



IPE-300C Command List History

Version	Firmware	Description	Released Date	Modified by
1.0	2.10.01	First Release	2025-08-12	Hovey Tam
1.1	2.10.04	1. Added System Control #2.5 2. Deleted #6.1, #7.1, #7.2, #10.1, #11.1, #11.2 3. Added Encoder Control #8.31, #8.36 4. Added Video Wall Control #13.18, #13.19 5. Modified Marquee Management #15.1 6. Added GPIO Control #16.1 - 16.4	2025-10-28	Hovey Tam
1.2	2.10.07	1. Modified #4.2-4 2. Added #8.15 User EDID value 3. Modified #14.1 Preset range	2025-12-11	Hovey Tam
2.0	2.10.08	1. Added Device Management #3.6, #3.7 2. Added Frame rate settings #8.23,28,33,39,45 3. Added IPE-200UD-TZ Additional Commands #17 #18 4. Added IPE-200U-TX-W Additional Commands #19	2026-03-20	Hovey Tam

IPE-300C Command List (1/3)

FW Version: 2.10.08

ASCII Command

1. Serial port protocol. Baud rate: 57600, Data bits: 8, Stop bits:1, Check bit: 0
2. TCP/IP Port: 8000; Telnet Port: 23 (Default)

IPE-Series General Commands

Help & Status

No.	Command	Description	Parameters
1.1	? / HELP	Print help information	-
1.2	TKA GET STATUS	Get all status	
1.3	TKA GET VERSION	Get all version.	

System Control

No.	Command	Description	Parameters
2.1	TKA SET RS232BAUDRATE [a]	Set RS-232 baud rate	a=[0:115200; 1:57600; 2:38400; 3:19200; 4:9600]
2.2	TKA SET RESET	Reset controller system settings	
2.3	TKA SET RESET NETWORK	Reset controller network settings	
2.4	TKA SET RESET ALL	Reset controller system and network settings Note: Type "Yes" To Confirm, "No" To Cancel	
2.5	TKA SET REBOOT	Reboot the controller system	

Device Management

No.	Command	Description	Parameters
3.1	TKA SEARCH	Search network for all encoder and decoder devices	eidc=[001...n]: New encoder index enc=[001...n]: One encoder didc=[001...n]: New decoder index dec=[001...n]: One decoder
3.2	TKA SEARCH STATUS	Print search results	
3.3	TKA SEARCH RESET	Reset search results	
3.4	TKA ADD DEV [eidc] ENC [enc]	Add new encoder devices	
3.5	TKA ADD DEV [didc] DEC [dec]	Add new decoder devices	
3.6	TKA ADD DEV RESET	Reset all encoder/decoder/video wall/search configurations	
3.7	TKA ADD DEV AUTO	Automatically add encoders and decoders for all new searches.	

Network Control

No.	Command	Description	Parameters
4.1	TKA SET NETWORK LAN2 DHCP [dhcp]	Set the controller network dhcp ON or OFF	dhcp=[ON: DHCP mode; OFF: Static IP mode] lan=[LAN1: Video LAN; LAN2: Control LAN] ip=[xxx.xxx.xxx.xxx] gw=[xxx.xxx.xxx.xxx] mask=[xxx.xxx.xxx.xxx] hostname=[xxx.xxx.xxx.xxx] ssh=[ON: Turn on SSH; OFF: Turn off SSH] sshport=SSH port Number telnet=[ON: Turn on Telnet; OFF: Turn off Telnet] tport=Telnet port Number web=[ON: Turn on Web GUI; OFF: Turn off Web GUI] https=[ON: Turn on HTTPS; OFF: Turn off HTTPS]
4.2	TKA SET NETWORK [lan] STATIC IP [ip]	Set the controller network static ip address	
4.3	TKA SET NETWORK [lan] STATIC GATEWAY [gw]	Set the controller network static gateway address	
4.4	TKA SET NETWORK [lan] STATIC MASK [mask]	Set the controller network static subnet mask	
4.5	TKA SET NETWORK REBOOT	Set the controller network reboot Note: Call this command after LAN config is changed to reboot network	
4.6	TKA SET NETWORK SSH [ssh]	Set the controller network ssh ON or OFF	
4.7	TKA SET NETWORK SSH PORT [sshport]	Set the controller network ssh port	
4.8	TKA SET NETWORK TELNET [telnet]	Set the controller network telnet ON or OFF	
4.9	TKA SET NETWORK TELNET PORT [tport]	Set the controller network telnet port	
4.10	TKA SET NETWORK WEB [web]	Set the controller network web GUI ON or OFF	
4.11	TKA SET NETWORK HTTPS [https]	Set the controller network https ON or OFF	
4.12	TKA SET NETWORK DNS [hostname]	Set the controller network domain name to hostname	

