

PTR-10 VISCA Extension Command V0.6

MAY 24, 2022

Model: PTR-10,PTR-10T

Menu function Command List

Command Set	Command	Command Packet	Comments
Set motor P/T Acceleration	reset	8x 01 44 31 02 01 01 00 FF	10=auto, 00=fast, 01=middle, (Default) 02=slow
	up	8x 01 44 31 02 01 01 02 FF	
	down	8x 01 44 31 02 01 01 03 FF	
Set motor P/T speed mode	reset	8x 01 44 31 02 02 01 00 FF	0=normal, (Default) 1=Auto, 2=Sport
	up	8x 01 44 31 02 02 01 02 FF	
	down	8x 01 44 31 02 02 01 03 FF	
Set motor PAN Torque ADJ.	reset	8x 01 44 31 02 03 01 00 FF	0=low, 1=+1, (Default) 2=+2, 3=+3
	up	8x 01 44 31 02 03 01 02 FF	
	down	8x 01 44 31 02 03 01 03 FF	
Set motor PAN offset ADJ.	reset	8x 01 44 31 02 03 02 00 FF	00~06, default=00 Offset=(p*0.9) degree
	up	8x 01 44 31 02 03 02 02 FF	
	down	8x 01 44 31 02 03 02 03 FF	
Set motor PAN _MIN_LIMIT	reset	8x 01 44 31 02 03 03 00 FF	0~175(DEC.) (-) Default=170 (-)
	up	8x 01 44 31 02 03 03 02 FF	
	down	8x 01 44 31 02 03 03 03 FF	
Set motor PAN_MAX_LIMIT	reset	8x 01 44 31 02 03 04 00 FF	0~175(DEC.) (+) Default=170 (+)
	up	8x 01 44 31 02 03 04 02 FF	
	down	8x 01 44 31 02 03 04 03 FF	
Set motor TILT Torque ADJ.	reset	8x 01 44 31 02 04 01 00 FF	0=low, 1=+1, (Default) 2=+2, 3=+3
	up	8x 01 44 31 02 04 01 02 FF	
	down	8x 01 44 31 02 04 01 03 FF	
Set motor TILT offset ADJ.	reset	8x 01 44 31 02 04 02 00 FF	00~07, default=03 Offset=(p*0.9) degree
	up	8x 01 44 31 02 04 02 02 FF	
	down	8x 01 44 31 02 04 02 03 FF	
Set motor TILT_MIN_LIMIT	reset	8x 01 44 31 02 04 03 00 FF	0~45(DEC.) (-) Default=43 (-)
	up	8x 01 44 31 02 04 03 02 FF	
	down	8x 01 44 31 02 04 03 03 FF	

Set motor TILT_MAX_LIMIT	reset	8x 01 44 31 02 04 04 00 FF	0~45(DEC.) (+) Default=43 (+)
	up	8x 01 44 31 02 04 04 02 FF	
	down	8x 01 44 31 02 04 04 03 FF	

Set memory Group play	direct	8x 01 44 31 03 08 0x 47 pp qq 0r 0s 0t 0u 0v FF	x=group No. =1~8, pp=index No.=1~10H qq=PST No.=1~4C, r=off/on=0/1, s=speed limit =1~12H, tu=waiting time = 0~ffH SEC, v=next position =0=return

Examples:

1). Set GROUT-1 item-1 to PST-1, ON, speed 10, waiting 5 SEC, Next position=next item.

81 01 44 31 03 08 01 47 01 01 01 0A 00 05 00 FF

2). Set GROUT-1 item-2 to PST-2, ON, speed 12, waiting 9 SEC, Next position=return to item-1 .

