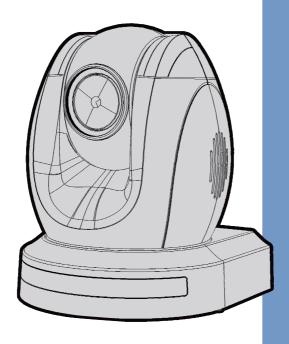
# datavideo



HD/SD-SDI PTZ CAMERA

PTC-150/ PTC-150W

**Instruction Manual** 

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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-150/PTC-150W HD/SD Video Camera is a PTZ camera that can be mounted on a wall, ceiling, floor, or a tabletop, and includes an IR remote control. The camera captures HD video at 1920 x 1080 resolution, and features wide dynamic range with backlight compensation. The camera features a motorized 30x optical zoom capability. The camera's image mirror and image rotation functions allow you to electronically adjust the image and deliver a correctly oriented image.

50 programmable presets including pan, tilt, and zoom positions, allow the camera to quickly move between predetermined camera positions using the remote.

For multi-camera shoots, the built-in tally light can identify when the camera is active. The camera features a built-in IR cut filter in the image path for low light shooting, and then returns for daytime shooting. Moreover, PTC-150/PTC-150W supports real time position report on a per frame basis; this will be helpful to virtual studio application. The camera supports Sony VISCA protocol for PTZ control using RS-422 interface over the unit's RJ-45 port.

### 2. Features

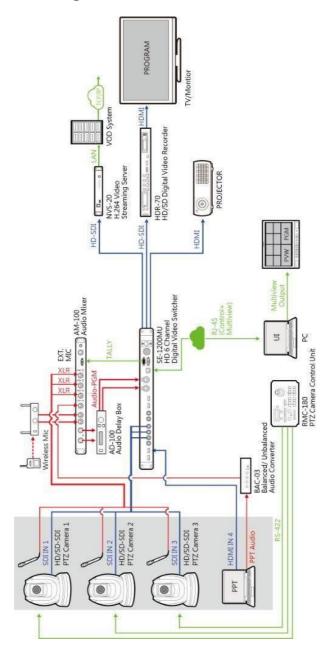
- HD Resolution: 1/2.8" High Definition 2.14 M Pixels progressive CMOS sensor
- 30x optical zoom (f = 4.3 mm to 129 mm)
- High definition formats supported: 1080/59.94p, 1080/50p, 1080/59.94i,
   1080/29.97p, 1080/25p, 1080/50i, 720/59.94p, 720/50p
- Standard definition formats supported: 480i, 576i
- Digital Noise Reduction Function (DNR) to reduce the noise and enable clearer image under low light conditions.
- Position coordinates report in real time per frame.
- Video Output: HD-SDI + CVBS + HDMI synchronously.
- Tally LED Design
- Supports VISCA Protocol Keyboard
- Supports DVIP Control Protocol

# 3. Location and Function of Parts

Front of Camera					
		Lens Built-in 1/2.8" 2.14M 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	3	Sensor for Remote Control Remote controller receiver			
Rea	r of	Camera			
1 2 3 4 5	1	DIP Switch SW2 DIP switch for IRID setting. See the DIP Switch Settings section for details.			
	2	RS422 Communication Port Connection to the RMC-180 PTZ Camera Control Unit for remote control of the camera via any RJ-45 cable.			
6 7 8		See <u>Section 9</u> for physical connection to the RMC-180. For details on how to use the RMC-180, please read the RMC-180 instruction manual.			
	3	HD-SDI OUT Video signal output			
	4	CVBS OUT Video signal output			
	5	HDMI OUT Video signal output			

	6	HDBaseT Communication Port Connects the camera to the receiver box, thereby extending video transmission up to 100m.  Note: If the camera is used as a standalone device, this port can be used to connect the camera directly to the PC or to a network router via any RJ-45 cables.  See Section 8 for configuring the camera's network settings using the DVIP Network Configuration Tool.
	7	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.
	8	USB Port The USB port is used for F/W Upgrade Only. Insert a USB stick containing the latest firmware files into this port.  See Section 10 for Firmware Update Procedure.
Botto	om o	of Camera
1 2	1	<b>Tripod Screw Hole</b> allows the user to mount the camera on the tripod.
3	2	DIP Switch SW1 Camera settings include VISCA ID, Remote Control Protocol, Resolution and Video Mode Selection Method.  See the DIP Switch Settings section for details.
	3	Screw Hole Screw holes for ceiling bracket mounting.  See Section 6 for installation instructions.

# 4. System Diagram



# 5. Remote Control and On-Screen Menu

### **5.1** Remote Control Functions

15 —		No	Item	Description
2	1 2 3	1	Reset	Press <b>RESET</b> button to return the camera lens to the front.
4 —	4 0 0		Group	Use the No. bottom & the group bottom to select the group scan.
5 —	F CON TOWN 13		GROUP	Press any of the No. buttons 1~8 and then press <b>GROUP</b> button.
8 — 7 — 9 — 3 —	s s s s s s s s s s s s s s s s s s s	3	Camera Select	Select CAM1-CAM4 in a multicamera environment Assign an ID number to the camera intended for operation by adjusting the IRID (SW2) switch located at the rear of the camera  Press CAMERA SELECT (CAM 1~ CAM4) buttons corresponding to the numbers set previously to navigate between four cameras
No.	Item	Item Description		
4	Position Setting  1 2 3 4 5 6 7 8 9 6 0 £	Various combinations of settings (position, zoom, focus, gain control and iris control) can be saved to presets.  Adjust Preset Point Adjust position, zoom, focus, gain control and iris of the camera.  Set up Preset Point Press any of the POSITION buttons 1~50 and then press SET button.  Recall saved setting Press any of the POSITION buttons 1~50 and then press PRESET button.  Set up Group Scan mode Press any of the POSITION buttons 1~8 and then press GROUP button.  Return Camera Lens back to Front		

