

### HDMI Output Frame Rate Change and OSD Setting

Series 2

Adapt Models: Rugby, Mini Z10TIR, Mini Z10TIR-35, Q10TIR-35, Z10TIRM, WK10TIRM Software: PL Cloud Platform Control V1.7

### 1. Connect computer and gimbal serial port by a USB to TTL cable

1) Connection method:

USB to TTL cable GND ------ Gimbal GND (as shown in below image)

USB to TTL cable TX ------ TX (printed on Viewpro gimbal controller Z-3D)

USB to TTL cable RX ------ RX (printed on Viewpro gimbal controller Z-3D)

Diagram:

TTL 3.3v UART baud : 115200/9600(some version), 8/1/N, HEX



2) The USB to TTL cable connecting photo (Red 5V, Black GND, White RXD, Green TXD)



Install Software "PL Cloud Platform Control V1.7", start it.

2. Test connection:



- 1) Power on the gimbal camera. Select the current port COM(X);
- 2) Click the "Enlarge", then camera lens zoom, picture zoom, connecting well.

1/0 10	COW3	•	115200	•	NOPARITY	•	Fog ON	•	1080p/25	•	
	STATUS	COMS NOT OPEN	(ED				Steady ON	•			
Tracking c Cross wi	ontrol	ol 💌	0:visible ligh	t+Infı	OK	OSD settings □ Hide OSD □ Hide c □ All States display t	ross fram∈	PS 2017	Year 1 Hour 0	Nonth 1 Ninute 0	Day Sec
LEFT	UP 1	X: 0 RIGHT	Adaptive templa	te T	OK	☐ Hiding time ☐ Hidd ☐ Save the OSD setting ☐ Time input ☐ Small ☐ CPS is relative coor	en field of view parameters font   GPS input dinate   Hide att	Heading angle Pitching angle Roll angle itude angle	0 0 0	GPS_N 41.7066 GPS_E 123.441 GPS_H 0	043096: 461514:
OK		Y: 0 CANCEL	Stall shutter	Exit tra	cking	☐ Cloud platform angle ☐ Field angle display 	input ∏ Hide cha ∏ Field / ampli	racter border fier input	Core se	lection _▼ D settings	]
∏ Net	work erlaced	Vide∘ leng scan	th 600 Single capture	Start Stop	storage storage	Alarm temperature 0 Temperature bar High temperature		eenent C Private © VISCA	Narrow	3	- ]

#### 3. Change the HDMI output frame rate to 1080p30 as following steps:

- 1) Select the correct COM port, the baud rate is 115200, without test;
- 2) Select 1080i/59.9
- 3) Select the required OSD options, can be selected same as the following pictures if no

specific requirements.

- 4) Select SONY7520
- 5) Click OSD settings

I/O ID COM2  I/O I	Fog DN         I0801/59.94           Steady DN
Tracking control Cross wire control 0:visible light+Inf OK	OSD settings 3. Hide OSD T Hide cross fram. T Hide GFS 2017 Year I Month I Day All States display the miss distance and state 0 How 0 Minute Second
UP X: 0 Pseudo colo LEFT I RIGHT Adaptive template • OK	It iding time       Hidden field of view       Heading angle       0       GFS_N       41.7068043096186         Image: Save the OSD setting parameters       Pitching angle       0       GFS_E       123.441461514225         Time input       Small font       GFS input       Roll angle       0       GFS_H       0
DOWN Y: 0 Froren Thaw OK CANCEL Stall shutter Exit tracking	GPS is relative coordinate
☐ Network Video length 600 Start storage ☐ Interlaced scan Single capture Stop storage	Imperature measurement     Zoom       Alarm temperature     0       Temperature bar     0K
81-01-04-24-72-00-01-ff-80-41-ff-80-51-ff	Kigh temperature     Image: Wisch is the second secon

## **O** Viewpro

### 4. According to step 4, select different option in 4.2) to have different HDMI output frame rate.

Different frame rate options in 4. 2) and according HDMI output frame rates please refer to below table:

4.2)	HDMI output				
1080i/59.94	1080p/30				
1080i/60	1080p/25				
1080p/30	1080p/60				
1080p/25	1080p/50				

#### 5. OSD show or hide setting

1) Select the items that need to be displayed on the OSD, check **Save the OSD setting parameters**, and click OSD settings

T/0 TD COM2 - 115200 - NOPARTY	
	Fog UN
STATUS: COM2 OPENED, 115200, N, 8, 1	Steady ON
Fracking control	OSD settings
	☐ Hide OSD ☐ Hide cross frame 🔽 Hide GPS 2017 Year 1 Month 1 Day
Cross wire control V 0: visible light+Inf V 0K	All States display the miss distance and state 0 Hour 0 Minute 0 Sec
	F Willing time E Willing Gold of mine
UP X: 0	Hunng time   Hidden Field of View Heading angle  0 GPS_N  41.70860430961
Adaptive template V OK	Save the OSD setting parameters Pitching angle 0 GPS_E 123.4414615142
LEFT A RIGHT	Time input Small font GPS input Roll angle O GPS_H O
DOWN Y: 0 Frozen Thaw	GPS is relative coordinate 🗌 Hide attitude angle
	▼ Cloud platform angle input ▼ Hide character border
or current Stall shuttay Reit tracking	☐ Field angle display 🔽 Field / amplifier input OSD settings
Network Video length 600 Start storage	Temperature measurement Zoom
	Alarm temperature 0 Agreement
☐ Interlaced scan Single capture Stop storage	Temperature bar OK C Private
	THigh temperature VISCA Narrow Enlarge
	Low temperature

2) Hide all OSD: Select the options below shown, and click OSD settings, OSD hided

# **O** Viewpro

- 1/0			1			-				
I/O ID	COM2	<u> </u>	115200	- NOPAF		Fog ON	•	1080i/59.94	-	
	STATUS: 0	COM2 OPENED, 1	15200, N, 8, 1			Steady ON	•			
Tracking c	ontrol				OSD settings					
Cross wi	re control	•	0:visible light	+Inf _ OK	✓ Hide OSD ▼ Hide com ▲ All States display t	ross fram« 🔽 Hide GPS he miss distance and sta	2017 ate 0	Year 1 Hour 0	Month 1 Minute 0	Day Sec
	vr	x: 0	│ Pseudo c	olo	🔽 Hiding time 🔽 Hidde	m field of view Hea	ding angle 🛛	GPS	5_N 41.706604	130961
LEFT	1	LIGHT	Adaptive templa	te 💌 OK	✓ Save the USD setting □ Time input □ Small	parameters Pit font   GPS input Rol	ching angle 🛛	GPS	<u>Е</u> 123.44146 но	615142
	DOWN	Y: 0	Frozen	Thaw	☐ GPS is relative coor ☐ Cloud platform angle	dinate 🔽 Hide attitud input 🔽 Hide charact	le angle ter border	Sony7520	<u> </u>	
OK		CANCEL	Stall shutter	Exit tracking	☐ Field angle display	☐ Field / amplifier	input	OSD se	ttings	
∏ Net	work	Video lengtl	h  600	Start storage	Temperature measurement	Zoom	ent			
□ Int	erlaced so	an	Single capture	Stop storage	Temperature bar	OK C Pa	rivate			
		-			Low temperature	€ VI	ISCA	Narrow	Er	large
		-	]		High temperature ☐ Low temperature	€ VI	ISCA	Narrow	Er	larg

Note: Each time power on the payload, check **Save the OSD setting parameters**, and click **OSD settings button**, you can only save the settings once. Clicking on the OSD settings again will not save one more time. To save new settings, you need to restart the payload.