

RS232C/LAN command list
Touch Screen LCD Display MODEL : TH-75BQ1/65BQ1

2020/5/21
Panasonic Corporation

TYPE	Function	Control Command		Inquiry Command			Range and kind of parameter Call-back	Explanation	
		Transmission Command[:Parameters]	Standby	Transmission Command[:Parameters]	Reply Command[:Parameters]	Standby			
Basic Control	Power ON	PON	Avail	-	-	-	-	Power ON	
	Power OFF	POF	-	-	-	-	-	Power OFF	
	Power Status	-	-	QPW	QPW:*	Avail	0 / 1	0 : Standby (Off) 1 : Power ON (On)	
	Input Change	IMS (:***)	Not avail	QMI	QMI:***	Avail	HM1/HM2/HM3/DP1/DV1/SL1/NW1/PC1/UD1/MV1/WB1	Toggle HM1 : HDMI1 HM2 : HDMI2 HM3 : HDMI3 DP1 : DisplayPort DV1 : DVI-D(DVI-D/SLOT select:DVI-D) SL1 : SLOT(DVI-D/SLOT select:SLOT) NW1 : Screen Transfer PC1 : PC UD1 : USB MV1 : MEMORY VIEWER WB1 : WHITEBOARD In 4 input display, Input(Upper/left) is reply. In Picture in picture, Input(Main) is reply.	
	Audio Volume	AVL:***	Not avail	-	-	-	000 - 100	Volume value	
	Volume Up	AUU	Not avail	-	-	-	-	Volume Up	
	Volume Down	AUD	Not avail	-	-	-	-	Volume Down	
	Current Audio Volume	-	-	QAV	QAV:***	Avail	000 - 100	Volume value	
	Audio Mute	AMT (.*)	Not avail	QAM	QAM: *	Avail	Control:(Toggle) 0 / 1	Toggle (Audio mute Off) / (Audio mute On)	
	Video Mute	VMT (.*)	Not avail	QVM	QVM: *	Avail	Control:(Toggle) 0 / 1	Toggle (Video mute Off) / (Video mute On)	
	Aspect Change	DAM (:****)	Not avail	QAS	QAS:****	Not avail	FULL / NORM / NATV / HFIT / VFIT / ZOOM / ZOM2	Toggle FULL / NORMAL / REAL / H FIT / V FIT / ZOOM1 / ZOOM2	
	Picture Adjustment	Picture Mode	VPC:MEN***	Not avail	QPC:MEN	QPC:MEN***	Not avail	VIV / NAT / STD / SUV / GRH / DCM	VIV : VIVID SIGNAGE NAT : NATURAL SIGNAGE STD : STANDARD SUV : SURVEILLANCE GRH : GRAPHIC
		Backlight	VPC:BLT***	Not avail	QPC:BLT	QPC:BLT***	Avail	000 ~ 100 DEF	0 ~ 100 DEF:SET SHIPPING VALUE Available when Power save is Off.
Picture Contrast		VPC:PIC***	Not avail	QPC:PIC	QPC:PIC***	Avail	000 ~ 100 DEF	0 ~ 100 DEF:SET SHIPPING VALUE	
Black Level Brightness		VPC:BLK***	Not avail	QPC:BLK	QPC:BLK***	Avail	000 ~ 100 DEF	0 ~ 100 DEF:SET SHIPPING VALUE	
Color		VPC:COL***	Not avail	QPC:COL	QPC:COL***	Avail	000 ~ 100 DEF	0 ~ 100 DEF:SET SHIPPING VALUE	
Tint		VPC:TIN***	Not avail	QPC:TIN	QPC:TIN***	Not avail	000 ~ 100 DEF	0 ~ 100 DEF:SET SHIPPING VALUE	
Sharpness		VPC:SHP***	Not avail	QPC:SHP	QPC:SHP***	Avail	000 ~ 100 DEF	0 ~ 100 DEF:SET SHIPPING VALUE	
Enhance level		VPC:SHE*	Not avail	QPC:SHE	QPC:SHE*	Not avail	1 / 2	1: low 2: high	
Gamma		VWB:GMM**	Not avail	QWB:GMM	QWB:GMM**	Not avail	20 / 22 / 24 / 26	2.0 / 2.2 / 2.4 / 2.6	
Color Temperature		VPC:TMP***	Not avail	QPC:TMP	QPC:TMP***	Not avail	032 / 040 / 050 / 065 / 075 / 093 / 107 / NTV / U01 / U02	3200K ~ 10700K / NaTiVe / USER1 / USER2	
Red Gain		VWB:RGN****	Not avail	QWB:RGN	QWB:RGN****	Not avail	0000 ~ 0255	0 ~ 255 Available when Color Temperature is USER1 or USER2.	
Green Gain		VWB:GGN****	Not avail	QWB:GGN	QWB:GGN****	Not avail	0000 ~ 0255	0 ~ 255 Available when Color Temperature is USER1 or USER2.	
Blue Gain	VWB:BGN****	Not avail	QWB:BGN	QWB:BGN****	Not avail	0000 ~ 0255	0 ~ 255 Available when Color Temperature is USER1 or USER2.		
Red Bias	VWB:RBS****	Not avail	QWB:RBS	QWB:RBS****	Not avail	-127 ~ 0000 ~ 0128	-127 ~ 128 Available when Color Temperature is USER1 or USER2.		