81 01 44 31 03 08 01 47 02 02 01 0C 00 09 01 FF

Set video mode Selection way	reset	8x 01 44 31 04 01 01 00 FF	0=select by the menu 1=select by the DIP switch (Default)
	up	8x 01 44 31 04 01 01 02 FF	
	down	8x 01 44 31 04 01 01 03 FF	
Set video mode	reset	8x 01 44 31 04 02 01 00 FF	2=1280x720 6=1920x1080(Default) 8=2160p25/30
	up	8x 01 44 31 04 02 01 02 FF	
	down	8x 01 44 31 04 02 01 03 FF	
Set HDMI color space	reset	8x 01 44 31 04 03 01 00 FF	0=YUV, (Default) 1=RGB
	up	8x 01 44 31 04 03 01 02 FF	
	down	8x 01 44 31 04 03 01 03 FF	

Set remote control Pan/Tilt reverse	reset	8x 01 44 31 05 01 01 00 FF	p=0=off, (default) 1=pan reverse, 2=tilt reverse, 3=pan & tilt reverse
	up	8x 01 44 31 05 01 01 02 FF	
	down	8x 01 44 31 05 01 01 03 FF	
	direct	8x 01 44 31 05 01 01 47 0p FF	
Set remote control RS-422 VISCA ID mode	reset	8x 01 44 31 05 03 01 00 FF	p=0=by DIP switch(default) =1=by menu
	up	8x 01 44 31 05 03 01 02 FF	
	down	8x 01 44 31 05 03 01 03 FF	
Set remote control RS-422 VISCA ID	reset	8x 01 44 31 05 03 02 00 FF	p= ID=1~7
	up	8x 01 44 31 05 03 02 02 FF	
	down	8x 01 44 31 05 03 02 03 FF	
Set remote control RS-422 Baud Rate	reset	8x 01 44 31 05 03 03 00 FF	RS-422 baud rate 0=9600, 1=19200, 2=38400, 3=115200 Default=2
	up	8x 01 44 31 05 03 03 02 FF	
	down	8x 01 44 31 05 03 03 03 FF	
Set remote control response time of recall	reset	8x 01 44 31 05 03 04 00 FF	0=leader (default), 1= tailer
	up	8x 01 44 31 05 03 04 02 FF	
	down	8x 01 44 31 05 03 04 03 FF	

Set Remote-out mode	reset	8x 01 44 31 05 06 01 00 FF	0=RS-422, 1=RS-232 3=BX-lens, 4=OK-Protocol(Canon) 5=LANC SONY 6=LANC Canon 7=LANC Panasonic 8=LANC JVC 0a=Panasonic-two-port
	up	8x 01 44 31 05 06 01 02 FF	
	down	8x 01 44 31 05 06 01 03 FF	
Set remote-out Baud rate	reset	8x 01 44 31 05 06 02 00 FF	P=RS-422/232 baud rate 0=9600, 1=19200, 2=38400, 3=115200 Default=2
	up	8x 01 44 31 05 06 02 02 FF	
	down	8x 01 44 31 05 06 02 03 FF	
	direct	8x 01 44 31 05 06 02 47 0p FF	
Set remote-out VISCA ID	reset	8x 01 44 31 05 06 03 00 FF	VISCA ID=1~7
	up	8x 01 44 31 05 06 03 02 FF	
	down	8x 01 44 31 05 06 03 03 FF	
Set remote-out BX Zoom Lens Offset	reset	8x 01 44 31 05 06 04 00 FF	p=0~5 0=>-3, 1=>-2, 2=>-1 3=>0 (DFT), 4=>+1, 5=>+2, 6=>+3
	up	8x 01 44 31 05 06 04 02 FF	
	down	8x 01 44 31 05 06 04 03 FF	
	direct	8x 01 44 31 05 06 04 47 0p FF	
Set remote-out Zoom Encoder Mode	reset	8x 01 44 31 05 06 05 00 FF	0=off, 1=normal, 2=reverse 3=TILTA CTL, 4=TILTA reverse
	up	8x 01 44 31 05 06 05 02 FF	
	down	8x 01 44 31 05 06 05 03 FF	
Set remote-out TILTA TORQUE	reset	8x 01 44 31 05 06 06 00 FF	5~99 Default=25
	up	8x 01 44 31 05 06 06 02 FF	
	down	8x 01 44 31 05 06 06 03 FF	
Set PTZ INFO. Output	reset	8x 01 44 31 05 07 01 00 FF	0=off, 1= Continued PTZ information output on the Extended RS-422.
	up	8x 01 44 31 05 07 01 02 FF	
	down	8x 01 44 31 05 07 01 03 FF	
Append Zoom POS. to P/T INFO. (VISCA)	reset	8x 01 44 31 05 07 02 00 FF	0=off, 1= Append the Zoom POS. to P/T INFO. of the VISCA stream.
	up	8x 01 44 31 05 07 02 02 FF	
	down	8x 01 44 31 05 07 02 03 FF	

