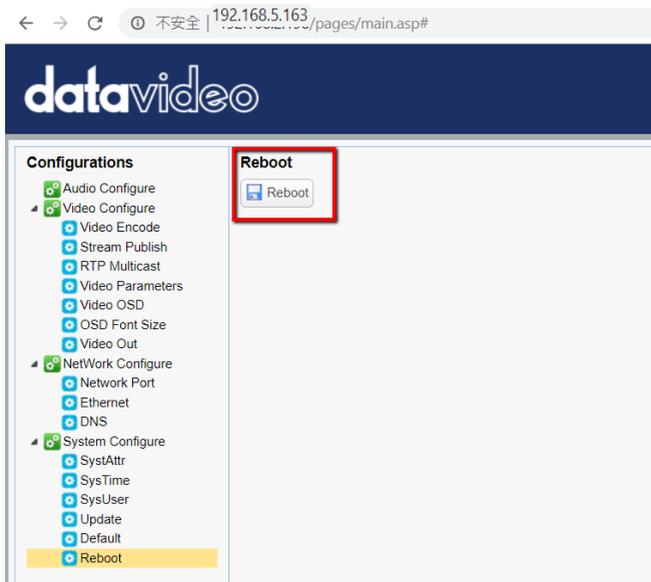
The Default Password: admin



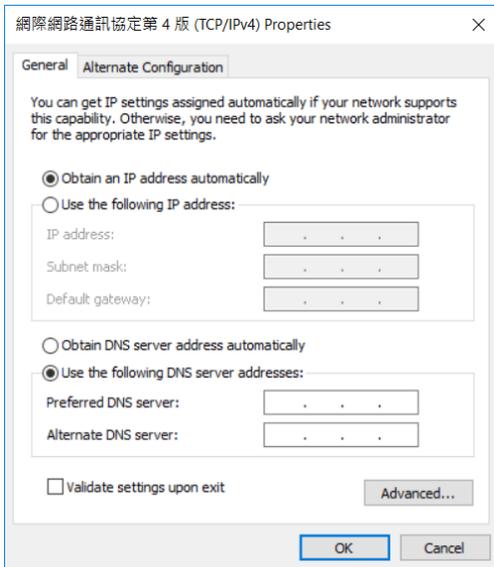
Step 10. Please click the “Configuration” option of the web UI and then click the “Ethernet” option. After that, please check the “DHCP” checkbox and then click the “Save” button.



Step 11. Please click the “Reboot” button from the Reboot option to reboot the camera.



Step 12. Please set the network setting of your PC in DHCP mode.



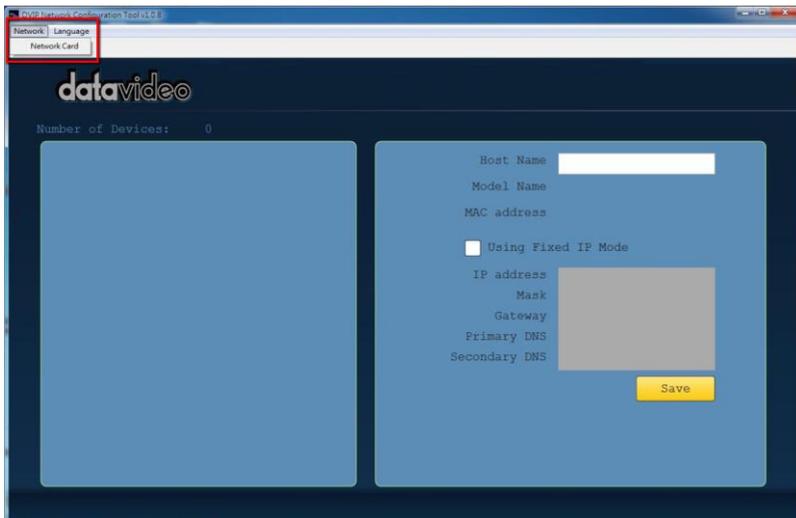
Step 13. You can login to the PTC-140 web UI in DHCP mode.

8.1.2 How to Find the DHCP IP Address of the PTC-140 Camera

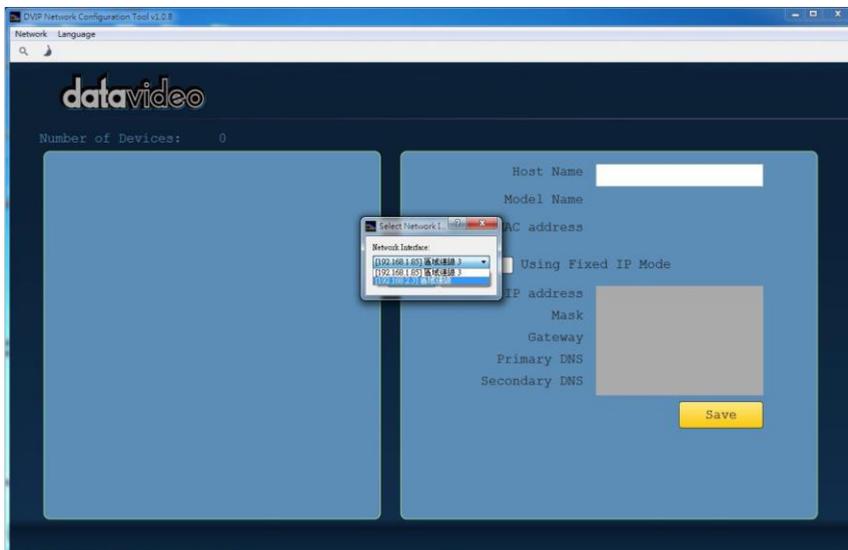
If the PTC-140 camera is connected in DHCP mode, users can find the DHCP IP Address of the PTC-140 by following steps.

Step 1. Please download the DVIP Network Configuration Tool from the Datavideo website. <https://www.datavideo.com/product/PTC-140T> and then install the software in your PC.

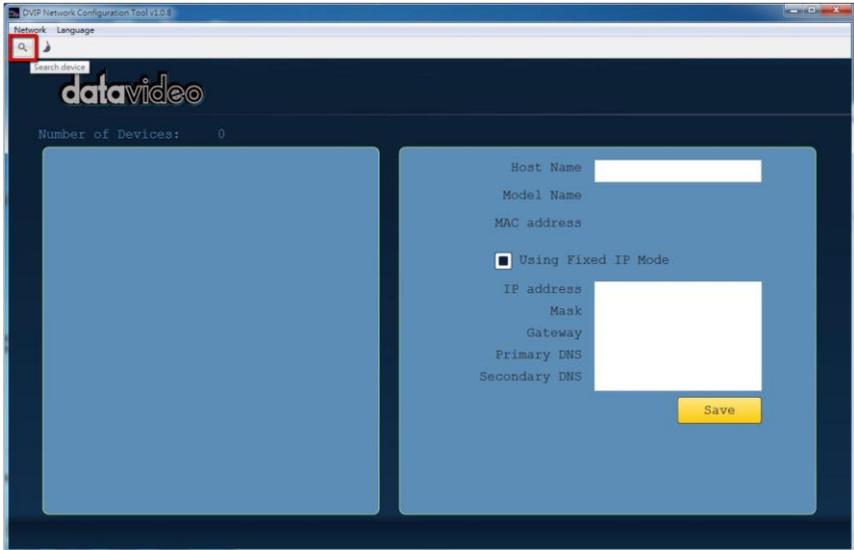
Step 2. Please open the DVIP Network Configuration Tool and then please click the “Network” option from the menu bar. After that, please click the “Network Card”.



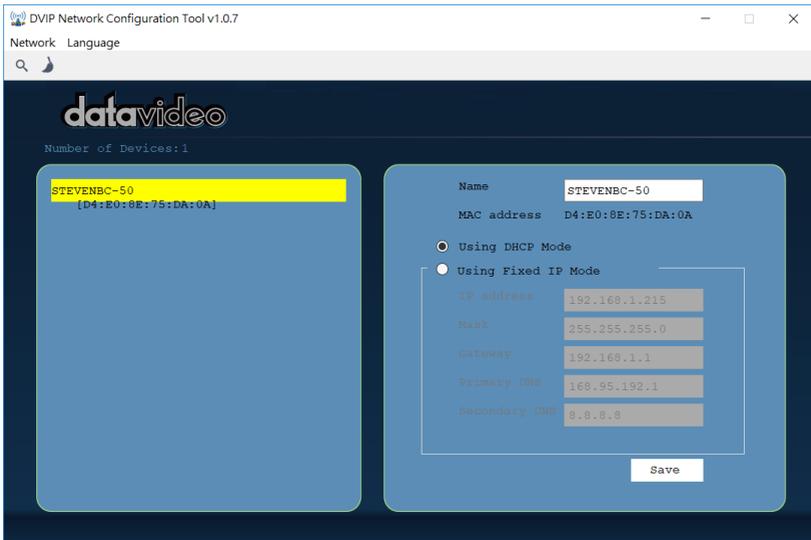
Step 3. Please select your Network interface from the drop-down menu.



Step 4. Please click the “Search Device” button.



Step 5. The DHCP IP address of the connected device will be shown as following diagram and users can know the DHCP IP address.