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		Transmission Command[:Parameters]	Standby	Transmission Command[:Parameters]	Reply Command[:Parameters]	Standby		
p i c t u r e	Green Bias	VWB:GBS****	Not avail	QWB:GBS	QWB:GBS****	Not avail	-127 ~ 0000 ~ 0128	-127 ~ 128 Available when Color Temperature is USER1 or USER2.
	Blue Bias	VWB:BBS****	Not avail	QWB:BBS	QWB:BBS****	Not avail	-127 ~ 0000 ~ 0128	-127 ~ 128 Available when Color Temperature is USER1 or USER2.
	color management	VWB:CMF*	Not avail	QWB:CMF	QWB:CMF*	Not avail	0 / 1 / 2	0 : off 1 : 6-segment 2 : 12-segment
	6-segment color management select color	VWB:CML* **** **** ****	Not avail	QWB:CML*	QWB:CML* **** **** ****	Not avail	R / Y / G / C / B / M -127 ~ 0000 ~ 0127 -127 ~ 0000 ~ 0127 -127 ~ 0000 ~ 0127	Red / Yellow / Green / Cyan / Blue / Magenta TINT : -127 ~ 127 SATURATION : -127 ~ 127 VALUE : -127 ~ 127 Available when color management is 6-segment.
	6-segment color management reset	VWB:CMR	Not avail	-	-	Not avail	-	Available when color management is 6-segment.
	12-segment color management select color	VWB:CWL** **** **** ****	Not avail	QWB:CWL**	QWB:CWL** **** **** ****	Not avail	RR / RY / YY / YG / GG / GC / CC / CB / BB / BM / MM / MR -127 ~ 0000 ~ 0127 -127 ~ 0000 ~ 0127 -127 ~ 0000 ~ 0127	Red / Red-Yellow / Yellow / Yellow-Green / Green / Green-Cyan / Cyan / Cyan-Blue / Blue / Blue-Magenta / Magenta / Magenta-Red TINT : -127 ~ 127 SATURATION : -127 ~ 127 VALUE : -127 ~ 127 Available when color management is 12-segment.
	12-segment color management reset	VWB:CWR	Not avail	-	-	-	-	Available when color management is 12-segment.
	Dynamic Contrast	VPC:DCO**	Not avail	QPC:DCO	QPC:DCO**	Not avail	00 ~ 10	0 ~ 10
	Color Enhancement	VPC:PAJ*	Not avail	QPC:PAJ	QPC:PAJ*	Not avail	0 / 1 / 2 / 3	OFF / Low / Mid / High
	Blue light reduction	VPC:BLR	Not avail	QPC:BLR	QPC:BLR	Not avail	0 / 1 / 2 / 3	OFF / Low / Mid / High
	Refine enhancer	VPC:SRC*	Not avail	QPC:SRC	QPC:SRC*	Not avail	0 / 1 / 2 / 3	OFF / Low / Mid / High
	Gradation smoother	VPC:GRS*	Not avail	QPC:GRS	QPC:GRS*	Not avail	0 / 1	0 : off / 1 : on
	Default	VPC:DEF*	Not avail	-	-	-	1 / 2 / 3	Mode1 / Mode2 / Mode3 Mode1 : Default video input value for current input and current picture mode. Mode2 : Default video input value for current input and all picture mode. Mode3 : Default video input value for all input and all picture mode.
	M e m o r y f u n c t i o n	Memory delete	VPF:DEL**	Not avail	-	-	-	01 ~ 06
Memory load		VPF:LOD**	Not avail	-	-	-	01 ~ 06	Memory No.1 - Memory No.6
Memory name change		VPF:NAM** *...*	Not avail	QPF:NAM**	QPF:NAM** *...*	Not avail	space ! " # \$ % & ' () * + , - . / 0 1 2 3 4 5 6 7 8 9 : ; < = > ? @ A B C D E F G H I J K L M N O P Q R S T U V W X Y Z [\] ^ _ ` a b c d e f g h i j k l m n o p q r s t u v w x y z { } ~	Memory No.1 - Memory No.6 Memory name(Max 20 Parameters)
Memory save		VPF:SAV** *...*	Not avail	-	-	-	01 ~ 06 space ! " # \$ % & ' () * + , - . / 0 1 2 3 4 5 6 7 8 9 : ; < = > ? @ A B C D E F G H I J K L M N O P Q R S T U V W X Y Z [\] ^ _ ` a b c d e f g h i j k l m n o p q r s t u v w x y z { } ~	Memory No.1 - Memory No.6 Memory name(Max 20 Parameters)
Memory state		-	-	QPF:STA	QPF:STA*****	Not avail	- / 0 (Memory No.1 - No.06)	Unused / Use
S o u n d	Output Select	AAC:OUT***	Not avail	QAC:OUT	QAC:OUT***	Not avail	SPO / EXS / LNO	INTERNAL SPEAKERS / EXTERNAL SPEAKERS / AUDIO OUT
	Balance	AAC:BAL***	Not avail	QAC:BAL	QAC:BAL***	Not avail	-20 ~ 000 ~ +20(020)	-20 ~ 20 Available when Output Select is Not AUDIO OUT.
	Sound Mode	AAC:MEN***	Not avail	QAC:MEN	QAC:MEN***	Not avail	STD(AUT) / DYN / CLR	STANDARD / DYNAMIC / CLEAR Available when Output Select is Not AUDIO OUT.
	Bass	AAC:BAS***	Not avail	QAC:BAS	QAC:BAS***	Not avail	-20 ~ 000 ~ +20(020)	-20 ~ 20 Available when Output Select is Not AUDIO OUT.
	Treble	AAC:TRE***	Not avail	QAC:TRE	QAC:TRE***	Not avail	-20 ~ 000 ~ +20(020)	-20 ~ 20 Available when Output Select is Not AUDIO OUT.
	Surround	AAC:SUR***	Not avail	QAC:SUR	QAC:SUR***	Not avail	MON / OFF	ON / OFF Available when Output Select is Not AUDIO OUT.
	Auto Volume	AAC:ATV***	Not avail	QAC:ATV	QAC:ATV***	Not avail	OFF / LOW / MID / HIG	Off / Low / Middle / High
P o s i t i o n	Horizontal Position	DGE:HPO****	Not avail	QGE:HPO	QGE:HPO****	Not avail	-100 ~ 0000 ~ +100(0100)	H-Pos : -100 - 0000 - +100(0100)
	Horizontal Size	DGE:HSZ****	Not avail	QGE:HSZ	QGE:HSZ****	Not avail	-100 ~ 0000 ~ +100(0100)	H-Size : -100 - 0000 - +100(0100)
	Vertical Position	DGE:VPO****	Not avail	QGE:VPO	QGE:VPO****	Not avail	-100 ~ 0000 ~ +100(0100)	V-Pos : -100 - 0000 - +100(0100)
	Vertical Size	DGE:VSZ****	Not avail	QGE:VSZ	QGE:VSZ****	Not avail	-100 ~ 0000 ~ +100(0100)	V-Size : -100 - 0000 - +100(0100)
	Clock Phase	DGE:CLK***	Not avail	QGE:CLK	QGE:CLK***	Not avail	00 ~ 30	0 ~ 30
	Dot Clock	DGE:DCL***	Not avail	QGE:DCL	QGE:DCL***	Not avail	-5 ~ 00 ~ +5(05)	-5 ~ 5
	Overscan	DGE:OVS*	Not avail	QGE:OVS	QGE:OVS*	Not avail	0 / 1	OFF / ON

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		Transmission Command[:Parameters]	Standby	Transmission Command[:Parameters]	Reply Command[:Parameters]	Standby		
Position/Size Adjustment	Pos./Size Lump Setting	DGE:PSZ**** **** **** ****	Not avail	QGE:PSZ	QGE:PSZ**** **** **** ****	Not avail	-100 ~ 0000 ~ +100(0100), -100 ~ 0000 ~ +100(0100), -100 ~ 0000 ~ +100(0100), -100 ~ 0000 ~ +100(0100)	H-Pos : -100 - 0000 - +100(0100) H-Size : -100 - 0000 - +100(0100) V-Pos : -100 - 0000 - +100(0100) V-Size : -100 - 0000 - +100(0100)
	Auto Setup	DGE:ASU *	Not avail	QGE:ASU	QGE:ASU **	Not avail	Control: 1 Inquiry: OK NG OF NW	Control: 1 : Execution start Inquiry: OK : result OK NG : result NG OF : Un-performing or when not effective NW : adjusting
	PC auto setting	OSP:PAS*	Not avail	QSP:PAS	QSP:PAS*	Not avail	0 / 1	OFF / ON
Setup	Input lock	OSP:INL***	Not avail	QSP:INL	QSP:INL***	Not avail	OFF/HM1/HM2/HM3/DP1/DV1/SL1/NW1/PC1/UD1/MV1/WB1/MUI	OFF / / HDMI1 / HDMI2 / HDMI3 / DisplayPort / DVI-D / SLOT / ScreenTransfer / PC / USB / MEMORY VIEWER / WHITEBOARD / Multi Input
	Off-timer function	OSP:OFT*	Not avail	QSP:OFT	QSP:OFT*	Not avail	0 / 1	OFF / ON
	No activity power off	SSU:NAO*	Not avail	QSU:NAO	QSU:NAO*	Not avail	0 / 1	OFF / ON
	OSD Language	SSU:LNG***	Not avail	QSU:LNG	QSU:LNG***	Not avail	ENG / DEU / FRA / ITL(ITA) / ESP / USA / CHA / JPN / RUS	English (UK) / German / French / Italian / Spanish / English (US) / Chinese/Japanese / Russian
	Maximum VOL level	OSP:MVL****	Not avail	QSP:MVL	QSP:MVL****	Not avail	0 / 1, 000 ~ 100	function : OFF / ON, volume : 0~100
	Button lock	OSP:BTL***	Not avail	QSP:BTL	QSP:BTL***	Not avail	OFF / MEN / ALL	OFF / MENU&ENTER / ON
	Controller User level	OSP:RCM*	Not avail	QSP:RCM	QSP:RCM*	Not avail	0 / 1 / 2 / 3	OFF / User1 / User2 / User3
	DVI-D/SLOT select	SSU:IDS***	Not avail	QSU:IDS	QSU:IDS***	Not avail	DV1/SL1	DV1 : DVI-D SL1 : SLOT When the parameter of each setting is DVI-D or SLOT, inputs not selected by DVI-D / SLOT select can be set for each setting but will not operate.
	Quick input change mode	SSU:FIC*	Not avail	QSU:FIC	QSU:FIC*	Not avail	0 / 1	0 : OFF 1 : ON
	DIGITAL AV OUT setting	SSU:DGO*	Not avail	QSU:DGO	QSU:DGO	Not avail	0 / 1 / 2	0 : Auto 1 : 4K(2160p) 2 : 1080p
Touch screen settings	Touch screen	STS:TOS*	無効	QTS:TOS	QTS:TOS*	無効	0/1	OFF / ON
	Control menu	STS:CTM*	無効	QTS:CTM	QTS:CTM*	無効	1/2	Top / Bottom
	Quick input settings	STS:QIP*+++	無効	QTS:QIP*	QTS:QIP*+++	無効	*:1/2/3/4 +++ : HM1/HM2/HM3/DP1/DV1/SL1/NW1/PC1/UD1/MV1/WB1/MUI	*:Quick input1 - Quick input 4 +++ : HDMI1 / HDMI2 / HDMI3 / DisplayPort / DVI-D / SLOT / ScreenTransfer / PC / USB / MEMORY VIEWER / WHITEBOARD / Multi Input
	Shiring position	STS:MPS	無効	QTS:MPS	QTS:MPS*	無効	1/2/3	Left / Centre / Right
Multi display settings	Multi Input ON/OFF	MDC:MID*	Not avail	QDC:MID	QDC:MID*	Not avail	0 / 1	OFF / ON
	Display Format	MDC:SDF*	Not avail	QDC:SDF	QDC:SDF*	Not avail	0 / 1 / 2	Not available control command when input lock is Multi input. 0 : 4 input display 1 : Picture in picture 2 : Picture by picture

