

VC-200HD/VC-300HD Command Reference

Command Overview

The basic command syntax consists of a line of ASCII code: "stx" followed by "3 letters (uppercase)" and then a ";" (semicolon).

The three letters indicate the command type. Also, when there are parameters for the command, a colon is inserted between the three letters and the parameter. If there are multiple parameters, they are separated with a comma (,).

"stx" This is a signal name (code number 02H (hexadecimal) in ASCII code. It is a control code indicating the start of a command.

":" This is a code for this device to recognize the separation of the command and its parameters.

";" This code is for this device to recognize the end of a command.

Example 1) When sending an input format request, the ASCII code line "stxVIF;" is sent.

Example 2) When loading Preset3, the ASCII code line "stxPSE:2;" is sent.

Commands received by VC-300HD

In the following, stx (02H), ACK (06H), and Xon (11H)/Xoff (13H) are control codes.

Note: When an external device is connected to the VC-300HD and sends a command, please confirm that ACK is returned before sending the next command.

VER Request for version information (06H)

stxVER;

Send to learn the VC-300HD version.
The version information is returned.

ACS Request for the active sense

stxACS;

Send to learn the status of the unit.
ACK is returned if the unit is not doing anything.

SYN Request for the sync status

stxSYN;

Send to learn the sync status of the unit.
The sync status is returned when the unit correctly receives the command.

VIF Request for the video input format

stxVIF;

Send to learn the input format status of the unit.
The input format status is returned when the unit correctly receives the command.

VOF Request for the video output format

stxVOF;

Send to learn the output format status of the unit.
The output format status is returned when the unit correctly receives the command.

DAT Request for the data set

stxDAT: a,[b,[c,d,e]];

a: Menu number
b: Parameter value 1
c: Parameter value 2
d: Parameter value 3
e: Parameter value 4

Sets the unit's menu. Parameter values 1–4 may need to be sent depending on the menu number. See "Menu Implementation" (P. 3–4) for information regarding menu numbers and parameter values.

ACK is returned when the unit correctly receives the command. When a:990 is sent, a bulk dump is returned.

For items without parameter value descriptions in "Menu Implementation," the menu content is executed when the menu number is sent. Please send all parameters for items that have multiple parameter values.

PSE Preset loads

stxPSE:a;

a: 0-3 (0 Preset1, 1 Preset2, 2 Preset3, 3 Factory Load)

Loads the preset.

ACK is returned when the unit correctly receives the command.

Xon Flow control (11H)

Xoff Flow control (13H)

Commands sent by VC-300HD

ACK Response when correctly received

stxACK;

Sent when the sent command was received correctly.

ERR Error information

stxERR:a;

a: 0 (syntax error) There was a syntax error in the received command.

5 (out of range error) The parameter of the received command is out of range.

VER Version information

stxVER: "a", "b", "c";

a: Device name (VC-300HD)

b: Version

c: Reserved

This is sent when the unit receives the VER command. The version information is an ASCII string.

SYN Sync status response

stx:SYN:a,b;

a: 0-2 (0 external sync lock, 1 video input sync, 2 internal)

b: 0-2 (0 unlock, 1 chase, 2 lock)

This is sent when the unit receives the SYN command.

VIF Request for the video input format

stxVIF:"a";

a: Format string, "-" when the input format is not defined

This is sent when the unit receives the VIF command.

VOF Request for the video output format

stxVOF:"a";

a: Format string, "-" when the output format is not defined

This is sent when the unit receives the VOF command.

DAT Bulk dump response

stxDAT:a,[b,[c,d,e]];

a: Menu number

b: Parameter value

Menu 990 Sent when bulk dump is executed or when DAT:990; is received.

Xon Flow control (11H)

Xoff Flow control (13H)