Set System TALLY LIGHT	reset	8x 01 44 31 06 01 01 00 FF	p=tally light color 0=OFF, 1= RED 2=GREEN, 3=two tally: red & green
	up	8x 01 44 31 06 01 01 02 FF	
	down	8x 01 44 31 06 01 01 03 FF	
	direct	8x 01 44 31 06 01 01 47 0p FF	
Set System MODEL No.	reset	8x 01 44 31 06 02 01 00 FF	0010 (default) Or 0150
	up	8x 01 44 31 06 02 01 02 FF	
	down	8x 01 44 31 06 02 01 03 FF	
Set System DEBUG DISPLAY P/T OSD	direct	8x 01 44 31 06 04 01 47 0p FF	p-bit0=1=pan OSD on (****) p-bit1=1=tilt OSD on (****) p-bit2=1=zoom OSD on (****) p-bit3=1=focus OSD on (****)
Set System DEBUG DISPLAY OSD	direct	8x 01 44 31 06 04 02 47 0p 0q FF	pp-bit0=IR OSD, (****) bit1=CAM. OSD (****) bit2=RMC-RX OSD (****) bit3=RMC-TX OSD (****) bit4= spare qq-bit0=M_CTL-RX OSD(****) bit1=M_CTL-TX OSD (****) bit2=REG. OSD (****) bit3=VOUT TEST (****)
Set System Reset all	reset	8x 01 44 31 06 05 01 02 FF	
Set System SOFTWARE update with USB	Update all	8x 01 44 31 06 06 01 6f FF	Update the MCPMU & MCTL firmware from the USB drive.

****: For Debug only.

Reset Pan/Tilt position	reset	8x 01 44 31 07 01 01 02 FF	
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Menu function Inquiry Command List

Inquiry Command	Command Packet	Inquiry Packet	Comments
Motor P/T Acceleration Inq.	8x 09 44 31 02 01 01 FF	y0 50 44 31 02 01 01 pp FF	pp=10=auto, 00=fast,01=middle,02=slow Default=middle
motor P/T speed mode Inq.	8x 09 44 31 02 02 01 FF	y0 50 44 31 02 02 01 0p FF	p=0=normal(default), 1=Auto 2=Sport
motor PAN Torque ADJ. Inq.	8x 09 44 31 02 03 01 FF	y0 50 44 31 02 03 01 0p 0q FF	pq=00=low,1=+1,2=+2,3=+3 Default=+1
motor PAN offset ADJ. Inq.	8x 09 44 31 02 03 02 FF	y0 50 44 31 02 03 02 0p 0q FF	pq=00~06, default=00 Offset=(p*0.9) degree
motor PAN_MIN_LIMIT Inq.	8x 09 44 31 02 03 03 FF	y0 50 44 31 02 03 03 0p 0q FF	pq=0~175(DEC.) (-) Default=170 (-)
motor PAN_MAX_LIMIT Inq.	8x 09 44 31 02 03 04 02 FF	y0 50 44 31 02 03 04 0p 0q FF	pq=0~175(DEC.) (+) Default=170 (+)
motor TILT Torque ADJ. Inq.	8x 09 44 31 02 04 01 FF	y0 50 44 31 02 04 01 0p 0q FF	pq=00=low,1=+1,2=+2,3=+3 Default=+1
motor TILT offset ADJ. Inq.	8x 09 44 31 02 04 02 FF	y0 50 44 31 02 04 02 0p 0q FF	pq=00~07, default=03 Offset=(p*0.9) degree
motor TILT_MIN_LIMIT Inq.	8x 09 44 31 02 04 03 FF	y0 50 44 31 02 04 03 0p 0q FF	pq=0~45(DEC.) (-) Default=43 (-)
motor TILT_MAX_LIMIT Inq.	8x 09 44 31 02 04 04 FF	y0 50 44 31 02 04 04 0p 0q FF	pq=0~45(DEC.) (+) Default=43 (+)