5	Focus Setup	Manually focus camera lens on a subject Press either (F) FAR button or (N) NEAR button to manually focus the camera lens onto the subject.
6	Auto Focus Control	Automatically focus camera lens on a subject Press A/ FOCUS button. Camera lens will be automatically focused on the subject such that it is positioned at the center of the screen.  Exit Sub-Menu Option Press A/ FOCUS button to exit sub-menu option
7	Gain Control	Adjust Brightness Press GAIN+ button to increase the brightness or GAIN- button to decrease the brightness of the environment.  To cancel the function or return to default setup, press A/ GAIN button.
8	P/T Speed  PANTITY  PANTITY  PARTITY  P	Adjust Pan/ Tilt Speed Press SPEED + / - button to switch to different speed (up/down)
9	Auto Iris Control	Make the subject appear brighter Adjust the iris opening (aperture), to control the amount of light coming through the lens (i.e. the "exposure"). Press IRIS+ button to enlarge the iris opening to allow more light to come in so that the subject appears brighter and press IRIS- button to shrink the iris opening to allow less light to come in so that the subject appears less bright.  To cancel the function or return to default setup, press A/IRIS button.
10	ENTER	ENTER Menu ENTER key

11	Direction Arrows	Change camera direction Press arrow buttons to change the direction of the camera head  Stop Preset Point Auto Scan mode Press any of the DIRECTION buttons  Select Menu Option Press UP or DOWN button to select the menu option  Adjust P/T Speed Press UP or DOWN button to adjust the PAN/TILT Speed  Enter Sub-Menu Option Press ENTER button to enter sub- menu option  Adjust Setup Value Press LEFT or RIGHT button to adjust the value
12	Enter/ Exit Camera Menu	Enter or Exit Camera Menu Option
13	Zoom In/Out Buttons	Zoom  Press either (T) TELE button to zoom in on the subject such that it appears to be close to the camera or (W) WIDE button to zoom out from the subject such that it appears to be far away from the camera.
14	Zoom Speed Button (4 speed selection)	Adjust Zoom In/Out Speed Press this button to switch to different speed (The Highest~ The Lowest)
15	Power Button	Switch Remote Controller ON/OFF

### 5.2 On-Screen Menu

On-Screen Menu allows the user to change various camera settings such as shooting conditions and the system setup. Press [Menu] on the remote control to enter the on-screen menu as shown below.

On-Screen MENU

- 1: Camera Set (Normal)
- 2: Memory
- 3: Video Output
- 4: Remote Control
- 5: System
- 6: Camera Set (Advance)
- 7: Reset P/T/Z
- 8: Escape

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

	Main Options							
	Camera Set (Normal)	Memory	Video Output	Remote Control	System	Camera Set (Advance)	Reset P/T/Z	Escape
	1. Camera Name	1. Preset Position	1. Selection Way	1. PAN/TILT Reverse	1. Display	1. Camera Name	Reset P/T/Z	
	2. Mirror	2.Group-1	2. Video Mode	2. Remote Source	2. Set Motor	2. Mirror		
	3. White Balance	3. Group-2	3. CV Mode	3. Set RS- 422	3. Tally Light	3. White Balance		
	4. Focus	4. Group-3	4. Pattern	4. Set DVIP	4. Reset All	4. Focus		
	5. Iris	5. Group-4	5. Escape	5. Set IR	5. Update Software	5. Iris		
Sub-Options	6. AGC	6. Group-5		6. PTZ INFO. output	6. Escape	6. AGC		
	7. Escape	7. Group-6		7. Escape		7. Fog Correction		
ο̈		8. Group-7				8. Aperture		
qn		9. Group-8				9. Vivid Effect		
0,		10. Escape				10. Pedestal Effect		
						11. Backlight Correct		
						12. Day/Night Mode		
						13. Shutter		
						14. Gamma Mode		
						15. WD Mode		
						16. Escape		

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

First Level	Second Level	Third Level	Fourth Level	Sub-Option	
Main Options	Sub-Options	Parameters	Parameters	Descriptions	
		NAME			
		DISPLAY SW	ON/OFF		
	1. Camera Name	DOCUTION	LOWER LEFT		
		POSITION	UPPER RIGHT		
		ESCAPE			
		H+V			
	2. Mirror	V			
		Н			
		OFF	ANA/D/ALITO)		
			AWB(AUTO)		
			AWC (ONE PUSH) MWB (MANUAL)		
		MODE	3200K (INDOOR)		
			6500K (OUTDOOR)		
	3. White		4200K (FLUO)		
	Balance		OFF		
		SMART ATW	SMART1/2/3		
		MWB RED COMPONENT	0~128~255		
		MWB BLUE COMPONENT	0~128~255		
		ESCAPE			
	4. Focus	FOCUS MODE	AUTO		
		FOCUS IVIODE	MANUAL		
		AF SENSITIVITY	LOW		
1. Camera Set		FOCUS SPEED	NORMAL 1~4		
(Normal)			1 4		
		ESCAPE			
		IRIS MODE	AUTO IRIS		
		INIS WIODE	MANUAL		
			F1.6		
			F2.0		
			F2.4		
1			F2.8 F3.4		
			F3.4 F4		
	5. Iris		F4.8		
	J. 1113	MANUAL IRIS LEVEL	F5.6		
			F6.8		
			F8		
			F9.6		
			F11		
			F14		
1			CLOSE		
1		ESCAPE			
			AGC MODE	OFF	
1			/ IGC WIODL	ON	
	6. AGC	DAY (COLOR) ACC	MANUAL GAIN	0 dB ~ GAIN LIMIT	
		DAY (COLOR) AGC		9 dB	
			GAIN LIMIT	12 dB	
			GAIN LIMIT	15 dB	
			1	15 00	

