

RS232C/LAN command list
MODEL : Full HD LCD Display TH-42/49/55AF1

2017/05/26
 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	PCN	Avail	-	-	-	-	-	
	Power OFF	POF	-	-	-	-	-	-	
	Power Status	-	-	QPW	QPW:*	-	Avail	0 / 1	0 : Standby (Off) 1 : Power ON (On)
	Input Change	IMS (****)	Not avail	QMI	QMI:***	Not avail	Control:(Toggle) HM1 / HM2 / DV1 / PC1 / VD1 / UD1 / OP1 Inquiry: HM1 / HM2 / DV1 / PC1 / VD1 / UD1 / OP1		HM1 : HDMI1 HM2 : HDMI2 DV1 : DVI-D PC1 : PC VD1 : VIDEO UD1 : USB Display OP1 : OpenPort PLATFORM
	Audio Volume	AVL:***	Not avail	-	-	-	000 - 100		Volume value : 0 - 100
	Volume Up	AUJ	Not avail	-	-	-	-		
	Volume Down	AUD	Not avail	-	-	-	-		
	Current Audio Volume	-	-	QAV	QAV:***	Not avail	000 - 100		Volume value : 0 - 100
	Audio Mute	AMT (*)	Not avail	QAM	QAM:*	Not avail	Control:(Toggle) 0 / 1		Toggle (Audio mute Off) / (Audio mute On)
	Video Mute	VMT (*)	Not avail	QVM	QVM:*	Not avail	Control:(Toggle) 0 / 1		Toggle (Video mute Off) / (Video mute On)
	Aspect Change	DAM:****	Not avail	QAS	QAS:****	Not avail	FULL / NORM / ZOOM / ZOM2		FULL / NORMAL / 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 DCM : DICOM
Backlight		VPC:BLT***	Not avail	QPC:BLT	QPC:BLT***	Not avail	000 - 100 DEF		0 - 100 DEF:SET SHIPPING VALUE Available when Power save is Off
Contrast		VPC:PIC***	Not avail	QPC:PIC	QPC:PIC***	Not avail	000 - 100 DEF		0 - 100 DEF:SET SHIPPING VALUE
Brightness		VPC:BLK***	Not avail	QPC:BLK	QPC:BLK***	Not avail	000 - 100 DEF		0 - 100 DEF:SET SHIPPING VALUE
Color		VPC:COL***	Not avail	QPC:COL	QPC:COL***	Not 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***	Not 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 / DC		2.0 / 2.2 / 2.4 / 2.6 / DICOM Not avail : when Color Temperature is NTV(Native) DC : Inquiry only , when Picture Mode is DCM(DICOM).
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 Available 6500K(065) / 9300K(093), when Picture Mode is DCM(DICOM) .
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:BGJ****	Not avail	QWB:BGJ	QWB:BGJ****	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
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:BSB****	Not avail	QWB:BSB	QWB:BSB****	Not avail	-127 - 0000 - 0128		-127 - 128 Available when Color Temperature is USER1 or USER2
6-segment color management		VWB:CMF*	Not avail	QWB:CMF*	QWB:CMF*	Not avail	0 / 1		0 : off / 1 : on
6-segment color management select color		VWB:CML* **** ****	Not avail	QWB:CML*	QWB:CML* **** ****	Not avail	R / Y / G / C / B / M -511 ~ 0000 ~ 0511 -127 ~ 0000 ~ 0127 -127 ~ 0000 ~ 0127		Red / Yellow / Green / Cyan / Blue / Magenta TINT : -511 ~ 511 SATURATION : -127 ~ 127 VALUE : -127 ~ 127 Available when 6-segment color management is on
6-segment color management reset		VWB:CMR	Not avail	-	-	Not avail	-		Available when 6-segment color management is on
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
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
Memory delete		VPF:DEL**	Not avail	-	-	Not avail	01 - 06		Memory No.1 - Memory No.6
Memory load		VPF:LOD**	Not avail	-	-	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	-	-	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	
Output Select	AAC:OUT***	Not avail	QAC:OUT	QAC:OUT***	Not avail	SPEAK / LNO		SPEAKERS / 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 SPEAKERS	
Bass	AAC:BAS***	Not avail	QAC:BAS	QAC:BAS***	Not avail	-20 - 000 - +20(020)		-20 - 20 Available when Output Select is SPEAKERS	
Treble	AAC:TRE***	Not avail	QAC:TRE	QAC:TRE***	Not avail	-20 - 000 - +20(020)		-20 - 20 Available when Output Select is SPEAKERS	
Balance	AAC:BAL***	Not avail	QAC:BAL	QAC:BAL***	Not avail	-20 - 000 - +20(020)		-20 - 20 Available when Output Select is SPEAKERS	
Surround	AAC:SUR***	Not avail	QAC:SUR	QAC:SUR***	Not avail	MON / OFF		Available when Output Select is SPEAKERS ON / OFF Available when Output Select is SPEAKERS	