Memory preset position Inq.	8x 09 44 31 03 01 pp FF	y0 50 44 31 03 01 pp qq 0r 0s 0t 0u 0v 0w 0x 0y 0z FF	pp=preset No.=01~3C qq=speed=0~12 rstuv=pan position wxyz=tilt position
	8x 09 44 31 03 02 pp FF	y0 50 44 31 03 02 pp 0g 0h 0i 0j 0k 0r 0s 0t 0u 0v 0x 0y FF	pp=preset No.=01~3C ghij=zoom position(* ZEK-1) k=zoom speed r= focus mode (**) stuv=focus position(**) x= IRIS mode (**) y= IRIS position (**)
	8x 09 44 31 03 03 pp FF	y0 50 44 31 03 03 pp 0g 0h FF	pp=preset No.=01~3C g= shutter (**) h= WB mode (**)
Memory Group play Inq.	8x 09 44 31 03 08 0p qq FF	y0 50 44 31 03 08 0p qq rr 0s 0t 0u 0v 0w FF	p=group No.=1~8 qq=Index No.= 1~10 rr=preset No.=1~3C s=ON/OFF=1,0 t=speed=1~12 uv=waiting time w=next action=0~9, 0=Next item, 1=return, 2~9=group1~8

****:** Depend on the camera ability.

video mode selection way Inq.	8x 09 44 31 04 01 01 FF	y0 50 44 31 04 01 01 0p FF	p=0=select by the menu (***) =1=select by the DIP switch
video mode Inq.	8x 09 44 31 04 02 01 FF	y0 50 44 31 04 02 01 0p FF	p=2=1280x720 6=1920x1080(Default) 8=2160p25/30
HDMI color space Inq.	8x 09 44 31 04 03 01 FF	y0 50 44 31 04 03 01 0p FF	p=0=YUV, (Default) 1=RGB

remote control PAN/TILT reverse Inq.	8x 09 44 31 05 01 01 FF	y0 50 44 31 05 01 01 0p FF	p=0=off,1=pan reverse, 2=tilt reverse, 3=pan & tilt reverse
Remote control remote source Inq.	8x 09 44 31 05 02 01 FF	y0 50 44 31 05 02 01 0p FF	p=0~2 0=OFF, 1=RS-422, 2=DVIP
Remote control RS422 VISCA ID mode Inq.	8x 09 44 31 05 03 01 FF	y0 50 44 31 05 03 01 0p FF	p=0=by the DIP switch =1=by the menu
Remote control RS422 VISCA ID Inq.	8x 09 44 31 05 03 02 FF	y0 50 44 31 05 03 02 0p FF	p=1~7 = VISCA ID
Remote control RS422 Baud Rate Inq.	8x 09 44 31 05 03 03 FF	y0 50 44 31 05 03 03 0p FF	p=RS-422 baud rate 0=9600, 1=19200, 2=38400, 3=115200 Default=2
Remote control Response Time of Recall Inq.	8x 09 44 31 05 03 04 FF	y0 50 44 31 05 03 04 0p FF	p=response timing of recall PST 0=leader ,1= tailer Default=0

Remote control DVIP Inq.	8x 09 44 31 05 04 01 FF	y0 50 44 31 05 04 01 0p FF	p=DVIP baud rate 0=9600, 1=19200, 2=38400, 3=115200 Default=3
Remote control IR ID Inq.	8x 09 44 31 05 05 01 FF	y0 50 44 31 05 05 01 0p FF	p=IR ID=1~4 (Follow the VISCA ID)