		1		
	1			18 dB
				21 dB
	1			24 dB
				27 dB
				30 dB
				33 dB
				36 dB
				39 dB
			ESCAPE	
				ON
			DNR (AT AGC ON)	
				OFF
				0
		DATE		1
		DNR	DNR LEVEL	2
			DIVIN LEVEL	3
				4
				5
			ESCAPE	
	1	ESCAPE	1	
	7. Escape	130/11 E		
	7. Lacape		l p	
	1.5	1.50	P	
	1. Preset	1-50	T	
	Position		Z	
		51	ESCAPE	
			PRESET NO.	1~50
			ITEM ON/OFF	ON/OFF
			SPEED LIMIT	1~18
			WAITING TIME	0~180
			117111111111111111111111111111111111111	NEXT TIME
				RETURN
	2. Group – 1			GROUP – 1
		1-16		GROUP – 2
			NEXT POSITION	GROUP – 3
			MEXI I GOILLOIT	GROUP – 4
				GROUP – 5
				GROUP – 6
				GROUP – 7
				GROUP – 8
2. Memory			ESCAPE	
2	1	17. ESCAPE	1	
		17.1.200.1112	PRESET NO.	1~50
	1		ITEM ON/OFF	ON/OFF
	1			
	1		SPEED LIMIT	1~18
			WAITING TIME	0~180
				NEXT TIME
				RETURN
	1			GROUP – 1
	2 Grove 2	1-16		GROUP – 2
	3. Group – 2		NEVT DOCUTION	GROUP – 3
			NEXT POSITION	GROUP – 4
	1			GROUP – 5
				GROUP – 6
	1			
	1			GROUP - 7
	1			GROUP – 8
			ESCAPE	
		17. ESCAPE		
	4. Group – 3	1-16	PRESET NO.	1~50

l	İ	ITEM ON/OFF	ON/OFF
		SPEED LIMIT	1~18
		WAITING TIME	0~180
		W/WIIIVO IIIVIE	NEXT TIME
			RETURN
			GROUP – 1
			GROUP – 2
			GROUP – 3
		NEXT POSITION	GROUP – 4
			GROUP - 5
			GROUP – 6
			GROUP – 7
			GROUP – 8
		ESCAPE	1 0.100.
	17. ESCAPE	E3C/ (I E	
	177.2507.11.2	PRESET NO.	1~50
		ITEM ON/OFF	ON/OFF
		SPEED LIMIT	1~18
		WAITING TIME	0~180
			NEXT TIME
			RETURN
			GROUP – 1
	1-16		GROUP – 2
5. Group – 4			GROUP – 3
		NEXT POSITION	GROUP – 4
			GROUP – 5
			GROUP – 6
			GROUP – 7
			GROUP – 8
		ESCAPE	000.
	17. ESCAPE		
	17. ESCAPE	PRESET NO	1~50
	17. ESCAPE	PRESET NO.	1~50 ON/OFF
	17. ESCAPE	ITEM ON/OFF	ON/OFF
	17. ESCAPE	ITEM ON/OFF SPEED LIMIT	ON/OFF 1~18
	17. ESCAPE	ITEM ON/OFF	ON/OFF 1~18 0~180
	17. ESCAPE	ITEM ON/OFF SPEED LIMIT	ON/OFF 1~18 0~180 NEXT TIME
	17. ESCAPE	ITEM ON/OFF SPEED LIMIT	ON/OFF 1~18 0~180 NEXT TIME RETURN
		ITEM ON/OFF SPEED LIMIT	ON/OFF 1~18 0~180 NEXT TIME RETURN GROUP – 1
6. Group – 5	17. ESCAPE	ITEM ON/OFF SPEED LIMIT WAITING TIME	ON/OFF  1~18  0~180  NEXT TIME  RETURN  GROUP – 1  GROUP – 2
6. Group – 5		ITEM ON/OFF SPEED LIMIT	ON/OFF  1~18  0~180  NEXT TIME  RETURN  GROUP - 1  GROUP - 2  GROUP - 3
6. Group – 5		ITEM ON/OFF SPEED LIMIT WAITING TIME	ON/OFF  1~18  0~180  NEXT TIME  RETURN  GROUP - 1  GROUP - 2  GROUP - 3  GROUP - 4
6. Group – 5		ITEM ON/OFF SPEED LIMIT WAITING TIME	ON/OFF  1~18  0~180  NEXT TIME  RETURN  GROUP – 1  GROUP – 2  GROUP – 3  GROUP – 4  GROUP – 5
6. Group – 5		ITEM ON/OFF SPEED LIMIT WAITING TIME	ON/OFF  1~18  0~180  NEXT TIME  RETURN  GROUP - 1  GROUP - 2  GROUP - 3  GROUP - 4  GROUP - 5  GROUP - 6
6. Group – 5		ITEM ON/OFF SPEED LIMIT WAITING TIME	ON/OFF  1~18  0~180  NEXT TIME  RETURN  GROUP - 1  GROUP - 2  GROUP - 3  GROUP - 4  GROUP - 5  GROUP - 6  GROUP - 7
6. Group – 5		ITEM ON/OFF SPEED LIMIT WAITING TIME	ON/OFF  1~18  0~180  NEXT TIME  RETURN  GROUP - 1  GROUP - 2  GROUP - 3  GROUP - 4  GROUP - 5  GROUP - 6
6. Group – 5		ITEM ON/OFF SPEED LIMIT WAITING TIME  NEXT POSITION	ON/OFF  1~18  0~180  NEXT TIME  RETURN  GROUP - 1  GROUP - 2  GROUP - 3  GROUP - 4  GROUP - 5  GROUP - 6  GROUP - 7
6. Group – 5	1-16	ITEM ON/OFF SPEED LIMIT WAITING TIME  NEXT POSITION	ON/OFF  1~18  0~180  NEXT TIME  RETURN  GROUP - 1  GROUP - 2  GROUP - 3  GROUP - 4  GROUP - 5  GROUP - 6  GROUP - 7
6. Group – 5	1-16	ITEM ON/OFF SPEED LIMIT WAITING TIME  NEXT POSITION  ESCAPE	ON/OFF  1~18  0~180  NEXT TIME  RETURN  GROUP - 1  GROUP - 2  GROUP - 3  GROUP - 4  GROUP - 5  GROUP - 6  GROUP - 7  GROUP - 8
6. Group – 5	1-16	ITEM ON/OFF SPEED LIMIT WAITING TIME  NEXT POSITION  ESCAPE  PRESET NO.	ON/OFF  1~18  0~180  NEXT TIME  RETURN  GROUP - 1  GROUP - 2  GROUP - 3  GROUP - 4  GROUP - 5  GROUP - 6  GROUP - 7  GROUP - 8
6. Group – 5	1-16	ITEM ON/OFF SPEED LIMIT WAITING TIME  NEXT POSITION  ESCAPE  PRESET NO. ITEM ON/OFF	ON/OFF  1~18  0~180  NEXT TIME  RETURN  GROUP - 1  GROUP - 2  GROUP - 3  GROUP - 4  GROUP - 5  GROUP - 6  GROUP - 7  GROUP - 8
	1-16 17. ESCAPE	ITEM ON/OFF SPEED LIMIT WAITING TIME  NEXT POSITION  ESCAPE  PRESET NO. ITEM ON/OFF SPEED LIMIT	ON/OFF  1~18  0~180  NEXT TIME  RETURN  GROUP - 1  GROUP - 2  GROUP - 3  GROUP - 4  GROUP - 5  GROUP - 6  GROUP - 7  GROUP - 8  1~50  ON/OFF  1~18  0~180
6. Group – 5 7. Group – 6	1-16	ITEM ON/OFF SPEED LIMIT WAITING TIME  NEXT POSITION  ESCAPE  PRESET NO. ITEM ON/OFF SPEED LIMIT	ON/OFF  1~18  0~180  NEXT TIME  RETURN  GROUP – 1  GROUP – 2  GROUP – 4  GROUP – 5  GROUP – 6  GROUP – 7  GROUP – 8  1~50  ON/OFF  1~18  0~180  NEXT TIME
	1-16 17. ESCAPE	ITEM ON/OFF SPEED LIMIT WAITING TIME  NEXT POSITION  ESCAPE  PRESET NO. ITEM ON/OFF SPEED LIMIT WAITING TIME	ON/OFF  1~18  0~180  NEXT TIME  RETURN  GROUP - 1  GROUP - 2  GROUP - 3  GROUP - 4  GROUP - 5  GROUP - 6  GROUP - 7  GROUP - 8  1~50  ON/OFF  1~18  0~180  NEXT TIME  RETURN
	1-16 17. ESCAPE	ITEM ON/OFF SPEED LIMIT WAITING TIME  NEXT POSITION  ESCAPE  PRESET NO. ITEM ON/OFF SPEED LIMIT	ON/OFF  1~18  0~180  NEXT TIME  RETURN  GROUP - 1  GROUP - 2  GROUP - 3  GROUP - 4  GROUP - 5  GROUP - 6  GROUP - 7  GROUP - 8  1~50  ON/OFF  1~18  0~180  NEXT TIME  RETURN  GROUP - 1
	1-16 17. ESCAPE	ITEM ON/OFF SPEED LIMIT WAITING TIME  NEXT POSITION  ESCAPE  PRESET NO. ITEM ON/OFF SPEED LIMIT WAITING TIME	ON/OFF  1~18  0~180  NEXT TIME  RETURN  GROUP - 1  GROUP - 2  GROUP - 3  GROUP - 4  GROUP - 5  GROUP - 6  GROUP - 7  GROUP - 8  1~50  ON/OFF  1~18  0~180  NEXT TIME  RETURN  GROUP - 1  GROUP - 2
	1-16 17. ESCAPE	ITEM ON/OFF SPEED LIMIT WAITING TIME  NEXT POSITION  ESCAPE  PRESET NO. ITEM ON/OFF SPEED LIMIT WAITING TIME	ON/OFF  1~18  0~180  NEXT TIME  RETURN  GROUP - 1  GROUP - 2  GROUP - 3  GROUP - 4  GROUP - 5  GROUP - 6  GROUP - 7  GROUP - 8  1~50  ON/OFF  1~18  0~180  NEXT TIME  RETURN  GROUP - 1