8.1.3 Connect the Camera to the PC in Static IP Mode

Please follow following steps for connecting the PTC-140 camera to the PC in Static IP Mode.

Step 1. Please connect a 12V power adapter to the DC IN 12V interface on the rear panel of the PTC-140.

Step 2. Please use an RJ-45 Ethernet cable to connect the WAN port of a router to an RJ-45 port of the public network.

Step 3. Please connect an RJ-45 Ethernet cable from the LAN interface on the rear panel of the PTC-140 to the RJ-45 Ethernet port of a router.

Step 4. Please use an HDMI cable to connect from the HDMI OUT port on the rear panel of the PTC-140 to the HDMI IN port of an external connected monitor.

Step 5. You can see that the IP address and the IR address of the PTC-140-T will be shown on the top-left side of the screen.

Step 6. Please connect an RJ-45 Ethernet cable from the RJ-45 port of your PC to the LAN port of the router.

Step 7. The default IP mode for the PTC-140 is Static IP mode. So please set your PC in Static IP mode. Since the Static IP address of the PTC-140 is **192.168.5.163**, the IP address for your PC must be set in **192.168.5.x**



Step 8. After that, the PTC-140 and your PC are in the Static IP mode. Please open the PTC-140 web UI by using the IP address 192.168.5.163.

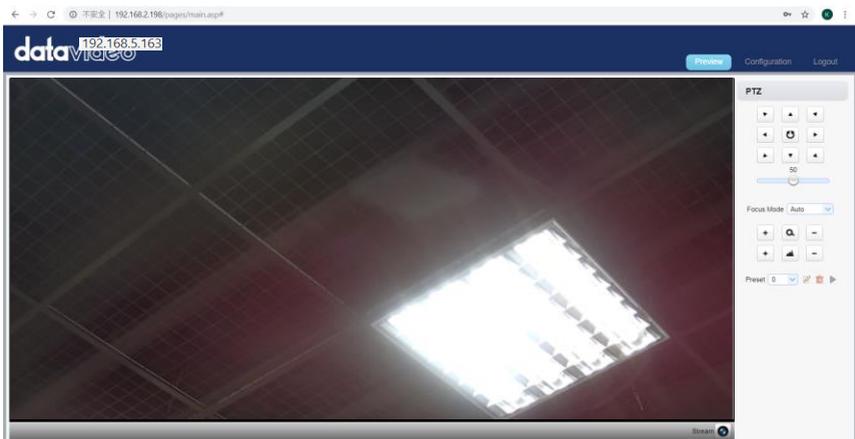
Step 9. Please enter the default User Name and Password and then click the Login button.

The Default User Name: admin

The Default Password: admin



Step 10. After logging into the PTC-140 web UI, the main interface of the web UI will be shown.



Note: If the real-time scene that is shot by the camera can not be previewed by users after logging in the web UI, please press the button “Get ADOBE FLASH PLAYER” and then the preview can be shown successfully.



8.2 Introduction of the PTC-140 Web User Interface

The web based user interface of the PTC-140 provides users three main options for setting and controlling the PTC-140 through the web UI. The web user interface of the PTC-140 provides users three main options including **Preview, Configuration and Logout.**

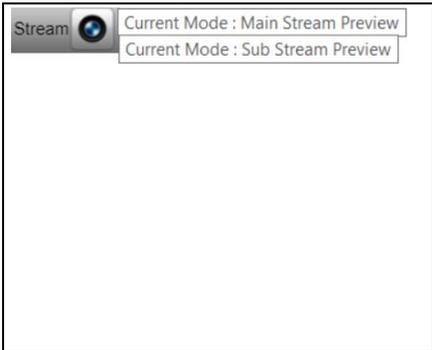
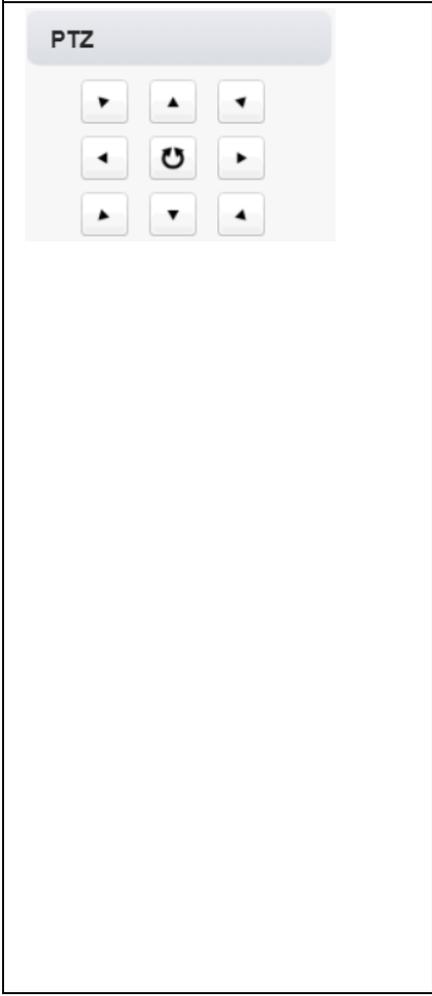
8.2.1 Preview

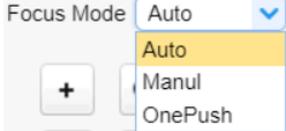
The Preview option allows users to see the real-time preview for the scene that is shot by the PTC-140 camera. Moreover, it provides various PTZ control buttons for users to control the pan and tilt directions including **Home, Up Left, Up, Up Right, Left, Right, Down Left, Down** and **Down Right.**

Furthermore, it also allows users to adjust the PTZ speed of the camera. For the Focus modes, the Preview page allows users to select three Focus modes including Auto, Manual and One Push. It also allows users to adjust Zoom-in/Zoom OUT and Focus In/Focus Out by using buttons. Moreover, it allows users to set up to 255 presets for future needs.

Please see follow paragraphs for the details of the Preview page.

	<p>Preview Window</p> <p>This Preview windows allows users to see the real-time preview of the scene that is shot by the PTC-140 camera. Click the Preview Window once to enter the Full Screen mode and then click it once to back to original Preview Window.</p>
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	<h3>Switch Button for Main Stream Preview/Sub Stream Preview</h3> <p>This button allows users to switch between the Main Stream Preview and Sub Stream Preview. The parameters for main stream and sub stream can be set from the Video Encode option in the Configuration option.</p>
	<h3>Pan & Tilt Directions Control Buttons</h3> <p>Users can control directions of pan and tilt of the PTC-140 camera lens by using those buttons.</p> <ul style="list-style-type: none">  :Up Left Button  :Up Button  :Up Right Button  : Left Button  : Home Button  : Right Button  : Down Left Button  : Down Button  : Down Right Button

 <p>A horizontal slider control with a blue track and a white knob. The number '50' is displayed above the knob.</p>	<p>PTZ Speed Control Slider</p> <p>This slider allows users to control the pan and tilt speed of the PTC-140 camera lens. The range is from 0 to 100.</p>
 <p>A dropdown menu labeled 'Focus Mode' with a blue arrow. The menu is open, showing three options: 'Auto' (highlighted in yellow), 'Manul', and 'OnePush'. There are '+' and '-' buttons on either side of the menu.</p>	<p>Focus Mode</p> <p>This drop-down menu allows users to select three Focus Modes including Auto, Manual and One Push.</p>
 <p>Three buttons: a '+' button, a magnifying glass icon, and a '-' button.</p>	<p>Zoom In/Zoom Out Control</p> <p>Please press the Zoom In button  for zooming in the camera lens.</p> <p>Please press the Zoom Out button  for zooming out the camera lens.</p>
 <p>Three buttons: a '+' button, a mountain landscape icon, and a '-' button.</p>	<p>Focus In/Focus Out Control</p> <p>Please press the Focus In button  for focusing in the camera lens.</p> <p>Please press the Focus Out button  for focusing out the camera lens.</p> <p>Note: The Focus In/Focus Out buttons can be used only in Manual Focus Mode.</p>

	<p>Preset</p> <p>This Preset drop-down menu allows users to select their desired preset numbers. The range is from 0~254.</p>
	<p>Set Button</p> <p>This Set button allows users to set the preset by their desired Preset positions.</p>
	<p>Clear Button</p> <p>This Clear button allows users to delete the pre-saved Preset positions.</p>
	<p>Run Button</p> <p>Users can select the number of the pre-saved preset and then click the Run button to recall the preset.</p>

8.2.1.1 The Operations of Zoom and Focus Buttons in Different Focus Modes

There are three Focus Modes for the PTC-140 camera. For the Focus and Zoom buttons operations in different Focus Modes, please see following table.

	Focus Mode- Auto	Focus Mode- Manual	Focus Mode- One Push
Zoom In/ Zoom Out	Can be adjusted by users.	Can be adjusted by users.	Can be adjusted by users.
Focus In/ Focus Out	Can NOT be adjusted by users.	Can be adjusted by users.	Can NOT be adjusted by users.

8.2.1.2 How to Set the Preset Position

Please follow following steps for setting your desired preset.

Step 1. Please adjust the pan and tilt of the PTC-140 camera to your desired position.

Step 2. Please make sure that other parameters including Zoom, Focus and those parameters in the Configuration option are set in advance.

Step 3. Please select your desired preset number from the Preset drop-down menu.