Encoder mode Information

No.	Command	Description	Parameters
5.1	TKA GET ENC [enc] STATUS	Show the encoder detailed status	enc=0: Select all encoders enc=[1...n]: Select one encoder

Encoder mode Global IP Setting

No.	Command	Description	Parameters
6.1	TKA SET ENC PRESET START IP [ip]	Preset encoder start IP range	ip=[xxx.xxx.xxx.xxx] gw=[xxx.xxx.xxx.xxx] mask=[xxx.xxx.xxx.xxx]
6.2	TKA SET ENC PRESET END IP [ip]	Preset encoder end IP range	
6.3	TKA SET ENC PRESET GW [gw]	Preset encoder gateway address	
6.4	TKA SET ENC PRESET SM [mask]	Preset encoder subnet mask address	
6.5	TKA SET ENC PRESET APPLY	Apply the encoder preset ip configuration	

Encoder mode IP Configuration

No.	Command	Description	Parameters
7.1	TKA SET ENC [enc] STATIC IP [ip]	Set the encoder static IP address	ip=[xxx.xxx.xxx.xxx] gw=[xxx.xxx.xxx.xxx] mask=[xxx.xxx.xxx.xxx]
7.2	TKA SET ENC [enc] STATIC GATEWAY [gw]	Set the encoder static gateway address	
7.3	TKA SET ENC [enc] STATIC MASK [mask]	Set the encoder static subnet mask address	
7.4	TKA SET ENC [enc] NETWORK REBOOT	Set the encoder network reboot	