Ī	I	İ	I	CDOUD 5
				GROUP - 5
				GROUP - 6
				GROUP - 7
			ECCAPE.	GROUP – 8
		17 FCCARE	ESCAPE	
		17. ESCAPE	DDECET NO	1~50
			PRESET NO. ITEM ON/OFF	
				ON/OFF
			SPEED LIMIT	1~18
			WAITING TIME	0~180
				NEXT TIME RETURN
		1.16		GROUP - 1
	8. Group – 7	1-16		GROUP - 2
			NEXT POSITION	GROUP - 3
				GROUP - 4
				GROUP - 5
				GROUP - 6
				GROUP - 7
			ECCARE	GROUP – 8
		17. ESCAPE	ESCAPE	
		17. LJCAFL	PRESET NO.	1~50
			ITEM ON/OFF	ON/OFF
			SPEED LIMIT	1~18
		1-16	WAITING TIME	0~180
				NEXT TIME
				RETURN
				GROUP – 1
				GROUP – 2
	9. Group – 8			GROUP – 3
			NEXT POSITION	GROUP – 4
				GROUP – 5
				GROUP – 6
				GROUP – 7
				GROUP – 8
			ESCAPE	
		17. ESCAPE		
	10. Escape	<u> </u>		
		BY MENU		
	1. Selection Way	BY SWITCH		
		1080i60		
		1080i50		
		720p60		
		720p50 720p50		
	2. Video Mode	1080p30		
3. Video		1080p35		
Output		1080p60		
		1080p50		
		16:9		
	3. CV Mode	4:3		
		OFF OFF		
	4. Pattern	COLOR BAR		
	5. Escape		1	1
4.5	1. PAN/TILT	OFF		
4. Remote	Reverse	P		
L	_	<u> </u>		L.

Control	7	Т		
Control		P+T		
	2. Remote Source	RS-422, SW (Configurable using bottom DIP switch ONLY)		
		CAMERA ID MODE	BY MENU BY SWITCH	
		CAMERA ID	1~7	
		CAMERA ID		
	3. Set RS-422		9600	
		RS-422 BAUD RATE	19200	
			38400	
		FCCARE	115200	
		ESCAPE	0000	1
			9600	
		D. //D DALID DATE	19200	
	4. Set DVIP	DVIP BAUD RATE	38400	
			57600	
			115200	
		ESCAPE	Г	1
	5. Set IR	IR GROUP ID (Configurable using rear DIP switch ONLY)	CAM1~4	
		ESCAPE	Г	1
1	6. PTZ INFO.	ON/OFF		
	Output	2.1, 2.1		
	7. Escape			
			PAN OSD	ON/OFF
		P/T/Z OSD	TILT OSD	ON/OFF
		, , , , , ,	ZOOM OSD	ON/OFF
			ESCAPE	
			DEBUG IR OSD	ON/OFF
			DEBUG CAM. OSD	ON/OFF
	1. Display		DEBUG RS-422 OSD	ON/OFF
			DEBUG DVIP OSD	ON/OFF
		DEBUG OSD	DEBUG M_CTL OSD	ON/OFF
		DEBUG REG OSD DEBUG FRAME NO	ON/OFF	
				ON/OFF
			PWR ON CAM TEST ON/OFF	ON/OFF
			ESCAPE	1
		PAN torque ADJ	LOW	
			+1~+5	
5. System		TILT torque ADJ	LOW	
		to:que /.b3	+1~+5	
			+5.4	
			+4.5	
			+3.6	
			+2.7	
	2. Set Motor		+1.8	
	2. Set Motor		+0.9	
1		PAN offset ADJ	0.0	
			-0.9	
1			-1.8	
			-2.7	
			-3.6	
			-4.5	
			-5.4	
		TILT offset ADJ	+6.3	
	-L			