Step 4. After the desired preset number is selected, please click the Set button  and then the Preset is set successfully.

8.2.1.3 How to Recall the Pre-saved Preset

Please follow following steps for recalling the pre-saved Preset.

Step 1. Please select the Preset number that the preset position is pre-saved from the Preset drop-down menu.

Step 2. After the Preset number is selected, please click the Run button  and then the pre-saved preset position of the camera lens will be recalled.

8.2.1.4 How to Change the PTZ Speed of the Camera

The default number of the PTZ speed control slider is 50 and the range for adjusting is from 0 to 100. Please follow following steps for adjusting the PTZ speed of the PTC-140 camera.

Step 1. Please slide the PTZ speed control slider  to the left side to reduce the pan and tile speed of the camera lens according to the number. The lower the number, the slower the pan and tilt speeds of the camera. Moreover, the higher the number, the faster the pan and tilt speeds of the camera.

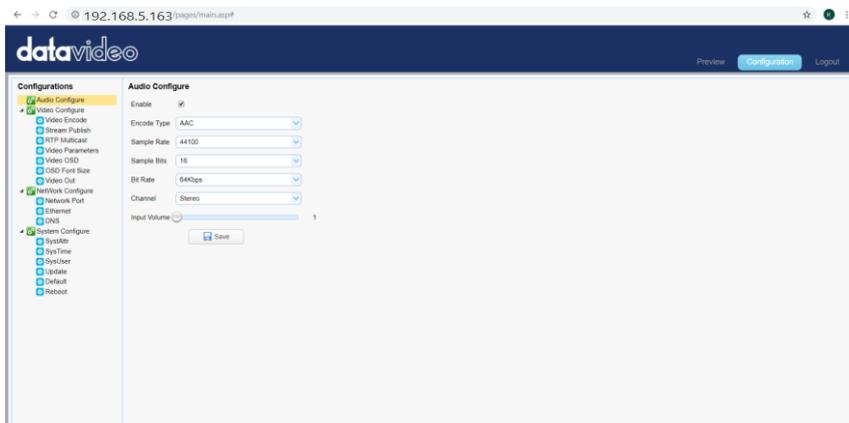
8.2.2 Configuration

The Configuration option provides users to set many parameters of the PTC-140 camera including Audio Configuration, Video Configuration, Network

Configuration and System Configuration. There are several parameters for each configuration, please see following paragraphs for more details.

8.2.2.1 Audio Configure

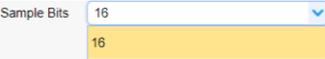
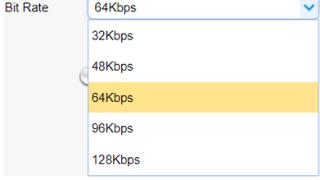
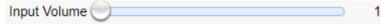
The Audio Configure option allows users to set audio related parameters for the input audio source. The main interface of the Audio Configure option is



shown as following diagram.

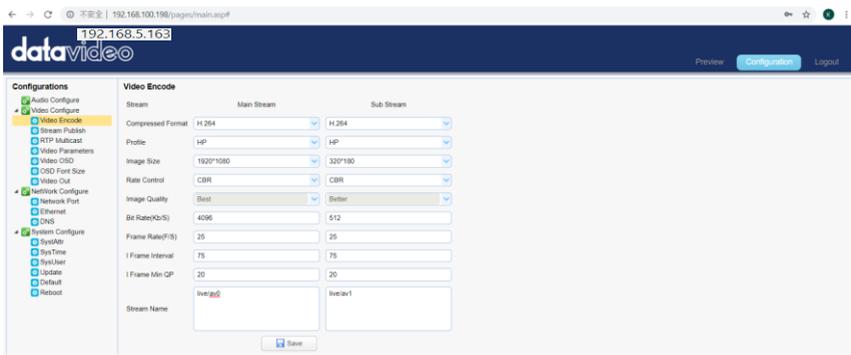
Please see following table for the introduction of Audio Configure.

<p>Enable <input checked="" type="checkbox"/></p>	<p>Enable This Enable check box allows users to enable the settings for the parameters in the Audio Configure option.</p>
<p>Encode Type AAC MP3 AAC G.711A</p>	<p>Encode Type This drop-down menu allows users to select their desired Encode type for the input audio source. There are three Encode type for users to select including MP3, AAC and G.711A.</p>
<p>Sample Rate 44100 16000 32000 44100 48000</p>	<p>Sample Rate This drop-down menu allows users to select their desired sample rate for the input audio source. Higher sample rate can get the audio that is</p>

	<p>closer to the original audio source.</p> <p>Sample Bits This drop-down menu allows users to select the Sample Bits for the input audio source. The default sample Bits is 16.</p>
	<p>Bit Rate This drop-down menu provides users several Bit Rate from 32kbps to 128kbps for users to select their desired bit rate for the input audio source.</p>
	<p>Channel This drop-down menu allows users to select the Channel of the input audio source to be Mono.</p>
	<p>Input Volume This slider allows users to adjust the volume of the input audio source. The range is from 1 to 10. The higher the value, the louder the volume of the input audio source.</p>
	<p>Save Button Please press this Save button to save the “Audio Configure” related parameters that are set by users.</p>

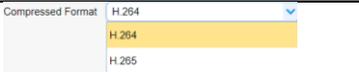
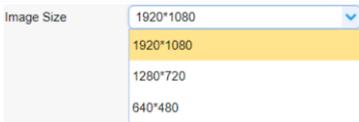
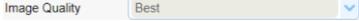
8.2.2.2 Video Configure-Video Encode

The Video Encode option allows users to set many Video Encoder related parameters for the main stream and sub stream including Compressed Format, Profile, Image Size, Rate Control, Image Quality, Bit Rate(kb/s), Frame Rate(F/S), I Frame Interval, I Frame Min QP and Stream Name. The main interface of the Video Encode in the Video Configure option is shown as



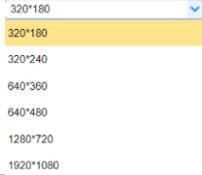
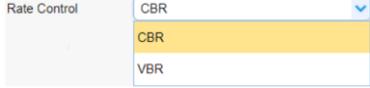
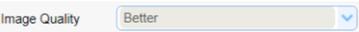
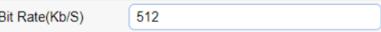
following diagram.

Please see following table for the introduction of Video Encode option for Main Stream and Sub Stream.

Main Stream	
	<p>Compressed Format This drop-down menu allows users to select their desired video compressed formats including H.264 and H.265.</p>
	<p>Profile This drop-down menu allows users to select different profile options including BP (Baseline Profile), MP(Main Profile) and HP(High Profile) for main stream.</p>
	<p>Image Size This drop-down menu allows user to select their desired image size for the main stream.</p>
	<p>Rate Control This drop-down menu allows users to select CBR or VBR. CBR encoding does not optimize media files for quality but will save you storage space. VBR takes longer to encode but produces the most favorable results as the quality of the media file is superior</p>
	<p>Image Quality The default image quality for the main stream is “Best”.</p>
	<p>Bit Rate(Kb/s) This column allows users to set their desired bit rate for the main stream. The default value is 4096Kb/s. A bitrate is the amount of data required to encode a single second of video.</p>

	From a streaming perspective, the higher the bitrate, the higher the quality, and the more bandwidth it will require.
<p>Frame Rate(F/S) <input type="text" value="25"/></p>	<p>Frame Rate(F/S) This column allows users to set their desired Frame Rate for the main stream. The default value is 25. Higher frame rate will cause smooth video viewing experience.</p>
<p>I Frame Interval <input type="text" value="75"/></p>	<p>I Frame Interval This column allows users to set the I Frame Interval. The default value is 75. The shorter I Frame Interval causes higher quality video. However, it needs more network bandwidth. If the I Frame Interval is set to be longer, it needs less bandwidth. However, it will cause lower video quality.</p>
<p>I Frame Min QP <input type="text" value="20"/></p>	<p>I Frame Min QP This allows users to enter their desired I Frame Min QP. The default value is 20. Lower QP value means less compression and higher video quality.</p>
<p>Stream Name <input type="text" value="live/gx0"/></p>	<p>Stream Name This allows users to enter their desired stream name.</p>
<p><input type="button" value="Save"/></p>	<p>Save Button After all parameters for the main stream or sub stream are set, please press this “Save” button and then those parameters will be effective.</p>

Sub Stream	
<p>Compressed Format <input type="text" value="H.264"/></p> <p>H.264</p> <p>H.265</p>	<p>Compressed Format This drop-down menu allows</p>

	users to select their desired video compressed formats including H.264 and H.265.
	<p>Profile</p> <p>This drop-down menu allows users to select profile. The default profile for the sub stream is BP.</p>
	<p>Image Size</p> <p>This drop-down menu allows user to select their desired image size for the sub stream.</p>
	<p>Rate Control</p> <p>This drop-down menu allows users to select CBR or VBR. CBR encoding does not optimize media files for quality but will save you storage space. VBR takes longer to encode but produces the most favorable results as the quality of the media file is superior</p>
	<p>Image Quality</p> <p>The default image quality for the main stream is “Better”.</p>
	<p>Bit Rate(Kb/s)</p> <p>This column allows users to set their desired bit rate for the main stream. The default value is 512Kb/s. A bitrate is the amount of data required to encode a single second of video. From a streaming perspective, the higher the bitrate, the higher the quality, and the more bandwidth it will require.</p>
	<p>Frame Rate(F/S)</p> <p>This column allows users to set their desired Frame Rate for the main stream. The default value is</p>

	25. Higher frame rate will cause smooth video viewing experience.
I Frame Interval <input type="text" value="75"/>	I Frame Interval This column allows users to set the I Frame Interval. The default value is 75. The shorter I Frame Interval causes higher quality video. However, it needs more network bandwidth. If the I Frame Interval is set to be longer, it needs less bandwidth. However, it will cause lower video quality.
I Frame Min QP <input type="text" value="20"/>	I Frame Min QP This allows users to enter their desired I Frame Min QP. The default value is 20. Lower QP value means less compression and higher video quality.
Stream Name <input type="text" value="live/asu0"/>	Stream Name This allows users to enter their desired stream name.

