LAN/RS-232 Basic Control Commands

STREAMING VIDEO SWITCHER
V-160HD
Version 3.5 and later

DIRECT STREAMING VIDEO SWITCHER
V-80HD
Version 1.3 and later

DIRECT STREAMING AV MIXER
VR-120HD
Version 2.2 and later

DIRECT STREAMING AV MIXER
VR-6HD
Version 2.2 and later

VIDEO SWITCHER
V-1-4K
Version 1.0 and later

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Basic control commands

The V-160HD/V-80HD/VR-120HD/VR-6HD/V-1-4K supports two types of remote interface communication: LAN and RS-232.

By using the LAN CONTROL port or the RS-232 connector and sending the specified command from the controlling device to the V-160HD/V-80HD/VR-120HD/VR-6HD/V-1-4K, you can remotely control these products.

* This manual describes the basic control commands for the products in question.
* You can use the basic control commands at the same time as the regular commands.

MEMO

Refer to the remote control guide for each product for how to configure the LAN or RS-232 interface.

Command format

Commands are formatted using the configuration shown below.

* Commands are all in ASCII code.
* The commands are common to both the LAN and RS-232 interfaces.

Command code:parameter;parameter;

Command code

Specifies the command type (single-byte alphanumeric characters).

Parameter

This is appended to a command that requires a parameter.

The command and the parameter portion are separated by a colon.

When there are multiple parameters, they are separated by commas.

";" (semicolon)

The semicolon is the code that indicates the end of the command.

For the response commands sent from the product in question, a carriage return code (0x0A, LF, ¥n) is sent after the semicolon.

VIDEO

QVISRC	Get Video Input Source		
Transmitted command	**QVISRC:a;**		
	a	V-160HD	0–51
		V-80HD	0–56
		VR-120HD	0–36
		VR-6HD	0–28
		V-1-4K	0–15
Response command	**VISRC:a,b;ACK;**		
	a	V-160HD	0–51
		V-80HD	0–56
		VR-120HD	0–36
		VR-6HD	0–28
		V-1-4K	0–14
	b	V-160HD	HDMI1–8, SDI1–8, STILL1–16, INPUT1–20
		V-80HD	HDMI1–4, SDI1–4, STILL1–32, V.PLAYER, SRT, INPUT1–16
		VR-120HD	HDMI1–6, SDI1–6, STILL1–16, V.PLAYER, SRT, INPUT1–8
		VR-6HD	HDMI1–6, STILL1–16, V.PLAYER, SRT, INPUT1–6
		V-1-4K	HDMI1–5, STILL1–2, INPUT1–8, BLACK

Examples of settings

Transmitted command	**QVISRC:0;**	Checks the zeroth Video Input Source
Response command	**VISRC:0,HDMI1;ACK;**	The zeroth Video Input Source is HDMI1

QVIST	Get Video Input Status		
Transmitted command	**QVIST:a;**		
	a	V-160HD	HDMI1–8, SDI1–8
		V-80HD	HDMI1–4, SDI1–4
		VR-120HD	HDMI1–6, SDI1–6
		VR-6HD	HDMI1–6
		V-1-4K	HDMI1–5
Response command	**VIST:a,b;ACK;**		
	a	V-160HD	HDMI1–8, SDI1–8
		V-80HD	HDMI1–4, SDI1–4
		VR-120HD	HDMI1–6, SDI1–6
		VR-6HD	HDMI1–6
		V-1-4K	HDMI1–5
	b		NOSIGNAL, DETECTED, UNSUPPORTED

Examples of settings

Transmitted command	**QVIST:HDMI1;**	Check the HDMI1 Video Input Status
Response command	**VIST:HDMI1,DETECTED;ACK;**	The HDMI1 Video Input Status is DETECTED

VFL	Set Video Fader Level		
Transmitted command	**VFL:a;**		
	a	V-160HD	0–2047
		V-80HD	
		VR-120HD	
		VR-6HD	
		V-1-4K	0–4095
Response command	**ACK;**		

Examples of settings

Transmitted command	**VFL:1024;**	Set Video Fader Level to "1024"
Response command	**ACK;**	

QVFL	Get Video Fader Level		
Transmitted command	**QVFL;**		
Response command	**VFL:a;ACK;**		
	a	V-160HD	0–2047
		V-80HD	
		VR-120HD	
		VR-6HD	
		V-1-4K	0–4095

Examples of settings

Transmitted command	**QVFL;**	Check Video Fader Level
Response command	**VFL:1024;ACK;**	Video Fader Level is "1024"

PGM	Select PGM video channel		
Transmitted command	**PGM:a;**		
	a	V-160HD	HDMI1–8, SDI1–8, STILL1–16, INPUT1–20
		V-80HD	HDMI1–4, SDI1–4, STILL1–32, V.PLAYER, SRT, INPUT1–16
		VR-120HD	HDMI1–6, SDI1–6, STILL1–16, V.PLAYER, SRT, INPUT1–8
		VR-6HD	HDMI1–6, STILL1–16, V.PLAYER, SRT, INPUT1–6
		V-1-4K	HDMI1–5, STILL1–2, INPUT1–8
Response command	**ACK;**		

Examples of settings

Transmitted command	**PGM:INPUT2;**	Select "INPUT2" for the PGM video
Response command	**ACK;**	

QPGM;	Get channel of the PGM video
Transmitted command	**QPGM;**

Response command	**PGM:a,b;ACK;**			
	a	V-160HD	HDMI1–8, SDI1–8, STILL1–16	
		V-80HD	HDMI1–4, SDI1–4, STILL1–32, V.PLAYER, SRT	
		VR-120HD	HDMI1–6, SDI1–6, STILL1–16, V.PLAYER, SRT	
		VR-6HD	HDMI1–6, STILL1–16, V.PLAYER, SRT	
		V-1-4K	HDMI1–5, STILL1–2	
	b	V-160HD	INPUT1–20	* Only when selected as an input channel
		V-80HD	INPUT1–16	
		VR-120HD	INPUT1–8	
		VR-6HD	INPUT1–6	
		V-1-4K	INPUT1–8	

Examples of settings

Transmitted command	**QPGM;**	Check channel of PGM video
Response command	**PGM:HDMI2,INPUT2;ACK;**	PGM video channel is INPUT2 (HDMI2)

PST	Select PST video channel

Transmitted command	**PST:a;**		
	a	V-160HD	HDMI1–8, SDI1–8, STILL1–16, INPUT1–20
		V-80HD	HDMI1–4, SDI1–4, STILL1–32, V.PLAYER, SRT, INPUT1–16
		VR-120HD	HDMI1–6, SDI1–6, STILL1–16, V.PLAYER, SRT, INPUT1–8
		VR-6HD	HDMI1–6, STILL1–16, V.PLAYER, SRT, INPUT1–6
		V-1-4K	HDMI1–5, STILL1–2, INPUT1–8
Response command	**ACK;**		

QPST	Get PST video channel

Transmitted command	**QPST;**			
Response command	**PST:a,b;ACK;**			
	a	V-160HD	HDMI1–8, SDI1–8, STILL1–16	
		V-80HD	HDMI1–4, SDI1–4, STILL1–32, V.PLAYER, SRT	
		VR-120HD	HDMI1–6, SDI1–6, STILL1–16, V.PLAYER, SRT	
		VR-6HD	HDMI1–6, STILL1–16, V.PLAYER, SRT	
		V-1-4K	HDMI1–5, STILL1–2	
	b	V-160HD	INPUT1–20	* Only when selected as an input channel
		V-80HD	INPUT1–16	
		VR-120HD	INPUT1–8	
		VR-6HD	INPUT1–6	
		V-1-4K	INPUT1–8	

AUX	Select channel of video to transmit to AUX bus (V-160HD/V-80HD/VR-120HD/VR-6HD)			
Transmitted command	**AUX:a,b;**			
	a	V-160HD	AUX1–3	
		V-80HD	AUX1–2	
		VR-120HD	AUX1–3	
		VR-6HD	AUX1	
	b	V-160HD	HDMI1–8, SDI1–8, STILL1–16, INPUT1–20, PGMLINK	* PGMLINK can be set when the AUX Linked PGM parameter is enabled.
		V-80HD	HDMI1–4, SDI1–4, STILL1–32, V.PLAYER, SRT, INPUT1–16, PGMLINK	
		VR-120HD	HDMI1–6, SDI1–6, STILL1–16, V.PLAYER, SRT, INPUT1–8, PGMLINK	
		VR-6HD	HDMI1–6, STILL1–16, V.PLAYER, SRT, INPUT1–6, PGMLINK	
Response command	**ACK;**			

QAUX	Get channel of video to transmit to AUX bus (V-160HD/V-80HD/VR-120HD/VR-6HD)			
Transmitted command	**QAUX:a;**			
	a	V-160HD	AUX1–3	
		V-80HD	AUX1–2	
		VR-120HD	AUX1–3	
		VR-6HD	AUX1	
Response command	**AUX:a,b,c;ACK;**			
	a	V-160HD	AUX1–3	
		V-80HD	AUX1–2	
		VR-120HD	AUX1–3	
		VR-6HD	AUX1	
	b	V-160HD	HDMI1–8, SDI1–8, STILL1–16	
		V-80HD	HDMI1–4, SDI1–4, STILL1–32, V.PLAYER, SRT	
		VR-120HD	HDMI1–6, SDI1–6, STILL1–16, V.PLAYER, SRT	
		VR-6HD	HDMI1–6, STILL1–16, V.PLAYER, SRT	
	c	V-160HD	INPUT1–20	* Only when selected as an input channel
		V-80HD	INPUT1–16	
		VR-120HD	INPUT1–8	
		VR-6HD	INPUT1–6	

ATO	Auto-switch video (enabled when SPLIT is OFF)
Transmitted command	**ATO;**
Response command	**ACK;**

ATO	Auto-switch video (enabled when SPLIT is OFF)		
Transmitted command	**ATO:a;**		
	a	V-160HD	HDMI1–8, SDI1–8, STILL1–16, INPUT1–20
		V-80HD	HDMI1–4, SDI1–4, STILL1–32, V.PLAYER, SRT, INPUT1–16
		VR-120HD	HDMI1–6, SDI1–6, STILL1–16, V.PLAYER, SRT, INPUT1–8
		VR-6HD	HDMI1–6, STILL1–16, V.PLAYER, SRT, INPUT1–6
		V-1-4K	HDMI1–5, STILL1–2, INPUT1–8
Response command	**ACK;**		

ATO	Auto-switch video (enabled when SPLIT is OFF)			
Transmitted command	**ATO:a,b;**			
	a	V-160HD	HDMI1–8, SDI1–8, STILL1–16, INPUT1–20	
		V-80HD	HDMI1–4, SDI1–4, STILL1–32, V.PLAYER, SRT, INPUT1–16	
		VR-120HD	HDMI1–6, SDI1–6, STILL1–16, V.PLAYER, SRT, INPUT1–8	
		VR-6HD	HDMI1–6, STILL1–16, V.PLAYER, SRT, INPUT1–6	
		V-1-4K	HDMI1–5, STILL1–2, INPUT1–8	
	b		-1, 0–40	-1: the setting for Transition Time is used 0–40: 0.0–4.0sec
Response command	**ACK;**			

Examples of settings

Transmitted command	**ATO:INPUT1,10;**	Auto-switch between videos for INPUT1 every 1.0 sec
Response command	**ACK;**	

CUT	Switch between video using CUT (enabled when SPLIT is OFF)
Transmitted command	**CUT;**
Response command	**ACK;**

CUT	Switch between video using CUT (enabled when SPLIT is OFF)		
Transmitted command	**CUT:a;**		
	a	V-160HD	HDMI1–8, SDI1–8, STILL1–16, INPUT1–20
		V-80HD	HDMI1–4, SDI1–4, STILL1–32, V.PLAYER, SRT, INPUT1–16
		VR-120HD	HDMI1–6, SDI1–6, STILL1–16, V.PLAYER, SRT, INPUT1–8
		VR-6HD	HDMI1–6, STILL1–16, V.PLAYER, SRT, INPUT1–6
		V-1-4K	HDMI1–5, STILL1–2, INPUT1–8
Response command	**ACK;**		

QATG	Get status of Auto Transition	
Transmitted command	**QATG;**	
Response command	**ATG:a;ACK;**	
	a	OFF, ON

Examples of settings

Transmitted command	**QATG;**	Check whether Auto Transition is being used
Response command	**ATG:ON;ACK;**	Auto Transition in use

FRZ	Switch between Freeze ON/OFF (V-160HD/V-80HD/VR-120HD/VR-6HD)
Transmitted command	**FRZ;**
Response command	**ACK;**

FRZ	Set Freeze ON/OFF (V-160HD/V-80HD/VR-120HD/VR-6HD)	
Transmitted command	**FRZ:a;**	
	a	OFF, ON
Response command	**ACK;**	

QFRZ	Get status of Freeze (V-160HD/V-80HD/VR-120HD/VR-6HD)	
Transmitted command	**QFRZ;**	
Response command	**FRZ:a;ACK;**	
	a	OFF, ON

FTB	Switch between Output Fade ON/OFF	
Transmitted command	**FTB;**	
Response command	**ACK;**	