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		Transmission Command[:Parameters]	Standby	Transmission Command[:Parameters]	Reply Command[:Parameters]	Standby		
S e t u p	Multi display settings	4 input display Setup Detail	MDC:4IN* *** *** *** *** ***	Not avail	QDC:4IN	QDC:4IN* *** *** *** *** ***	Not avail	0 / 1 HM1/HM2/DP1/DV1/SL1/PC1 HM1/HM2/DP1/DV1/SL1/PC1 HM1/HM2/DP1/DV1/SL1/PC1 HM1/HM2/DP1/DV1/SL1/PC1 OFF / UPL / UPR / LOL / LOR / AI1 / AI2 OFF / ON Input(Upper/left) : HDMI1 / HDMI2 / DisplayPort / DVI-D / SLOT / PC Input(Upper/right) : HDMI1 / HDMI2 / DisplayPort / DVI-D / SLOT / PC Input(Lower/left) : HDMI1 / HDMI2 / DisplayPort / DVI-D / SLOT / PC Input(Lower/right) : HDMI1 / HDMI2 / DisplayPort / DVI-D / SLOT / PC Sound output : OFF / Upper/Left / Upper/Right / Lower/Left / Lower/Right / AUDIO IN1 / AUDIO IN2 Not available control command when input lock is Multi input.
		Picture in picture Setup Detail	MDC:PIP* * *** *** ***	Not avail	QDC:PIP	QDC:PIP* * *** *** ***	Not avail	0 / 1 0 / 1 / 2 / 3 HM1/HM2/DP1/DV1/SL1/PC1 HM1/HM2/DP1/DV1/SL1/PC1 OFF / MAN / SUB / AI1 / AI2 OFF / ON Sub picture location : Upper/Left / Upper/Right / Lower/Left / Lower/Right Input(Main) : HDMI1 / HDMI2 / DisplayPort / DVI-D / SLOT / PC Input(Sub) : HDMI1 / HDMI2 / DisplayPort / DVI-D / SLOT / PC Sound output : OFF / Main / Sub / AUDIO IN1 / AUDIO IN2 Not available control command when input lock is Multi input.
		Picture by picture Setup Detail	MDC:PBP* * *** *** ***	Not avail	QDC:PBP	QDC:PBP* * *** *** ***	Not avail	0 / 1 0 / 1 HM1/HM2/DP1/DV1/SL1/PC1 HM1/HM2/DP1/DV1/SL1/PC1 OFF / IN1 / IN2 / AI1 / AI2 OFF / ON Picture location : Upper/Lower / Left/Right Input(Upper) / Input(Left) : HDMI1 / HDMI2 / DisplayPort / DVI-D / SLOT / PC Input(Lower) / Input(Right) : HDMI1 / HDMI2 / DisplayPort / DVI-D / SLOT / PC Sound output : OFF / Upper/(Left) / Lower/(Right) / AUDIO IN1 / AUDIO IN2 Not available control command when input lock is Multi input.
		Multi input display position change	MDC:SDP*	Not avail	QDC:SDP	QDC:SDP*	Not avail	0~3 picture in picture 0 : Upper/Left 1 : Upper/Right 2 : Lower/Left 3 : Lower/Right Picture by picture 0 : Upper(Left) 1 : Lower(Right) 2~3 : Unsupported
		Multi input display Input change	MDC:MIM + ***	Not avail	QDC:MIM+	QDC:MIM + ***	Not avail	1~4 HM1 / HM2 / DP1 / DV1 / SL1 / PC1 4 input display 1 : Input(Upper/left) 2 : Input(Upper/right) 3 : Input(Lower/left) 4 : Input(Lower/right) Picture in picture 1 : Input(Main) 2 : Input(Sub) 3~4 : Unsupported Picture by picture 1 : Input(Upper) / Input(Left) 2 : Input(Lower) / Input(Right) 3~4 : Unsupported HDMI1 / HDMI2 / Display Port / DVI / SLOT / PC

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		Transmission Command[:Parameters]	Standby	Transmission Command[:Parameters]	Reply Command[:Parameters]	Standby			
S e t u p	Multi input Audio out change	MDC:MAO*	Not avail	QDC:MAO	QDC:MAO*	Not avail	0~6	4 input display 0:OFF 1:Upper/left 2:Upper/right 3:Lower/left 4:Lower/right 5:AUDIO-IN1 6:AUDIO-IN2 Picture in picture 0 : OFF 1 : Main 2 : Sub 3 : AUDIO-IN1 4 : AUDIO-IN2 5~6 : Unsupported Picture by picture 0 : OFF 1 : Input(Upper) / Input(Left) 2 : Input(Lower) / Input(Right) 3 : AUDIO-IN1 4 : AUDIO-IN2 5~6 : Unsupported	
	Multi Input Display Expansion	MDC:MTS*	Not avail	-	-	Not avail	1 / 2 / 3 / 4	Screen type : 4 input display 1 : Input(upper/left) 2 : Input(upper/right) 3 : Input(lower/left) 4 : Input(lower/right) Screen type : Picture in picture 1 : Input(main) 2 : Input(sub) 3 : Swap Input(main) and Input(Sub) 4 : Unsupported Screen type : Picture by picture 1 : Input(Upper) / Input(Left) 2 : Input(Lower) / Input(Right) 3 : Swap Input(Upper / Left) and Input(Lower / Right) 4 : Unsupported	
	Portrait settings	Portrait display	DPR:*	Not avail	QPR	QPR:*	Not avail	0 / 1	OFF / ON
		Inquiry about Portrait display setup	-	-	QPR:DET	QPR:DET*	Not avail	0 / 1, 01 / 03	OFF / ON, Number of displays 1 / 3
		Portrait display setup (Number of displays : 1)	DPR:D01*	Not avail	QPR:D01	QPR:D01*	Not avail	0 / 1	OFF / ON
		Portrait display setup (Number of displays : 3)	DPR:D03* * *** **	Not avail	QPR:D03	QPR:D03* * *** **	Not avail	0 / 1, 1 / 2 / 3, 000 ~ 100, 01 ~ 03	OFF / ON, Display format Mode 1 / Mode 2 / Mode 3, Bezel adjustment 0~100, Location 1 ~ 3
	Signal	Sync Signal Setting	SSG:SNC ***	Not avail	QSG:SNC	QSG:SNC ***	Not avail	HAV / GRN / HVS	Available when PC is selected. Auto detection / On G(On Y) / Hvsync
		Cinema Reality 3:2 Pull Down	SSG:DCR*	Not avail	QSG:DCR	QSG:DCR*	Not avail	0 / 1	OFF / ON
		Noise Reduction	SSG:NRS***	Not avail	QSG:NRS	QSG:NRS***	Not avail	OFF / AUT / LOW / MID / HIG	OFF / Auto / Low / Middle / High
		MPEG Noise Reduction	SSG:MNR***	Not avail	QSG:MNR	QSG:MNR***	Not avail	OFF / LOW / MID / HIG	OFF / Low / Middle / High
Input resolution(XGA/WXGA signal)		SSG:XGN*	Not avail	QSG:XGN	QSG:XGN*	Not avail	0 / 1 / 2 / 3 / 4	0 : AUTO 1 : 1024x768 2 : 1280x768 3 : 1360x768 4 : 1366x768 Available when corresponding signal is input signal.	