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		Transmission Command[Parameters]	Standby	Transmission Command[Parameters]	Reply Command[Parameters]		
Position	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
	1:1 Pixel Mode	DGE:DBD*	Not avail	QGE:DBD	QGE:DBD*	Not avail	0 / 1 OFF / ON
	Overscan	DGE:OVS*	Not avail	QGE:OVS	QGE:OVS*	Not avail	0 / 1 OFF / ON
	Pos./Size Lump Setting	DGE:PSZ****	Not avail	QGE:PSZ	QGE:PSZ****	Not avail	-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 : Execution start Inquiry: OK : result OK NG : result NG OF : Un-performing or when not effective NW : adjusting
	Wobbling	OSP:WOB*	Not avail	QSP:WOB	QSP:WOB*	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 ※ For control command, the period from the OPF restart until the initial communication completion shall be void. (Respond ER401)
	Power Management Mode	SSU:ECS*	Not avail	QSU:ECS	QSU:ECS*	Not avail	0 / 1 CUSTOM / ON
	No Signal Power Off	SSU:AGP*	Not avail	QSU:AGP	QSU:AGP*	Not avail	0 / 1 OFF / ON
PC Power Management	SSU:DPM*	Not avail	QSU:DPM	QSU:DPM*	Not avail	0 / 1 OFF / ON	
DVI-D1 Power Management	SSU:D1V*	Not avail	QSU:D1V	QSU:D1V*	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	
Power Save	SSU:ECO*	Not avail	QSU:ECO	QSU:ECO*	Not avail	0 / 1 OFF / ON	
OpenPort PLATFORM standby	OPF:STB*	Not avail	QPF:STB	QPF:STB*	Not avail	0 / 1 OFF / ON	
Display Orientation	SSU:DOR*	Not avail	QSU:DOR	QSU:DOR*	Not avail	0 / 1 Landscape / Portrait ※ For control command, the period from the OPF restart until the initial communication completion shall be void. (Respond ER401) When receiving a control command, restart the OPF.	
Menu Position	SSU:OPS*	Not avail	QSU:OPS	QSU:OPS*	Not avail	1 / 2 / 3 1:Left(Landscape) / Uppper(Portrait) 2:Center 3:Right(Landscape) / Lower(Portrait)	
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)	
Menu Transparency	SSU:MTL***	Not avail	QSU:MTL	QSU:MTL***	Not avail	000 ~ 100 Transmissivity of a menu 0 - 100% (10% unit)	
Component/RGB-IN Select	SSU:CMR***	Not avail	QSU:CMR	QSU:CMR***	Not avail	YBR / RGB YBR Signal / RGB Signal Available when PC1/YP1 is selected.	
YUV/RGB-IN Select	SSU:DYR***	Not avail	QSU:DYR	QSU:DYR***	Not avail	YUV / RGB YUV Signal / RGB Signal Available when HDMI1/HDMI2/DVI-D is selected.	
3D Y/C Filter	SSG:YCS*	Not avail	QSG:YCS	QSG:YCS*	Not avail	0 / 1 OFF / ON	
Color System	SSG:COS***	Not avail	QSG:COS	QSG:COS***	Not avail	NTS / PAL / SCM / 4NT / MPA / NPA / AUT NTSC / PAL / SECAM / NTSC4.43 / PAL-M / PAL-N / AUTO	
Sync Signal Setting	SSG:SNC***	Not avail	QSG:SNC	QSG:SNC***	Not avail	HAV / GRN / HVS Only PC input Auto detection / Sync On Green / Hvsync	
Cinema Reality 3:2 Pull Down	SSG:DCR*	Not avail	QSG:DCR	QSG:DCR*	Not avail	0 / 1 OFF / ON	
XGA Mode	SSG:XGA*	Not avail	QSG:XGA	QSG:XGA*	Not avail	1 / 2 / 3 / 4 1024x768 / 1280x768 / 1366x768 / Auto	
Noise Reduction	SSG:NRS***	Not avail	QSG:NRS	QSG:NRS***	Not avail	OFF / AUTO / LOW / MID / HIGH OFF / Auto / Low / Middle / High	
MPEG Noise Reduction	SSG:MNR***	Not avail	QSG:MNR	QSG:MNR***	Not avail	OFF / LOW / MID / HIGH OFF / Low / Middle / High	
Signal Range	SSG:HRC***	Not avail	QSG:HRC	QSG:HRC***	Not avail	VID / FULL / AUT Video / FULL / Auto	