8.2.2.3 Video Configure-Stream Publish

The Stream Publish function allows user to stream the main stream and sub stream of the PTC-140 by the RTMP streaming protocol. Please see following table for the introduction of parameters of the Stream Publish option.

Enable <input checked="" type="checkbox"/>	Enable Check this checkbox to enable the setting.
Protol Type <input type="text" value="RTMP"/>	Protocol Type The default stream protocol type for the Stream Publish option is RTMP.
Host Address <input type="text" value="rtmp://a.rtmp.youtube.com/live2"/>	Host Address Please enter the RTMP Server URL that is provided by the RTMP streaming platform into this column. Note: The Server URL that is entered into the Host

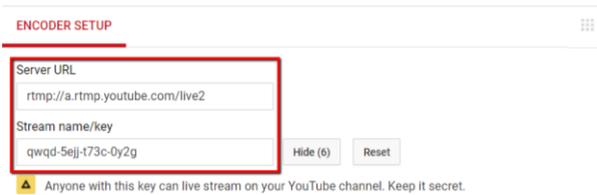
	<p>Address column must follow following format (Take Youtube platform as an example). If the Server URL that is provided by the Youtube is rtmp://a.rtmp.youtube.com/live2, the format this is entered into the Host Address column must be a.rtmp.youtube.com.</p>
<p>Host Port <input type="text" value="1935"/></p>	<p>Host Port The default Host Port is 1935.</p>
<p>Stream Name <input type="text" value="live2/qwqd-5ejj-t73c-0y2g"/></p>	<p>Stream Name Please enter the Stream Name that is provided by the RTMP stream platform. Note: The Stream Name/Key that is entered into the Stream Name column must follow following format (Take Youtube platform as an example). If the Stream Name/Key this is provided by the Youtube is qwqd-5ejj-t73c-0y2g. The format of the Stream Name that is entered into the column must be live2/ qwqd-5ejj-t73c-0y2g.</p>
<p>User Name <input type="text"/></p>	<p>User Name This allows users to enter the user name of the RTMP stream platform account if needed.</p>
<p>Password <input type="password" value="....."/></p>	<p>Password This allows users to enter the password of the RTMP stream platform account if needed.</p>
<p><input type="button" value="Save"/></p>	<p>Save Button Press this button to save the Stream Publish settings.</p>

8.2.2.3.1 How to Stream the PTC-140 Video to the RTMP Platform (Take Youtube as an Example)

Please follow following steps for streaming PTC-140 video to the RTMP platform.

Step 1. Please make sure the PTC-140 and other devices are successfully connected.

Step 2. Please obtain the stream server address and the stream token from the Youtube platform.



ENCODER SETUP

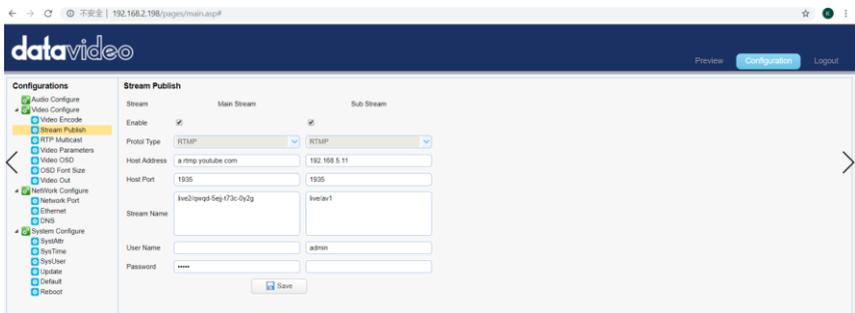
Server URL
rtmp://a.rtmp.youtube.com/live2

Stream name/key
qwqd-5ejj-t73c-0y2g

Hide (6) Reset

⚠ Anyone with this key can live stream on your YouTube channel. Keep it secret.

Step 3. Please open the web UI of the PTC-140 and then select the Stream Publish option.



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datavideo Preview **Configure** Logout

Configurations

- Auto Configure
- Video Configure
 - Video Encode
 - Stream Publish
 - RTP Multicast
 - Video Parameters
 - Video OSD
 - OSD Font Size
 - Video Out
- Network Configure
 - Network Port
 - Camera
 - DNS
- System Configure
 - Timeout
 - Eye Time
 - Darkness
 - Update
 - Default
 - Reboot

Stream Publish

Stream	Main Stream	Sub Stream
Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Protol Type	RTMP	RTMP
Host Address	a.rtmp.youtube.com	192.168.5.11
Host Port	1935	1935
Stream Name	live2/qwqd-5ejj-t73c-0y2g	live2/1
User Name		admin
Password		*****

Save

Step 4. Please enter the stream server URL that is provided by the Youtube website into the Host Address column.

Note: The Server URL that is entered into the Host Address column must follow following format (Take Youtube platform as an example). If the Server URL that is provided by the Youtube is **rtmp://a.rtmp.youtube.com/live2**, the format this is entered into the Host Address column must be **a.rtmp.youtube.com**.

Step 5. Please enter the stream name into the Stream Name column.

Note: The Stream Name/Key that is entered into the Stream Name column must follow following format (Take Youtube platform as an example). If the Stream Name/Key this is provided by the Youtube is **qwqd-5ejj-t73c-0y2g**. The format of the Stream Name that is entered into the column must be **live2/qwqd-5ejj-t73c-0y2g**.

Step 6. Please check the Enable checkbox for the main stream/sub stream.

Step 7. Please press the save button and then the streaming can be done successfully through the Youtube platform.

8.2.2.3.2 How to Stream the PTC-140 Video to the RTMP Platform (Take Facebook as an Example)

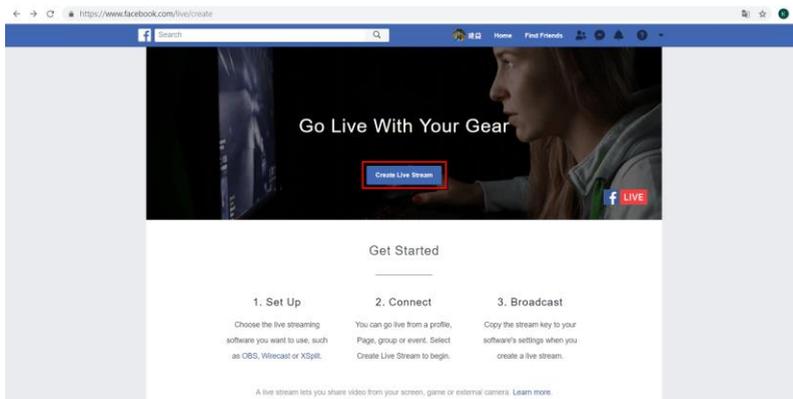
Step 1. Please use an RJ-45 Ethernet cable to connect one end to the public network and then connect another end to the WAN port of a router.

Step 2. Please use another RJ-45 Ethernet cable to connect one end to the LAN port on the rear panel of the PTC-140 camera and then connect another end to one of the LAN port of the router.

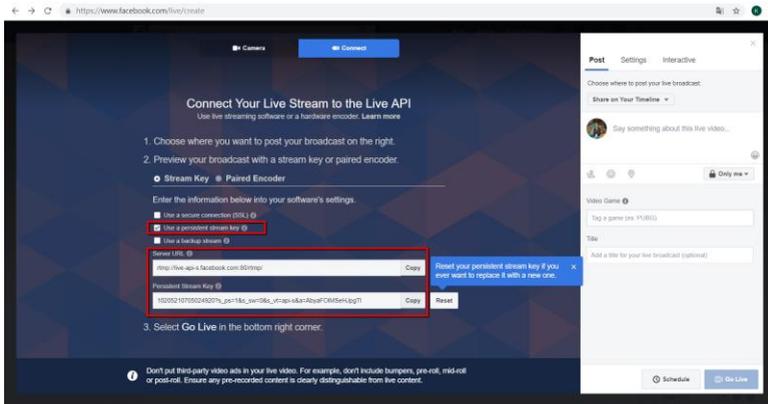
Step 3. Please use another RJ-45 Ethernet cable to connect one end to the LAN port of the PC/Laptop and then connect another end to the LAN port of a router.