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		Transmission Command[:Parameters]	Standby	Transmission Command[:Parameters]	Reply Command[:Parameters]	Standby			
S e t u p	Signal	Input resolution(SXGA+/WSXGA+ signal)	SSG:XGS*	Not avail	QSG:XGS	QSG:XGS*	Not avail	0 / 1 / 2 0 : AUTO 1 : 1400x1050 2 : 1680x1050 Available when corresponding signal is input signal.	
		Input resolution(UXGA/WUXGA signal)	SSG:XGU*	Not avail	QSG:XGU	QSG:XGU*	Not avail	0 / 1 / 2 0 : AUTO 1 : 1600x1200 2 : 1920x1200 Available when corresponding signal is input signal.	
		Signal Range	SSG:HRC***	Not avail	QSG:HRC	QSG:HRC***	Not avail	VID / FULL / AUT (HDMI input) Video / FULL / Auto (DVI-D input) Video / FULL / Auto (Other input) not avail	
		Component/RGB-IN Select	SSU:CMP***	Not avail	QSU:CMP	QSU:CMP***	Not avail	YBR / RGB YBR Signal / RGB Signal	
		YUV/RGB-IN Select	SSU:DYR***	Not avail	QSU:DYR	QSU:DYR***	Not avail	YUV / RGB / AUT YUV Signal / RGB Signal / Auto Available when HDMI1/HDMI2/HDMI3/DisplayPort/DVI-D/SLOT is selected. Auto is Not available when HDMI3 is selected.	
		Input Level	VWB:ILV***	Not avail	QWB:ILV	QWB:ILV***	Not avail	-16 ~ 000 ~ +16(016) -16 ~ 16	
		FRAME CREATION	VPC:FRC*	Not avail	QPC:FRC	QPC:FRC*	Not avail	0 / 1 OFF / ON	
		Dynamic backlight control	SSG:DBC*	Not avail	QSG:DBC	QSG:DBC*	Not avail	0 / 1 OFF / ON	
		EDID select	SSG:EID*	Not avail	QSG:EID	QSG:EID*	Not avail	0 / 1 / 2 / 3 0 : 4K/60p/SDR 1 : 4K/30p 2 : 2K 3 : 4K/60p/HDR	
		Dynamic range	SSG:DNR*	Not avail	QSG:DNR	QSG:DNR*	Not avail	0 / 1 / 2 / 3 0 : Auto 1 : HDR(PQ) 2 : HDR(HLG) 3 : SDR	
		Colour gamut	SSG:CLG*	Not avail	QSG:CLG	QSG:CLG*	Not avail	0 / 1 / 2 0 : Auto 1 : Native 2 : ITU-2020 emu.	
		Power on settings	Initial input	OSP:IIN***	Not avail	QSP:IIN	QSP:IIN***	Not avail	OFF/HM1/HM2/HM3/DP1/DV1/SL1/PC1/NW1/UD1/MV1/WB1/MUI OFF / HDMI1 / HDMI2 / HDMI3 / DisplayPort / DVI-D / SLOT / PC / ScreenTransfer / USB / MEMORY VIEWER / WHITEBOARD / Multi Input
			Initial Startup	OSP:ISU***	Not avail	QSP:ISU	QSP:ISU***	Not avail	LST PON STB LST : Last memory(return to a front state) PON : ON STB : STANDBY
			Initial VOL level	OSP:IVL****	Not avail	QSP:IVL	QSP:IVL****	Not avail	0 / 1, 000 ~ 100 function : OFF / ON, volume : 0~100
Power ON Screen Delay	OSP:POD**		Not avail	QSP:POD	QSP:POD**	Not avail	AT / 00 ~ 30 AT : Auto 0~30 : 0~30 seconds		
Information(No activity power off)	OSP:NAP*		Not avail	QSP:NAP	QSP:NAP*	Not avail	0 / 1 OFF / ON		
Information(Power management)	OSP:PMM*		Not avail	QSP:PMM	QSP:PMM*	Not avail	0 / 1 OFF / ON		
Information(Display upside-down)	OSP:DUD*		Not avail	QSP:DUD	QSP:DUD*	Not avail	0 / 1 OFF / ON		
Input search	Input search	ISH:FNC***	Not avail	QSH:FNC	QSH:FNC***	Not avail	OFF / ALL / PRI / IDC OFF / ALL inputs / Custom / Input detection		
	1st search input	ISH:PRI***	Not avail	QSH:PRI	QSH:PRI***	Not avail	NON /HM1/HM2/HM3/DP1/DV1/SL1/PC1/UD1 NONE / HDMI1 / HDMI2 / HDMI3 / DisplayPort / DVI-D / SLOT / PC / USB		
	2nd search input	ISH:SCI***	Not avail	QSH:SCI	QSH:SCI***	Not avail	NON /HM1/HM2/HM3/DP1/DV1/SL1/PC1/UD1 NONE / HDMI1 / HDMI2 / HDMI3 / DisplayPort / DVI-D / SLOT / PC / USB		

TYPE	Function	Control Command		Inquiry Command			Range and kind of parameter Call-back	Explanation
		Transmission Command[:Parameters]	Standby	Transmission Command[:Parameters]	Reply Command[:Parameters]	Standby		
Input search	Detect digital input	ISH:DIN*** +	Not avail	QSH:DIN***	QSH:DIN***+	Not avail	***:HM1/HM2/HM3/DP1/DV1/PC1 +:0 / 1	HDMI1 / HDMI2 / HDMI3 / DisplayPort / DVI-D / PC OFF / ON
	Changing delay	ISH:CGD**	Not avail	QSH:CGD	QSH:CGD**	Not avail	00 / 01 / 02 / 03 / 04 / 05 / 06 / 07 / 08 / 09 / 10	00 : OFF 01~10 : changing time(sec)
Failover / Failback	Input Change Mode Off	SBI:OFF (NON NON *)	Not avail	QBI	QBI:OFF NON NON *	Not avail	0	0: Disable (Auto switch back mode)
	Input Change Mode Quick	SBI:QIC (*** *** *)	Not avail	QBI	QBI:QIC *** *** *	Not avail	NON / HM1/HM2/DP1/DV1/SL1 NON / HM1/HM2/DP1/DV1/SL1 0 / 1	Primary backup input : (None) / HDMI1 / HDMI2 / DisplayPort / DVI-D / SLOT Secondary backup input : (None) / HDMI1 / HDMI2 / DisplayPort / DVI-D / SLOT Auto switch back mode : 0: Disable / 1 : Enable
	Input Change Mode Normal	SBI:NOR (*** *** *)	Not avail	QBI	QBI:NOR *** *** *	Not avail	NON /HM1/HM2/HM3/DP1/DV1/SL1/PC1/UD1 NON /HM1/HM2/HM3/DP1/DV1/SL1/PC1/UD1 0 / 1	Primary backup input : (None) / HDMI1 / HDMI2 / HDMI3 / DisplayPort / DVI-D / SLOT / PC / USB Secondary backup input : (None) / HDMI1 / HDMI2 / HDMI3 / DisplayPort / DVI-D / SLOT / PC / USB Auto switch back mode : 0: Disable / 1 : Enable
	Changing mode	SBI:CHM*	Not avail	QBI:CHM	QBI:CHM*	Not avail	2 / 1	High speed / Normal speed When [Quick] is selected, [Changing mode] can be adjusted.
	Backup Input Status	-	-	QBI:STS	QBI:STS * *** *	Not avail	0 / 1 NON /HM1/HM2/HM3/DP1/DV1/SL1/PC1/UD1/NW1/MV1/WB1 0 / 1 / 2	0: inactive / 1: active (Status) Main Input : HDMI1 / HDMI2 / HDMI3 / DisplayPort / DVI-D / SLOT / PC / USB / SCREEN TRANSFRER / MEMORY VIEWER / WHITEBOARD 0: Main Input / 1: Primary Backup input / 2: Secondary Backup input (Current Input Status)
	Backup Input Signal Status	-	-	QBI:SIG	QBI:SIG * * *	Not avail	0 / 1 0 / 1 0 / 1	0 : no signal / 1 : not no signal (Main input) 0 : no signal / 1 : not no signal (Primary backup input) 0 : no signal / 1 : not no signal (Secondary backup input) When Input change mode is not Off
	Manual Switch Back	BIP:FSB	Not avail	-	-	Not avail	-	Enable when Input change mode is not Off and Auto switch back mode is Disable.
Screensaver	Screensaver ON/OFF	OSP:SCR*	Not avail	QSP:SCR	QSP:SCR*	Not avail	0 / 5	0 : stop 5 : operating
	Screensaver Mode	SSC:MOD*	Not avail	QSC:MOD	QSC:MOD*	Not avail	0 / 1 / 2 / 3 / 4	0:OFF 1:Interval 2:Time Designation 3:ON 4:Standby after Screensaver
	Interval Screensaver	SSC:INT**** ****	Not avail	QSC:INT	QSC:INT**** ****	Not avail	0000 ~ 2359, 0000 ~ 2359	Periodic time Operating time
	Time Designation Screensaver	SSC:TIM**** ****	Not avail	QSC:TIM	QSC:TIM**** ****	Not avail	0000 ~ 2359, 0000 ~ 2359	Start time Finish time
	Standby after Screensaver	SSC:AOF****	Not avail	QSC:AOF	QSC:AOF****	Not avail	0000 ~ 2359	Time of operation(hour:minute)
	Wobbling	OSP:WOB*	Not avail	QSP:WOB	QSP:WOB*	Not avail	0 / 1	OFF / ON
Input label	Set Label for Current Input	SSU:ILA***	Not avail	QSU:ILA	QSU:ILA***	Not avail	INP / PCN / DV1 / DV2 / DV3 / BD1 / BD2 / BD3 / CTV / VCR / STB / CAM / PCL / SKP	reset input name(Except PC) / reset input name(for PC) DVD1 / DVD2 / DVD3 / Blu-ray1 / Blu-ray2 / Blu-ray3 / CATV / VCR / STB / Document camera / PC(Except PC) / Skip