	1	1	.54	
			+5.4	
			+4.5	
			+3.6	
			+2.7	
			+1.8	
			+0.9	
			0.0	
			-0.9	
			-1.8	
			-2.7	
			-3.6	
			-4.5	
			-5.4	
			-6.3	
		ESCAPE	•	
		RED/GREEN		
		GREEN		
	3. Tally Light			+
		RED		-
		OFF		ļ
	4. Reset All	YES/NO		
		SW VERSION	ESCAPE	
		MB CPU	V01.17i	
	5. Update	MB FPGA	V017	
	Software	MCTL CPU	V00.42	
	oo.ca.c	UPDATE ALL	YES/NO	
		ESCAPE	123/140	1
	C 5	ESCAPE		
	6. Escape	T		
		NAME		
		DISPLAY SW	ON/OFF	
	1. Camera Name		UPPER LEFT	
			LOWER LEFT	
		POSITION	UPPER RIGHT	
			LOWER RIGHT	
		FCCADE	20.7211110111	1
		ESCAPE		
		H+V		
	2 Minns :	V		
	2. Mirror	Н		
		OFF		
			AWB (AUTO)	
			AWC (ONE PUSH)	1
6. Camera Set (ADVANCE)				+
		MODE	MWB (MANUAL)	
		1	3200K (INDOOR)	ļ
			6500K (OUTDOOR)	
	2 11/1:2		4200K (FLUO)	
	3. White	SMART ATW		
	3. White Balance	(Enabled in AWB (AUTO)	4200K (FLUO)	
			4200K (FLUO) OFF	
		(Enabled in AWB (AUTO) mode)	4200K (FLUO)  OFF  SMART1~3	
		(Enabled in AWB (AUTO) mode)  MWB RED COMPONENT	4200K (FLUO)  OFF  SMART1~3  0~128~255	
		(Enabled in AWB (AUTO) mode)  MWB RED COMPONENT  MWB BLUE COMPONENT  ESCAPE	4200K (FLUO)  OFF  SMART1~3  0~128~255  0~128~255	
	Balance	(Enabled in AWB (AUTO) mode)  MWB RED COMPONENT  MWB BLUE COMPONENT	4200K (FLUO)  OFF  SMART1~3  0~128~255  0~128~255	
		(Enabled in AWB (AUTO) mode)  MWB RED COMPONENT  MWB BLUE COMPONENT  ESCAPE	4200K (FLUO)  OFF  SMART1~3  0~128~255  0~128~255  AUTO  MANUAL	
	Balance	(Enabled in AWB (AUTO) mode)  MWB RED COMPONENT  MWB BLUE COMPONENT  ESCAPE	4200K (FLUO)  OFF  SMART1~3  0~128~255  0~128~255	

			1	
		FOCUS SPEED	2	
			3	
			4	
		ESCAPE		
			AUTO	
		IRIS MODE	MANUAL	
			F1.6	
				ON/OFF  OdB~GAIN LIMIT  9 dB  12 dB  15 dB  18 dB  21 dB  24 dB  27 dB  30 dB  33 dB  36 dB
			F2.0	
			F2.4	
			F2.8	
			F3.4	
			F4	
	5. Iris		F4.8	
	J. 1113	Manual IRIS LEVEL	F5.6	
			F6.8	
			F8	
			F9.6	
				+
			F11	
			F14	
			CLOSE	
		ESCAPE		
				1 .
			AGC MODE	ON/OFF
				OdB~GAIN
			MANUAL GAIN	
		DAY (COLOR) AGC		LIMIT  9 dB  12 dB  15 dB  18 dB  21 dB  24 dB  27 dB
		DAY (COLOR) AGC	21 dB	
			GAIN LIMIT 24 dB	24 dB
		]	27 dB	
				30 dB
	6. AGC			
				36 dB
				39 dB
			ECCARE	35 UD
		-	ESCAPE	_
			DNR(AT AGC ON)	ON
			DIVINIAL AGE OIV)	OFF
				0
				1
		DNR		2
			DNR LEVEL	
				3
				4
				5
		ESCAPE		
	7. Fog	FOG CORRECTION	OFF/ON	
	Correction	ESCAPE		
	8. Aperture	0~15		
	9. Vivid Effect	0~14		
	10. Pedestal Effect	0~14		
	11. Backlight	OFF/ON		
	Correction	(This option is enabled		
		I TIME OPTION IS CHARICU	i e	1

		after AGC is turned on)		
	12. Day/Night	B/W		
	Mode	COLOR		
			NORMAL	
			1/100	
		SHUTTER SPEED	1/125	
	13. Shutter	SHOTTERSTEED	1/250	
	15. Shatter		1/500	
			1/1000	
		ESCAPE		
	14. Gamma Mode	STANDARD MODE1 (WD OFF) MODE2 (WD OFF) MODE3 (WD OFF) MODE4 (WD OFF)		
	15. WD Mode	ON/OFF (This option is enabled after AGC is turned on)		
	16. Escape			
7. Reset P/T/Z	Reset P/T/Z	YES/NO		
8. Escape	•			

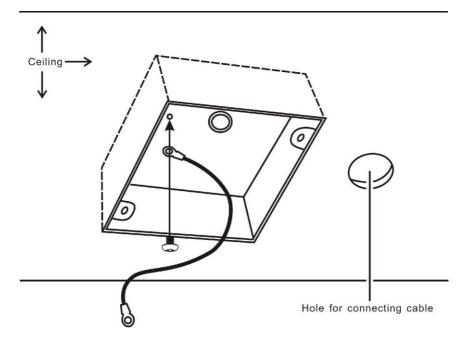
### 6. Instruction for installation

### Step 1 – DIP Switch Setting

Set the Mirror option to H+V mode.