Remote control Remote-Out mode Inq.	8x 09 44 31 05 06 01 FF	y0 50 44 31 05 06 01 0p FF	P= Remote-Out mode 0=RS-422, 1=RS-232 3=BX-lens, 4=OK-Protocol(Canon) 5=LANC SONY 6=LANC Canon 7=LANC Panasonic 8=LANC JVC 0a=Panasonic-two-port
Remote control Remote-Out Baud Rate Inq.	8x 09 44 31 05 06 02 FF	y0 50 44 31 05 06 02 0p FF	p=DVIP baud rate 0=9600, 1=19200, 2=38400, 3=115200 Default=2
Remote control Remote-Out ID Inq.	8x 09 44 31 05 06 03 FF	y0 50 44 31 05 06 03 0p FF	p=1~7 = VISCA ID (RS-422/232)
Remote control BX Zoom Lens Offset Inq.	8x 09 44 31 05 06 04 FF	y0 50 44 31 05 06 04 0p FF	p=0~5 0=>-3, 1=>-2, 2=>-1 3=>0 (DFT), 4=>+1, 5=>+2, 6=>+3
Remote control Zoom Encoder Mode Inq.	8x 09 44 31 05 06 05 FF	y0 50 44 31 05 06 05 0p FF	p=0=off, 1=normal, 2=reverse 3=TILTA CTL, 4=TILTA reverse
Remote control TILTA Torque Inq.	8x 09 44 31 05 06 06 FF	y0 50 44 31 05 06 06 pp FF	p=TILTA torque=0~63
Remote control PTZ INFO. Output Inq.	8x 09 44 31 05 07 01 FF	y0 50 44 31 05 07 01 0p FF	p=1= continued PTZ information output on the Extended RS-422. 0=off
Remote control Append ZOOM POS. to P/T INFO. Inq.	8x 09 44 31 05 07 02 FF	y0 50 44 31 05 07 02 0p FF	p=1= Append ZOOM POS. to P/T INFO. of the VISCA. 0= off;

System Tally Light Inq.	8x 09 44 31 06 01 01 FF	y0 50 44 31 06 01 01 0p FF	P=tally light color 0=OFF, 1= RED 2=GREEN, 3=two tally, RED / GRREN
System MODEL No. Inq.	8x 09 44 31 06 02 01 FF	y0 50 44 31 06 02 01 0p 0q 0r 0s FF	pqrs=model No.: 0010 or 0150
System POWER-OUT VOLT. Inq.	8x 09 44 31 06 03 01 FF	y0 50 44 31 06 03 01 0p FF	p=0=7.4Volt 1=8.4V 2=10V 3=12V
System Debug Display P/T OSD Inq.	8x 09 44 31 06 04 01 FF	y0 50 44 31 06 04 01 0p FF	p-bit0=1=pan OSD on (****) p-bit1=1=tilt OSD on (****) p-bit2=1=zoom OSD on (****) p-bit3=1=focus OSD on (****)
System Debug Display OSD Inq.	8x 09 44 31 06 04 02 FF	y0 50 44 31 06 04 02 pp qq FF	pp-bit0=IR OSD, (****) bit1=CAM. OSD (****) bit2=RMC-RX OSD (****) bit3=RMC-TX OSD (****) bit4= spare qq-bit0=M_CTL-RX OSD(****) bit1=M_CTL-TX OSD (****) bit2=REG. OSD (****) bit3=VOUT TEST (****)
System SOFTWARE Version Inq.	8x 09 44 31 06 06 01 FF	y0 50 44 31 06 06 01 3p 3q 3r 3s 3t uu 3v 3w 3x 3y 3z FF	pqrst= MB firmware Version vwxyz=MCTL firmware Version (ASCII code)

****: For Debug only.

V0.4 Added the “Set video mode” commands. (Page 4)

V0.5 Fixed the description of “Set video mode” . (Page 4,9)

Fixed the description of “BX Zoom Lens Offset” . (Page 6,11)

Fixed the description of “Remote source Inq.” . (Page 10)

V0.6 Added the “SPORT” mode of P/T speed. (Page 2,8)