Step 4. Please go to Facebook website

<https://www.facebook.com/live/create> , and then please click “Create Live Stream” button. **Note:** In Facebook platform, each streaming must be within 8 hours.



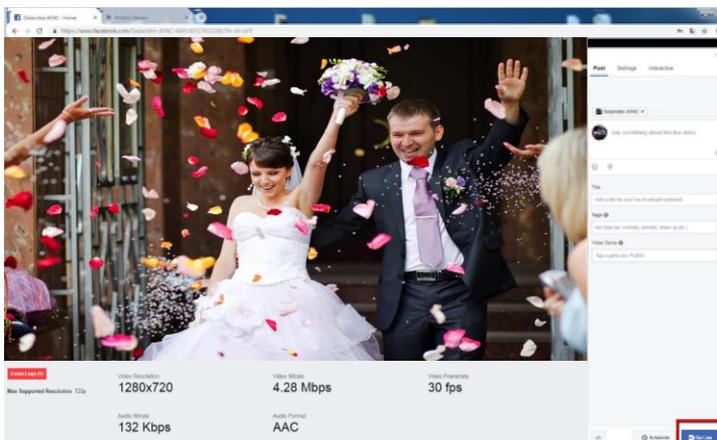
5. The following screen will be shown, please check “Use a persistent stream key” and then please copy “Server URL” and “Persistent Stream Key”. After that, please paste the “Server URL” into the Host Address column of the PTC-140 web UI. Finally, please paste the “Persistent Stream Key” into the Stream Name column of the PTC-140 web UI.



Step 6. Please check the Main Stream or Sub Stream Enable checkbox.

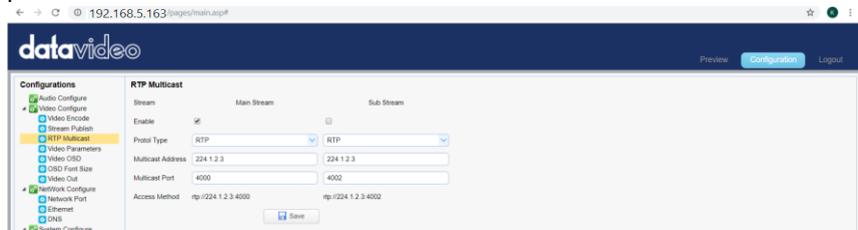
Step 7. Please press the “Save” button.

Step 8. The preview screen will be shown on the Facebook live-stream page. Please choose the section that you want to post your live broadcast and the audience who can see the live broadcast. Finally, please press the “Go Live” button to start streaming the video to the Facebook page.



8.2.2.4 RTP Multicast

The RTP Multicast option allows users to set RTP/TS multicast related parameters.



The main interface of the RTP Multicast is shown as following.

Please follow following main steps for the RTMP Multicast.

Step 1. Please download VLC media player from the website

<https://www.videolan.org>

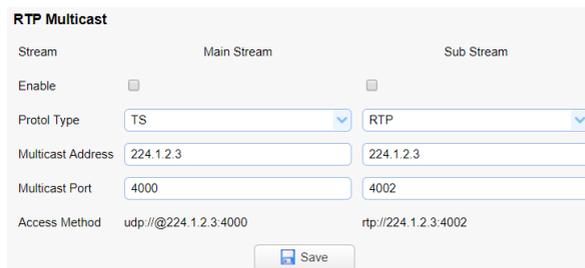
Step 2. Open VLC, Click Media drop-down menu and then click “Open Network Stream”.

Step 3. Please enter the RTP/TS Multicast address which is shown in the Web UI into the VLC player and then the RTP/TS Multicast can be played successfully by the VLC Player. In this example, the RTP multicast address for the main stream is `rtp://224.1.2.3:4000` and the RTP multicast address for the sub stream is `rtp://224.1.2.3:4002`

For the multicast of the TS protocol, please follow following steps.

Step 1. Please make sure that the Enable checkbox is checked.

Step 2. Please select “TS” from the “Protol Type” drop-down menu and then the main interface of the TS multicast will be shown as following diagram.



Step 3. Please download the VLC media player from the website

<https://www.videolan.org>

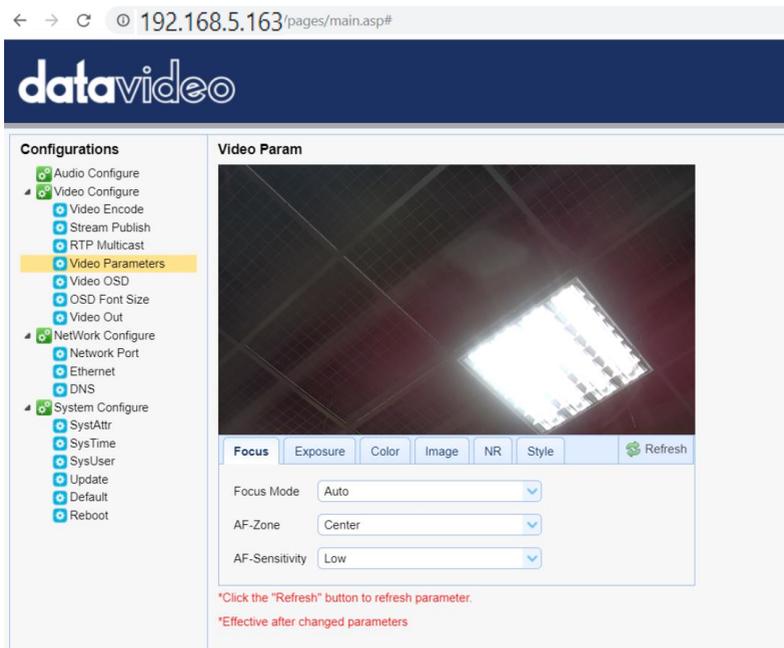
Step 4. Please open the VLC, click the Media drop-down menu and then click “Open Network Stream”.

Step 5. Please enter the TS Multicast Address that is shown in the web control interface into the VLC player and then users can use the VLC player to play the RTP/TS multicast. In this example, the TS multicast address for the for the main stream is `udp://@224.1.2.3:4000`

8.2.2.5 Video Parameters

The Video Parameters provides users to set many parameter for the cameras. For the main interface of the Video Parameters, please see following diagrams.

1. Focus Option



Focus option provides users to set Focus Mode, AF-Zone and AF-Sensitivity. Focus Mode: Users can select Auto, Manual and One Push from the drop down menu.

AF-Zone: Users can select Top, Center, Bottom and All from the drop down menu.

AF-Sensitivity: Users can select High, Middle and Low from the drop-down menu.

2. Exposure Option

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datavideo

Configurations

- Audio Configure
- Video Configure
 - Video Encode
 - Stream Publish
 - RTP Multicast
 - Video Parameters**
 - Video OSD
 - OSD Font Size
 - Video Out
- Network Configure
 - Network Port
 - Ethernet
 - DNS
- System Configure
 - SystAttr
 - SysTime
 - SysUser
 - Update
 - Default
 - Reboot

Video Param

Focus **Exposure** Color Image NR Style Refresh

Mode: Auto

EV: OFF

BLC: OFF

Flicker: OFF

G.Limit: 4

DRC: 4

*Click the "Refresh" button to refresh parameter.
*Effective after changed parameters

The exposure option allows users to set Exposure Mode, EV, BLC, Anti-Flicker, Gain Limit and DRC.

Mode: Auto, Manual, SAE, AAE and Bright

EV: ON, OFF. If the EV is turned on, there is an EV adjustment slider for users to adjust the EV level.

BLC: Users can click the BLC button for backlight compensation.

Flicker: Click the drop-down menu to select the Flicker to be 50Hz, 60Hz or OFF.

Gain Limit slider: The Gain Limit Slider allows users to adjust the gain limit, the range is from 0 to 15.

DRC: Users can select DRC level 1, 2, 3, 4, 5, 6, 7, 8 or OFF from the drop-down menu.

3. Color

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The screenshot shows the DataVideo web interface. On the left is a 'Configurations' menu with the following items: Audio Configure, Video Configure (expanded), Video Encode, Stream Publish, RTP Multicast, Video Parameters (highlighted), Video OSD, OSD Font Size, Video Out, NetWork Configure (expanded), Network Port, Ethernet, DNS, System Configure (expanded), SystAttr, SysTime, SysUser, Update, Default, and Reboot. The main area is titled 'Video Param' and features a video preview of a ceiling light fixture. Below the preview are tabs for Focus, Exposure, Color (selected), Image, NR, and Style, along with a Refresh button. The 'Color' configuration panel includes: WB Mode (Auto), RG Tuning (0), BG Tuning (0), Saturation (100%), Hue (7), and AWB Sensitivity (High). Red text at the bottom of the interface reads: '*Click the "Refresh" button to refresh parameter.' and '*Effective after changed parameters'.

The Color option allows users to set WB Mode, RG Tuning, BG Tuning, Saturation, Hue and AWB Sensitivity.