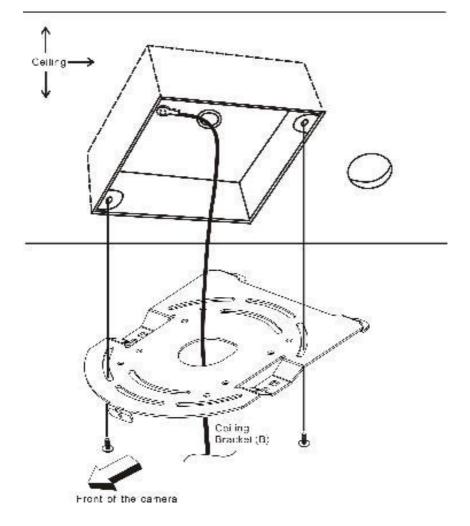
### Step 2 - One End of Retaining Wire

Attach the retaining wire to the junction box mounted on the ceiling by screwing one end of the retaining wire into a screw hole in the junction box with a screw (not supplied) as shown in the diagram below.



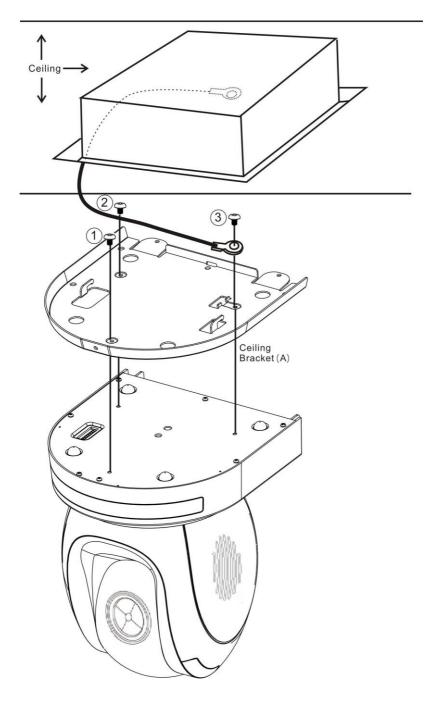
### Step 3 - Ceiling Bracket (B)

- Again, as illustrated in the diagram below, screw a ceiling bracket (B) into the junction box mounted on the ceiling.
- Make sure the screw holes of the ceiling bracket (B) are aligned with the holes on the junction box.

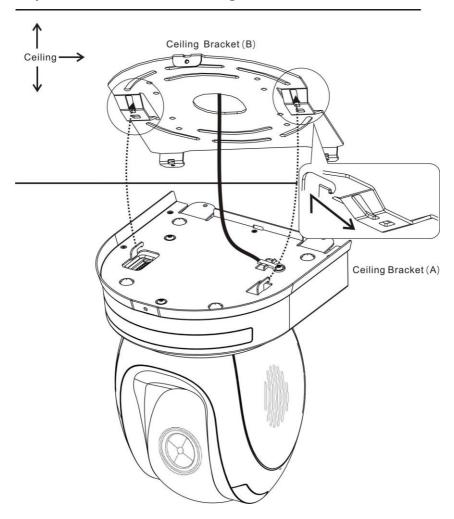


# Step 4 - Ceiling Bracket (A) and Camera

- Screw ceiling bracket (A) into the bottom of the camera using three screws.
- Position the screws as shown in the diagram below.
- Align the screw holes on the bottom of the camera with those in the ceiling bracket.
- Insert the screws into the corresponding screw holes in the numbered order.
- The other end of the retaining wire is screwed into the screw hole #3.
- Securely tighten all three screws.

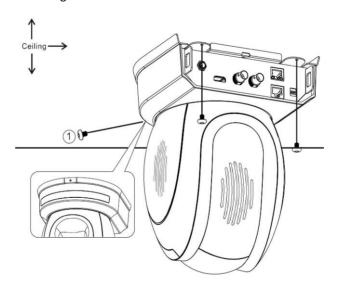


**Step 5 – Mount Camera to Ceiling** 



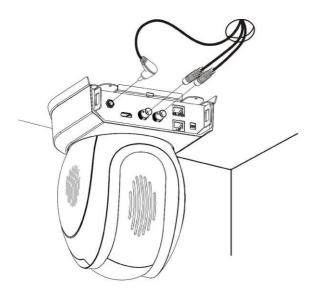
### Step 6 - Screw to Fix Camera

Fix the camera by screwing three screws into the corresponding screw holes as shown in the diagram below.



# **Step 7 – Cable Connection**

Connect the cables to the connectors located on the rear of the camera.



# 7. DIP Switch Settings

### 7.1DIP Switch SW1

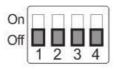
The DIP Switch SW1 can be found at the bottom of the camera, where the user is allowed to set the camera's VISCA ID, enable remote control, select the video resolution, and configure how the video mode can be selected.



DIP SW 1/2/3	VISCA ID
(1,2,3) = (ON,OFF,OFF)	VISCA-ID 1
(1,2,3) = (OFF,ON ,OFF)	VISCA-ID 2
(1,2,3) = (ON ,ON ,OFF)	VISCA-ID 3
(1,2,3) = (OFF,OFF,ON)	VISCA-ID 4
(1,2,3) = (ON ,OFF,ON)	VISCA-ID 5
(1,2,3) = (OFF,ON ,ON)	VISCA-ID 6
(1,2,3) = (ON ,ON ,ON)	VISCA-ID 7
DIP SW 4	Remote Control Protocol
ON	DVIP
OFF	RS-422
DIP SW 5/6/7	Resolution
(5,6,7) = (OFF,OFF,OFF)	1920x1080i60
(5,6,7) = (ON,OFF,OFF)	1920x1080i50
(5,6,7) = (OFF,ON,OFF)	1280x720p60
(5,6,7) = (ON,ON,OFF)	1280x720p50
(5,6,7) = (OFF,OFF,ON)	1920x1080p30
(5,6,7) = (ON,OFF,ON)	1920x1080p25
(5,6,7) = (OFF,ON,ON)	1920x1080p60
(5,6,7) = (ON,ON,ON)	1920x1080p50
DIP SW 8	Video Mode Selection Method
ON	Video mode selectable by DIP switch only
OFF	Video mode selectable by menu

# 7.2DIP Switch SW2 (IRID)

The IRID DIP Switch can be found on the rear panel of the PTC-150/PTC-150W camera. This DIP switch allows the user to assign an ID number to the camera so that the user can navigate between the cameras by pressing the **CAMERA SELECT** buttons.