FTB	Set Output Fade ON/OFF	
Transmitted command	**FTB:a;**	
	a	OFF, ON
Response command	**ACK;**	

QFTB	Get status of Output Fade	
Transmitted command	**QFTB;**	
Response command	**FTB:a;ACK;**	
	a	OFF, ON, FADEIN, FADEOUT

VIS	Set Video Input Assign		
Transmitted command	**VIS:a,b;**		
	a	V-160HD	INPUT1–20
		V-80HD	INPUT1–16
		VR-120HD	INPUT1–8
		VR-6HD	INPUT1–6
		V-1-4K	INPUT1–8
	b	V-160HD	HDMI1–8, SDI1–8, STILL1–16, N/A
		V-80HD	HDMI1–4, SDI1–4, STILL1–32, V.PLAYER, SRT, STATUS1–2, TIME, N/A
		VR-120HD	HDMI1–6, SDI1–6, STILL1–16, V.PLAYER, SRT, STATUS1–2, TIME, N/A
		VR-6HD	HDMI1–6, STILL1–16, V.PLAYER, SRT, N/A
		V-1-4K	HDMI, STILL1–2, BLACK, N/A
Response command	**ACK;**		

Examples of settings

Transmitted command	**VIS:INPUT1,HDMI1;**	Set Input Assign of INPUT1 to "HDMI1"
Response command	**ACK;**	

QVIS	Get Video Input Assign		
Transmitted command	**QVIS:a;**		
	a	V-160HD	INPUT1–20
		V-80HD	INPUT1–16
		VR-120HD	INPUT1–8
		VR-6HD	INPUT1–6
		V-1-4K	INPUT1–8
Response command	**VIS:a,b;ACK;**		
	a	V-160HD	INPUT1–20
		V-80HD	INPUT1–16
		VR-120HD	INPUT1–8
		VR-6HD	INPUT1–6
		V-1-4K	INPUT1–8
	b	V-160HD	HDMI1–8, SDI1–8, STILL1–16, N/A
		V-80HD	HDMI1–4, SDI1–4, STILL1–32, V.PLAYER, SRT, STATUS1–2, TIME, N/A
		VR-120HD	HDMI1–6, SDI1–6, STILL1–16, V.PLAYER, SRT, STATUS1–2, TIME, N/A
		VR-6HD	HDMI1–6, STILL1–16, V.PLAYER, SRT, N/A
		V-1-4K	HDMI, STILL1–2, BLACK, N/A

Examples of settings

Transmitted command	**QVIS:INPUT1;**	Get Input Assign for INPUT1
Response command	**VIS:INPUT1,HDMI1;ACK;**	INPUT1 is HDMI1

VOS	Set Video Output Assign		
Transmitted command	**VOS:a,b;**		
	a	V-160HD	HDMI1–3, SDI1–3, USB
		V-80HD	HDMI1–3, SDI1–2, USB, STREAM, LCD
		VR-120HD	HDMI1–3, SDI1–3, USB, STREAM, LCD
		VR-6HD	HDMI1–3, USB, STREAM, LCD
		V-1-4K	HDMI3–4
	b	V-160HD	PGM, SUB, PVW, AUX1–3, DSK1–2, MULTIVIEW, INPUTVIEW1, STILLVIEW
		V-80HD	PGM, SUB, PVW, AUX1–2, DSK1, MULTIVIEW, INPUTVIEW1–2, QUADVIEW
		VR-120HD	PGM, SUB, PVW, AUX1–3, DSK1–2, MULTIVIEW, INPUTVIEW1, STILLVIEW
		VR-6HD	PGM, SUB, PVW, AUX1, DSK1, MULTIVIEW, STILLVIEW
		V-1-4K	PGM, PVW, INPUT1–8
Response command	**ACK;**		

QVOS	Get Video Output Assign		
Transmitted command	**QVOS:a;**		
	a	V-160HD	HDMI1–3, SDI1–3, USB
		V-80HD	HDMI1–3, SDI1–2, USB, STREAM, LCD
		VR-120HD	HDMI1–3, SDI1–3, USB, STREAM, LCD
		VR-6HD	HDMI1–3, USB, STREAM, LCD
		V-1-4K	HDMI3–4

Response command	**VOS:a,b;ACK;**		
	a	V-160HD	HDMI1–3, SDI1–3, USB
		V-80HD	HDMI1–3, SDI1–2, USB, STREAM, LCD
		VR-120HD	HDMI1–3, SDI1–3, USB, STREAM, LCD
		VR-6HD	HDMI1–3, USB, STREAM, LCD
		V-1-4K	HDMI3–4
	b	V-160HD	PGM, SUB, PVW, AUX1–3, DSK1–2, MULTIVIEW, INPUTVIEW1, STILLVIEW
		V-80HD	PGM, SUB, PVW, AUX1–2, DSK1, MULTIVIEW, INPUTVIEW1–2, QUADVIEW
		VR-120HD	PGM, SUB, PVW, AUX1–3, DSK1–2, MULTIVIEW, INPUTVIEW1, STILLVIEW
		VR-6HD	PGM, SUB, PVW, AUX1, DSK1, MULTIVIEW, STILLVIEW
		V-1-4K	PGM, PVW, INPUT1–8

TRS	Set Transition Type	
Transmitted command	**TRS:a;**	
	a	MIX, WIPE
Response command	**ACK;**	

QTRS	Get Transition Type	
Transmitted command	**QTRS;**	
Response command	**TRS:a;ACK;**	
	a	MIX, WIPE

TIM	Set Transition Time		
Transmitted command	**TIM:a,b;**		
	a	V-160HD	MIX, WIPE, PinP1–4, DSK1–2, OUTPUTFADE
		V-80HD	MIX, WIPE, PinP1–2, DSK1, OUTPUTFADE
		VR-120HD	MIX, WIPE, PinP1–4, DSK1–2, OUTPUTFADE
		VR-6HD	MIX, WIPE, PinP1–2, DSK1, OUTPUTFADE
		V-1-4K	MIX, WIPE, DSK1, OUTPUTFADE
	b	0–40	Transition Time: 0.0–4.0sec
Response command	**ACK;**		

Examples of settings

Transmitted command	**TIM:MIX,10;**	Change MIX Transition Time to 1.0 sec
Response command	**ACK;**	

QTIM	Get Transition Time	
Transmitted command	**QTIM:a;**	
	a	V-160HD	MIX, WIPE, PinP1–4, DSK1–2, OUTPUTFADE
		V-80HD	MIX, WIPE, PinP1–2, DSK1, OUTPUTFADE
		VR-120HD	MIX, WIPE, PinP1–4, DSK1–2, OUTPUTFADE
		VR-6HD	MIX, WIPE, PinP1–2, DSK1, OUTPUTFADE
		V-1-4K	MIX, WIPE, DSK, OUTPUTFADE

Response command	**TIM:a,b;ACK;**			
	a	V-160HD	MIX, WIPE, PinP1–4, DSK1–2, OUTPUTFADE	
		V-80HD	MIX, WIPE, PinP1–2, DSK1, OUTPUTFADE	
		VR-120HD	MIX, WIPE, PinP1–4, DSK1–2, OUTPUTFADE	
		VR-6HD	MIX, WIPE, PinP1–2, DSK1, OUTPUTFADE	
		V-1-4K	MIX, WIPE, DSK, OUTPUTFADE	
	b		0–40	Transition Time: 0.0–4.0sec

Examples of settings

Transmitted command	**QTIM:MIX;**	Query for MIX Transition Time
Response command	**TIM:MIX,10;ACK;**	MIX Transition Time is 1.0 sec

PIS	Set PinP Source (V-160HD/V-80HD/VR-120HD/VR-6HD)		
Transmitted command	**PIS:a,b;**		
	a	V-160HD	PinP1–4
		V-80HD	PinP1–2
		VR-120HD	PinP1–4
		VR-6HD	PinP1–2
	b	V-160HD	HDMI1–8, SDI1–8, STILL1–16, INPUT1–20
		V-80HD	HDMI1–4, SDI1–4, STILL1–32, V.PLAYER, SRT, INPUT1–16
		VR-120HD	HDMI1–6, SDI1–6, STILL1–16, V.PLAYER, SRT, INPUT1–8
		VR-6HD	HDMI1–6, STILL1–16, V.PLAYER, SRT, INPUT1–6
Response command	**ACK;**		

QPIS	Get PinP Source (V-160HD/V-80HD/VR-120HD/VR-6HD)		
Transmitted command	**QPIS:a;**		
	a	V-160HD	PinP1–4
		V-80HD	PinP1–2
		VR-120HD	PinP1–4
		VR-6HD	PinP1–2
Response command	**PIS:a,b;ACK;**		
	a	V-160HD	PinP1–4
		V-80HD	PinP1–2
		VR-120HD	PinP1–4
		VR-6HD	PinP1–2
	b	V-160HD	HDMI1–8, SDI1–8, STILL1–16, INPUT1–20
		V-80HD	HDMI1–4, SDI1–4, STILL1–32, V.PLAYER, SRT, INPUT1–16
		VR-120HD	HDMI1–6, SDI1–6, STILL1–16, V.PLAYER, SRT, INPUT1–8
		VR-6HD	HDMI1–6, STILL1–16, V.PLAYER, SRT, INPUT1–6

PPS	Switch between PinP PGM ON/OFF		
Transmitted command	**PPS:a;**		
	a	V-160HD	PinP1–4
		V-80HD	PinP1–2
		VR-120HD	PinP1–4
		VR-6HD	PinP1–2
		V-1-4K	PinP1
Response command	**ACK;**		

PPS	Set PinP PGM ON/OFF		
Transmitted command	**PPS:a,b;**		
	a	V-160HD	PinP1–4
		V-80HD	PinP1–2
		VR-120HD	PinP1–4
		VR-6HD	PinP1–2
		V-1-4K	PinP1
	b		OFF, ON
Response command	**ACK;**		

QPPS	Get status of PinP PGM		
Transmitted command	**QPPS:a;**		
	a	V-160HD	PinP1–4
		V-80HD	PinP1–2
		VR-120HD	PinP1–4
		VR-6HD	PinP1–2
		V-1-4K	PinP1
Response command	**PPS:a,b;ACK;**		
	a	V-160HD	PinP1–4
		V-80HD	PinP1–2
		VR-120HD	PinP1–4
		VR-6HD	PinP1–2
		V-1-4K	PinP1
	b		OFF, ON

PPW	Switch between PinP PVW ON/OFF		
Transmitted command	**PPW:a;**		
	a	V-160HD	PinP1–4
		V-80HD	PinP1–2
		VR-120HD	PinP1–4
		VR-6HD	PinP1–2
		V-1-4K	PinP1
Response command	**ACK;**		

PPW	Set PinP PVW ON/OFF		
Transmitted command	**PPW:a,b;**		
	a	V-160HD	PinP1–4
		V-80HD	PinP1–2
		VR-120HD	PinP1–4
		VR-6HD	PinP1–2
		V-1-4K	PinP1
	b		OFF, ON
Response command	**ACK;**		

QPPW	Get PinP PVW status			
Transmitted command	**QPPW:a;**			
	a	V-160HD	PinP1–4	
		V-80HD	PinP1–2	
		VR-120HD	PinP1–4	
		VR-6HD	PinP1–2	
		V-1-4K	PinP1	
Response command	**PPW:a,b;ACK;**			
	a	V-160HD	PinP1–4	
		V-80HD	PinP1–2	
		VR-120HD	PinP1–4	
		VR-6HD	PinP1–2	
		V-1-4K	PinP1	
	b		OFF, ON	

PIP	Change PinP Window Position H/V			
Transmitted command	**PIP:a,h,v;**			
	a	V-160HD	PinP1–4	
		V-80HD	PinP1–2	
		VR-120HD	PinP1–4	
		VR-6HD	PinP1–2	
		V-1-4K	PinP1	
	h		-500–0–500	Position H: -50.0–0.0–50.0%
	v		-500–0–500	Position V: -50.0–0.0–50.0%
Response command	**ACK;**			

QPIP	Get PinP Window Position H/V			
Transmitted command	**QPIP:a;**			
	a	V-160HD	PinP1–4	
		V-80HD	PinP1–2	
		VR-120HD	PinP1–4	
		VR-6HD	PinP1–2	
		V-1-4K	PinP1	
Response command	**PIP:a,h,v;ACK;**			
	a	V-160HD	PinP1–4	
		V-80HD	PinP1–2	
		VR-120HD	PinP1–4	
		VR-6HD	PinP1–2	
		V-1-4K	PinP1	
	h		-500–0–500	Position H: -50.0–0.0–50.0%
	v		-500–0–500	Position V: -50.0–0.0–50.0%

DSK	Switch between DSK PGM ON/OFF		
Transmitted command	**DSK:a;**		
	a	V-160HD	DSK1–2
		V-80HD	DSK1
		VR-120HD	DSK1–2
		VR-6HD	DSK1
		V-1-4K	DSK1
Response command	**ACK;**		

DSK	Set DSK PGM ON/OFF		
Transmitted command	**DSK:a,b;**		
	a	V-160HD	DSK1–2
		V-80HD	DSK1
		VR-120HD	DSK1–2
		VR-6HD	DSK1
		V-1-4K	DSK1
	b		OFF, ON
Response command	**ACK;**		