Encoder mode Control

No.	Command	Description	Parameters
8.1	TKA SET ENC [enc] ID [id]	Assign ID for the encoder Note: Device must be online	enc=0: Select all encoders enc=[1...n]: Select one encoder id=[1...199]: ID value name=Max 16 characters guest=[ON: Turn on Guest mode; OFF: Turn off Guest mode] br=[0:2400; 1:4800 2:9600; 3:19200; 4:38400; 5:57600; 6:115200] bit=Data Bits + Parity + Stop Bits, example: 8n1 Data Bits=[5...8], Parity=[n o e], Stop Bits=[1..2] zz=[0:1080P 2.0 CH; 1:1080I 2.0 CH; 2:4K2K30_444 2.0 CH; 3:4K2K60_420 2.0 CH; 4:4K2K60_444 2.0 CH (Default); 5:DVI 1280_1024_60 No Audio; 6:DVI 1920_1080_60 No Audio; 7: DVI 1920_1200_60 No Audio; 101: User EDID 1; 102: User EDID 2]
8.2	TKA SET ENC [enc] DELETE	Delete the encoder from current configuration	
8.3	TKA SET ENC [enc] REBOOT	Set the encoder to reboot	
8.4	TKA SET ENC [enc] RESET	Set the encoder to factory reset	
8.8	TKA SET ENC [enc] AUDIO HDMI	Set the encoder audio input to HDMI	cmode=[txt: Text mode; img: Image mode] cfmt=[YUV444; YUV422; YUV420] dly=[1-500]: Encoder coding delay
8.6	TKA SET ENC [enc] AUDIO ANALOG	Set the encoder audio input to embedded analogue L/R	
8.7	TKA SET ENC [enc] NAME [name]	Set the name of the encoder	
8.8	TKA SET ENC [enc] LED ON	Set the encoder flash ENC LED	
8.9	TKA SET ENC [enc] LED OFF	Set the encoder ENC LED always on	mcode=[H264: H.264 Codec; H265: H.265 Codec]; Main stream codec mbtrate=[FIX: Fix bit rate; VAR: Variable bit rate]; Main stream bit rate type mimgql=[1-100]: Main stream image quality mbtrate=[1-102400]; Main stream bitrate mfrate=[1-60]; Main stream frame rate scode=[H264: H.264 Codec; H265: H.265 Codec]; Sub stream codec sbtrate=[FIX: Fix bit rate; VAR: Variable bit rate]; Sub stream bit rate type simgql=[1-100]; Sub stream image quality sbtrate=[1-40960]; Sub stream bitrate sfrate=[1-60]; Sub stream frame rate pcode=[H264: H.264 Codec; H265: H.265 Codec]; Preview codec pbtrate=[FIX: Fix bit rate; VAR: Variable bit rate]; Preview bit rate type pimgql=[1-100]; Preview image quality pbtrate=[1-40960]; Preview bitrate pfrate=[1-60]; Preview frame rate rmstream=[ON: Start RTSP main stream; OFF: Stop RTSP main stream] rmcode=[H264: H.264 Codec; H265: H.265 Codec]; RTSP main codec rmbrtype=[FIX: Fix bit rate; VAR: Variable bit rate]; RTSP main bit rate type rmimgql=[1-100]; RTSP main image quality rmbrate=[1-40960]; RTSP main bitrate rmfrate=[1-60]; RTSP main frame rate rsstream=[ON: Start RTSP sub stream; OFF: Stop RTSP sub stream] rscode=[H264: H.264 Codec; H265: H.265 Codec]; RTSP sub codec rsbrtype=[FIX: Fix bit rate; VAR: Variable bit rate]; RTSP sub bit rate type rsimgql=[1-100]; RTSP sub image quality rsbrate=[1-20480]; RTSP sub bitrate rsfrate=[1-60]; RTSP sub frame rate os=[LINUX: Host runs Linux OS; WIN: Host runs Windows OS; MAC: Host runs Mac OS; TOUCH: Host is touch pad]
8.10	TKA SET ENC [enc] RXMODE	Switch the encoder to decoder mode	
8.11	TKA SET ENC [enc] GUEST [guest] BR [br] BIT [bit]	Set the encoder serial guest mode configuration	
8.12	TKA SET ENC [enc] SENDGUEST ASCII [message]	Send ASCII message to the encoder RS-232 port	
8.13	TKA SET ENC [enc] SENDGUEST HEX [message]	Send HEX message to the encoder RS-232 port	
8.14	TKA SET ENC [enc] EDID COPY [dec]	Set the encoder EDID copy from the decoder	
8.15	TKA SET ENC [enc] EDID DEFAULT [zz]	Set the encoder EDID to specific format	
8.16	TKA SET ENC [enc] CODECMODE [cmode]	Set the encoder encode mode with text or image	
8.17	TKA SET ENC [enc] CODECFMT [cfmt]	Set the encoder color space (some model only support YUV420)	
8.18	TKA SET ENC [enc] CODEDELAY [dly]	Set the encoder encodelay time	
8.19	TKA SET ENC [enc] MAINCODE [mcode]	Set the encoder main stream encode mode	
8.20	TKA SET ENC [enc] MAINBRATYPE [mbtrate]	Set the encoder main stream bitrate type	
8.21	TKA SET ENC [enc] MAINIMAGE [mimgql]	Set the encoder main stream image quality	
8.22	TKA SET ENC [enc] MAINBRA [mbtrate]	Set the encoder main stream bitrate	
8.23	TKA SET ENC [enc] MAINFRAM [mfrate]	Set the encoder main stream framerate	
8.24	TKA SET ENC [enc] SUBCODE [scode]	Set the encoder sub stream mode	
8.25	TKA SET ENC [enc] SUBBRATYPE [sbtrate]	Set the encoder sub stream bitrate type	
8.26	TKA SET ENC [enc] SUBIMAGE [simgql]	Set the encoder sub stream image quality	
8.27	TKA SET ENC [enc] SUBBRA [sbtrate]	Set the encoder sub stream bitrate	
8.28	TKA SET ENC [enc] SUBFRAM [sfrate]	Set the encoder sub stream framerate	
8.29	TKA SET ENC [enc] PREVIEWCODE [pcode]	Set the encoder preview stream mode	
8.30	TKA SET ENC [enc] PREVIEWBRATYPE [pbtrate]	Set the encoder preview stream bitrate type	
8.31	TKA SET ENC [enc] PREVIEWWIMAG [pimgql]	Set the encoder preview stream image quality	
8.32	TKA SET ENC [enc] PREVIEWBRA [pbtrate]	Set the encoder preview stream bitrate	
8.33	TKA SET ENC [enc] PREVIEWFRAM [pfrate]	Set the encoder preview stream framerate	
8.34	TKA SET ENC [enc] SDKSTREAM [rmstream]	Set the encoder RTSP main stream on or off	
8.35	TKA SET ENC [enc] SDKCODE [rmcode]	Set the encoder RTSP main stream mode	
8.36	TKA SET ENC [enc] SDKBRATYPE [rmbrtype]	Set the encoder RTSP main stream bitrate type	
8.37	TKA SET ENC [enc] SDKIMAGE [rmimgql]	Set the encoder RTSP main stream image quality	
8.38	TKA SET ENC [enc] SDKBRA [rmbrate]	Set the encoder RTSP main stream bitrate	
8.39	TKA SET ENC [enc] SDKFRAM [rmfrate]	Set the encoder RTSP main stream framerate	
8.40	TKA SET ENC [enc] SDKSTREAM [rsstream]	Set the encoder RTSP sub stream on or off	
8.41	TKA SET ENC [enc] SUBSDKCODE [rscode]	Set the encoder RTSP sub stream mode	
8.42	TKA SET ENC [enc] SUBSDKBRATYPE [rsbrtype]	Set the encoder RTSP sub stream bitrate type	
8.43	TKA SET ENC [enc] SUBSDKIMAGE [rsimgql]	Set the encoder RTSP sub stream image quality	
8.44	TKA SET ENC [enc] SUBSDKBRA [rsbrate]	Set the encoder RTSP sub stream bitrate	
8.45	TKA SET ENC [enc] SUBSDKFRAM [rsfrate]	Set the encoder RTSP sub stream framerate	
8.46	TKA SET ENC [enc] KVMOS [os]	Set the KVM operation system	