Menu Implementation

Item Number	Item Name	Parameter Values	Corresponding Set Value
100	Video Source	0–4	0: i.LINK, 1: CMPNT, 2: DVI-D, 3: DVI-A, 4: SDI Note: With VC-200HD, ERR:5; is returned when 4: SDI is selected.
110	i.LINK IN	0–15	0: Auto, 1: DV480/60i, 2: DV576/50i, 3: HDV720/60P, 4: HDV720/50P, 5: HDV1080/60i, 6: HDV1080/50i, 7: DV480/24P, 8: HDV480/60P, 9: HDV576/50P, 10: HDV720/30P, 11: HDV720/25P, 12: HDV720/24P, 13: HDV1080/30P, 14: HDV1080/25P, 15: HDV1080/24P
120	COMPONENT IN	0–12	0: Auto, 1: 480/59.94i, 2: 576/50i, 3: 480/59.94p, 4: 576/50p, 5: 720/59.94p, 6: 720/50p, 7: 1080/59.94i, 8: 1080/50i, 9: 1080/23.98PsF, 10: 720/60p, 11: 1080/60i, 12: 1080/24PsF
122	In 480i Setup	0–1	0: 0IRE, 1: 7.5IRE
130	DVI-D IN	0–15	0: Auto, 1: 640x480/60, 2: 640x480/75, 3: 800x600/60, 4: 800x600/75, 5: 1024x768/60, 6: 1024x768/75, 7: 1152x864/75, 8: 1280x768/60, 9: 1280x960/60, 10: 1280x1024/60, 11: 1280x1024/75, 12: 1360x768/60, 13: 1400x1050/60, 14: 1400x1050/75, 15: 1600x1200/60
131	DVI-A IN	0–5	0: Auto, 1: 640x480/60, 2: 640x480/75, 3: 800x600/60, 4: 800x600/75, 5: 1024x768/60
132	DVI-A AutoConfig	Note: When DAT is sent, the menu is executed.	
133	DVI-A H Position	-100–+100	-100–+100 (pixel)
134	DVI-A V Position	-100–+100	-100–+100 (line)
135	DVI-A Frequency	-100–+100	-100–+100 (clock)
136	DVI-A Phase	-100–+100	-100–+100
140	SDI IN	0–31	0: Auto, 1: 480/59.94i, 2: 576/50i, 3: 720/59.94p, 4: 720/50p, 5: 1080/59.94i, 6: 1080/50i, 7: 480/23pOv59i, 8: 720/29pOv59p, 9: 720/29.97p, 10: 720/25pOv50p, 11: 720/25p, 12: 720/23pOv59p, 13: 720/23.98p, 14: 1080/29.97PsF, 15: 1080/29.97p, 16: 1080/25PsF, 17: 1080/25p, 18: 1080/23pOv59i, 19: 1080/23.98PsF, 20: 1080/23.98p, 21: 720/60p, 22: 720/30pOv60p, 23: 720/30p, 24: 720/24pOv60p, 25: 720/24p, 26: 1080/60i, 27: 1080/30PsF, 28: 1080/30p, 29: 1080/24PsF, 30: 1080/24pOv60i, 31: 1080/24p
150	Audio Source	0–3	0: Auto, 1: i.LINK, 2: AUDIO IN, 3: SDI Note: With VC-200HD, ERR:5; is returned when 3: SDI is selected.
160	AUDIO In Ch	0–3	0: CH1/2 CH1/2, 1: CH1/2 CH3/4, 2: CH3/4 CH1/2, 3: CH3/4 CH3/4
161	In Ch1&2 NomLv	0–3	0: +4dBu, 1: -2dBu, 2: -4dBu, 3: -10dBu
162	In Ch3&4 NomLv	0–3	0: +0dBu, 1: -6dBu, 2: -8dBu, 3: -14dBu
170	DV In Audio Ch	0–1	0: Ch1/2, 1: Ch3/4
200	Scaling Type	0–2	0: Squeeze, 1: SidePnl/Ltr, 2: Crop
210	Out Zoom	50–200	50–200 (%)
211	Out H Position	-100–+100	-10–+100 (%)
212	Out V Position	-100–+100	-100–+100 (%)
220	Noise Reduction	0–63	0: Off, 1–63
221	Enhancement	0–63	0: Off, 1–63
222	Video Red Gain	-100–+100	-100–+100
223	Video Green Gain	-100–+100	-100–+100
224	Video Blue Gain	-100–+100	-100–+100
225	Motion Detection	0–1	0: Off, 1: On
230	Gamma Min Lv	0–512	0–512
231	Gamma Lo Pos	0–512	0–512
232	Gamma Lo Lv	-512–+511	-512–+511
233	Gamma Hi Pos	512–1023	512–1023
234	Gamma Hi Lv	-512–+511	-512–+511
235	Gamma Max Lv	512–1023	512–1023
240	AudioDelayTime	0.00–15.00	0.00–15.00 0.00–15.00 (Frames) (For 59.94i/59.94p: 0.00–500.0 msec) (For 50i/50p: 0.00–600.0 msec)
250	Audio Low Gain	-12–+12	-12–+12 (dB)
251	Audio Mid Gain	-12–+12	-12–+12 (dB)
252	Audio High Gain	-12–+12	-12–+12 (dB)
260	Sync Source	0–3	0: Auto, 1: REF Input, 2: Video Input, 3: Internal
261	Sync Adjust	-1000–+1000	-1000–+1000 (clock)