QDSK	Get status of DSK PGM		
Transmitted command	**QDSK:a;**		
	a	V-160HD	DSK1–2
		V-80HD	DSK1
		VR-120HD	DSK1–2
		VR-6HD	DSK1
		V-1-4K	DSK1
Response command	**DSK:a,b;ACK;**		
	a	V-160HD	DSK1–2
		V-80HD	DSK1
		VR-120HD	DSK1–2
		VR-6HD	DSK1
		V-1-4K	DSK1
	b		OFF, ON

DVW	Switch between DSK PVW ON/OFF		
Transmitted command	**DVW:a;**		
	a	V-160HD	DSK1–2
		V-80HD	DSK1
		VR-120HD	DSK1–2
		VR-6HD	DSK1
		V-1-4K	DSK1
Response command	**ACK;**		

DVW	Set DSK PVW ON/OFF		
Transmitted command	**DVW:a,b;**		
	a	V-160HD	DSK1–2
		V-80HD	DSK1
		VR-120HD	DSK1–2
		VR-6HD	DSK1
		V-1-4K	DSK1
	b		OFF, ON
Response command	**ACK;**		

QDVW	Get status of DSK PVW		
Transmitted command	**QDVW:a;**		
	a	V-160HD	DSK1–2
		V-80HD	DSK1
		VR-120HD	DSK1–2
		VR-6HD	DSK1
		V-1-4K	DSK1
Response command	**DVW:a,b;ACK;**		
	a	V-160HD	DSK1–2
		V-80HD	DSK1
		VR-120HD	DSK1–2
		VR-6HD	DSK1
		V-1-4K	DSK1
	b		OFF, ON

DSS	Change DSK Fill Source		
Transmitted command	**DSS:a,b;**		
	a	V-160HD	DSK1–2
		V-80HD	DSK1
		VR-120HD	DSK1–2
		VR-6HD	DSK1
		V-1-4K	DSK1
	b	V-160HD	HDMI1–8, SDI1–8, STILL1–16, INPUT1–20
		V-80HD	HDMI1–4, SDI1–4, STILL1–32, V.PLAYER, SRT, INPUT1–16
		VR-120HD	HDMI1–6, SDI1–6, STILL1–16, V.PLAYER, SRT, INPUT1–8
		VR-6HD	HDMI1–6, STILL1–16, V.PLAYER, SRT, INPUT1–6
		V-1-4K	HDMI1–5, STILL1–2, INPUT1–8
Response command	**ACK;**		

QDSS	Get DSK Fill Source		
Transmitted command	**QDSS:a;**		
	a	V-160HD	DSK1–2
		V-80HD	DSK1
		VR-120HD	DSK1–2
		VR-6HD	DSK1
		V-1-4K	DSK1
Response command	**DSS:a,b,c;ACK;**		
	a	V-160HD	DSK1–2
		V-80HD	DSK1
		VR-120HD	DSK1–2
		VR-6HD	DSK1
		V-1-4K	DSK1
	b	V-160HD	HDMI1–8, SDI1–8, STILL1–16
		V-80HD	HDMI1–4, SDI1–4, STILL1–32, V.PLAYER, SRT
		VR-120HD	HDMI1–6, SDI1–6, STILL1–16, V.PLAYER, SRT
		VR-6HD	HDMI1–6, STILL1–16, V.PLAYER, SRT
		V-1-4K	HDMI1–5, STILL1–2, INPUT1–8
	c	V-160HD	INPUT1–20
		V-80HD	INPUT1–16
		VR-120HD	INPUT1–8
		VR-6HD	INPUT1–6
		V-1-4K	INPUT1–8

KYL	Change DSK Level		
Transmitted command	**KYL:a,b;**		
	a	V-160HD	DSK1–2
		V-80HD	DSK1
		VR-120HD	DSK1–2
		VR-6HD	DSK1
		V-1-4K	DSK1
	b		0–255
Response command	**ACK;**		

QKYL	Get DSK Level		
Transmitted command	**QKYL:a;**		
	a	V-160HD	DSK1–2
		V-80HD	DSK1
		VR-120HD	DSK1–2
		VR-6HD	DSK1
		V-1-4K	DSK1
Response command	**KYL:a,b;ACK;**		
	a	V-160HD	DSK1–2
		V-80HD	DSK1
		VR-120HD	DSK1–2
		VR-6HD	DSK1
		V-1-4K	DSK1
	b		0–255

KYG	Change DSK Gain		
Transmitted command	**KYG:a,b;**		
	a	V-160HD	DSK1–2
		V-80HD	DSK1
		VR-120HD	DSK1–2
		VR-6HD	DSK1
		V-1-4K	DSK1
	b		0–255
Response command	**ACK;**		

QKYG	Get DSK Gain		
Transmitted command	**QKYG:a;**		
	a	V-160HD	DSK1–2
		V-80HD	DSK1
		VR-120HD	DSK1–2
		VR-6HD	DSK1
		V-1-4K	DSK1
Response command	**KYG:a,b;ACK;**		
	a	V-160HD	DSK1–2
		V-80HD	DSK1
		VR-120HD	DSK1–2
		VR-6HD	DSK1
		V-1-4K	DSK1
	b		0–255

SPS	Switch between SPLIT ON/OFF			
Transmitted command	**SPS:a;**			
	a	V-160HD	SPLIT1–2	
		V-80HD	SPLIT1–2	
		VR-120HD	SPLIT1–2	
		VR-6HD	SPLIT1	
		V-1-4K	SPLIT1	
Response command	**ACK;**			

SPS	Set SPLIT ON/OFF			
Transmitted command	**SPS:a,b;**			
	a	V-160HD	SPLIT1–2	
		V-80HD	SPLIT1–2	
		VR-120HD	SPLIT1–2	
		VR-6HD	SPLIT1	
		V-1-4K	SPLIT1	
	b		OFF, ON	
Response command	**ACK;**			

QSPS	Get status of SPLIT			
Transmitted command	**QSPS:a;**			
	a	V-160HD	SPLIT1–2	
		V-80HD	SPLIT1–2	
		VR-120HD	SPLIT1–2	
		VR-6HD	SPLIT1	
		V-1-4K	SPLIT1	
Response command	**SPS:a,b;ACK;**			
	a	V-160HD	SPLIT1–2	
		V-80HD	SPLIT1–2	
		VR-120HD	SPLIT1–2	
		VR-6HD	SPLIT1	
		V-1-4K	SPLIT1	
	b		OFF, ON	

SPT	Set SPLIT PGM/A-Center, PST/B-Center			
Transmitted command	**SPT:a,b,c;**			
	a	V-160HD	SPLIT1–2	
		V-80HD	SPLIT1–2	
		VR-120HD	SPLIT1–2	
		VR-6HD	SPLIT1	
		V-1-4K	SPLIT1	
	b		-500–0–500	PGM/A-Center: -50.0–0.0–50.0%
	c		-500–0–500	PST/B-Center: -50.0–0.0–50.0%
Response command	**ACK;**			

SPT	Set SPLIT PGM/A-Center, PST/B-Center, Center Position			
Transmitted command	**SPT:a,b,c,d;**			
	a	V-160HD	SPLIT1–2	
		V-80HD	SPLIT1–2	
		VR-120HD	SPLIT1–2	
		VR-6HD	SPLIT1	
		V-1-4K	SPLIT1	
	b		-500–0–500	PGM/A-Center: -50.0–0.0–50.0%
	c		-500–0–500	PST/B-Center: -50.0–0.0–50.0%
	d		-500–0–500	Center Position: -50.0–0.0–50.0%
Response command	**ACK;**			

QSPT	Get SPLIT PGM/A-Center, PST/B-Center, Center Position			
Transmitted command	**QSPT:a;**			
	a	V-160HD	SPLIT1–2	
		V-80HD	SPLIT1–2	
		VR-120HD	SPLIT1–2	
		VR-6HD	SPLIT1	
		V-1-4K	SPLIT1	
Response command	**SPT:a,b,c,d;ACK;**			
	a	V-160HD	SPLIT1–2	
		V-80HD	SPLIT1–2	
		VR-120HD	SPLIT1–2	
		VR-6HD	SPLIT1	
		V-1-4K	SPLIT1	
	b		-500–0–500	PGM/A-Center: -50.0–0.0–50.0%
	c		-500–0–500	PST/B-Center: -50.0–0.0–50.0%
	d		-500–0–500	Center Position: -50.0–0.0–50.0%

STO	Set STILL IMAGE OUTPUT (V-160HD/V-80HD/VR-120HD/VR-6HD)		
Transmitted command	**STO:a;**		
	a	V-160HD	OFF, STILL1–16
		V-80HD	OFF, STILL1–32, V.PLAYER, SRT
		VR-120HD	OFF, STILL1–16, V.PLAYER, SRT
		VR-6HD	OFF, STILL1–16, V.PLAYER, SRT
Response command	**ACK;**		

QSTO	Get STILL IMAGE OUTPUT (V-160HD/V-80HD/VR-120HD/VR-6HD)		
Transmitted command	**QSTO;**		
Response command	**STO:a;ACK;**		
	a	V-160HD	OFF, STILL1–16
		V-80HD	OFF, STILL1–32, V.PLAYER, SRT
		VR-120HD	OFF, STILL1–16, V.PLAYER, SRT
		VR-6HD	OFF, STILL1–16, V.PLAYER, SRT

ROISW	Switch the ROI mode ON/OFF (V-1-4K)		
Transmitted command	**ROISW:a;**		
	a	OFF, ON	
Response command	**ACK;**		

QROISW	Get status of ROI mode (V-1-4K)		
Transmitted command	**QROISW;**		
Response command	**ROISW:a;ACK;**		
	a	OFF, ON	

ROIZM	Change ROI ZOOM (V-1-4K)		
Transmitted command	**ROIZM:a,b;**		
	a	ROI1–4	
	b	1000–4000	Zoom: 100.0–400.0%
Response command	**ACK;**		

QROIZM	Get ROI ZOOM (V-1-4K)		
Transmitted command	**QROIZM:a;**		
	a	ROI1–4	
Response command	**ROIZM:a,b;ACK;**		
	a	ROI1–4	
	b	1000–4000	Zoom: 100.0–400.0%

ROIPT	Change ROI POSITION H/V (V-1-4K)		
Transmitted command	**ROIPT:a,b,c;**		
	a	ROI1–4	
	b	-1920–1920	Position H: -1920–0–1920
	c	-1080–1080	Position V: -1080–0–1080
Response command	**ACK;**		

QROIPT	Get ROI POSITION H/V (V-1-4K)		
Transmitted command	**QROIPT:a;**		
	a	ROI1–4	
Response command	**ROIPT:a,b,c;ACK;**		
	a	ROI1–4	
	b	-1920–1920	Position H: -1920–0–1920
	c	-1080–1080	Position V: -1080–0–1080

AUDIO

AOS	Set Audio Output Assign			
Transmitted command	**AOS:a,b;**			
	a	V-160HD	HDMI1–3, SDI1–3, XLR1, RCA1, USB, PHONES	
		V-80HD	HDMI1–3, SDI1–2, XLR1, USB, STREAM, REC, PHONES	
		VR-120HD	HDMI1–3, SDI1–3, XLR1–2, RCA1, USB, STREAM, REC, PHONES	
		VR-6HD	HDMI1–3, XLR1, RCA1, USB, STREAM, REC, PHONES	
		V-1-4K	HDMI1–5, XLR1, USB, PHONES	
	b	V-160HD	AUTO, MAIN, AUX1–3	* This can be set when parameter a is HDMI1–3, SDI1–3 or USB.
			MAIN, AUX1–3	* This can be set when parameter a is XLR1, RCA1 or PHONES.
		V-80HD	AUTO, MAIN, AUX1–2, MONITOR	* This can be set when parameter a is HDMI1–3, SDI1–2, USB or STREAM.
			MAIN, AUX1–2, MONITOR	* This can be set when parameter a is XLR1 or REC.
			MAIN, AUX1–2	* This can be set when parameter a is PHONES.
		VR-120HD	MAIN, AUX1–3, MONITOR	* This can be set when parameter a is HDMI1–3, SDI1–3, XLR1–2 or RCA1.
			MAIN, AUX1–3	* This can be set when parameter a is USB, STREAM, REC or PHONES.
		VR-6HD	MAIN, AUX1–2, MONITOR	* This can be set when parameter a is HDMI1–3, XLR1 or RCA1.
			MAIN, AUX1–2	* This can be set when parameter a is USB, STREAM, REC or PHONES.
		V-1-4K	MAIN, AUX1–2, MONITOR	* This can be set when parameter a is HDMI1–5, XLR1 or USB.
			MAIN, AUX1–2	* This can be set when parameter a is PHONES.
Response command	**ACK;**			

QAOS	Get Audio Output Assign		
Transmitted command	**QAOS:a;**		
	a	V-160HD	HDMI1–3, SDI1–3, XLR1, RCA1, USB, PHONES
		V-80HD	HDMI1–3, SDI1–2, XLR1, USB, STREAM, REC, PHONES
		VR-120HD	HDMI1–3, SDI1–3, XLR1–2, RCA1, USB, STREAM, REC, PHONES
		VR-6HD	HDMI1–3, XLR1, RCA1, USB, STREAM, REC, PHONES
		V-1-4K	HDMI1–5, XLR1, USB, PHONES