DIP SW 1/2	Camera Select Function (IR Remote Control) – Camera ID Assignment	
(1,2) = (OFF,OFF)	CAM1 (IR)	
(1,2) = (ON,OFF)	CAM2 (IR)	
(1,2) = (OFF,ON)	CAM3 (IR)	
(1,2) = (ON,ON)	CAM4 (IR)	
* DIP SW 3/4 should be always OFF.		

# 8. Network Configuration

The DVIP Configuration Tool allows the user to configure network settings of the PTC series cameras on the PC. The DVIP Configuration Tool can be downloaded from the product page.

The PTC series cameras usually have a static IP address of 192.168.100.XXX.

The unit can be directly connected to a Windows-based computer using an RJ-45 Ethernet cable. The following setup procedure outlined below should allow you to initially configure the unit before moving it to an existing DHCP / LAN network.

Note: All devices should be connected to the same network domain.

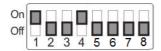
- First connect the DVIP port of the PTC-150/PTC-150W PTZ camera to a Windows computer using an RJ-45 Ethernet cable.
  - Note: You do not need to manually assign an IP address to the PC but make sure the right interface card is selected at Step 11.
- 2. Install the DVIP Configuration Tool by double clicking the executable file already downloaded to your computer.



3. Locate the DIP switch at the bottom of the PTC series camera.



4. Set DIP Switch positions 1 and 4 to ON.



- 5. Plug in the power cord into the PTC series camera and connect it to a monitor via the HDMI interface.
- 6. Open the main menu by pressing the menu button on the IR remote control and select option 4 "Remote Control."

### [MAIN MENU]

- 1: CAMERA SET (NORMAL)
- 2: MEMORY
- 3: VIDEO OUTPUT
- 4: REMOTE CONTROL

- 5: SYSTEM
- 6: CAMERA SET (ADVANCE)
- 7: RESET P/T/Z
- 8: ESCAPE
- 7. Select "SET DVIP."

### [REMOTE CONTROL]

- 1: PAN/TILT REVERSE: P+T
- 2: REMOTE SOURCE: DVIP, SW
- 3: SET RS422
- 4: SET DVIP
- 5: SET IR
- 6: PTZ INFO. OUTPUT: OFF
- 7: ESCAPE
- Set **DVIP baud rate** to 115200.

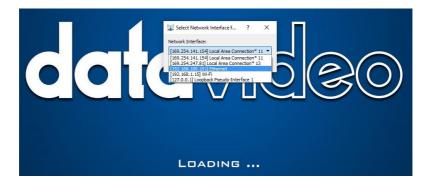
### [SET DVIP]

- 1: DVIP BAUDRATE: 115200
- 2: ESCAPE
- Connect your PC directly to the DVIP port on the PTC series camera or if in a multiple DVIP device environment, connect all devices to an Ethernet router. Please note that the router and the connected devices should be in the same IP range.
- 10. On the PC, open the DVIP Configuration Tool by double clicking "DVIP\_Net\_Conf.exe." The DVIP Configuration Tool can be obtained from Datavideo local distributors or downloaded from the product page.

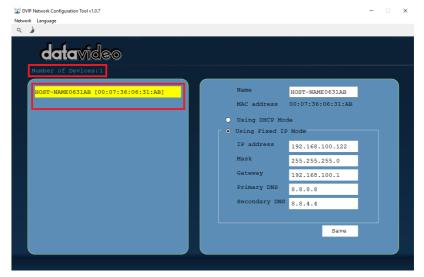


11. After the DVIP Configuration Tool is opened, select your network interface card and click the "**OK**" button.

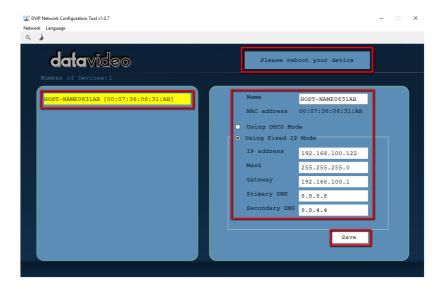
Note: Make sure you select the card that is on the same network as the camera or else the DVIP Configuration Tool will not be able to find the connected DVIP devices.



12. On the DVIP Device List, you will then be able to see the Device Name, MAC address and IP address of the connected device.



- 13. After the network setting (Static or DHCP) and the host name are properly configured, click the "Save" button to write the new information into the device.
- 14. Right after the "Save" button is clicked, you will be able to see a prompt message at the top right corner to request for a device reboot for the new settings to become effective.



#### 15. Reboot the device to apply the new settings.

In addition to configuring network settings of the connected DVIP devices, the DVIP configuration tool also allows you to search for DVIP devices, clear the device list, switch to other interface cards and change the interface language. Each individual function is described below.

#### Device Search

On the tool bar, the user can click the search icon to search for all DVIP devices.



#### Clearing Device List

On the tool bar, the user is allowed to clear the device list by clicking the "Device List Clear" button.



#### Switch to Other Network Interfaces

To select other network interface cards, click Network → Network Card



### • Language Selection

On the tool bar, select a language: **Traditional Chinese**, **Simplified Chinese** or **English** 



### 9. RMC-180 PTZ Camera Control Unit

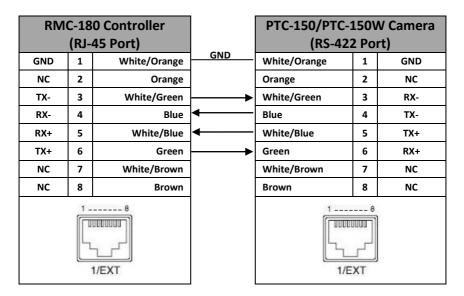
The RMC-180 PTZ Camera Controller is designed to control up to 4 Datavideo Pan Tilt Zoom (PTZ) cameras such as the PTC-150/PTC-150W.