Item Number	Item Name	Parameter Values	Corresponding Set Value
270	TC Generate	0–3	0: Off, 1: Free Run, 2: Thru, 3: Offset Note: With VC-200HD, ERR:5; is returned when 2:Thru or 3:Offset is selected.
271	TC Offset	0–23	0–23 (h)
		0–59	0–59 (m)
		0–59	0–59 (s)
		0–29	0–29 (f)
274	User Bit	0–255	00–FF
		0–255	00–FF
		0–255	00–FF
		0–255	00–FF
275	Drop Frame	0–1	0: Drop, 1: Non drop
300	Video Out Format	0–25	0: Auto, 1: 1080/59.94p, 2: 1080/50p, 3: 1080/59.94i, 4: 1080/50i, 5: 720/59.94p, 6: 720/50p, 7: 480/59.94p, 8: 576/50p, 9: 480/59.94i, 10: 576/50i, 11: 1080/29.97PsF, 12: 1080/25PsF, 13: 1080/23.98PsF, 14: 1080/23pOv59i, 15: 720/29pOv59p, 16: 720/25pOv50p, 17: 720/23pOv59p, 18: 1080/60p, 19: 1080/60i, 20: 1080/30PsF, 21: 1080/24PsF, 22: 1080/24pOv60i, 23: 720/60p, 24: 720/30pOv60p, 25: 720/24pOv60p
311	Out 480i Setup	0–1	0: 0IRE, 1: 7.5IRE
312	HDV/DV CGMS Lv	0–3	0: Off, 1: Copy Free, 2: Copy Once, 3: Not Copy
320	Audio Out Fs	0–1	0: 48kHz, 1: 32kHz
330	AudioOutCh1&2Lv	-41–+12	-41: Mute, -40–+12: -40dB–+12dB
331	AudioOutCh3&4Lv	-41–+12	-41: Mute, -40–+12: -40dB–+12dB
350	Out Ch1&2 NomLv	0–3	0: +4dBu, 1: -2dBu, 2: -4dBu, 3: -10dBu
351	Out Ch3&4 NomLv	0–3	0: +0dBu, 1: -6dBu, 2: -8dBu, 3: -14dBu
360	DV Locked Audio	0–1	0: Off, 1: On
390	Test Pattern	0–4	0: Off, 1: 75%, 2: 100%, 3: Hatch, 4: Ramp
391	Test Tone	0–3	0: Off, 1: -20dB@1kHz, 2: -10dB@1kHz, 3: 0dB@1kHz
400	SDI IN Audio Ch	0–15	0: AB:1/2 CD:1/2, 1: AB:1/2 CD:3/4, 2: AB:1/2 CD:5/6, 3: AB:1/2 CD:7/8, 4: AB:3/4 CD:1/2, 5: AB:3/4 CD:3/4, 6: AB:3/4 CD:5/6, 7: AB:3/4 CD:7/8, 8: AB:5/6 CD:1/2, 9: AB:5/6 CD:3/4, 10: AB:5/6 CD:5/6, 11: AB:5/6 CD:7/8, 12: AB:7/8 CD:1/2, 13: AB:7/8 CD:3/4, 14: AB:7/8 CD:5/6, 15: AB:7/8 CD:7/8
410	SDI IN TC	0–1	0: VITC, 1: LTC
450	SDI OUT Audio Ch	0–11	0: AB:1/2 CD:3/4, 1: AB:1/2 CD:5/6, 2: AB:1/2 CD:7/8, 3: AB:3/4 CD:1/2, 4: AB:3/4 CD:5/6, 5: AB:3/4 CD:7/8, 6: AB:5/6 CD:1/2, 7: AB:5/6 CD:3/4, 8: AB:5/6 CD:7/8, 9: AB:7/8 CD:1/2, 10: AB:7/8 CD:3/4, 11: AB:7/8 CD:5/6
460	SDI OUT TC	0–1	0: VITC, 1: LTC
480	SDI Thru	0–1	0: Off, 1: On
900	LCD Contrast	0–10	0–10
901	Light Dimmer	0–10	0–10
950	Save User Preset	0–2	0: Preset 1, 1: Preset 2, 2: Preset 3
990	Bulk Dump	Note: When DAT is sent, a bulk dump is returned.	
999	Factory Reset	Note: When DAT is sent, the menu is executed.	
1000–1999	User Preset 1	Note: This is the user preset region. The user preset contents follow menu numbers 100–999, and the user preset numbers are numbers that have 1000, 2000, or 3000 added to each menu number. When menu number 1132, 1950, 1990, 1999, 2132, 2950, 2990, 2999, 3132, 3950, 3990, or 3999 is sent, ERR:5; is returned.	
2000–2999	User Preset 2		
3000–3999	User Preset 3		