Response command	**AOS:a,b;ACK;**			
	a	V-160HD	HDMI1–3, SDI1–3, XLR1, RCA1, USB, PHONES	
		V-80HD	HDMI1–3, SDI1–2, XLR1, USB, STREAM, REC, PHONES	
		VR-120HD	HDMI1–3, SDI1–3, XLR1–2, RCA1, USB, STREAM, REC, PHONES	
		VR-6HD	HDMI1–3, XLR1, RCA1, USB, STREAM, REC, PHONES	
		V-1-4K	HDMI1–5, XLR1, USB, PHONES	
	b	V-160HD	AUTO, MAIN, AUX1–3	* This is sent when parameter a is HDMI1–3, SDI1–3 or USB.
			MAIN, AUX1–3	* This is sent when parameter a is XLR1, RCA1 or PHONES.
		V-80HD	AUTO, MAIN, AUX1–2, MONITOR	* This is sent when parameter a is HDMI1–3, SDI1–2, USB or STREAM.
			MAIN, AUX1–2, MONITOR	* This is sent when parameter a is XLR1 or REC.
			MAIN, AUX1–2	* This is sent when parameter a is PHONES.
		VR-120HD	MAIN, AUX1–3, MONITOR	* This is sent when parameter a is HDMI1–3, SDI1–3, XLR1–2 or RCA1.
			MAIN, AUX1–3	* This is sent when parameter a is USB, STREAM, REC or PHONES.
		VR-6HD	MAIN, AUX1–2, MONITOR	* This is sent when parameter a is HDMI1–3, XLR1 or RCA1.
			MAIN, AUX1–2	* This is sent when parameter a is USB, STREAM, REC or PHONES.
		V-1-4K	MAIN, AUX1–2, MONITOR	* This can be set when parameter a is HDMI1–5, XLR1 or USB.
			MAIN, AUX1–2	* This can be set when parameter a is PHONES.

IAL	Set Audio Input Level			
Transmitted command	**IAL:a,b;**			
	a	V-160HD	XLR1–2, RCA1, USB, BLUETOOTH, HDMI1–8, SDI1–8	
		V-80HD	XLR1–2, RCA1, USB, BLUETOOTH, A.PLAYER, HDMI1–4, SDI1–4, V.PLAYER, SRT	
		VR-120HD	XLR1–6, RCA1–2, USB, BLUETOOTH, A.PLAYER, HDMI1–6, SDI1–6, V.PLAYER, SRT	
		VR-6HD	XLR1–6, RCA1, USB, BLUETOOTH, A.PLAYER, HDMI1–6, V.PLAYER, SRT	
		V-1-4K	XLR1, USB, HDMI1–5	
	b		-INF, -800–0–100	Level: -INF, -80.0–0.0–10.0dB
Response command	**ACK;**			

Examples of settings

Transmitted command	**IAL:XLR1,-60;**	Set Audio Input Level of XLR1 to -6.0 dB
Response command	**ACK;**	

QIAL	Get Audio Input Level			
Transmitted command	**QIAL:a;**			
	a	V-160HD	XLR1–2, RCA1, USB, BLUETOOTH, HDMI1–8, SDI1–8	
		V-80HD	XLR1–2, RCA1, USB, BLUETOOTH, A.PLAYER, HDMI1–4, SDI1–4, V.PLAYER, SRT	
		VR-120HD	XLR1–6, RCA1–2, USB, BLUETOOTH, A.PLAYER, HDMI1–6, SDI1–6, V.PLAYER, SRT	
		VR-6HD	XLR1–6, RCA1, USB, BLUETOOTH, A.PLAYER, HDMI1–6, V.PLAYER, SRT	
		V-1-4K	XLR1, USB, HDMI1–5	
Response command	**IAL:a,b;ACK;**			
	a	V-160HD	XLR1–2, RCA1, USB, BLUETOOTH, HDMI1–8, SDI1–8	
		V-80HD	XLR1–2, RCA1, USB, BLUETOOTH, A.PLAYER, HDMI1–4, SDI1–4, V.PLAYER, SRT	
		VR-120HD	XLR1–6, RCA1–2, USB, BLUETOOTH, A.PLAYER, HDMI1–6, SDI1–6, V.PLAYER, SRT	
		VR-6HD	XLR1–6, RCA1, USB, BLUETOOTH, A.PLAYER, HDMI1–6, V.PLAYER, SRT	
		V-1-4K	XLR1, USB, HDMI1–5	
	b		-INF, -800–0–100	Level: -INF, -80.0–0.0–10.0dB

Examples of settings

Transmitted command	**QIAL:XLR1;**	Check the Audio Input Level of XLR1
Response command	**IAL:XLR1,-60;ACK;**	Audio Input Level of XLR1 is -6.0 dB

IAM	Switch between Audio Input Mute ON/OFF		
Transmitted command	**IAM:a;**		
	a	V-160HD	XLR1–2, RCA1, USB, BLUETOOTH, HDMI1–8, SDI1–8
		V-80HD	XLR1–2, RCA1, USB, BLUETOOTH, A.PLAYER, HDMI1–4, SDI1–4, V.PLAYER, SRT
		VR-120HD	XLR1–6, RCA1–2, USB, BLUETOOTH, A.PLAYER, HDMI1–6, SDI1–6, V.PLAYER, SRT
		VR-6HD	XLR1–6, RCA1, USB, BLUETOOTH, A.PLAYER, HDMI1–6, V.PLAYER, SRT
		V-1-4K	XLR1, USB, HDMI1–5
Response command	**ACK;**		

IAM	Set Audio Input Mute ON/OFF		
Transmitted command	**IAM:a,b;**		
	a	V-160HD	XLR1–2, RCA1, USB, BLUETOOTH, HDMI1–8, SDI1–8
		V-80HD	XLR1–2, RCA1, USB, BLUETOOTH, A.PLAYER, HDMI1–4, SDI1–4, V.PLAYER, SRT
		VR-120HD	XLR1–6, RCA1–2, USB, BLUETOOTH, A.PLAYER, HDMI1–6, SDI1–6, V.PLAYER, SRT
		VR-6HD	XLR1–6, RCA1, USB, BLUETOOTH, A.PLAYER, HDMI1–6, V.PLAYER, SRT
		V-1-4K	XLR1, USB, HDMI1–5
	b		OFF, ON
Response command	**ACK;**		

QIAM	Get status of Audio Input Mute		
Transmitted command	**QIAM:a;**		
	a	V-160HD	XLR1–2, RCA1, USB, BLUETOOTH, HDMI1–8, SDI1–8
		V-80HD	XLR1–2, RCA1, USB, BLUETOOTH, A.PLAYER, HDMI1–4, SDI1–4, V.PLAYER, SRT
		VR-120HD	XLR1–6, RCA1–2, USB, BLUETOOTH, A.PLAYER, HDMI1–6, SDI1–6, V.PLAYER, SRT
		VR-6HD	XLR1–6, RCA1, USB, BLUETOOTH, A.PLAYER, HDMI1–6, V.PLAYER, SRT
		V-1-4K	XLR1, USB, HDMI1–5
Response command	**IAM:a,b;ACK;**		
	a	V-160HD	XLR1–2, RCA1, USB, BLUETOOTH, HDMI1–8, SDI1–8
		V-80HD	XLR1–2, RCA1, USB, BLUETOOTH, A.PLAYER, HDMI1–4, SDI1–4, V.PLAYER, SRT
		VR-120HD	XLR1–6, RCA1–2, USB, BLUETOOTH, A.PLAYER, HDMI1–6, SDI1–6, V.PLAYER, SRT
		VR-6HD	XLR1–6, RCA1, USB, BLUETOOTH, A.PLAYER, HDMI1–6, V.PLAYER, SRT
		V-1-4K	XLR1, USB, HDMI1–5
	b		OFF, ON

IAS	Switch between Audio Input Solo ON/OFF		
Transmitted command	**IAS:a;**		
	a	V-160HD	XLR1–2, RCA1, USB, BLUETOOTH, HDMI1–8, SDI1–8
		V-80HD	XLR1–2, RCA1, USB, BLUETOOTH, A.PLAYER, HDMI1–4, SDI1–4, V.PLAYER, SRT
		VR-120HD	XLR1–6, RCA1–2, USB, BLUETOOTH, A.PLAYER, HDMI1–6, SDI1–6, V.PLAYER, SRT
		VR-6HD	XLR1–6, RCA1, USB, BLUETOOTH, A.PLAYER, HDMI1–6, V.PLAYER, SRT
		V-1-4K	XLR1, USB, HDMI1–5
Response command	**ACK;**		

IAS	Set Audio Input Solo ON/OFF			
Transmitted command	**IAS:a,b;**			
	a	V-160HD	XLR1–2, RCA1, USB, BLUETOOTH, HDMI1–8, SDI1–8	
		V-80HD	XLR1–2, RCA1, USB, BLUETOOTH, A.PLAYER, HDMI1–4, SDI1–4, V.PLAYER, SRT	
		VR-120HD	XLR1–6, RCA1–2, USB, BLUETOOTH, A.PLAYER, HDMI1–6, SDI1–6, V.PLAYER, SRT	
		VR-6HD	XLR1–6, RCA1, USB, BLUETOOTH, A.PLAYER, HDMI1–6, V.PLAYER, SRT	
		V-1-4K	XLR1, USB, HDMI1–5	
	b		OFF, ON	
Response command	**ACK;**			

QIAS	Get status of Audio Input Solo			
Transmitted command	**QIAS:a;**			
	a	V-160HD	XLR1–2, RCA1, USB, BLUETOOTH, HDMI1–8, SDI1–8	
		V-80HD	XLR1–2, RCA1, USB, BLUETOOTH, A.PLAYER, HDMI1–4, SDI1–4, V.PLAYER, SRT	
		VR-120HD	XLR1–6, RCA1–2, USB, BLUETOOTH, A.PLAYER, HDMI1–6, SDI1–6, V.PLAYER, SRT	
		VR-6HD	XLR1–6, RCA1, USB, BLUETOOTH, A.PLAYER, HDMI1–6, V.PLAYER, SRT	
		V-1-4K	XLR1, USB, HDMI1–5	
Response command	**IAS:a,b;ACK;**			
	a	V-160HD	XLR1–2, RCA1, USB, BLUETOOTH, HDMI1–8, SDI1–8	
		V-80HD	XLR1–2, RCA1, USB, BLUETOOTH, A.PLAYER, HDMI1–4, SDI1–4, V.PLAYER, SRT	
		VR-120HD	XLR1–6, RCA1–2, USB, BLUETOOTH, A.PLAYER, HDMI1–6, SDI1–6, V.PLAYER, SRT	
		VR-6HD	XLR1–6, RCA1, USB, BLUETOOTH, A.PLAYER, HDMI1–6, V.PLAYER, SRT	
		V-1-4K	XLR1, USB, HDMI1–5	
	b		OFF, ON	

ADT	Set Audio Input Delay Time			
Transmitted command	**ADT:a,b;**			
	a	V-160HD	XLR1–2, RCA1, USB, BLUETOOTH, HDMI1–8, SDI1–8	
		V-80HD	XLR1–2, RCA1, USB, BLUETOOTH, A.PLAYER, HDMI1–4, SDI1–4, V.PLAYER, SRT	
		VR-120HD	XLR1–6, RCA1–2, USB, BLUETOOTH, A.PLAYER, HDMI1–6, SDI1–6, V.PLAYER, SRT	
		VR-6HD	XLR1–6, RCA1, USB, BLUETOOTH, A.PLAYER, HDMI1–6, V.PLAYER, SRT	
		V-1-4K	XLR1, USB, HDMI1–5	
	b		0–5000	0.0–500.0msec
Response command	**ACK;**			

QADT	Get Audio Input Delay Time			
Transmitted command	**QADT:a;**			
	a	V-160HD	XLR1–2, RCA1, USB, BLUETOOTH, HDMI1–8, SDI1–8	
		V-80HD	XLR1–2, RCA1, USB, BLUETOOTH, A.PLAYER, HDMI1–4, SDI1–4, V.PLAYER, SRT	
		VR-120HD	XLR1–6, RCA1–2, USB, BLUETOOTH, A.PLAYER, HDMI1–6, SDI1–6, V.PLAYER, SRT	
		VR-6HD	XLR1–6, RCA1, USB, BLUETOOTH, A.PLAYER, HDMI1–6, V.PLAYER, SRT	
		V-1-4K	XLR1, USB, HDMI1–5	
Response command	**ADT:a,b;ACK;**			
	a	V-160HD	XLR1–2, RCA1, USB, BLUETOOTH, HDMI1–8, SDI1–8	
		V-80HD	XLR1–2, RCA1, USB, BLUETOOTH, A.PLAYER, HDMI1–4, SDI1–4, V.PLAYER, SRT	
		VR-120HD	XLR1–6, RCA1–2, USB, BLUETOOTH, A.PLAYER, HDMI1–6, SDI1–6, V.PLAYER, SRT	
		VR-6HD	XLR1–6, RCA1, USB, BLUETOOTH, A.PLAYER, HDMI1–6, V.PLAYER, SRT	
		V-1-4K	XLR1, USB, HDMI1–5	
	b		0–5000	0.0–500.0msec