The four RJ-45 ports provided on the RMC-180 rear serve to connect PTZ cameras, thus allowing the user to use any RJ-45 cable to connect the RMC-180 to the RS-422 port located on the PTZ camera's rear panel. The communication protocol is VISCA.

Note: Before connecting the camera to these channel ports, please set bit 4 of the camera DIP switch located at the bottom to OFF.

### **Direct Connection to Camera**

To use the RMC-180 PTZ Camera Control Unit to directly control the PTC-150/PTC-150W camera, connect the RS-422 port on the camera's rear panel to the RJ-45 port of the RMC-180 using any RJ-45 cable. The RS-422 wiring scheme is shown below.



# 10. Firmware Update

- Copy three image files, p150mcpu.bin, P150FPGA.bin and p150mctl.bin, into the root directory of a USB hard drive (<16 GB) and insert it into the USB port of PTC-150/PTC-150W (You may also use USB extension cord).
- Open the operation menu of IR remote controller (select from CAM 1-4; default is CAM1)
- 3) Main Menu

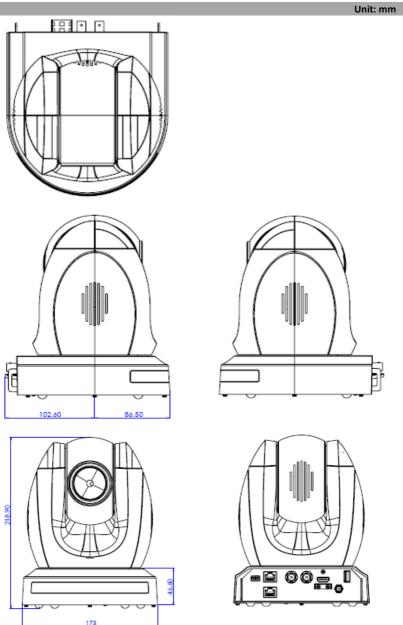
```
=> 5: SYSYEM
=> 4: UPDATE SOFTWARE
=> 5: UPDATE ALL
=>YES
=> ENTER
```

- 4) Wait for another five minutes until the following lines appear on the screen
  - Updated Mot-BD=>OK.
  - Updated FPGA =>OK.
  - Updated MCPU =>OK

The OSD will flash "Write OK/Power ON Again" alternately; it takes approximately 5-7 minutes to complete the update.

- 5) Turn off the device by unplugging the power cord and plug the power cord back into the socket to turn on the device again.
- 6) FW Update is complete.

# 11. Dimensions



# 12. Specifications

Video		
Image Pickup Element	1/2.8" type progressive scan CMOS sensor	
<b>Effective Picture Elements</b>	Approx. 2.14 Mega pixels	
Resolution	HD / FHD / SD (CVBS only)	
Signal System	HDMI & SDI: 1080p 59.94/50/29.97/25 1080i 59.94/50 720p 59.94/50 CVBS: 480i, 576i	
S/N Ratio	50 dB	
Min. Illumination	Color : 0.4 lx (F1.6, 1/30 sec, 50IRE, Gain: High) B/W : 0.03 lx (F1.6, 1/30 sec, 50IRE, Gain: High)	
Electric Shutter	1/25 (1/30), 1/50 (1/60), 1/120 (1/100), 1/250, 1/500, 1/1000 sec	
Gamma Control	Off / Normal / Standard Mode 1-4	
Iris Control	Auto / Manual	
Digital Noise Reductions	0 - 5	
On-Screen Display (OSD)	English	
White Balance	AWB / MWB / One push WB / Outdoor / Indoor / Fluorescent	
AGC / Gain Control	Auto / Manual (0 to 39 step) Max. Gain Limit (9 to 39 step)	
Zoom Ratio	30x Optical Zoom	
Mirror	OFF / Horizontal / Vertical / H+V	
Camera Title (OSD)	ON / OFF	
Color Bar	On / Off (Full Bar)	
Focus Mode	Auto / Manual	
Day & Night (IR)	Auto / Color / BW	
	Pan / Tilt / Zoom	
Pan/Tilt Range	Pan: 270°, Tilt: +90° to -20°	
Pan/Tilt Speed	Manual: 1~150°/Sec Swing: 1~150°/Sec	
Initialization Time	30 sec	
Coordinate Report	P, T, Z (While Panning , Tilting and Zooming ) by frame	

Lens			
Lens Type	30x Optical Zoom		
Focal Length	F=4.3 mm (WIDE) to 129 mm (TELE) F1.6 to F4.7		
Angle of View (Horizontal)	Approx. 63.7 degrees (WIDE END) / 2.3 degrees (TELE END)		
Filter	M52.0x0.75 Thread with UV Protection		
RoHS	Compliant		
Video Output			
Video Output	HDMI (V1.3) x 1 HD-SD-SDI x 1 CVBS x 1		
Video Format Output	1 Vp-p / 75 Ohms		
	Control		
Protocol	VISCA / DVIP		
Remote Control	RS-422 & DVIP by RJ-45 interface		
Remote Controller	RMC-180		
F/W Update	USB 2.0		
IR Control	One IR controller		
	Others		
Moving Noise while Tilt	<=25dB		
Moving Noise while Pan	<=25dB		
Operating Temperature	0°C ~ 50°C		
Storage Temperature	- 10°C ~ 60°C		
Operating Humidity:	10 % to 80 % (no condensation)		
Certifications	CE / FCC Class A		
Weight	2.76 Kg (Camera Device Only)		
Accessories	IR Remote Controller Mounting Bracket (for table or ceiling) Mounting Bracket (for main unit) Mounting Screws DC 12V Power Adapter Power Cord		

# Note

# Note

# **Service & Support**

It is our goal to make owning and using Datavideo products a satisfying experience. Our support staff is available to assist you to set up and operate your system. Contact your local office for specific support requests. Plus, please visit www.datavideo.com to access our FAQ section.

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