Decoder mode Information

Decoder mode Global IP Setting

Decoder mode IP Configuration

Decoder mode Control

Video Wall Control

Matrix Control

No.	Command	Description	Parameters
14.1	TKA CREATE MATRIX PRESET [prs]	Create matrix preset	prs=[1...10]: Preset index
14.2	TKA DELETE MATRIX PRESET [prs]	Delete matrix preset	enc=[1...n]: One encoder
14.3	TKA APPLY MATRIX PRESET [prs]	Apply matrix preset	dec=[1...n]: One decoder
14.4	TKA SET MATRIX PRESET [prs] NAME [name]	Set the matrix preset name	name: Max 16 characters
14.5	TKA ADD MATRIX PRESET [prs] DEC [dec] SOURCE [enc]	Add the decoder to the matrix preset	
14.6	TKA DELETE MATRIX PRESET [prs] DEC [dec]	Delete the decoder from the matrix preset	

IPE-300C Command List (3/3)

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Marquee Management

No.	Command	Description	Parameters
15.1	TKA CREATE MARQUEE [maidx]	Create marquee	maidx=[1...256]: Select marquee index
15.2	TKA SET MARQUEE [maidx] NAME [name]	Set the marquee name	name: Max 16 characters
15.3	TKA SET MARQUEE [maidx] SIZE [w] [h]	Set the marquee size	w=Marquee canvas width. h=Marquee canvas height.
15.4	TKA SET MARQUEE [maidx] CONTENT [text]	Set the marquee contents	text=Marquee content text(Max 150 characters).
15.5	TKA SET MARQUEE [maidx] FNAME [fname]	Set the marquee font name	fname=Marquee font name(Max 16 characters).
15.6	TKA SET MARQUEE [maidx] FSIZE [fsize]	Set the marquee font size	fsize=[1...5000]: Marquee font size
15.7	TKA SET MARQUEE [maidx] FCOLOR [fcolor]	Set the marquee font color	fcolor=[00000-FFFFFF]: Marquee foreground color
15.8	TKA SET MARQUEE [maidx] BCOLOR [bcolor]	Set the marquee background color	bcolor=[00000-FFFFFF]: Marquee background color
15.9	TKA SET MARQUEE [maidx] DIRECT [dir]	Set the marquee move direction	dir=[LEFT; RIGHT; UP; DOWN]: Marquee move direction
15.10	TKA SET MARQUEE [maidx] SPEED [speed]	Set the marquee move speed	speed=[1-10]: Marquee move speed
15.11	TKA SET MARQUEE [maidx] APPLY	Apply the marquee	
15.12	TKA SET MARQUEE [maidx] DELETE	Delete the marquee	
15.13	TKA SET WALL [hdl] PRESET [pre] MARQUEE [maidx] ON [posx] [posy]	Turn on the marquee with ID maidx on video wall [hdl] preset [pre]	hdl=[1...255]: Select video wall index pre=[1...09]: Select preset index
15.14	TKA SET WALL [hdl] PRESET [pre] MARQUEE [maidx] OFF	Turn off the marquee with ID maidx on video wall [hdl] preset [pre]	
			posx=Horizontal position in pixel posy=Vertical position in pixel