HPF	Set High Pass Filter ON/OFF		
Transmitted command	**HPF:a,b;**		
	a	V-160HD	XLR1–2, RCA1, USB, BLUETOOTH, HDMI1–8, SDI1–8
		V-80HD	XLR1–2, RCA1, USB, BLUETOOTH, A.PLAYER, HDMI1–4, SDI1–4, V.PLAYER, SRT
		VR-120HD	XLR1–6, RCA1–2, USB, BLUETOOTH, A.PLAYER, HDMI1–6, SDI1–6, V.PLAYER, SRT
		VR-6HD	XLR1–6, RCA1, USB, BLUETOOTH, A.PLAYER, HDMI1–6, V.PLAYER, SRT
		V-1-4K	XLR1, USB, HDMI1–5
	b		OFF, ON
Response command	**ACK;**		

QHPF	Get status of High Pass Filter		
Transmitted command	**QHPF:a;**		
	a	V-160HD	XLR1–2, RCA1, USB, BLUETOOTH, HDMI1–8, SDI1–8
		V-80HD	XLR1–2, RCA1, USB, BLUETOOTH, A.PLAYER, HDMI1–4, SDI1–4, V.PLAYER, SRT
		VR-120HD	XLR1–6, RCA1–2, USB, BLUETOOTH, A.PLAYER, HDMI1–6, SDI1–6, V.PLAYER, SRT
		VR-6HD	XLR1–6, RCA1, USB, BLUETOOTH, A.PLAYER, HDMI1–6, V.PLAYER, SRT
		V-1-4K	XLR1, USB, HDMI1–5
Response command	**HPF:a,b;ACK;**		
	a	V-160HD	XLR1–2, RCA1, USB, BLUETOOTH, HDMI1–8, SDI1–8
		V-80HD	XLR1–2, RCA1, USB, BLUETOOTH, A.PLAYER, HDMI1–4, SDI1–4, V.PLAYER, SRT
		VR-120HD	XLR1–6, RCA1–2, USB, BLUETOOTH, A.PLAYER, HDMI1–6, SDI1–6, V.PLAYER, SRT
		VR-6HD	XLR1–6, RCA1, USB, BLUETOOTH, A.PLAYER, HDMI1–6, V.PLAYER, SRT
		V-1-4K	XLR1, USB, HDMI1–5
	b		OFF, ON

GATE	Set GATE ON/OFF		
Transmitted command	**GATE:a,b;**		
	a	V-160HD	XLR1–2, RCA1, USB, BLUETOOTH, HDMI1–8, SDI1–8
		V-80HD	XLR1–2, RCA1, USB, BLUETOOTH, A.PLAYER, HDMI1–4, SDI1–4, V.PLAYER, SRT
		VR-120HD	XLR1–6, RCA1–2, USB, BLUETOOTH, A.PLAYER, HDMI1–6, SDI1–6, V.PLAYER, SRT
		VR-6HD	XLR1–6, RCA1, USB, BLUETOOTH, A.PLAYER, HDMI1–6, V.PLAYER, SRT
		V-1-4K	XLR1, USB, HDMI1–5
	b		OFF, ON
Response command	**ACK;**		

QGATE	Get status of GATE		
Transmitted command	**QGATE:a;**		
	a	V-160HD	XLR1–2, RCA1, USB, BLUETOOTH, HDMI1–8, SDI1–8
		V-80HD	XLR1–2, RCA1, USB, BLUETOOTH, A.PLAYER, HDMI1–4, SDI1–4, V.PLAYER, SRT
		VR-120HD	XLR1–6, RCA1–2, USB, BLUETOOTH, A.PLAYER, HDMI1–6, SDI1–6, V.PLAYER, SRT
		VR-6HD	XLR1–6, RCA1, USB, BLUETOOTH, A.PLAYER, HDMI1–6, V.PLAYER, SRT
		V-1-4K	XLR1, USB, HDMI1–5
Response command	**GATE:a,b;ACK;**		
	a	V-160HD	XLR1–2, RCA1, USB, BLUETOOTH, HDMI1–8, SDI1–8
		V-80HD	XLR1–2, RCA1, USB, BLUETOOTH, A.PLAYER, HDMI1–4, SDI1–4, V.PLAYER, SRT
		VR-120HD	XLR1–6, RCA1–2, USB, BLUETOOTH, A.PLAYER, HDMI1–6, SDI1–6, V.PLAYER, SRT
		VR-6HD	XLR1–6, RCA1, USB, BLUETOOTH, A.PLAYER, HDMI1–6, V.PLAYER, SRT
		V-1-4K	XLR1, USB, HDMI1–5
	b		OFF, ON

STLK	Switch between Stereo Link ON/OFF (V-160HD/V-80HD/VR-120HD/VR-6HD)		
Transmitted command	**STLK:a;**		
	a	V-160HD	XLR1–2
		V-80HD	XLR1–2
		VR-120HD	XLR1–6
		VR-6HD	XLR1–6
Response command	**ACK;**		

STLK	Set Stereo Link ON/OFF (V-160HD/V-80HD/VR-120HD/VR-6HD)		
Transmitted command	**STLK:a,b;**		
	a	V-160HD	XLR1–2
		V-80HD	XLR1–2
		VR-120HD	XLR1–6
		VR-6HD	XLR1–6
	b		OFF, ON
Response command	**ACK;**		

QSTLK	Get status of Stereo Link (V-160HD/V-80HD/VR-120HD/VR-6HD)		
Transmitted command	**QSTLK:a;**		
	a	V-160HD	XLR1–2
		V-80HD	XLR1–2
		VR-120HD	XLR1–6
		VR-6HD	XLR1–6
Response command	**STLK:a,b;ACK;**		
	a	V-160HD	XLR1–2
		V-80HD	XLR1–2
		VR-120HD	XLR1–6
		VR-6HD	XLR1–6
	b		OFF, ON

VOCH	Switch between Voice Changer ON/OFF (V-160HD/V-80HD/VR-120HD/VR-6HD)	
Transmitted command	**VOCH:a;**	
	a	XLR1–2
Response command	**ACK;**	

VOCH	Set Voice Changer ON/OFF (V-160HD/V-80HD/VR-120HD/VR-6HD)	
Transmitted command	**VOCH:a,b;**	
	a	XLR1–2
	b	OFF, ON
Response command	**ACK;**	

QVOCH	Get status of Voice Changer (V-160HD/V-80HD/VR-120HD/VR-6HD)	
Transmitted command	**QVOCH:a;**	
	a	XLR1–2

Response command	**VOCH:a,b;ACK;**			
	a		XLR1–2	
	b		OFF, ON	

OAL	Set Audio Output Level			
Transmitted command	**OAL:a,b;**			
	a	V-160HD	MAIN, AUX1–3, USB	
		V-80HD	MAIN, AUX1–2, USB, STREAM, REC	
		VR-120HD	MAIN, AUX1–3, USB, STREAM, REC	
		VR-6HD	MAIN, AUX1–2, USB, STREAM, REC	
		V-1-4K	MAIN, AUX1–2, USB	
	b		-INF, -800–0–100	Level: -INF, -80.0–0.0–10.0dB
Response command	**ACK;**			

QOAL	Get Audio Output Level			
Transmitted command	**QOAL:a;**			
	a	V-160HD	MAIN, AUX1–3, USB	
		V-80HD	MAIN, AUX1–2, USB, STREAM, REC	
		VR-120HD	MAIN, AUX1–3, USB, STREAM, REC	
		VR-6HD	MAIN, AUX1–2, USB, STREAM, REC	
		V-1-4K	MAIN, AUX1–2, USB	
Response command	**OAL:a,b;ACK;**			
	a	V-160HD	MAIN, AUX1–3, USB	
		V-80HD	MAIN, AUX1–2, USB, STREAM, REC	
		VR-120HD	MAIN, AUX1–3, USB, STREAM, REC	
		VR-6HD	MAIN, AUX1–2, USB, STREAM, REC	
		V-1-4K	MAIN, AUX1–2, USB	
	b		-INF, -800–0–100	Level: -INF, -80.0–0.0–10.0dB

OAM	Set Audio Output Mute ON/OFF		
Transmitted command	**OAM:a,b;**		
	a	V-160HD	MAIN, AUX1–3, USB
		V-80HD	MAIN, AUX1–2, USB, STREAM, REC
		VR-120HD	MAIN, AUX1–3, USB, STREAM, REC
		VR-6HD	MAIN, AUX1–2, USB, STREAM, REC
		V-1-4K	MAIN, AUX1–2, USB
	b		OFF, ON
Response command	**ACK;**		

QOAM	Get status of Audio Output Mute		
Transmitted command	**QOAM:a;**		
	a	V-160HD	MAIN, AUX1–3, USB
		V-80HD	MAIN, AUX1–2, USB, STREAM, REC
		VR-120HD	MAIN, AUX1–3, USB, STREAM, REC
		VR-6HD	MAIN, AUX1–2, USB, STREAM, REC
		V-1-4K	MAIN, AUX1–2, USB

Response command	**OAM:a,b;ACK;**		
	a	V-160HD	MAIN, AUX1–3, USB
		V-80HD	MAIN, AUX1–2, USB, STREAM, REC
		VR-120HD	MAIN, AUX1–3, USB, STREAM, REC
		VR-6HD	MAIN, AUX1–2, USB, STREAM, REC
		V-1-4K	MAIN, AUX1–2, USB
	b		OFF, ON

RVB	Change Reverb ON/OFF (V-160HD/V-80HD/VR-120HD/VR-6HD)
Transmitted command	**RVB;**
Response command	**ACK;**

RVB	Set Reverb ON/OFF (V-160HD/V-80HD/VR-120HD/VR-6HD)	
Transmitted command	**RVB:a;**	
	a	OFF, ON
Response command	**ACK;**	

QRVB	Get status of Reverb (V-160HD/V-80HD/VR-120HD/VR-6HD)	
Transmitted command	**QRVB;**	
Response command	**RVB:a;ACK;**	
	a	OFF, ON

ATM	Change Audio Auto Mixing ON/OFF
Transmitted command	**ATM;**
Response command	**ACK;**

ATM	Set Audio Auto Mixing ON/OFF	
Transmitted command	**ATM:a;**	
	a	OFF, ON
Response command	**ACK;**	

QATM	Get status of Audio Auto Mixing	
Transmitted command	**QATM;**	
Response command	**ATM:a;ACK;**	
	a	OFF, ON

METER

MTRLV	Get level information for audio level meter		
Transmitted command	**MTRLV:a;**		
	a		PFL, AFL
Response command	**MTRLV:a0,a1,…;ACK;**		-INF, -80–0–10 Level: -INF, -80–0–10dB
	a0–a53	V-160HD	IN-XLR1–2, IN-RCA1-L–1-R, IN-USB-L–R, IN-BLUETOOTH-L–R, IN-HDMI1-L–8-R, IN-SDI1-L–8-R, OUT-MAIN-L–R, OUT-AUX1-L–3-R, OUT-USB-L–R, OUT-DSK1-L–2-R
	a0–a37	V-80HD	IN-XLR1–2, IN-RCA1-L–1-R, IN-USB-L–R, IN-BLUETOOTH-L–R, IN-A.PLAYER-L–R, IN-HDMI1-L–4-R, IN-SDI1-L–4-R, IN-V.PLAYER-L–R, OUT-MAIN-L–R, OUT-AUX1-L–2-R, OUT-USB-L–R, OUT-STREAM-L–R
	a0–a55	VR-120HD	IN-XLR1–6, IN-RCA1-L–2-R, IN-USB-L–R, IN-BLUETOOTH-L–R, IN-A.PLAYER-L–R, IN-HDMI1-L–6-R, IN-SDI1-L–6-R, IN-V.PLAYER-L–R, OUT-MAIN-L–R, OUT-AUX1-L–3-R, OUT-USB-L–R, OUT-STREAM-L–R, OUT-MONITOR-L–R
	a0–a39	VR-6HD	IN-XLR1–6, IN-RCA1-L–1-R, IN-USB-L–R, IN-BLUETOOTH-L–R, IN-A.PLAYER-L–R, IN-HDMI1-L–6-R, IN-V.PLAYER-L–R, OUT-MAIN-L–R, OUT-AUX1-L–2-R, OUT-USB-L–R, OUT-STREAM-L–R, OUT-MONITOR-L–R
	a0–a20	V-1-4K	IN-XLR1-L–R, IN-USB-L–R, IN-HDMI1-L–5-R, OUT-MAIN-L–R, OUT-AUX1-L–2-R, OUT-USB-L–R

Examples of settings

Transmitted command	**MTRLV:PFL;**	Check PFL audio level meter
Response command	**MTRLV:-INF,-80,…,10;ACK;**	Join level information with comma and transmit