WB Mode:

Auto/3000K/3500K/4000K/4500K/5000K/5500K/6000K/6500K/7000K/Manual
/One Push

RG Tuning: -10/-9/-8/-7/-6/-5/-4/-3/-2/-1/0/1/2/3/4/5/6/7/8/9/10

BG Tuning: -10/-9/-8/-7/-6/-5/-4/-3/-2/-1/0/1/2/3/4/5/6/7/8/9/10

Saturation:

60%/70%/80%/90%/100%/110%/120%/130%/140%/150%/160%/170%/180%
/190%/200%

Hue: 0/1/2/3/4/5/6/7/8/9/10/11/12/13/14

AWB Sensitivity: Low/Middle/High

4. Image

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 - RTP Multicast
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 - OSD Font Size
 - Video Out
- NetWork Configure
 - Network Port
 - Ethernet
 - DNS
- System Configure
 - System Attr
 - System Time
 - System User
 - Update
 - Default
 - Reboot

Video Param

Focus Exposure Color **Image** NR Style Refresh

Bright 7

Contrast 7

Sharpness 6

Gamma Default

DCI OFF

B&W Mode Color

Flip-H OFF

Flip-V OFF

DZoom OFF

*Click the "Refresh" button to refresh parameter.
*Effective after changed parameters

The Image option allows users to set several parameters including Bright, Contrast, Sharpness, Gamma, DCI, B & W Mode, Flip-H, Flip-V and DZoom.

Bright: 0/1/2/3/4/5/6/7/8/9/10/11/12/13/14

Contrast: 0/1/2/3/4/5/6/7/8/9/10/11/12/13/14

Sharpness: 0/1/2/3/4/5/6/7/8/9/10/11/12/13/14/15

Gamma: Default/0.45/0.50/0.55/0.63

DCI: OFF/1/2/3/4/5/6/7/8

B & W Mode: Color/B & W

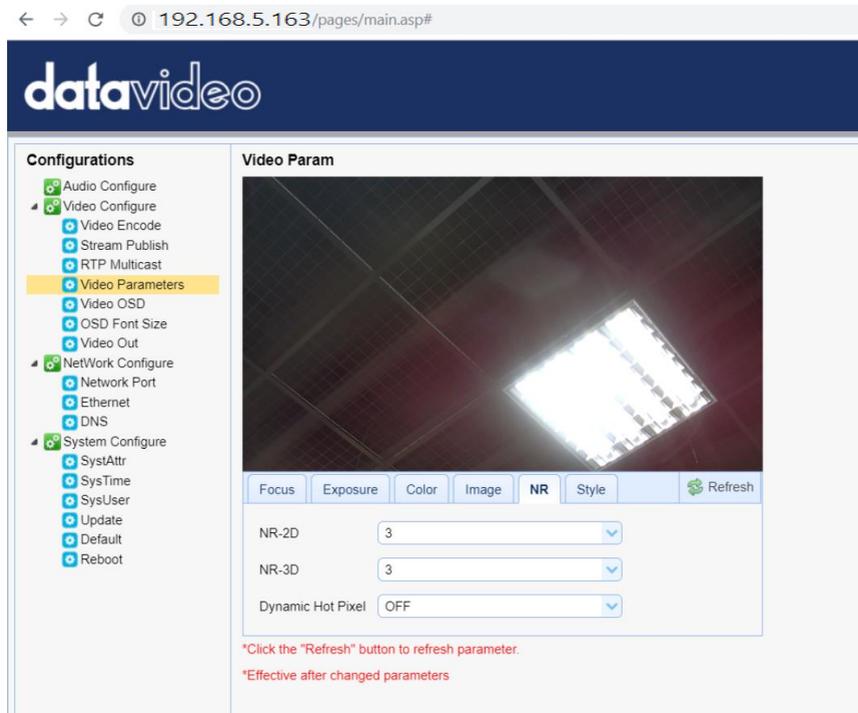
Flip-H: OFF/ON

Flip-V: OFF/ON

DZoom: OFF/ON

5. NR

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Configurations

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 - Network Port
 - Ethernet
 - DNS
- System Configure
 - SystAttr
 - SysTime
 - SysUser
 - Update
 - Default
 - Reboot

Video Param



Focus Exposure Color Image **NR** Style Refresh

NR-2D: 3

NR-3D: 3

Dynamic Hot Pixel: OFF

*Click the "Refresh" button to refresh parameter.

*Effective after changed parameters

The NR option allows users to set NR-2D, NR-3D and Dynamic Hot Pixel.

NR-2D: OFF/1/2/3/4/5/6/7/Auto

NR-3D: OFF/1/2/3/4/5/6/7/8

Dynamic Hot Pixel: OFF/1/2/3/4/5

6. Style

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Configurations

- Audio Configure
- Video Configure
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 - Ethernet
 - DNS
- System Configure
 - SystAttr
 - SysTime
 - SysUser
 - Update
 - Default
 - Reboot

Video Param

Focus Exposure Color Image NR **Style** Refresh

Style:

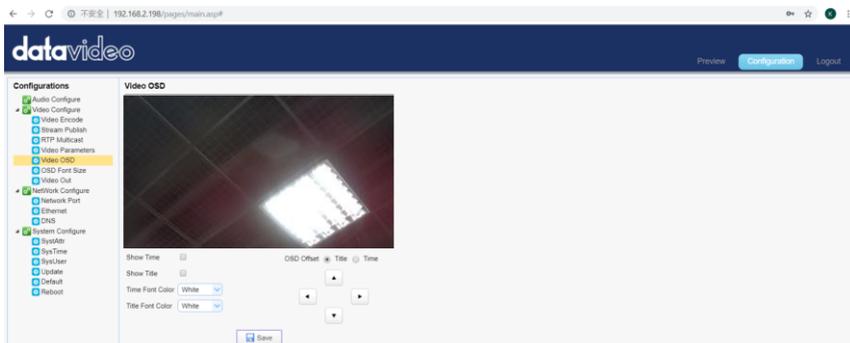
*Click the "Refresh" button to refresh parameter.
*Effective after changed parameters

This Style option allows users to select their desired Style including Default, Normal, Clarity, Bright and Soft from the drop-down menu.

Note: For all parameters in the Video Parameters option, please click the Refresh button  each time when the parameters are changed. The parameters will be effective immediately once they are changed.

8.2.2.6 Video OSD

The Video OSD option allows users to show time and title on the screen. Moreover, it allows users to determine font color and OSD offset of time and title. Please see following diagram for the main interface of the Video OSD.



How to Show Time and Title on the Screen

Please follow following steps for showing Time and Title on the Screen.

Step 1. Please check the checkbox of “Show Time” or “Show Title”.

Step 2. Please click the “Save” button and then the Time or Title will be shown on the screen.

How to Determine the Font Color of the Time and Title

The Video OSD option allows users to set the font color of time and tile in five colors including White, Black, Yellow, Red and Blue. Please follow following steps for setting the font color in different color.

Step 1. Please select your desired font color from the Time/Title Font Color drop-down menu.

Step 2. Please click the “Save” button and then the desired font color will be applied.

How to Control the OSD Offset of Title and Time

The Video OSD option also allows users to control the OSD offset of Title and Time. Please follow following steps for controlling the title and time of the OSD offset.

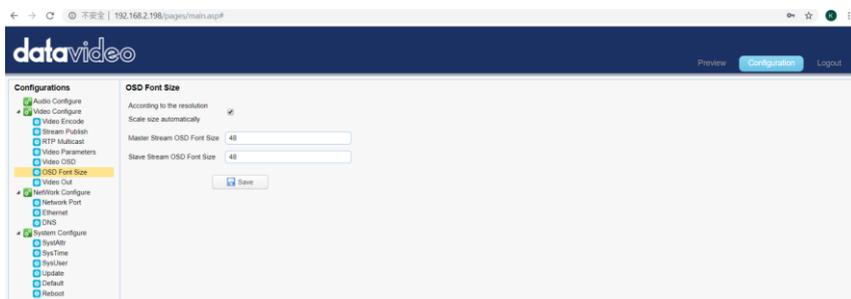
Step 1. Please check the Title or Time from the OSD Offset.

Step 2. Please click the UP/Down/Left/Right buttons to move the Title or Time to your desired location.

Step 3. Please click the “Save” button to complete the setting.

8.2.2.7 OSD Font Size

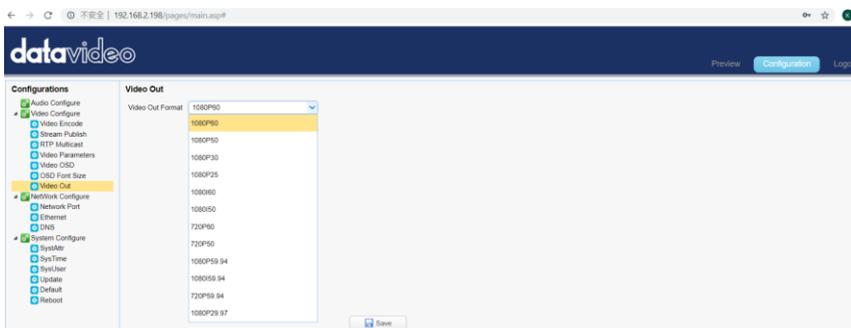
The OSD Font Size option allows users to determine the OSD font size of the master stream and slave streams. Please see following diagram for the main interface of the OSD Font Size.



Please check the checkbox of “According to the resolution” “Scale Size automatically” and then the font size will be scaled automatically. Moreover, users can enter their desired font size into the blanks of “Master Stream OSD Font Size” and “Slave Stream OSD Font Size” and then please click the “Save” button to apply the font size.