TYPE	Function	Control Command		Inquiry Command			Range and kind of parameter Call-back	Explanation	
		Transmission Command[:Parameters]	Standby	Transmission Command[:Parameters]	Reply Command[:Parameters]	Standby			
S e t u p	Input label	SSU:ILA+++***	Not avail	QSU:ILA+++	QSU:ILA+++ ***	Not avail	+++ : HM1/HM2/HM3/DP1/DV1/SL1/PC1 *** : INP / PCN / DV1 / DV2 / DV3 / BD1 / BD2 / BD3 / CTV / VCR / STB / CAM / PCL / SKP	Input HDMI1 / HDMI2 / HDMI3 / DisplayPort / DVI-D / SLOT / PC Not SLOT : Label reset(input other than PC) / Label reset(PC input) DVD1 / DVD2 / DVD3 / Blu-ray1 / Blu-ray2 / Blu-ray3 / CATV / VCR / STB / Document camera / PC(Except PC) / Skip Skip SLOT : Label reset(INP) / Skip(SKP)	
	Audio input select	for Current Input	SAI:A+++	Not avail	QAI	QAI:V*** A+++	Not avail	*** HM1/HM2/HM3/DP1/DV1/SL1/PC1/NW1 +++ HM1/HM2/HM3/DP1/SL1/NW1/AI1/AI2/NAD	HDMI1 / HDMI2 / HDMI3 / DisplayPort / DVI-D / SLOT / PC / Screen Transfer HDMI1 / HDMI2 / HDMI3 / DisplayPort / SLOT / Screen Transfer / AUDIO-IN1 / AUDIO-IN2 / NO AUDIO
		for EACH INPUT	SAI:V*** A+++	Not avail	QAI:V***	QAI:V*** A+++	Not avail	*** HM1/HM2/HM3/DP1/DV1/SL1/PC1/NW1 +++ HM1/HM2/HM3/DP1/SL1/NW1/AI1/AI2/NAD	HDMI1 / HDMI2 / HDMI3 / DisplayPort / DVI-D / SLOT / PC / Screen Transfer HDMI1 / HDMI2 / HDMI3 / DisplayPort / SLOT / Screen Transfer / AUDIO-IN1 / AUDIO-IN2 / NO AUDIO
	Power management settings	Power Management Mode	SSU:ECS*	Not avail	QSU:ECS	QSU:ECS*	Not avail	0 / 1 / 2	CUSTOM / ON / Input detection
		No Signal Power Off	SSU:AOF*	Not avail	QSU:AOF	QSU:AOF*	Not avail	0 / 1	OFF / ON
		HDMI1 Power Management	SSU:D1H*	Not avail	QSU:D1H	QSU:D1H*	Not avail	0 / 1	OFF / ON
		HDMI2 Power Management	SSU:D2H*	Not avail	QSU:D2H	QSU:D2H*	Not avail	0 / 1	OFF / ON
		HDMI3 Power Management	SSU:D3H*	Not avail	QSU:D3H	QSU:D3H*	Not avail	0 / 1	OFF / ON
		DisplayPort Power Management	SSU:D1P*	Not avail	QSU:D1P	QSU:D1P*	Not avail	0 / 1	OFF / ON
		DVI-D Power Management	SSU:D1V*	Not avail	QSU:D1V	QSU:D1V*	Not avail	0 / 1	OFF / ON
		PC Power Management	SSU:DPM*	Not avail	QSU:DPM	QSU:DPM*	Not avail	0 / 1	OFF / ON
		Power Save	SSU:ECO*	Not avail	QSU:ECO	QSU:ECO*	Not avail	0 / 1	OFF / ON
Extended standby mode		SSU:ESM*	Not avail	QSU:ESM	QSU:ESM*	Not avail	0 / 1	OFF / ON	
Changing delay	SSU:CGD**	Not avail	QSU:CGD	QSU:CGD**	Not avail	00 / 01 / 02 / 03 / 04 / 05 / 06 / 07 / 08 / 09 / 10	00 : OFF 01~10 : 切替時間(秒)		
HDMI-CEC settings	HDMI-CEC control	SHC:FNC*	Not avail	QHC:FNC	QHC:FNC*	Not avail	0 / 1	Disable / Enable	
	HDMI1 (change device)	SHC:HM1***	Not avail	-	-	-	NXT / PRE	Change to next device / Change to previous device	
	HDMI1 (get device name)	-	-	QHC:HM1	QHC:HM1*...*	Not avail	space ! " # \$ % & ' () * + , - . / 0 1 2 3 4 5 6 7 8 9 : ; < = > ? @ A B C D E F G H I J K L M N O P Q R S T U V W X Y Z [\] ^ _ ` a b c d e f g h i j k l m n o p q r s t u v w x y z { } -	Device name (Max 23 Parameters)	
	HDMI2 (change device)	SHC:HM2***	Not avail	-	-	-	NXT / PRE	Change to next device / Change to previous device	
	HDMI2 (get device name)	-	-	QHC:HM2	QHC:HM2*...*	Not avail	space ! " # \$ % & ' () * + , - . / 0 1 2 3 4 5 6 7 8 9 : ; < = > ? @ A B C D E F G H I J K L M N O P Q R S T U V W X Y Z [\] ^ _ ` a b c d e f g h i j k l m n o p q r s t u v w x y z { } -	Device name (Max 23 Parameters)	
	HDMI3 (change device)	SHC:HM3***	Not avail	-	-	-	NXT / PRE	Change to next device / Change to previous device	
	HDMI3 (get device name)	-	-	QHC:HM3	QHC:HM3*...*	Not avail	space ! " # \$ % & ' () * + , - . / 0 1 2 3 4 5 6 7 8 9 : ; < = > ? @ A B C D E F G H I J K L M N O P Q R S T U V W X Y Z [\] ^ _ ` a b c d e f g h i j k l m n o p q r s t u v w x y z { } -	Device name (Max 23 Parameters)	
	SLOT (change device)	SHC:SL1***	Not avail	-	-	-	NXT / PRE	Change to next device / Change to previous device	
	SLOT (get device name)	-	-	QHC:SL1	QHC:SL1*...*	Not avail	space ! " # \$ % & ' () * + , - . / 0 1 2 3 4 5 6 7 8 9 : ; < = > ? @ A B C D E F G H I J K L M N O P Q R S T U V W X Y Z [\] ^ _ ` a b c d e f g h i j k l m n o p q r s t u v w x y z { } -	Device name (Max 23 Parameters)	
	MENU code	SHC:MNC*	Not avail	QHC:MNC	QHC:MNC*	Not avail	1 / 2 / 3 / 4 / 5 / 6	1 / 2 / 3 / 4 / 5 / 6	
Display → Device	SHC:PTS***	Not avail	QHC:PTS	QHC:PTS***	Not avail	OFF / POF / PWR	"Disable" / "Power off" / "Power on / off"		
Device → Display	SHC:STP***	Not avail	QHC:STP	QHC:STP***	Not avail	OFF / PON / PWR	"Disable" / "Power on" / "Power on / off"		
Image settings Startup image settings	Display setting	SCI:SIM*	Not avail	QCI:SIM	QCI:SIM*	Not avail	0 / 1	OFF / ON	
	Image select	SCI:SCG*	Not avail	QCI:SCG	QCI:SCG*	Not avail	0 / 1	0 : Default image 1 : User image	
Image settings No signal image settings	Display setting	SCI:NIM*	Not avail	QCI:NIM	QCI:NIM*	Not avail	0 / 1	OFF / ON	
	Image select	SCI:NCG*	Not avail	QCI:NCG	QCI:NCG*	Not avail	0 / 1	0 : Default image 1 : User image	

TYPE	Function	Control Command		Inquiry Command			Range and kind of parameter Call-back	Explanation
		Transmission Command[:Parameters]	Standby	Transmission Command[:Parameters]	Reply Command[:Parameters]	Standby		
S e t u p	Set up timer	Timer Setup Detail	TIM:PRG** * *** *** **** ***	Not avail	QIM:PRG**	QIM:PRG** * *** *** **** ***	Not avail	01 ~ 20, 0 / 1, SUN / MON / TUE / WED / THU / FRI / SAT / EVD / WDA / WEN / CUS, PON / POF, 0000 ~ 2359, HM1/HM2/HM3/DP1/DV1/SL1/PC1/NW1/UD1/MV1/WB1/MUI Program number : 1~20, Function : OFF / ON, (*Inquiry Command reply, A lower parameter is not given when the upper setup is "OFF.") a day of the week : Sunday / Monday / Tuesday / Wednesday / Thursday / Friday / Saturday / Everyday / Weekday / Weekend / Custom (*Custom can't be set with Control Command. However, after setting, the day on the menu is "Custom".) (*The day of the inquiry response is "Custom" only if it doesn't apply to any of Monday through Weekend.) Action type : PON / POF, Time : hour, minute, Start-up input :HDMI1 / HDMI2 / HDMI3 / DisplayPort / DVI-D / SLOT / PC / ScreenTransfer / USB / MEMORY VIEWER / WHITEBOARD /Multi Input
		Multiple day specification	TIM:PRC** * * * * * * * * * *** **** ***	Not avail	QIM:PRC**	QIM:PRC** * * * * * * * * * * *** **** ***	Not avail	01 ~ 20, 0 / 1, 0 / 1, 0 / 1, 0 / 1, 0 / 1, 0 / 1, 0 / 1, 0 / 1, 0 / 1, 0 / 1, 0 / 1, PON / POF, 0000 ~ 2359, HM1/HM2/HM3/DP1/DV1/SL1/PC1/NW1/UD1/MV1/WB1/MUI Program number : 1~20, Function : OFF / ON, (*A lower parameter is not given when the upper setup is "OFF.") Monday : OFF / ON, Tuesday : OFF / ON, Wednesday : OFF / ON, Thursday : OFF / ON, Friday : OFF / ON, Saturday : OFF / ON, Sunday : OFF / ON, Action type : PON / POF, Time : hour, minute, Start-up input :HDMI1 / HDMI2 / HDMI3 / DisplayPort / DVI-D / SLOT / PC / ScreenTransfer / USB / MEMORY VIEWER / WHITEBOARD /Multi Input
	Date and time	Present Day	-	-	QIM:DAY	QIM:DAY***	Not avail	SUN / MON / TUE / WED / THU / FRI / SAT (a day of the week): Sunday / Monday / Tuesday / Wednesday / Thursday / Friday / Saturday
		Present Time	-	-	QIM:NOW	QIM:NOW****	Not avail	0000 ~ 2359 Present time (hour:minute)
		DAY TIME	TIM:DAT**** ** ** ** **	Not avail	QIM:DAT	QIM:DAT**** ** ** ** **	Not avail	YYYY : 2018 ~ 2035 MM : 01 ~ 12 DD : 01 ~ 31 hh : 00 ~ 23 mm : 00 ~ 59 (Year) (Month) (Day) (Hour) (Minute) format is "YYYYMMDDhhmm "
		Clock Display	OSP:CLK*	Not avail	QSP:CLK	QSP:CLK*	Not avail	0 / 1 OFF / ON
		Synchronize display	TIM:SDM*	Not avail	QIM:SDM	QIM:SDM*	Not avail	0 / 1 Off / On
		Parent or child setting	TIM:PCS*	Not avail	QIM:PCS	QIM:PCS*	Not avail	0 / 1 Child / Parent
		Network settings	Serial Control	SCT:SEC***	Not avail	QCT:SEC	QCT:SEC***	Not avail
	Network Control		SSU:NCT*	Not avail	QSU:NCT	QSU:NCT*	Not avail	0 / 1 OFF / ON Setting to Off while connected with LAN might disconnect the connection.
Auto Display Name	SSU:ADN*		Not avail	QSU:ADN	QSU:ADN*	Not avail	0 / 1 OFF / ON	
Display name	SSU:LDN *...*		Not avail	QSU:LDN	QSU:LDN *...*	Not avail	space ! " # \$ % & ' () * + , - . / 0 1 2 3 4 5 6 7 8 9 : ; < = > ? @ A B C D E F G H I J K L M N O P Q R S T U V W X Y Z [\] ^ _ ` a b c d e f g h i j k l m n o p q r s t u v w x y z { } - DISPLAY NAME(Max 8 Parameters)	