Input Level	VWB:ILV***	Not avail	QWB:ILV	QWB:ILV***	Not avail	-16 ~ 000 - +16(016) -16 ~ 16	
Dynamic backlight control	SSG:DBC*	Not avail	QSG:DBC	QSG:DBC*	Not avail	0 / 1 OFF / ON	
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 ※ The period from the OPF restart until the initial communication completion shall be void. (Respond ER401)	
Standby after Screensaver	SSC:AOF***	Not avail	QSC:AOF	QSC:AOF***	Not avail	0000 ~ 2359 Time of operation(hour:minute)	
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 / SKP reset input name(Except PC) / reset input name(for PC) DVD1 / DVD2 / DVD3 / Blu-ray1 / Blu-ray2 / Blu-ray3 / CATV / VCR / STB / (Skip)	
Set Label for EACH INPUT	SSU:ILA****	Not avail	QSU:ILA***	QSU:ILA***	Not avail	+++ HMI1 / HMI2 / DV1 / PC1 / VD1 / YP1 +++ INP / DV1 / DV2 / DV3 / BD1 / BD2 / BD3 / CTV / VCR / STB / SKP Input HDMI1 / HDMI2 / DVI-D / PC / VIDEO / COMPONENT Reset Input name / DVD1 / DVD2 / DVD3 / Blu-ray1 / Blu-ray2 / Blu-ray3 / CATV / VCR / STB / (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	Function Button Settings	OSP:KGR*** OSP:KFN***	Not avail	OSP:KGR OSP:KFN	OSP:KGR*** OSP:KFN***	Not avail	INP / MEM / ACT 1-5 (ACTION & MENU) SIG / SSV / SUT / ECO / OSH / DZM / MLT (INPUT) HM1 / HM2 / DV1 / PC1 / VD1 / YP1 / UD1 / OP1 6 (ACTION & MENU) KBD (INPUT) OP1 / KBD	INPUT / MEMORY / ACTION & MENU (SHORTCUT) setup to FUNCTION KEY 1-5 (ACTION & MENU) SIG : Signal menu / SSV : Screensaver menu / SUT : Set up timer menu / ECO : Power management settings menu / OSH : AV Mute / DZM : Digital zoom / MLT : Multi display settings menu (INPUT) HM1 : HDMI1 / HM2 : HDMI2 / DV1 : DVI-D / PC1 : PC / VD1 : VIDEO / YP1 : COMPONENT / UD1 : USB OP1 : OpenPort PLATFORM	
	Function guide Settings	OSP:KFG*	Not avail	OSP:KFG	OSP:KFG*	Not avail	0 / 1	OFF / ON	
	Multi Display Setup	MDC.* MDC:EXP** ** ** *** ***	Not avail	QDC:EXP** ** ** *** ***	QDC:EXP** ** ** *** ***	Not avail	0 / 1, 01 ~ 10, 01 ~ 10, 000 ~ 100, 000 ~ 100, 01 ~ 100	OFF / ON OFF / ON OFF / ON, (Horizontal Scale) 1~10, (Vertical Scale) 1~10, (Bezel H Adjustment) 0~100 (Bezel V Adjustment) 0~100 (Location)(A1~J10)	
	TimerSetup	TIM:PRG** ** *** *** ***	Not avail	QIM:PRG** ** *** *** ***	QIM:PRG** ** *** *** ***	Not avail	01 ~ 20, 0 / 1, SUN / MON / TUE / WED / THU / FRI / SAT / EVD, PON / POF, 0000 ~ 2359, HM1 / HM2 / DV1 / PC1 / VD1 / YP1 / UD1 / OP1	Program number : 1~20, Function : OFF / ON, (*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 Action type : PON / POF, Time : hour, minute, Start-up input : HDMI1 / HDMI2 / DVI-D / PC / VIDEO / COMPONENT / USB Display / OpenPort PLATFORM ※ The period from the OPF restart until the initial communication completion shall be void. (Respond ER401)	
	Day 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 ※ The period from the OPF restart until the initial communication completion shall be void. (Respond ER401)
		Present Time	-	-	QIM:NOW	QIM:NOW0****	Not avail	0000 ~ 2359	Present time (hour:minute) ※ The period from the OPF restart until the initial communication completion shall be void. (Respond ER401)