MTRCH	Get channel information for audio level meter		
Transmitted command	**MTRCH:a;**		
	a	V-160HD	0–53
		V-80HD	0–37
		VR-120HD	0–55
		VR-6HD	0–39
		V-1-4K	0–21
Response command	**MTRCH:a,b;ACK;**		
	a	V-160HD	0–53
		V-80HD	0–37
		VR-120HD	0–55
		VR-6HD	0–39
		V-1-4K	0–21
	b	V-160HD	IN-XLR1–2, IN-RCA1-L–1-R, IN-USB-L–R, IN-BLUETOOTH-L–R, IN-HDMI1-L–8-R, IN-SDI1-L–8-R, OUT-MAIN-L–R, OUT-AUX1-L–3-R, OUT-USB-L–R, OUT-DSK1-L–2-R
		V-80HD	IN-XLR1–2, IN-RCA1-L–1-R, IN-USB-L–R, IN-BLUETOOTH-L–R, IN-A.PLAYER-L–R, IN-HDMI1-L–4-R, IN-SDI1-L–4-R, IN-V.PLAYER-L–R, OUT-MAIN-L–R, OUT-AUX1-L–2-R, OUT-USB-L–R, OUT-STREAM-L–R
		VR-120HD	IN-XLR1–6, IN-RCA1-L–2-R, IN-USB-L–R, IN-BLUETOOTH-L–R, IN-A.PLAYER-L–R, IN-HDMI1-L–6-R, IN-SDI1-L–6-R, IN-V.PLAYER-L–R, OUT-MAIN-L–R, OUT-AUX1-L–3-R, OUT-USB-L–R, OUT-STREAM-L–R, OUT-MONITOR-L–R
		VR-6HD	IN-XLR1–6, IN-RCA1-L–1-R, IN-USB-L–R, IN-BLUETOOTH-L–R, IN-A.PLAYER-L–R, IN-HDMI1-L–6-R, IN-V.PLAYER-L–R, OUT-MAIN-L–R, OUT-AUX1-L–2-R, OUT-USB-L–R, OUT-STREAM-L–R, OUT-MONITOR-L–R
		V-1-4K	IN-XLR1-L–R, IN-USB-L–R, IN-HDMI1-L–5-R, OUT-MAIN-L–R, OUT-AUX1-L–2-R, OUT-USB-L–R

Examples of settings

Transmitted command	**MTRCH:0;**	Get zeroth channel information
Response command	**MTRCH:0,IN-XLR1;ACK;**	Zeroth is IN-XLR1

GRLV	Get level information for Comp GR level		
Transmitted command	**GRLV;**		
Response command	**GRLV:a0,a1,…;ACK;**	-INF, -80–0–10	Level: -INF, -80–0–10dB
	a0–a23	V-160HD	IN-XLR1–2, IN-RCA1, IN-USB, IN-BLUETOOTH, IN-HDMI1–8, IN-SDI1–8, OUT-MAIN-LO, OUT-MAIN-MID, OUT-MAIN-HIGH
	a0–a17	V-80HD	IN-XLR1–2, IN-RCA1, IN-USB, IN-BLUETOOTH, IN-A.PLAYER, IN-HDMI1–4, IN-SDI1–4, IN-V.PLAYER, OUT-MAIN, OUT-AUX1–2
	a0–a29	VR-120HD	IN-XLR1–6, IN-RCA1–2, IN-USB, IN-BLUETOOTH, IN-A.PLAYER, IN-HDMI1–6, IN-SDI1–6, IN-V.PLAYER, OUT-MAIN, OUT-AUX1–3
	a0–a19	VR-6HD	IN-XLR1–6, IN-RCA1, IN-USB, IN-BLUETOOTH, IN-A.PLAYER, IN-HDMI1–6, IN-V.PLAYER, OUT-MAIN, OUT-AUX1–2
	a0–a9	V-1-4K	IN-XLR1-L–R, IN-USB, IN-HDMI1–5, OUT-MAIN, OUT-AUX1–2

GRCH	Get channel information for Comp GR level		
Transmitted command	**GRCH:a;**		
	a	V-160HD	0–23
		V-80HD	0–17
		VR-120HD	0–27
		VR-6HD	0–19
		V-1-4K	0–9
Response command	**GRCH:a,b;**		
	a	V-160HD	0–23
		V-80HD	0–17
		VR-120HD	0–27
		VR-6HD	0–19
		V-1-4K	0–9
	b	V-160HD	IN-XLR1–2, IN-RCA1, IN-USB, IN-BLUETOOTH, IN-HDMI1–8, IN-SDI1–8, OUT-MAIN-LO, OUT-MAIN-MID, OUT-MAIN-HIGH
		V-80HD	IN-XLR1–2, IN-RCA1, IN-USB, IN-BLUETOOTH, IN-A.PLAYER, IN-HDMI1–4, IN-SDI1–4, IN-V.PLAYER, OUT-MAIN, OUT-AUX1–2
		VR-120HD	IN-XLR1–6, IN-RCA1–2, IN-USB, IN-BLUETOOTH, IN-A.PLAYER, IN-HDMI1–6, IN-SDI1–6, IN-V.PLAYER, OUT-MAIN, OUT-AUX1–3
		VR-6HD	IN-XLR1–6, IN-RCA1, IN-USB, IN-BLUETOOTH, IN-A.PLAYER, IN-HDMI1–6, IN-V.PLAYER, OUT-MAIN, OUT-AUX1–2
		V-1-4K	IN-XLR1, IN-USB, IN-HDMI1–5, OUT-MAIN, OUT-AUX1–2

AMLV	Get level information for Auto Mixing level		
Transmitted command	**AMLV;**		
Response command	**AMLV:a0,a1,…;ACK;**	-INF, -80–0–10	Level: -INF, -80–0–10dB
	a0–a20	V-160HD	IN-XLR1–2, IN-RCA1, IN-USB, IN-BLUETOOTH, IN-HDMI1–8, IN-SDI1–8
	a0–a14	V-80HD	IN-XLR1–2, IN-RCA1, IN-USB, IN-BLUETOOTH, IN-A.PLAYER, IN-HDMI1–4, IN-SDI1–4, IN-V.PLAYER
	a0–a23	VR-120HD	IN-XLR1–6, IN-RCA1–2, IN-USB, IN-BLUETOOTH, IN-A.PLAYER, IN-HDMI1–6, IN-SDI1–6, IN-V.PLAYER
	a0–a16	VR-6HD	IN-XLR1–6, IN-RCA1, IN-USB, IN-BLUETOOTH, IN-A.PLAYER, IN-HDMI1–6, IN-V.PLAYER
	a0–a6	V-1-4K	IN-XLR1, IN-USB, IN-HDMI1–5

AMCH	Get channel information for Auto Mixing level		
Transmitted command	**AMCH:a;**		
	a	V-160HD	0–20
		V-80HD	0–14
		VR-120HD	0–23
		VR-6HD	0–16
		V-1-4K	0–6

Response command	**AMCH:a,b;**		
	a	V-160HD	0–20
		V-80HD	0–14
		VR-120HD	0–23
		VR-6HD	0–16
		V-1-4K	0–6
	b	V-160HD	IN-XLR1–2, IN-RCA1, IN-USB, IN-BLUETOOTH, IN-HDMI1–8, IN-SDI1–8
		V-80HD	IN-XLR1–2, IN-RCA1, IN-USB, IN-BLUETOOTH, IN-A.PLAYER, IN-HDMI1–4, IN-SDI1–4, IN-V.PLAYER
		VR-120HD	IN-XLR1–6, IN-RCA1–2, IN-USB, IN-BLUETOOTH, IN-A.PLAYER, IN-HDMI1–6, IN-SDI1–6, IN-V.PLAYER
		VR-6HD	IN-XLR1–6, IN-RCA1, IN-USB, IN-BLUETOOTH, IN-A.PLAYER, IN-HDMI1–6, IN-V.PLAYER
		V-1-4K	IN-XLR1, IN-USB, IN-HDMI1–5

SPLV	Get level information for Sig/Peak level		
Transmitted command	**SPLV;**		
Response command	**SPLV:a0,a1,…;ACK;**		-INF, -80–0–10 Level: -INF, -80–0–10dB
	a0–a27	V-160HD	IN-XLR1–2, IN-RCA1, IN-USB, IN-BLUETOOTH, IN-HDMI1–8, IN-SDI1–8, OUT-MAIN, OUT-AUX1–3, OUT-USB, OUT-DSK1–2
	a0–a19	V-80HD	IN-XLR1–2, IN-RCA1, IN-USB, IN-BLUETOOTH, IN-A.PLAYER, IN-HDMI1–4, IN-SDI1–4, IN-V.PLAYER, OUT-MAIN, OUT-AUX1–2, OUT-USB, OUT-STRAM
	a0–a30	VR-120HD	IN-XLR1–6, IN-RCA1–2, IN-USB, IN-BLUETOOTH, IN-A.PLAYER, IN-HDMI1–6, IN-SDI1–6, IN-V.PLAYER, OUT-MAIN, OUT-AUX1–3, OUT-USB, OUT-STREAM, OUT-MONITOR
	a0–a22	VR-6HD	IN-XLR1–6, IN-RCA1, IN-USB, IN-BLUETOOTH, IN-A.PLAYER, IN-HDMI1–6, IN-V.PLAYER, OUT-MAIN, OUT-AUX1–2, OUT-USB, OUT-STREAM, OUT-MONITOR
	a0–a10	V-1-4K	IN-XLR1, IN-USB, IN-HDMI1–5, OUT-MAIN, OUT-AUX1–2, OUT-USB

SPCH	Get channel information for Sig/Peak level		
Transmitted command	**SPCH:a;**		
	a	V-160HD	0–27
		V-80HD	0–19
		VR-120HD	0–30
		VR-6HD	0–22
		V-1-4K	0–10
Response command	**SPCH:a,b;**		
	a	V-160HD	0–27
		V-80HD	0–19
		VR-120HD	0–30
		VR-6HD	0–22
		V-1-4K	0–10
	b	V-160HD	IN-XLR1–2, IN-RCA1, IN-USB, IN-BLUETOOTH, IN-HDMI1–8, IN-SDI1–8, OUT-MAIN, OUT-AUX1–3, OUT-USB, OUT-DSK1–2
		V-80HD	IN-XLR1–2, IN-RCA1, IN-USB, IN-BLUETOOTH, IN-A.PLAYER, IN-HDMI1–4, IN-SDI1–4, IN-V.PLAYER, OUT-MAIN, OUT-AUX1–2, OUT-USB, OUT-STRAM
		VR-120HD	IN-XLR1–6, IN-RCA1–2, IN-USB, IN-BLUETOOTH, IN-A.PLAYER, IN-HDMI1–6, IN-SDI1–6, IN-V.PLAYER, OUT-MAIN, OUT-AUX1–3, OUT-USB, OUT-STREAM, OUT-MONITOR
		VR-6HD	IN-XLR1–6, IN-RCA1, IN-USB, IN-BLUETOOTH, IN-A.PLAYER, IN-HDMI1–6, IN-V.PLAYER, OUT-MAIN, OUT-AUX1–2, OUT-USB, OUT-STREAM, OUT-MONITOR
		V-1-4K	IN-XLR1, IN-USB, IN-HDMI1–5, OUT-MAIN, OUT-AUX1–2, OUT-USB

AUXLV	Get information on AUX level		
Transmitted command	**AUXLV:a;**		
	a	V-160HD	AUX1–3
		V-80HD	AUX1–2
		VR-120HD	AUX1–3
		VR-6HD	AUX1–2
		V-1-4K	AUX1–2
Response command	**QAUXLV:a0,a1,…;ACK;**		-INF, -80–0–10 Level: -INF, -80–0–10dB
	a0–a39	V-160HD	IN-XLR1–2, IN-RCA1-L–1-R, IN-USB-L–R, IN-BLUETOOTH-L–R, IN-HDMI1-L–8-R, IN-SDI1-L–8-R
	a0–a27	V-80HD	IN-XLR1–2, IN-RCA1-L–1-R, IN-USB-L–R, IN-BLUETOOTH-L–R, IN-A.PLAYER-L–R, IN-HDMI1-L–4-R, IN-SDI1-L–4-R, IN-V.PLAYER-L–R
	a0–a41	VR-120HD	IN-XLR1–6, IN-RCA1-L–2-R, IN-USB-L–R, IN-BLUETOOTH-L–R, IN-A.PLAYER-L–R, IN-HDMI1-L–6-R, IN-SDI1-L–6-R, IN-V.PLAYER-L–R
	a0–a27	VR-6HD	IN-XLR1–6, IN-RCA1-L–1-R, IN-USB-L–R, IN-BLUETOOTH-L–R, IN-A.PLAYER-L–R, IN-HDMI1-L–6-R, IN-V.PLAYER-L–R
	a0–a21	V-1-4K	IN-XLR1-L–R, IN-USB-L–R, IN-HDMI1-L–5-R