TYPE	Function	Control Command		Inquiry Command			Range and kind of parameter Call-back	Explanation	
		Transmission Command[:Parameters]	Standby	Transmission Command[:Parameters]	Reply Command[:Parameters]	Standby			
S e t u p	Network settings	LAN Setup - Network Address	SSU:NET*** *** *** *** *** *** *** *** *** *** *** *** *** *** ***	Not avail	QSU:NET	QSU:NET*** *** *** *** *** *** *** *** *** *** *** *** *** *** ***	Not avail	000 ~ 255 000 ~ 255 000 ~ 255 000 ~ 255 000 ~ 255 000 ~ 255 000 ~ 255 000 ~ 255 000 ~ 255 000 ~ 255 000 ~ 255 000 ~ 255 000 ~ 255 000 ~ 255 000 ~ 255	IP address 1st BYTE 000 ~ 255 IP address 2nd BYTE 000 ~ 255 IP address 3rd BYTE 000 ~ 255 IP address 4th BYTE 000 ~ 255 SUB NET MASK 1st BYTE 000 ~ 255 SUB NET MASK 2nd BYTE 000 ~ 255 SUB NET MASK 1st BYTE 000 ~ 255 SUB NET MASK 2nd BYTE 000 ~ 255 Gateway address 1st BYTE 000 ~ 255 Gateway address 2nd BYTE 000 ~ 255 Gateway address 3rd BYTE 000 ~ 255 Gateway address 4th BYTE 000 ~ 255
		LAN Setup - Command Port Number	SSU:LCP*****	Not avail	QSU:LCP	QSU:LCP*****	Not avail	01024~65535(04352, 10000, 20000, 27250, 41794 are excluded.)	Command Port Number (1024~4351,4353~9999,10001~19999, 20001~27249, 27251~41793, 41795~65535)
		AMX D.D.	SSU:ADD*	Not avail	QSU:ADD	QSU:ADD*	Not avail	0 / 1	OFF / ON
		Crestron ConnectedTM	SSU:CRV*	Not avail	QSU:CRV	QSU:CRV*	Not avail	0 / 1	OFF / ON
		USB memory network settings	SSU:UNS*	Not avail	QSU:UNS	QSU:UNS*	Not avail	0 / 1	Prohibit / Permit
		LAN Control Protocol	OSP:LPN***	Not avail	QSP:LPN	QSP:LPN***	Not avail	LP1 / LP2	Protocol1 / Protocol2
		Reset	SSU:LRT	Not avail	-	-	-	-	
	USB media player settings	USB media player	SUS:UMP*	Not avail	QUS:UMP	QUS:UMP*	Not avail	0 / 1	Disable / Enable
		Schedule play function	SUS:SPF*	Not avail	QUS:SPF	QUS:SPF*	Not avail	0 / 1	Disable / Enable
		Video Playback Mode	SUS:VPB*	Not avail	QUS:VPB	QUS:VPB*	Not avail	0 / 1	Standard / Adjust
		Still picture rotation	SUS:STR*	Not avail	QUS:STR	QUS:STR*	Not avail	0 / 1 / 2	Landscape / Portrait / Exif information
		Resume play	SUS:RSP*	Not avail	QUS:RSP	QUS:RSP*	Not avail	0 / 1	OFF / ON
		Slide show duration	SUS:SSD***	Not avail	QUS:SSD	QUS:SSD***	Not avail	010 ~ 600	10 - 600 seconds (5 second unit)
		Play mode	SUS:SPM*	Not avail	QUS:SPM	QUS:SPM*	Not avail	0 / 1	Individual play / Synchronize play
		get Schedule play mode	-	-	QUS:CMS	QUS:CMS*	Avail	0 / 1	Normal mode / Schedule play mode (standby : Normal standby / Schedule wait standby)
Memory viewer settings	Memory viewer function	SMS:MVF*	Not avail	QMS:MVF	QMS:MVF*	Not avail	0 / 1	OFF / ON	
	View	SMS:VIE***	Not avail	QMS:VIE	QMS:VIE***	Not avail	THU / LIS	Thumbnail / List	
	Content select	SMS:CON***	Not avail	QMS:CON	QMS:CON***	Not avail	STL / VID / AUD / ALL / SAV / SAA / VAA	Picture / Video / Audio / All / Picture/Video / Picture/Audio / Video/Audio	
	Sort type	SMS:TYP***	Not avail	QMS:TYP	QMS:TYP***	Not avail	DAT / NAM	Date / Name	
	Sort order	SMS:ODR***	Not avail	QMS:ODR	QMS:ODR***	Not avail	ASD / DSD	Ascending / Descending	
	Play method	SMS:RPT***	Not avail	QMS:RPT	QMS:RPT***	Not avail	NON / ONE / ALL / RAN / SEL / PRG	None / Repeat one file / Repeat all files / Random / Select / Program	
	Picture duration	SMS:SSD***	Not avail	QMS:SSD	QMS:SSD***	Not avail	010 ~ 600	10 - 600 seconds (5 second unit)	
	Auto display content info	SMS:INF*	Not avail	QMS:INF	QMS:INF*	Not avail	0 / 1	OFF / ON	
Auto display operation guide	SMS:GUI*	Not avail	QMS:GUI	QMS:GUI*	Not avail	0 / 1	OFF / ON		
Screen Transfer settings	Screen Transfer function	SSU:STF*	無効	QSU:STF	QSU:STF*	無効	0 / 1	Disable / Enable	
	Cut in	SSU:STC*	無効	QSU:STC	QSU:STC*	無効	0 / 1	OFF / ON	
	PIN code	SSU:STP*	無効	QSU:STP	QSU:STP*	無効	0 / 1	OFF / ON	
Function button settings	Function Group	OSP:KGR***	Not avail	QSP:KGR	QSP:KGR***	Not avail	INP / MEM / ACT	INPUT / MEMORY / ACTION & MENU(SHORTCUT)	
	Function Button Settings	OSP:KFN* ***	Not avail	QSP:KFN*	QSP:KFN* ***	Not avail	1 - 6 (SHORT CUT) SIG / SSV / SUT / LNS / ECO / OSH / MLT / PRT / DZM / MSW / DID / HCO / PLE (INPUT) HM1/HM2/HM3/DP1/DV1/SL1/PC1/NW1/UD1/MV1/WB1	setup to FUNCTION KEY 1 - 6 (ACTION & MENU) SIG : Signal menu SSV : Screensaver menu SUT : Timer setup menu LNS : Network settings menu ECO : Power management settings menu OSH : AV Mute MLT : Multi display settings menu PRT : Portrait settings menu DZM : Digital zoom MSW : Multi display switching DID : Display ID & Display Name HCO : HDMI-CEC operation PLE : Playlist edit (INPUT) HDMI1 / HDMI2 / HDMI3 / DisplayPort / DVI-D / SLOT / ScreenTransfer / PC / USB / MEMORY VIEWER / WHITEBOARD	
	Function guide Settings	OSP:KFG*	Not avail	QSP:KFG	QSP:KFG*	Not avail	0 / 1	OFF / ON	