8.2.2.8 Video OUT

The Video Out option allows users to select their desired video output resolution from the drop-down menu. It supports various output resolutions including 1080P60, 1080P50, 1080P30, 1080P25, 1080I60, 1080I50, 720P60, 720P50, 1080P59.94, 1080I59.94, 720P59.94 and 1080P29.97. Please see following diagram for the main interface of Video OUT option.



How to Change the Video Output Resolution

Please follow following steps for changing the video output resolution.

Step 1. Please select your desired video output resolution from the Video OUT Format drop-down menu.

Step 2. Please click the “Save” button and then the video output resolution is set successfully.

8.2.2.9 Network Configure-Network Port

The Network Port option provides users information for different ports including Port Data, Port Web, Port Onvif, Port Soap, Port RTMP, Port RTSP and Port Visca. All of those port numbers are default values, so it is no need for users to change them. Please see following diagram for the main interface of the Network Port. However, if it is needed to change the port number, users can enter their desired port number and then click the “Save” button and then the port number is modified successfully.



8.2.2.10 Ethernet

The Ethernet option provides network related parameters for users including IP Address, Subnet Mask, Default Gateway and MAC Address. Moreover, it also allows users to set the camera in DHCP mode. Please see following diagram for the main interface of the Ethernet option.

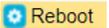


How to Set the Camera in DHCP Mode

Please follow following steps for setting the camera in DHCP mode.

Step 1. Please check the checkbox of DHCP.

Step 2. Please click the “Save” button.

Step 3. Please click the Reboot option  and then click the Reboot

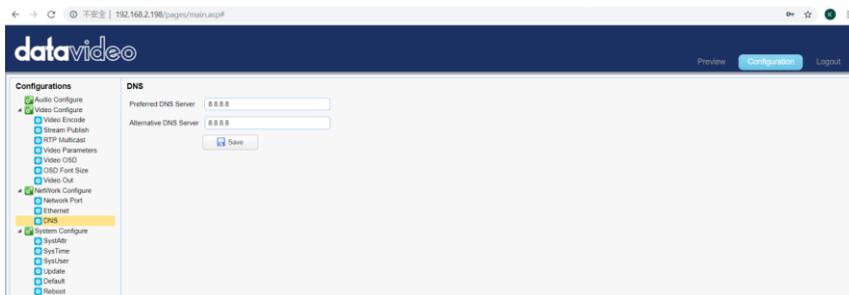
button . After that, the camera will be set in DHCP mode successfully.

Note: If the camera is set in DHCP mode, The IP Address, Subnet Mask, Default Gateway can not be modified by users.

If the DHCP checkbox is not checked and the camera is set in Static IP mode, the IP Address, Subnet Mask and Default Gateway can be modified by users. After the desired parameters are entered, please click the “Save” button and then the Ethernet setting is completed successfully.

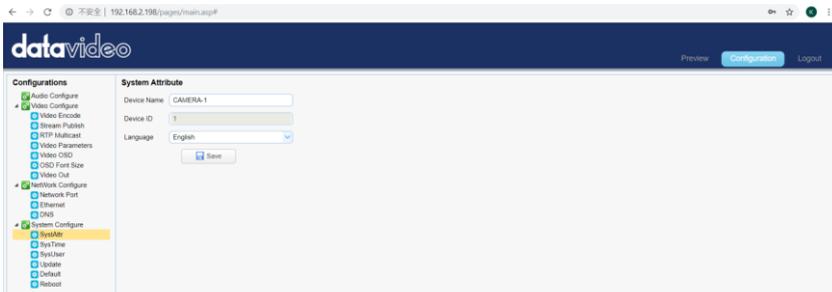
8.2.2.11 DNS

The DNS option provides users DNS information including Preferred DNS Server and Alternative DNS Server. The default value is 8.8.8.8 Please see following diagram for the main interface of the DNS option.



8.2.2.12 System Configure-System Attribute

The SystAttr option allows users to change the Device Name and the OSD language of the camera. Users can select their desired OSD languages including Traditional Chinese, Simplified Chinese and English from the drop-down menu. Please see following diagram for the main interface of the SystAttr option.



How to Change the OSD Language

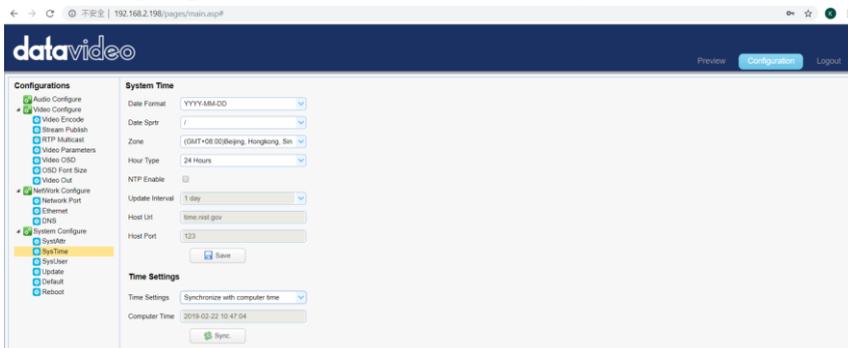
Please follow following steps for changing the OSD language of the camera.

Step 1. Please select your desired language from the Language drop-down menu.

Step 2. Please press the “Save” button and then the OSD language is set successfully.

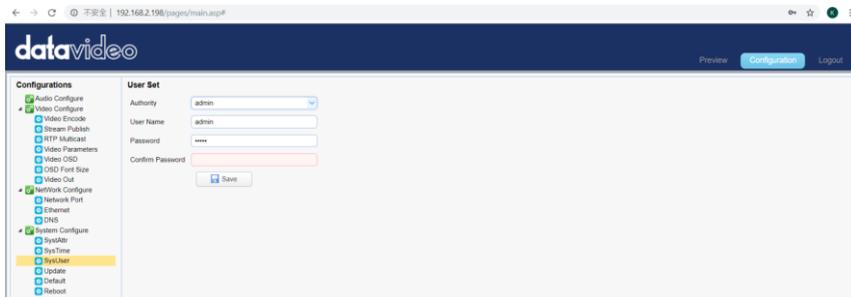
8.2.2.13 System Time

The SysTime option allows users to set several System Time related parameters including “Date Format”, “Time Zone”, “Hour Type” and “Time Settings” from the drop-down menu. Moreover, it allows users to set the NTP Enable option from the checkbox. Once all of the Time related parameters are set, please click the “Sync.” Button for Synchronizing the System Time. Please see following diagram for the main interface of the System Time.



8.2.2.14 System User

The SysUser option allows users to set User Name and Password for accounts for three authorities including admin, user 1 and user 2. Please see following diagram for the main interface of System User.



How to Set the User Name and Password for System User

Please follow following steps for setting User Name and Password for system users.

Step 1. Please select your desired Authority including “admin”, “user 1” and “user 2” from the drop-down menu.

Step 2. Please enter your desired User Name and Password into the blanks.

Step 3. Please enter your password again into the “Confirm Password” blank.

Step 4. Please click the “Save” button and then the user name and password are set successfully.

8.2.2.15 Update

The Update option provides several current firmware related information including MCU Version, Camera Version and AF Version for users. Moreover, it also provides interface for users to update the latest firmware. Please see following diagram for the main interface of the Update.



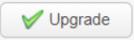
How to Update the Latest Firmware for the PTC-140 Camera

Please follow following steps for updating the latest firmware for the PTC-140 camera.

Step 1. Please download the latest firmware of the camera from Datavideo Official website <https://www.datavideo.com/product/PTC-140>

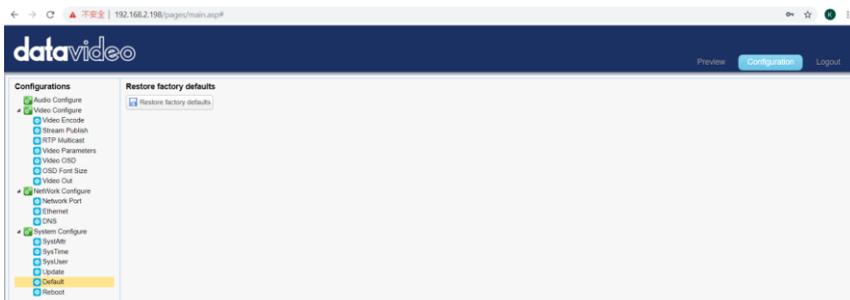
Step 2. Please download the latest firmware and then save the firmware in the hard disk of your PC.

Step 3. Please click the “Select File” button   未選擇任何檔案 to select the latest firmware from your PC.

Step 4. After the latest firmware is selected, please click the “Upgrade” button  and then the firmware update procedure will be started.

8.2.2.16 Default

The Default option provides users a button to restore the camera to factory default value. The main interface of “Default” is shown as following diagram.



Please follow following steps for restoring the camera to factory default value.

Step 1. Please click the “Default” option.

Step 2. Please click the “Restore factory defaults” button and then the camera will be restored to factory default situation.

8.2.2.17 Reboot

The Reboot option allows users to reboot the camera. The main interface for the Reboot option is shown as following diagram.