AUXCH	Get AUX channel information		
Transmitted command	**AUXCH:a;**		
	a	V-160HD	0–39
		V-80HD	0–27
		VR-120HD	0–41
		VR-6HD	0–27
		V-1-4K	0–13
Response command	**QAUXCH:a,b;**		
	a	V-160HD	0–39
		V-80HD	0–27
		VR-120HD	0–41
		VR-6HD	0–27
		V-1-4K	0–13
	b	V-160HD	IN-XLR1–2, IN-RCA1-L–1-R, IN-USB-L–R, IN-BLUETOOTH-L–R, IN-HDMI1-L–8-R, IN-SDI1-L–8-R
		V-80HD	IN-XLR1–2, IN-RCA1-L–1-R, IN-USB-L–R, IN-BLUETOOTH-L–R, IN-A.PLAYER-L–R, IN-HDMI1-L–4-R, IN-SDI1-L–4-R, IN-V.PLAYER-L–R
		VR-120HD	IN-XLR1–6, IN-RCA1-L–2-R, IN-USB-L–R, IN-BLUETOOTH-L–R, IN-A.PLAYER-L–R, IN-HDMI1-L–6-R, IN-SDI1-L–6-R, IN-V.PLAYER-L–R
		VR-6HD	IN-XLR1–6, IN-RCA1-L–1-R, IN-USB-L–R, IN-BLUETOOTH-L–R, IN-A.PLAYER-L–R, IN-HDMI1-L–6-R, IN-V.PLAYER-L–R
		V-1-4K	IN-XLR1-L–R, IN-USB-L–R, IN-HDMI1-L–5-R

CONTROL

MEM	Recall scene memory		
Transmitted command	**MEM:a;**		
	a	V-160HD	MEMORY1–30
		V-80HD	MEMORY1–32
		VR-120HD	MEMORY1–32
		VR-6HD	MEMORY1–32
		V-1-4K	MEMORY1–8
Response command	**ACK;**		

QMEM	Get selected scene memory		
Transmitted command	**QMEM;**		
Response command	**MEM:a;ACK;**		
	a	V-160HD	N/A, MEMORY1–30
		V-80HD	N/A, MEMORY1–32
		VR-120HD	N/A, MEMORY1–32
		VR-6HD	N/A, MEMORY1–32
		V-1-4K	N/A, MEMORY1–8

GPO	Output GPO (ONE SHOT) (V-160HD/V-80HD/VR-120HD/VR-6HD)	
Transmitted command	**GPO:a;**	
	a	GPO1–16
Response command	**ACK;**	

GPO	Output GPO (ALTERNATE) (V-160HD/V-80HD/VR-120HD/VR-6HD)	
Transmitted command	**GPO:a,b;**	
	a	GPO1–16
	b	OFF, ON
Response command	**ACK;**	

QGPO	Get status of GPO (V-160HD/V-80HD/VR-120HD/VR-6HD)	
Transmitted command	**QGPO:a;**	
	a	GPO1–16
Response command	**GPO:a,b;ACK;**	
	a	GPO1–16
	b	OFF, ON

TLY	Get status of tally
Transmitted command	**TLY;**

Response command	**TLY:a0,a1,…;ACK;**		0–3	0: OFF, 1: PGM, 2: PST, 3: PGM & PST
	a0–a51	V-160HD	HDMI1–8, SDI1–8, STILL1–16, INPUT1–20	
	a0–a56	V-80HD	HDMI1–4, SDI1–4, STILL1–32, V.PLAYER or SRT, INPUT1–16	
	a0–a36	VR-120HD	HDMI1–6, SDI1–6, STILL1–16, V.PLAYER or SRT, INPUT1–8	
	a0–a28	VR-6HD	HDMI1–6, STILL1–16, V.PLAYER or SRT, INPUT1–6	
	a0–a14	V-1-4K	HDMI1–5, STILL1–2, INPUT1–8	

Examples of settings

Transmitted command	**TLY;**	Get status of tally
Response command	**TLY:0,1,2,0…,0;ACK;**	Express tally information as numbers, join with commas and transmit

ASW	Switch between Auto Switching ON/OFF
Transmitted command	**ASW;**
Response command	**ACK;**

ASW	Set Auto Switching ON/OFF	
Transmitted command	**ASW:a;**	
	a	OFF, ON
Response command	**ACK;**	

QASW	Get status of Auto Switching	
Transmitted command	**QASW;**	
Response command	**ASW:a;ACK;**	
	a	OFF, ON

INSC	Execute Input Scan	
Transmitted command	**INSC:a;**	
	a	NORMAL, REVERSE, RANDOM
Response command	**ACK;**	

MEMSC	Execute Scene Memory Scan (V-160HD/V-80HD/VR-120HD/VR-6HD)	
Transmitted command	**MEMSC:a;**	
	a	NORMAL, REVERSE, RANDOM
Response command	**ACK;**	

PPSC	Execute PinP Source Scan (V-160HD/V-80HD/VR-120HD/VR-6HD)		
Transmitted command	**PPSC:a,b;**		
	a	V-160HD	PinP1–4
		V-80HD	PinP1–2
		VR-120HD	PinP1–4
		VR-6HD	PinP1–2
	b		NORMAL, REVERSE, RANDOM

Response command	**ACK;**		

DSKSC	Execute DSK Source Scan (V-160HD/V-80HD/VR-120HD/VR-6HD)		
Transmitted command	**DSKSC:a,b;**		
	a	V-160HD	DSK1–2
		V-80HD	DSK1
		VR-120HD	DSK1–2
		VR-6HD	DSK1
	b		NORMAL, REVERSE, RANDOM
Response command	**ACK;**		

STRTY	Set Stream & Record Type (V-80HD/VR-120HD/VR-6HD)	
Transmitted command	**STRTY:a;**	
	a	RTMP, SRT
Response command	**ACK;**	

QSTRTY	Get Stream & Record Type (V-80HD/VR-120HD/VR-6HD)	
Transmitted command	**QSTRTY;**	
Response command	**STRTY:a;ACK;**	
	a	RTMP, SRT

STROA	Start/stop Stream & Record (V-80HD/VR-120HD/VR-6HD, enabled when Type=RTMP)	
Transmitted command	**STROA:a;**	
	a	STOP, START
Response command	**ACK;**	

SRTOSS	Start/stop SRT Out (V-80HD/VR-120HD/VR-6HD, enabled when Type=SRT)	
Transmitted command	**SRTOSS:a;**	
	a	STOP, START
Response command	**ACK;**	

QSTRST	Get status of Stream & Record (V-80HD/VR-120HD/VR-6HD)	
Transmitted command	**QSTRST;**	
Response command	**STRST:a;ACK;**	
	a	STOP, STOPPING, STARTING, ONAIR

QSTRTM	Get elapsed time of Stream & Record (V-80HD/VR-120HD/VR-6HD)		
Transmitted command	**QSTRTM;**		
Response command	**STRTM:a;ACK;**		
	a	0–	Elapsed time (sec)

Examples of settings

Transmitted command	**QSTRTM;**	Check the Stream & Record elapsed time
Response command	**STRTM:30;ACK;**	Stream & Record elapsed time is 30 sec

SFIM	Set Safety Image ON/OFF (V-80HD/VR-120HD/VR-6HD, enabled only when on air)	
Transmitted command	**SFIM:a;**	
	a	OFF, ON
Response command	**ACK;**	

QSFIM	Get status of Safety Image (V-80HD/VR-120HD/VR-6HD, enabled only when on air)	
Transmitted command	**QSFIM;**	
Response command	**SFIM:a;ACK;**	
	a	OFF, ON, DELAYED

EXRC	Set External Rec Control ON/OFF (V-80HD/VR-120HD/VR-6HD)	
Transmitted command	**EXRC:a;**	
	a	OFF, ON
Response command	**ACK;**	

QEXRC	Get status of External Rec Control (V-80HD/VR-120HD/VR-6HD)	
Transmitted command	**QEXRC;**	
Response command	**EXRC:a;ACK;**	
	a	OFF, ON

APL	Play/stop Audio Player (V-80HD/VR-120HD/VR-6HD)		
Transmitted command	**APL:a,b;**		
	a	V-80HD	A-1 – A-8 – H-1 – H-8
		VR-120HD	A-1 – A-8 – B-1 – B-8
		VR-6HD	A-1 – A-6 – B-1 – B-6
	b		STOP, PLAY, PAUSE, RESUME
Response command	**ACK;**		

QAPS	Get playback status of Audio Player (V-80HD/VR-120HD/VR-6HD)		
Transmitted command	**QAPS:a;**		
	a	V-80HD	A-1 – A-8 – H-1 – H-8
		VR-120HD	A-1 – A-8 – B-1 – B-8
		VR-6HD	A-1 – A-6 – B-1 – B-6
Response command	**APS:a,b;ACK;**		
	a	V-80HD	A-1 – A-8 – H-1 – H-8
		VR-120HD	A-1 – A-8 – B-1 – B-8
		VR-6HD	A-1 – A-6 – B-1 – B-6
	b		STOP, PLAY, PAUSE, FADEIN, FADEOUT

QAPE	Get import status of Audio Player (V-80HD/VR-120HD/VR-6HD)			
Transmitted command	**QAPE:a;**			
	a	V-80HD	A-1 – A-8 – H-1 – H-8	
		VR-120HD	A-1 – A-8 – B-1 – B-8	
		VR-6HD	A-1 – A-6 – B-1 – B-6	
Response command	**APE:a,b;ACK;**			
	a	V-80HD	A-1 – A-8 – H-1 – H-8	
		VR-120HD	A-1 – A-8 – B-1 – B-8	
		VR-6HD	A-1 – A-6 – B-1 – B-6	
	b		OFF, ON	

QAPD	Get length of Audio Player file (V-80HD/VR-120HD/VR-6HD)			
Transmitted command	**QAPD:a;**			
	a	V-80HD	A-1 – A-8 – H-1 – H-8	
		VR-120HD	A-1 – A-8 – B-1 – B-8	
		VR-6HD	A-1 – A-6 – B-1 – B-6	
Response command	**APD:a,b;ACK;**			
	a	V-80HD	A-1 – A-8 – H-1 – H-8	
		VR-120HD	A-1 – A-8 – B-1 – B-8	
		VR-6HD	A-1 – A-6 – B-1 – B-6	
	b		0–	File length (msec)

QAPC	Get current playback time of Audio Player (V-80HD/VR-120HD/VR-6HD)			
Transmitted command	**QAPC:a;**			
	a	V-80HD	A-1 – A-8 – H-1 – H-8	
		VR-120HD	A-1 – A-8 – B-1 – B-8	
		VR-6HD	A-1 – A-6 – B-1 – B-6	
Response command	**APC:a,b;ACK;**			
	a	V-80HD	A-1 – A-8 – H-1 – H-8	
		VR-120HD	A-1 – A-8 – B-1 – B-8	
		VR-6HD	A-1 – A-6 – B-1 – B-6	
	b		0–	Current playback time (msec)

APR	Set repeat for Audio Player (V-80HD/VR-120HD/VR-6HD)		
Transmitted command	**APR:a,b;**		
	a	V-80HD	A-1 – A-8 – H-1 – H-8
		VR-120HD	A-1 – A-8 – B-1 – B-8
		VR-6HD	A-1 – A-6 – B-1 – B-6
	b		OFF, ON
Response command	**ACK;**		

QAPR	Get repeat status for Audio Player (V-80HD/VR-120HD/VR-6HD)		
Transmitted command	**QAPR:a;**		
	a	V-80HD	A-1 – A-8 – H-1 – H-8
		VR-120HD	A-1 – A-8 – B-1 – B-8
		VR-6HD	A-1 – A-6 – B-1 – B-6

Response command	**APR:a,b;ACK;**		
	a	V-80HD	A-1 – A-8 – H-1 – H-8
		VR-120HD	A-1 – A-8 – B-1 – B-8
		VR-6HD	A-1 – A-6 – B-1 – B-6
	b		OFF, ON

PBTY	Set Video Player/SRT In Type (V-80HD/VR-120HD/VR-6HD)

Transmitted command	**PBTY:a;**	
	a	V.PLAYER, SRT
Response command	**ACK;**	

QPBTY	Get Video Player/SRT In Type (V-80HD/VR-120HD/VR-6HD)

Transmitted command	**QPBTY;**	
Response command	**PBTY:a;ACK;**	
	a	V.PLAYER, SRT

VPL	Start/stop Video Player (V-80HD/VR-120HD/VR-6HD, enabled when Type=V.PLAYER)

Transmitted command	**VPL:a;**	
	a	STOP, PLAY, PAUSE, RESUME
Response command	**ACK;**	

QVPS	Get status of Video Player (V-80HD/VR-120HD/VR-6HD, enabled when Type=V.PLAYER)

Transmitted command	**QVPS;**	
Response command	**VPS:a;ACK;**	
	a	STOP, PLAY, PAUSE, STARTING, STOPPING

QVPE	Get import status of Video Player (V-80HD/VR-120HD/VR-6HD, enabled when Type=V.PLAYER)

Transmitted command	**QVPE;**	
Response command	**VPE:a;ACK;**	
	a	N/A, INTERNAL, SDCARD, USB

QVPD	Get file length of Video Player (V-80HD/VR-120HD/VR-6HD, enabled when Type=V.PLAYER)

Transmitted command	**QVPD;**		
Response command	**VPD:a;ACK;**		
	a	0–	File length (msec)

QVPC	Get current playback time of Video Player (V-80HD/VR-120HD/VR-6HD, enabled when Type=V.PLAYER)