		DAY TIME	TIM:DAT**** ** ** **	Not avail	QIM:DAT ** ** **	QIM:DAT**** ** ** **	Not avail	YYYY : 2016 ~ 2037 MM : 01 ~ 12 DD : 01 ~ 31 hh : 00 ~ 23 mm : 00 ~ 59	(Year) (Month) (Day) (Hour) (Minute) format is "YYYYMMDDhhmm" ※ The period from the OPF restart until the initial communication completion shall be void. (Respond ER401)
	USB media player Setup	SUS:UMP* Resume play SUS:SSD*** Slide show duration On screen display OSP:OSD*	Not avail Not avail Not avail Not avail	QUS:UMP* QUS:RSP* QUS:SSD*** QUS:SSD*** QSP:OSD*	QUS:UMP* QUS:RSP* QUS:SSD*** QUS:SSD*** QSP:OSD*	Not avail Not avail Not avail Not avail Not avail	0 / 1 0 / 1 010 ~ 600 0 / 1 0 / 1	Disable / Enable OFF / ON 10 ~ 600 seconds (5 second unit) OFF / ON	
	O p t i o n s M e n u	Initial input level	OSP:IVL***	Not avail	GSP:IVL	GSP:IVL***	Not avail	0 / 1, 000 ~ 100	function : OFF / ON, volume : 0~100
		Maximum VOL level	OSP:MVL****	Not avail	GSP:MVL	GSP:MVL****	Not avail	0 / 1, 000 ~ 100	function : OFF / ON, volume : 0~100
Input lock		OSP:INL***	Not avail	GSP:INL	GSP:INL***	Not avail	OFF / HM1 / HM2 / DV1 / PC1 / VD1 / YP1 / UD1 / OP1	OFF / HDMI1 / HDMI2 / DVI-D / PC / VIDEO / COMPONENT / USB Display / OpenPort PLATFORM	
Button lock		OSP:BTL***	Not avail	GSP:BTL	GSP:BTL***	Not avail	OFF / MEN / ALL	OFF / MENU/ENTER / ON	
Controller User level		OSP:RCM*	Not avail	GSP:RCM	GSP:RCM*	Not avail	0 / 1 / 2 / 3	OFF / User1 / User2 / User3	
PC auto setting		OSP:PAS*	Not avail	GSP:PAS*	GSP:PAS*	Not avail	0 / 1	OFF / ON	
Offtimer function		OSP:OFT*	Not avail	GSP:OFT*	GSP:OFT*	Not avail	0 / 1	OFF / ON	
Initial Startup		OSP:ISU***	Not avail	GSP:ISU	GSP:ISU***	Not avail	LST PON STB	LST : Last memory(return to a front state) PON : ON STB : STANDBY	
Startup Logo		OSP:LOG*	Not avail	GSP:LOG	GSP:LOG*	Not avail	0 / 1	OFF / ON	
Display ID		QID:QID	Not avail	QID:QID	QID:QID**	Not avail	000~100	Display ID	
Serial ID function		SID:SID*	Not avail	QID:SID	QID:SID**	Not avail	0 / 1	OFF / ON	
Serial ID Setup		SIF:SID*	Not avail	QIF:SID	QIF:SID**	Not avail	0 / 1	OFF / ON	
(Serial ID function & Display ID Setup)		***	Not avail	***	***	Not avail	000~100	Display ID	
Serial response (ID all)		SCT:RIA*	Not avail	QCT:RIA	QCT:RIA**	Not avail	0 / 1	OFF / ON	
Serial display chain position		SOT:DCS***	Not avail	QCT:DCP	QCT:DCP***	Not avail	TOP / DEF / END	TOP / DEF / END	
Power ON Screen Delay	OSP:POD**	Not avail	GSP:POD	GSP:POD**	Not avail	AT / 00 ~ 30	AT : Auto 0~30 : 0~30 seconds		
Clck Display	OSP:CLK*	Not avail	GSP:CLK	GSP:CLK*	Not avail	0 / 1	OFF / ON		
Power on messageNo activity power of	OSP:NAP**	Not avail	GSP:NAP	GSP:NAP**	Not avail	0 / 1	OFF / ON		
Power on messagePower management	OSP:PMM**	Not avail	GSP:PMM	GSP:PMM**	Not avail	0 / 1	OFF / ON		
Input search	ISH:FNC***	Not avail	QSH:FNC	QSH:FNC***	Not avail	OFF / ALL / PRI	OFF / ALL inputs / Custom		
Input search	1st search input	ISH:PRI***	Not avail	QSH:PRI	QSH:PRI***	Not avail	NON / HM1 / HM2 / DV1 / PC1 / YP1 / VD1 / UD1	(none) / HDMI1 / HDMI2 / DVI-D / PC / VIDEO / COMPONENT / USB	
	2nd search input	ISH:SCI***	Not avail	QSH:SCI	QSH:SCI***	Not avail	NON / HM1 / HM2 / DV1 / PC1 / YP1 / VD1 / UD1	(none) / HDMI1 / HDMI2 / DVI-D / PC / VIDEO / COMPONENT / USB	
Fallover / Failback	SBI:OFF (NON NON *)	Not avail	QBI	QBI:OFF (NON NON *)	Not avail	0	0: Disable (Auto switch back mode)		