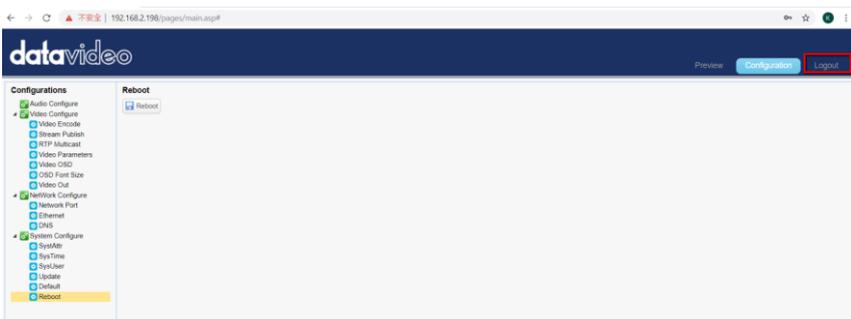
Please follow following step for rebooting the camera.

Step 1. Please click the “Reboot” button  and then the camera will start rebooting.

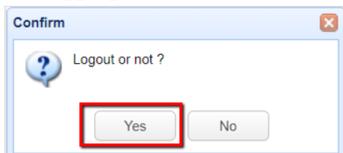
8.2.3 Logout

The Logout option allows users to logout the web-based user interface of the PTC-140. Please follow following steps for logging out the web UI of the camera.

Step 1. Please click the “Logout” option from the web based user interface.



Step 2. A confirm dialogue box will appear and please click the “Yes” button for logging out the web based user interface.



9. Firmware Update

The Update option provides several current firmware related information including MCU Version, Camera Version and AF Version for users. Moreover, it also provides interface for users to update the latest firmware. Please see following diagram for the main interface of the Update.



How to Update the Latest Firmware for the PTC-140 Camera

Please follow following steps for updating the latest firmware for the PTC-140 camera.

Step 1. Please download the latest firmware of the camera from Datavideo Official website <https://www.datavideo.com/product/PTC-140>

Step 2. Please download the latest firmware and then save the firmware in the hard disk of your PC.

Step 3. Please click the “Select File” button to select the latest firmware from your PC.

Step 4. After the latest firmware is selected, please click the “Upgrade” button and then the firmware update procedure will be started.

10. Frequently-Asked Questions

This section describes problems that you may encounter while using the PTC-140. If you have questions, please refer to related sections and follow all the suggested solutions. If problem still exists, please contact your distributor or the service center.

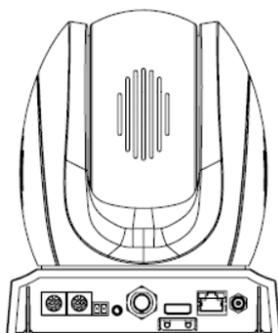
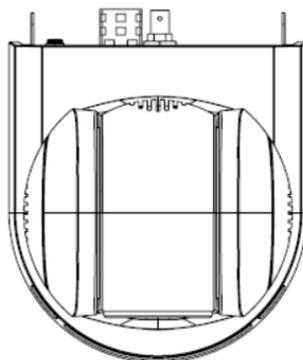
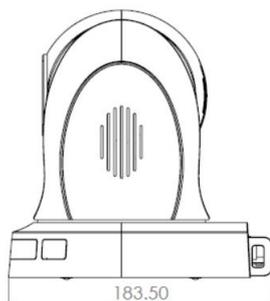
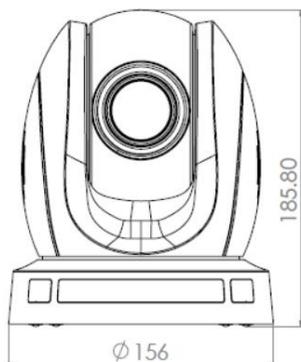
No	Problems	Solutions
1.	What are the important points for product maintenance?	<ol style="list-style-type: none">1. If the camera will not be used for a long time, please unplug the 12V DC power plug. Moreover, please remove the AC power adapter from the AC outlet.2. Please use soft cloth or tissue to wipe the dust from the case of the camera.3. If the lens of the camera is washed, please wipe it by a soft and dry cloth. Please use neutral detergent rather than strong or corrosive detergent to wipe the camera to prevent the camera lens from damaging.
2.	Why there is no output video?	<ol style="list-style-type: none">1. Please check that whether the power adapter and power plug are connected correctly. Moreover, please check whether the power LED indicator is lighting up.2. Please check whether the device is self-checked normally if the power is turned off and then restarted again.3. Please check whether the cable connection between the camera and the external connected monitor is connected correctly.

3.	Sometimes there is no image?	1. Please check whether the cable connection between the camera and the external connected monitor is connected correctly.
4.	Image jittering is happened when the camera lens is zooming.	1. Please check whether the camera is well-mounted. 2. Whether there is a vibrating machine or object that is around the camera.
5.	The remote controller can not be used.	1. Please check whether the remote controller can be used if the IR address is set to 1. (If the camera is restored to factory default value and then the IR address of the remote controller will be reset to 1). 2. Please check whether the battery of the remote controller is well-installed and whether the battery power is enough or not. 3. Please check whether the working mode of the device is normal or not. 4. Please check whether the OSD menu is closed, the remote controller can be used only when the OSD menu is closed. If the output video is shown on the web-based user interface, the OSD menu will not be shown. If the OSD menu is shown and there is no action for about 30 seconds, the OSD menu will be closed automatically.

<p>6.</p>	<p>The camera can not be controlled by the serial port.</p>	<ol style="list-style-type: none"> 1. Please check whether the control cable is the standard control cable that is provided by our company. 2. Please check whether the protocol, baud rate and address of the device that is connected are consistent to the protocol, baud rate and address of the camera. 3. Please check whether the control cable is connected correctly or not. 4. Please check whether the working mode of the device is normal or not.
<p>7.</p>	<p>The web-based user interface can not be logged in.</p>	<ol style="list-style-type: none"> 1. Please check whether the output video of the camera can be shown on the external connected monitor correctly or not. 2. Please check whether the Ethernet cable is connected correctly or not (If the yellow LED indicator on the rear panel of the camera is flickering, it means that the Ethernet cable is connected correctly.) 3. Please check that whether the network segment is added for your PC's network setting and please confirm that whether this network segment is consistent to the camera's IP address. 4. Please click "Type here to search" from your PC and then please enter CMD command. After that, please click "Enter" to open the DOS command window. Finally, please enter ping 192.168.5.163 to confirm that the network is successfully connected.

11. Dimensions

Unit: mm



12. Specifications

Camera Parameter	
Image Pickup Element	1/2.8 inch high quality HD CMOS sensor
Optical Zoom Ratio	20x Optical Zoom
Focal Length	5.2~98mm
Effective Picture Elements	Approx. 2.07 Mega pixels
Signal System	1080p60/59.94/50/30/29.97/25 1080i60/59.94/50 720p60/50/59.94
Angle of View (Horizontal)	Approx. 54.7 degrees (WIDE END) / 3.3 degrees (TELE END)
IRIS	F1.6 – F3.5
Digital Zoom Ratio	10X
Min. Illumination	0.5Lux (F1.8, AGC ON)
Digital Noise Reductions	2D & 3D DNR
White Balance	Auto / Manual/ OnePush/ 3000K/4000K/5000K/6500K
Focal Length/Iris/Electronic Shutter	Auto/Manual
Backlight Compensation	ON/OFF
Wide Dynamic Range (WDR)	OFF/ Dynamic level adjustment
Image Adjustment	Brightness, Color, Saturation, Contrast, Sharpness, B/W mode, Gamma curve

S/N Ratio	>55dB
Input/Output Interface	
Image Interface	SDI x 1, HDMI x 1
Video Compression Format	H.264, H.265, Dual stream output
Control Protocol	VISCA/Pelco-D/Pelco-P; Baud Rate:115200/38400/9600/4800/2400bps, DVIP
Audio Input Interface	3.5mm mic in/line in (not available)
Audio Compression Format	AAC/MP3/PCM Audio compression
Audio Output	HDBaseT/IP Cam
HD Ethernet Interface	100M IP port(100BASE-TX); Support DVIP
Network Protocol	RTSP/RTMP
Power Interface	DC Jack with lock
PTZ Parameter	
Pan/Tilt Range	Pan: +170° to -170° , Tilt: -30° to +90°
Pan Speed	0.1 -60°/sec
Tilt Speed	0.1 -30°/sec
Preset Speed	Pan: 60°/sec, Tilt: 30°/sec
Preset Number	255 presets (10 presets by IR remote controller)
Others	
Dimensions	185.8 (H) x 156 (W) x 183.5 (D) mm

Weight	1.592Kg
Remote Control (IP)	Remote Upgrade, Reboot and Reset
Accessories	IR Remote Controller, DC 12V adaptor, Ceiling Mount Bracket
OSD Language	English, Simplified Chinese
Operating Temperature	0~40 °C

Note

Note

Service & Support

It is our goal to make your products ownership a satisfying experience. Our supporting staff is available to assist you in setting up and operating your system. Please refer to our web site www.datavideo.com for answers to common questions, support requests or contact your local office below.

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Please visit our website for latest manual update.
<https://www.datavideo.com/product/PTC-140>

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