Transmitted command	**QVPC;**		
Response command	**VPC:a;ACK;**		
	a	0–	Current playback time (msec)

SRTISS	Start/stop SRT In (V-80HD/VR-120HD/VR-6HD, enabled when Type=SRT)	
Transmitted command	**SRTISS:a;**	
	a	STOP, START
Response command	**ACK;**	

QSRTIST	Get SRT In status (V-80HD/VR-120HD/VR-6HD, enabled when Type=SRT)	
Transmitted command	**QSRTIST;**	
Response command	**SRTIST:a;**	
	a	STOPPED, STOPPING, STARTING, STARTED

STRSTB	Get whether Stream & Record and SRT Out can be set to ON AIR (V-80HD/VR-120HD/VR-6HD)	
Transmitted command	**STRSTB;**	
Response command	**STRSTB:a;ACK;**	
	a	OK, ERROR_HDCP, ERROR_NO_SDCARD, ERROR_WRITE_PROTECTED, ERROR_SDXC_REQUIRED, ERROR_RESOURCE

VPSTB	Get whether Video Player can play back (V-80HD/VR-120HD/VR-6HD)	
Transmitted command	**VPSTB;**	
Response command	**VPSTB:a;ACK;**	
	a	OK, ERROR_RESOURCE, ERROR_NOT_FOUND

SRTISTB	Get whether SRT In can start (V-80HD/VR-120HD/VR-6HD)	
Transmitted command	**SRTISTB;**	
Response command	**SRTISTB:a;ACK;**	
	a	OK, ERROR_RESOURCE

CAMERA

CAMPT	Operate Pan and Tilt for the PTZ camera		
Transmitted command	**CAMPT:a,b,c;**		
	a	V-160HD	CAMERA1–16
		V-80HD	CAMERA1–8
		VR-120HD	CAMERA1–12
		VR-6HD	CAMERA1–6
		V-1-4K	CAMERA1–5
	b		LEFT, STOP, RIGHT
	c		DOWN, STOP, UP
Response command	**ACK;**		

CAMPTS	Set the pan and tilt speed for the PTZ camera		
Transmitted command	**CAMPTS:a,b;**		
	a	V-160HD	CAMERA1–16
		V-80HD	CAMERA1–8
		VR-120HD	CAMERA1–12
		VR-6HD	CAMERA1–6
		V-1-4K	CAMERA1–5
	b		1–24
Response command	**ACK;**		

QCAMPTS	Get the pan and tilt speed for the PTZ camera		
Transmitted command	**QCAMPTS:a;**		
	a	V-160HD	CAMERA1–16
		V-80HD	CAMERA1–8
		VR-120HD	CAMERA1–12
		VR-6HD	CAMERA1–6
		V-1-4K	CAMERA1–5
Response command	**CPTS:a,b;ACK;**		
	a	V-160HD	CAMERA1–16
		V-80HD	CAMERA1–8
		VR-120HD	CAMERA1–12
		VR-6HD	CAMERA1–6
		V-1-4K	CAMERA1–5
	b		1–24

CAMZM	Operate the Zoom for the PTZ camera		
Transmitted command	**CAMZM:a,b;**		
	a	V-160HD	CAMERA1–16
		V-80HD	CAMERA1–8
		VR-120HD	CAMERA1–12
		VR-6HD	CAMERA1–6
		V-1-4K	CAMERA1–5
	b		WIDE_FAST, WIDE_SLOW, STOP, TELE_SLOW, TELE_FAST
Response command	**ACK;**		

CAMZMR	Reset the Zoom for the PTZ camera		
Transmitted command	**CAMZMR:a;**		
	a	V-160HD	CAMERA1–16
		V-80HD	CAMERA1–8
		VR-120HD	CAMERA1–12
		VR-6HD	CAMERA1–6
		V-1-4K	CAMERA1–5
Response command	**ACK;**		

CAMFC	Operate the Focus for the PTZ camera		
Transmitted command	**CAMFC:a,b;**		
	a	V-160HD	CAMERA1–16
		V-80HD	CAMERA1–8
		VR-120HD	CAMERA1–12
		VR-6HD	CAMERA1–6
		V-1-4K	CAMERA1–5
	b		NEAR, STOP, FAR
Response command	**ACK;**		

CAMAFC	Set auto focus on/off for the PTZ camera		
Transmitted command	**CAMAFC:a,b;**		
	a	V-160HD	CAMERA1–16
		V-80HD	CAMERA1–8
		VR-120HD	CAMERA1–12
		VR-6HD	CAMERA1–6
		V-1-4K	CAMERA1–5
	b		OFF, ON
Response command	**ACK;**		

QCAMAFC	Get auto focus status for the PTZ camera		
Transmitted command	**QCAMAFC:a;**		
	a	V-160HD	CAMERA1–16
		V-80HD	CAMERA1–8
		VR-120HD	CAMERA1–12
		VR-6HD	CAMERA1–6
		V-1-4K	CAMERA1–5
Response command	**CAFC:a,b;ACK;**		
	a	V-160HD	CAMERA1–16
		V-80HD	CAMERA1–8
		VR-120HD	CAMERA1–12
		VR-6HD	CAMERA1–6
		V-1-4K	CAMERA1–5
	b		OFF, ON

CAMAEP	Turn auto-exposure on/off for the PTZ camera		
Transmitted command	**CAMAEP:a,b;**		
	a	V-160HD	CAMERA1–16
		V-80HD	CAMERA1–8
		VR-120HD	CAMERA1–12
		VR-6HD	CAMERA1–6
		V-1-4K	CAMERA1–5
	b		OFF, ON
Response command	**ACK;**		

QCAMAEP	Get auto exposure status for the PTZ camera		
Transmitted command	**QCAMAEP:a;**		
	a	V-160HD	CAMERA1–16
		V-80HD	CAMERA1–8
		VR-120HD	CAMERA1–12
		VR-6HD	CAMERA1–6
		V-1-4K	CAMERA1–5
Response command	**CAEP:a,b;ACK;**		
	a	V-160HD	CAMERA1–16
		V-80HD	CAMERA1–8
		VR-120HD	CAMERA1–12
		VR-6HD	CAMERA1–6
		V-1-4K	CAMERA1–5
	b		OFF, ON

CAMPR	Execute Preset Recall for the PTZ camera		
Transmitted command	**CAMPR:a,b;**		
	a	V-160HD	CAMERA1–16
		V-80HD	CAMERA1–8
		VR-120HD	CAMERA1–12
		VR-6HD	CAMERA1–6
		V-1-4K	CAMERA1–5
	b		PRESET1–100
Response command	**ACK;**		

QCAMPR	Get current preset number of the PTZ camera		
Transmitted command	**QCAMPR:a;**		
	a	V-160HD	CAMERA1–16
		V-80HD	CAMERA1–8
		VR-120HD	CAMERA1–12
		VR-6HD	CAMERA1–6
		V-1-4K	CAMERA1–5
Response command	**CPR:a,b;ACK;**		
	a	V-160HD	CAMERA1–16
		V-80HD	CAMERA1–8
		VR-120HD	CAMERA1–12
		VR-6HD	CAMERA1–6
		V-1-4K	CAMERA1–5
	b		N/A, PRESET1–100

Macro, Sequencer, Graphics Presenter

MCREX	Execute macro (V-160HD/V-80HD/VR-120HD/VR-6HD)	
Transmitted command	**MCREX:a;**	
	a	MACRO1–100
Response command	**ACK;**	

QMCRST	Check whether a macro is being executed (V-160HD/V-80HD/VR-120HD/VR-6HD)	
Transmitted command	**QMCRST:a;**	
	a	MACRO1–100
Response command	**MCRST:a,b;ACK;**	
	a	MACRO1–100
	b	OFF, ON

SEQSW	Set SEQUENCER ON/OFF (V-160HD/V-80HD/VR-120HD/VR-6HD)	
Transmitted command	**SEQSW:a;**	
	a	OFF, ON
Response command	**ACK;**	

QSEQSW	Get status of SEQUENCER (V-160HD/V-80HD/VR-120HD/VR-6HD)	
Transmitted command	**QSEQSW;**	
Response command	**SQS:a;ACK;**	
	a	OFF, ON

SEQAS	Set SEQUENCER Auto Sequence ON/OFF (V-160HD/V-80HD/VR-120HD/VR-6HD)	
Transmitted command	**SEQAS:a;**	
	a	OFF, ON
Response command	**ACK;**	

QSEQAS	Get status of SEQUENCER Auto Sequence (V-160HD/V-80HD/VR-120HD/VR-6HD)	
Transmitted command	**QSEQAS;**	
Response command	**SQA:a;ACK;**	
	a	OFF, ON

SEQPV	Set sequence number of SEQUENCER back one (V-160HD/V-80HD/VR-120HD/VR-6HD)
Transmitted command	**SEQPV;**
Response command	**ACK;**

SEQPV	Set sequence number of SEQUENCER to the previous number or to the beginning (V-160HD/V-80HD/VR-120HD/VR-6HD)		
Transmitted command	**SEQPV:a;**		
	a	0–1	0: set sequence back one; 1: set sequence to the beginning
Response command	**ACK;**		

SEQNX	Advance sequence number of SEQUENCER by one (V-160HD/V-80HD/VR-120HD/VR-6HD)
Transmitted command	**SEQNX;**
Response command	**ACK;**

SEQJP	Set sequence number of SEQUENCER (V-160HD/V-80HD/VR-120HD/VR-6HD)	
Transmitted command	**SEQJP:a;**	
	a	START, SEQ1–1000
Response command	**ACK;**	

GPNC	Graphics Presenter: select next contents
Transmitted command	**GPNC;**
Response command	**ACK;**

GPSC	Graphics Presenter: select contents (1–124)	
Transmitted command	**GPSC:a;**	
	a	CONTENT1–124
Response command	**ACK;**	

GPHF	Graphics Presenter: hide front contents
Transmitted command	**GPHF;**
Response command	**ACK;**

GPHB	Graphics Presenter: hide background contents
Transmitted command	**GPHB;**
Response command	**ACK;**

GPOA	Graphics Presenter: toggle ON AIR
Transmitted command	**GPOA;**
Response command	**ACK;**

SYSTEM

ACS	Return ACK		
Transmitted command	**ACS;**		
Response command	**ACK;**		

VER	Get model name and version number		
Transmitted command	**VER;**		
Response command	**VER:a,b;ACK;**		
	a	V-160HD, V-80HD, VR-120HD, VR-6HD, V-1-4K	Model name
	b	1.00–	Version number

Examples of settings

Transmitted command	**VER;**	Get model name and version number
Response command	**VER:V-160HD,2.00;ACK;**	V-160HD, Ver.2.00

QBSY	Get busy status of the unit	
Transmitted command	**QBSY;**	
Response command	**BSY:a;**	
	a	OFF, ON

HDCP	Set HDCP on/off	
Transmitted command	**HDCP:a;**	
	a	OFF, ON
Response command	**ACK;**	

QHDCP	Get HDCP status	
Transmitted command	**QHDCP;**	
Response command	**HCP:a;ACK;**	
	a	OFF, ON

TPT	Set Test Pattern		
Transmitted command	**TPT:a;**		
	a	V-160HD V-80HD VR-120HD VR-6HD	OFF, COLORBAR75, COLORBAR100, RAMP, STEP, HATCH, DIAMOND, CIRCLE, COLORBAR75-SP, COLORBAR100-SP, RAMP-SP, STEP-SP, HATCH-SP
		V-1-4K	OFF, COLORBAR
Response command	**ACK;**		

QTPT	Get status of Test Pattern		
Transmitted command	**QTPT;**		
Response command	**TPT:a;ACK;**		
	a	V-160HD	OFF, COLORBAR75, COLORBAR100, RAMP, STEP, HATCH, DIAMOND, CIRCLE, COLORBAR75-SP, COLORBAR100-SP, RAMP-SP, STEP-SP, HATCH-SP
		V-80HD	
		VR-120HD	
		VR-6HD	
		V-1-4K	OFF, COLORBAR

TTN	Set Test Tone Level	
Transmitted command	**TTN:a;**	
	a	OFF, -20, -10, 0dB
Response command	**ACK;**	

TTN	Set Test Tone Level		
Transmitted command	**TTN:a,b,c;**		
	a	OFF, -20, -10, 0dB	Test Tone Level
	b	500, 1k, 2kHz	Test Tone Frequency L
	c	500, 1k, 2kHz	Test Tone Frequency R
Response command	**ACK;**		

QTTN	Get Test Tone Level		
Transmitted command	**QTTN;**		
Response command	**TTN:a,b,c;ACK;**		
	a	OFF, -20, -10, 0dB	Test Tone Level
	b	500, 1k, 2kHz	Test Tone Frequency L
	c	500, 1k, 2kHz	Test Tone Frequency R

Commands voluntarily sent from the products in question

Item	Transmitted command	Response command	Parameter
Command reception	–	**ACK;**	–
Error detection	–	**ERR:a;**	a: 0 (syntax error) The received command contains an error. 4 (invalid) This has no effect because it is controlled by another setting. 5 (out of range error) An argument of the received command is out of range.