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		Transmission Command[Parameters]	Standby	Transmission Command[Parameters]	Reply Command[Parameters]	Standby		
O t h e r s	SOS History	-	-	QSS	QSS:** ** ** ** ** **	Avail	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 8th 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

Protocol

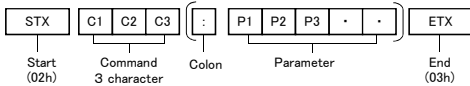
Communication parameters

Signal level	RS-232C compliant
Synchronization method	Asynchronous
Baudrate	9600 bps
Parity	None
Character length	8 bits
Stop bit	1 bit
Flow control	None

type of cable : straight cable

Basic format for control data:

The transmission of control data starts with a STX signal, followed by the command, the parameters, and lastly an ETX signal in that order. If there are no parameters, the colon ":" does not need to be sent.



00	10	20	30	40	50	60	70
00	DE	0	@	P			
01	SH	D1	1	A	O	a	q
02	SX	D2	*	2	B	R	b
03	EX	D3	#	3	C	S	c
04	ET	D4	\$	4	D	T	d
05	EO	NK	%	5	E	U	u
06	AK	SN	&	6	F	V	v
07	BL	EB	'	7	G	W	w
08	BS	CN	(	8	H	X	x
09	HT	EM	)	9	I	Y	y
0A	LF	SB	*	:	J	Z	z
0B	HM	EC	+	:	K	[[
0C	CL	→	.	<	L]]
0D	CR	←	=	M]]]
0E	SO	↑	.	>	N	^	^
0F	SI	↓	?	O	^	^	^

(Example)

Power on

Character STX P O N ETX

Binary

02 50 4F 4E 03

Picture+85

Character STX V P C : P I C O 8 5 ETX

Binary

02 56 50 43 3A 50 49 43 30 38 35 03

Notes:

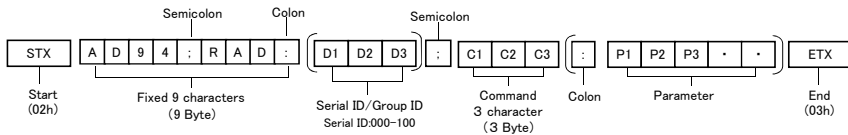
- If an incorrect command is sent, this unit will reply an "ER401" command to the computer.
- If customer send multiple commands, be sure to wait for the response for the first command to come before sending the next command.
- The length of the Parameters are different for each command.
- With the power off (stand-by mode), this display responds to "PON"/"QPW" command only.