GPIO Control

No.	Command	Description	Parameters
16.1	TKA GET GPIO [gpio] STATUS	Get the controller GPIO status	gpio=[0: All IO port; 1-4: IO port 1-4]
16.2	TKA GET GPIO [gpio] LEVEL	Get the controller GPIO input level	iodir=[IN: Input; OUT: Output]
16.3	TKA SET GPIO [gpio] DIR [iodir]	Set the controller GPIO as input or output	iolv=[LOW: Low level; HIGH: High level]
16.4	TKA SET GPIO [gpio] LEVEL [iolv]	Set the controller GPIO output to low level or high level	

IPE-200UD-TZ Additional Commands

Encoder mode Control

No.	Command	Description	Parameters
17.1	TKA SET ENC [enc] AUOUTSRC [enaudsrc]	Set the encoder analog audio out source	enc=0: Select all encoders
17.2	TKA SET ENC [enc] LANMODE [enlan]	Set the encoder LAN mode	enc=[1...n]: Select one encoder enaudsrc=[HDMI; ANALOG; DANTE] enlan=[1:Mode 1; 2:Mode 2] Mode1: LAN1: AVoIP & Dante; LAN2: NC Mode2: LAN1: AVoIP only; LAN2: Dante only

Decoder mode Control

No.	Command	Description	Parameters
18.1	TKA SET DEC [dec] AUOUTSRC [deaudsrc]	Set the decoder audio out source	dec=0: Select all encoders
18.2	TKA SET DEC [dec] LANMODE [delan]	Set the decoder LAN mode	dec=[1...n]: Select one encoder deaudsrc=[HDMI; ANALOG; DANTE] delan=[1:Mode 1; 2:Mode 2] Mode1: LAN1: AVoIP & Dante; LAN2: NC Mode2: LAN1: AVoIP only; LAN2: Dante only

IPE-200U-TX-W Additional Commands

Encoder Control

No.	Command	Description	Parameters
19.1	TKA SET ENC [enc] SOURCE [ensrc]	Set the encoder video source	enc=0: Select all encoders
19.2	TKA SET ENC [enc] SOURCE AUTO [atstatus]	Set the encoder video source auto switch status	enc=[1...n]: Select one encoder
19.3	TKA SET ENC [enc] SOURCE AUTO MODE [atmode]	Set the encoder HDMI video source detect method under auto mode	ensrc=[HDMI:Force HDMI; USBC:Force USB-C] atstatus=[ON: Auto mode enable; OFF: Auto mode disable] atmode=[5V:detect 5V; SIG:detect data signal]
19.4	TKA SET ENC [enc] USBMODE [usbmode]	Set the encoder video source mode	usbmode=[AUTO:Follow Auto Priority; HDMI:HDMI first; USBC:USB-C first]
19.5	TKA SET ENC [enc] SOURCE AUTO PRIOR [atprior]	Set the encoder video source priority under auto mode	atprior=[NONE:Use last plug input; HDMI:HDMI first; USBC: USB-C first]
19.6	TKA SET ENC [enc] FAN [fspeed]	Set the encoder fan speed	fspeed=[SILENT; LOW; STANDARD; HIGH; AUTO:]