TYPE	Function	Control Command		Inquiry Command			Range and kind of parameter Call-back	Explanation	
		Transmission Command[:Parameters]	Standby	Transmission Command[:Parameters]	Reply Command[:Parameters]	Standby			
S e t u p	Color Universal design settings	Color universal designn setting	SSU:CUD*	Not avail	QSU:CUD	QSU:CUD*	Not avail	0/1	OFF /ON
	Device operation mode settings	Auto setting	STS:APC	Not avail	QTS:APC	QTS:APC*	Not avail	0/1	OFF /ON
		Auto input change setting	STS:AIP	Not avail	QTS:AIP	QTS:AIP***	Not avail	OFF/HM1/HM2/HM3/DP1/DV1/PC1	OFF / HDMI1 / HDMI2 / HDMI3 / DisplayPort / DVI-D / PC
	OSD settings	Menu Display Duration	SSU:MDT***	Not avail	QSU:MDT	QSU:MDT***	Not avail	005 ~ 180	Timeout time of a menu display 5 - 180 seconds (5 second unit)
		On screen display	OSP:OSD*	Not avail	QSP:OSD	QSP:OSD*	Not avail	0 / 1	OFF / ON
		OSD Transparency	SSU:MTL***	Not avail	QSU:MTL	QSU:MTL***	Not avail	000 ~ 100	Transmissivity of a menu 0 ~ 100% (10% unit)
	Control settings	Display ID	-	-	QID:DID	QID:DID***	Not avail	000 ~ 100	Display ID
		Serial ID function	SID:SID*	Not avail	QID:SID	QID:SID*	Not avail	0 / 1	OFF / ON
		Serial Response(Normal)	SCT:RIN*	Not avail	QCT:RIN	QCT:RIN*	Not avail	0 / 1	OFF / ON
		Serial Response(ID all)	SCT:RIA*	Not avail	QCT:RIA	QCT:RIA*	Not avail	0 / 1	OFF / ON
		Serial ID Setup (Serial ID Function and Display ID)	SIF:* ***	Not avail	QIF	QIF:* ***	Not avail	0 / 1 000~100	OFF / ON Display ID
	Information Timing	No Signal Warning	SIT:NSW*	Not avail	QIT:NSW	QIT:NSW*	Not avail	0 / 1	0: Off /1:On On:display sends out the no signal warning.(QST:NSW*)
		No Signal Warning Timing	SIT:SWT**	Not avail	QIT:SWT	QIT:SWT**	Not avail	01 ~ 60	01 ~ 60 (minutes)
		Query status :No Signal Warning Timing	-	Not avail	QST:NSW	QST:NSW*	Not avail	0 / 1	1: No Signal Warning: 0: No waring for this function. *Reply "0" when No Signal Warning is set "OFF".
		Message of No Signal Warning (Auto) While RS-232C controls: message sent on the display automatically.	-	Not avail	-	QST:NSW*	Not avail	0 / 1	1: No Signal Warning: 0: No waring for this function.
		No Signal Error	SIT:NSE*	Not avail	QIT:NSE	QIT:NSE*	Not avail	0 / 1	0: Off /1:On On:display sends out the no signal error..(QST:NSE*)
		No Signal Error Timing	SIT:SET**	Not avail	QIT:SET	QIT:SET**	Not avail	01 ~ 90	01 ~ 90 (minutes)
		Query status :No Signal Error Timing	-	Not avail	QST:NSE	QST:NSE*	Not avail	0 / 1	1: No Signal Error 0: No error for this function. *Reply "0" when No Signal Error is set "OFF".
		Message of No Signal Error Timing (Auto) While RS-232C controls: message sent on the display automatically.	-	Not avail	-	QST:NSE*	Not avail	0 / 1	1: No Signal Error 0: No error for this function.
		Temperature Warning	SIT:TPW*	Not avail	QIT:TPW	QIT:TPW*	Not avail	0 / 1	0: Off /1:On On:display sends out the warning temperature..(QST:TO*)
		Query status :Temperature warning	-	Not avail	QST:TO	QST:TO*	Not avail	0 / 1	1: "HIGH TEMPERATURE-MODE". *Please check the condition. 0: "NORMAL-MODE".
	Message of Temperature warning(Auto) While RS-232C controls: message sent on the display automatically.	-	Not avail	-	QST:TO*	Not avail	0 / 1	1: "HIGH TEMPERATURE-MODE". *Please check the condition. 0: "NORMAL-MODE".	
	SLOT Settings	SLOT information (Versioin)	-	-	QSU:SIV	QSU:SIV *****	Not avail	(example) ***** : 31323334	***** : Version
		SLOT power link	SSU:SPL*	Not avail	QSU:SPL	QSU:SPL*	Not avail	0 / 1	0 : OFF 1 : ON
		SLOT standby	SSU:SSB*	Not avail	QSU:SSB	QSU:SSB*	Not avail	0 / 1	0 : OFF 1 : ON
		SLOT forced termination	SSU:SOF	Not avail	-	-	-	-	SLOT forced off
		SLOT power on	SSU:SON	Not avail	-	-	-	-	SLOT power on
Others	Recall	DDS	Not avail	-	-	-	-	Recall	
	Display ID / Display name	DDS:DID	Not avail	-	-	-	-	Display ID / Display name	
	Audio Mute	AOC:*	Not avail	-	-	-	0 / 1	MUTE OFF / MUTE ON	
	OSD Clear	VDO	Not avail	-	-	-	-	OSD Clear	
	digital zoom	DZM:* * * *	Not avail	QDZ	QDZ:* * * *	Not avail	0 / 1, 1 / 2 / 3 / 4, 1 / 2 / 3 / 4 / 5, 1 / 2 / 3 / 4 / 5	OFF / ON, Enlargement factor, display position(Horizontal), display position(Vertical)	
	Off Timer	ZOT:**	Not avail	-	-	-	00 ~ 90	0~90(minutes)	

TYPE	Function	Control Command		Inquiry Command			Range and kind of parameter Call-back	Explanation
		Transmission Command[:Parameters]	Standby	Transmission Command[:Parameters]	Reply Command[:Parameters]	Standby		
Others	USB media player Skip to the next playback file	UMP:NXT	Not avail	-	-	Not avail	-	Play next content Available using USB media player
	USB media player Skip to the previous playback file	UMP:PRE	Not avail	-	-	Not avail	-	Play previous content Available using USB media player
	USB media player Playback again from top of the file	UMP:RPY	Not avail	-	-	Not avail	-	Play top of the content Available using USB media player
	Inquiry about Signal Status of input signal	-	-	QST:SGS	QST:SGS*	Not avail	0 / 1 / 2	Signal Status information 0 : Valid signal 1 : No signal 2 : Unsupported signal
	Inquiry about Signal Frequency of input signal	-	-	QFR	QFR:H***.** V***.**	Avail	000.00 ~ 999.99, 000.00 ~ 999.99	Horizontal frequency Vertical frequency Displayed until the decimal point second place.
	Inquiry about Signal Frequency of input signal (Screen type : Multi input display - 4 input Display)	-	-	QFR	QFR: H***.** V***.** H***.** V***.** H***.** V***.** H***.** V***.**	Not avail	000.00 ~ 999.99 000.00 ~ 999.99 000.00 ~ 999.99 000.00 ~ 999.99 000.00 ~ 999.99 000.00 ~ 999.99 000.00 ~ 999.99 000.00 ~ 999.99	Input(Upper/Left) : H:Horizontal frequency V:Vertical frequency Input(Upper/Right) : H:Horizontal frequency V:Vertical frequency Input(Lower/Left) : H:Horizontal frequency V:Vertical frequency Input(Lower/Right) : H:Horizontal frequency V:Vertical frequency Displayed until the decimal point second place.
	Inquiry about Signal Frequency of input signal (Screen type : Multi input display - Picture in picture)	-	-	QFR	QFR: H***.** V***.** H***.** V***.**	Not avail	000.00 ~ 999.99 000.00 ~ 999.99 000.00 ~ 999.99 000.00 ~ 999.99	Input(Main) : H:Horizontal frequency V:Vertical frequency Input(Sub) : H:Horizontal frequency V:Vertical frequency Displayed until the decimal point second place.
	Inquiry about Signal Frequency of input signal (Screen type : Multi input display - Picture by picture)	-	-	QFR	QFR: H***.** V***.** H***.** V***.**	Not avail	000.00 ~ 999.99 000.00 ~ 999.99 000.00 ~ 999.99 000.00 ~ 999.99	Input(Upper)/Input(Left) : H:Horizontal frequency V:Vertical frequency Input(Lower)/Input(Right) : H:Horizontal frequency V:Vertical frequency Displayed until the decimal point second place.
	Inquiry about Signal Format of input signal	-	-	QSF	QSF:*****	Avail	(MAX 20 Characters)	Signal format information
	Inquiry about Signal Format of input signal (Screen type : Multi input display - 4 input Display)	-	-	QSF	QSF: A***** B***** C***** D*****	Not avail	(example) A***** : A-1080/60p----- B***** : B-1080/60p----- C***** : C-1080/60p----- D***** : D-1080/60p-----	Signal format information A : Input(Upper/Left) B : Input(Upper/Right) C : Input(Lower/Left) D : Input(Lower/Right)
	Inquiry about Signal Format of input signal (Screen type : Multi input display - Picture in picture)	-	-	QSF	QSF: A***** B*****	Not avail	(example) A***** : A-1080/60p----- B***** : B-1080/60p-----	Signal format information A : Input(Main) B : Input(Sub)
	Inquiry about Signal Format of input signal (Screen type : Multi input display - Picture by picture)	-	-	QSF	QSF: A***** B*****	Not avail	(example) A***** : A-1080/60p----- B***** : B-1080/60p-----	Signal format information A : Input(Upper)/Input(Left) B : Input(Lower)/Input(Right)
	Inquiry about HDCP status	-	-	QST:DCP	QST:DCP**	Not avail	PRT / NON / ---	Protected / None / No signal
	Auto Command Send Setting	RCM:* *	Not avail	-	-	-	0 / 1 0 / 1 (1~2 / Number of parameters is 1 to 2.)	OFF / ON --- QSS (QSS command) OFF / ON --- QSS:STSERR (QSS:STSERR)
	Inquiry about Model Name	-	-	QMN	QMN: ** * **	Avail	65 / 75 U 19	Inch size UHD model Product of 2019
	Inquiry about Model	-	-	QID	QID: ** *** *	Avail	65 / 75 BQ1 J	Inch size model market
Software Version Main MCU	-	-	QRV	QRV: * *** BQ1	Avail	*Example 1.0000 BQ1	Version model	

TYPE	Function	Control Command		Inquiry Command			Range and kind of parameter Call-back	Explanation
		Transmission Command[:Parameters]	Standby	Transmission Command[:Parameters]	Reply Command[:Parameters]	Standby		
o t h e r s	Software Version Sub MCU	-	-	QRV:STB	QRV:STB**.**	Avail	*Example 01.00	Version
	Software Version FE	-	-	QRV:FRE	QRV:FRE * **	Not avail	*Example 0.203	Version
	Software Version EEPROM	-	-	QRV:EEP	QRV:EEP**.**	Avail	*Example 01.00	Version
	Serial number	-	-	QSN	QSN:*****	Avail	(ASCII 9~15 / 9 to 15 figures of the ASCII characters)	(Alphanumeric character)(capital letter of the alphabet)(Blank)'-(0x30-0x39,0x41-0x5a,0x20,0x2d)
	MAC Address	-	-	QMA	QMA:*****	Not Avail	0~9, A~F 12 figures	MAC Address
	LAN data Cloning - Write protect	LCL:WRP*	Not Avail	QCL:WRP	QCL:WRP*	Not Avail	0 / 1	OFF / ON
	SOS History	-	-	QSS	QSS:**. **. **. **. **. ** **	Avail	00~FF. 00~FF. 00~FF. 00~FF. 00~FF. 00~FF. 00~FF.	Number of times First time SOS classification 2nd SOS classification 3n time SOS classification 3n+1st SOS classification 3n+2nd SOS classification * In the 10th time, it is arranged as follows. First time SOS classification 2nd SOS classification 9th SOS classification 10th SOS classification
	Inquiry about SOS Status	-	-	QSS:STS	QSS:STS***	Avail	NON / ERR / EXT	NON : no SOS history ERR : SOS generating EXT : SOS history exists

<When [LAN control protocol] is set to [Protocol 2]>

・ When the WEB control administrator privileges password has been set (Protect mode)

Connection method

1. Obtain the display's IP address and the port number (Default is 1024), and request connection to the display.
2. The display responds.

Data part	Space	Mode	Space	Random number part	Last terminal symbol
['NCONTROL'] (ASCII character string)	f j	f 1	f j	['zzzzzzz'] (ASCII code hex number)	(CR)
8bytes	1byte	1byte	1byte	8bytes	1byte

3. Hash the following data with the MD5 algorithm, and generate a 32-byte hash value.

['xxxxxx:yyyyy:zzzzzzz']
 xxxxxx : WEB control administrator privileges user name
 yyyyyy : Above administrator privileges user password
 zzzzzzzz : 8-byte random number obtained in step 2

Command transmission method

Transmit in the following command format.

Transmitted data

Header	Data part	Last terminal symbol
f 0j	f 0j	Control command (ASCII character string)
0x30	0x30	0x0d
32bytes	1byte	1byte

Received data

Header	Data part	Last terminal symbol
f 0j	f 0j	Control command (ASCII character string)
0x30	0x30	0x0d
1byte	1byte	1byte

・ When the WEB control administrator privileges password has not been set (Non protect mode)

Connection method

1. Obtain the display's IP address and the port number (Default is 1024), and request connection to the display.
2. The display responds.

Data part	Space	Mode	Last terminal symbol
['NCONTROL'] (ASCII character string)	f j	f 0j	(CR)
8bytes	1byte	1byte	1byte

Command transmission method

Transmit in the following command format.

Transmitted data

Header	Data part	Last terminal symbol
f 0j	f 0j	Control command (ASCII character string)
0x30	0x30	0x0d
1byte	1byte	1byte

Received data

Header	Data part	Last terminal symbol
f 0j	f 0j	Control command (ASCII character string)
0x30	0x30	0x0d
1byte	1byte	1byte

(Note)

When setting to [Protocol 1], the response in the case that sent the inquiry command is omitted the first four characters of command.

Example:

	Control Command		Inquiry Command	
	Transmission Command	Reply Command	Transmission Command	Reply Command
Protocol1	IMS:HM1	IMS	QM1	QM1:HM1
	VPC:PIC100	VPC	QPC:P1C	QPC:P1C100
Protocol2	IMS:HM1	IMS	QM1	HM1
	VPC:PIC100	VPC	QPC:P1C	P1C100

For more details of the control via LAN, please obtain from the following web site.
<https://panasonic.net/cns/prodisplays/>

<「LAN control protocol」の設定が「Protocol2」の場合>

・ WEB制御アドミニストレータ権限パスワード設定時（プロテクトモード）

接続方法

1. ディスプレイのIPアドレスとポート番号を取得してディスプレイへ接続を要求してください。
2. ディスプレイからの応答があります。

データ部	空白	モード	空白	乱数部	終端記号
['NCONTROL'] (ASCII文字列)	0x20	0x31	0x20	['zzzzzzzz'] (ASCIIコード16進数)	(CR)
8バイト	1バイト	1バイト	1バイト	8バイト	1バイト

3. MD5アルゴリズムを用いて、以下のデータから32バイトのハッシュ値を生成してください。

['xxxxxx:yyyyy:zzzzzzz']
 xxxxxx : WEB 制御のアドミニストレータ権限ユーザー名
 yyyyyy : 上記アドミニストレータ権限ユーザーのパスワード
 zzzzzzzz : 手順2で取得した8バイトの乱数

コマンド送信方法

以下のコマンド形式で送信してください。

送信データ

ヘッダー	データ部	終端記号
f 0j	f 0j	制御コマンド (ASCII文字列)
0x30	0x30	0x0d
32バイト	1バイト	1バイト

受信データ

ヘッダー	データ部	終端記号
f 0j	f 0j	制御コマンド (ASCII文字列)
0x30	0x30	0x0d
1バイト	1バイト	1バイト

・ WEB制御アドミニストレータ権限パスワード非設定時（非プロテクトモード）

接続方法

1. ディスプレイのIPアドレスとポート番号を取得してディスプレイへ接続を要求してください。
2. ディスプレイからの応答があります。

データ部	空白	モード	終端記号
['NCONTROL'] (ASCII文字列)	0x20	0x30	0x0d
8バイト	1バイト	1バイト	1バイト

コマンド送信方法

以下のコマンド形式で送信してください。

送信データ

ヘッダー	データ部	終端記号
f 0j	f 0j	制御コマンド (ASCII文字列)
0x30	0x30	0x0d
1バイト	1バイト	1バイト

受信データ

ヘッダー	データ部	終端記号
f 0j	f 0j	制御コマンド (ASCII文字列)
0x30	0x30	0x0d
1バイト	1バイト	1バイト

(お知らせ)

「Protocol2」で、問い合わせコマンドを送信した場合の応答は、コマンドの先頭4文字を省略したものを返信します。

例：

	制御コマンド		問い合わせコマンド	
	送信コマンド	応答	送信コマンド	応答
Protocol1	IMS:HM1	IMS	QM1	QM1:HM1
	VPC:PIC100	VPC	QPC:P1C	QPC:P1C100
Protocol2	IMS:HM1	IMS	QM1	HM1
	VPC:PIC100	VPC	QPC:P1C	P1C100

LAN経由制御に関するより詳細な説明は、以下のサポートサイトより入手してください。
 業務用ディスプレイ【まかせなサイト】 <https://panasonic.biz/cns/prodisplays/>