When sending command with Display ID

- When sending command with Display ID, set [Options] - [Serial ID function] to "on".
- If Display ID is "0", any ID number in command is acceptable to control.
- If serial ID in command is "000", it is acceptable regardless of Display ID of target display.
- If a command is sent with serial ID, a response will be sent to the computer only in the following cases.
 - When [display ID and command ID] is not 0: the display ID needs to match the serial ID.
 - When command ID is 0: it needs to set [Options] - [Serial response (ID all)] to "on".
 - When display ID is 0: it needs to set [Options] - [Serial response (ID all)] to "on", and the command ID is "0".

How to send to add "Serial ID"

Serial ID Format	<STX>AD94:RAD:<NUM1><NUM2><NUM3>:****<ETX> (Serial Control Only) (ex.) Serial ID = 1 <STX>AD94:RAD:001:PON<ETX>
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- When using daisy chaining, set [Options] - [Serial daisy chain position] correctly.
- When using daisy chaining by serial terminal, use a straight cable which pin No. ② through ⑧ are hard wired.

通信規約

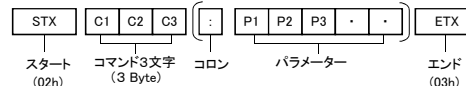
通信条件

信号レベル	RS-232C準拠
同期方式	歩同期 (非同期)
ボーレート	9600 bps
パリティなし	なし
キャラクター長	8 ビット
ストップビット	1 ビット
フロー制御	なし

ケーブル種 : ストレート

基本フォーマット:

データは、「STX」、「コマンド」、「パラメーター」、「ETX」の順に送信してください。パラメーターを必要としないコマンドを送信する場合は、コロン (:) を付け不要とさせていただきます。



00	10	20	30	40	50	60	70
00	DE	0	@	P			
01	SH	D1	1	A	O	a	q
02	SX	D2	*	2	B	R	b
03	EX	D3	#	3	C	S	c
04	ET	D4	\$	4	D	T	d
05	EO	NK	%	5	E	U	u
06	AK	SN	&	6	F	V	v
07	BL	EB	'	7	G	W	w
08	BS	CN	(	8	H	X	x
09	HT	EM	)	9	I	Y	y
0A	LF	SB	*	:	J	Z	z
0B	HM	EC	+	:	K	[[
0C	CL	→	.	<	L]]
0D	CR	←	=	M]]]
0E	SO	↑	.	>	N	^	^
0F	SI	↓	?	O	^	^	^

(コマンド例)

電源オンコマンド

キャラクタ STX P O N ETX

バイナリ

02 50 4F 4E 03

ピクチャー+85設定

キャラクタ STX V P C : P I C O 8 5 ETX

バイナリ

02 56 50 43 3A 50 49 43 30 38 35 03

その他

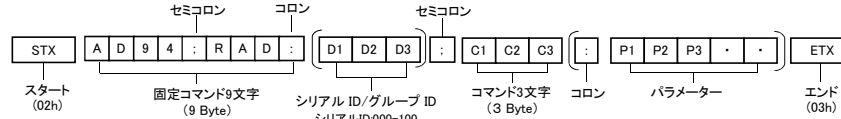
- 間違ったコマンドを受信すると、「ER401」という応答コマンドを返信します。
- 複数コマンドで制御する場合は、送信側が本機の応答を受け取ってから、次のコマンドを送信することを想定しています。
- パラメータの長さはコマンドごとに異なります。
- 電源「スタンバイ」状態 (リモコンで電源「切」) 中は「PON」「QPW」コマンド以外の動作は保証されません。

ID付コマンドで制御する場合>

- シリアルID付で制御する場合は、「Options」メニューの「Serial ID function (シリアルID制御)」をオンに設定してください。
- ディスプレイIDが0の場合、コマンドに付与するIDはどのような数字でもコントロールします。
- 送信するコマンドのシリアルIDを"000"とすると、ディスプレイIDに関係なく制御します。(Serial response (ID all) 機能)
- ID付コマンドを送信した場合、以下の時のみコンピューターへの応答を返します。
 - ディスプレイID、コマンドID が0以外の場合: ディスプレイIDとコマンドID が一致した時
 - コマンドIDが0の場合: 「Options」メニューの「Serial response (ID all) (シリアル応答)」がオンの時
 - ディスプレイIDが0の場合: コマンドIDが0 かつ 「Options」メニューの「Serial response (ID all) (シリアル応答)」がオンの時

ID付コマンドフォーマット

Serial ID Format	<STX>AD94:RAD:<NUM1><NUM2><NUM3>:****<ETX> (シリアル制御のみ) (例) Serial ID = 1の場合 <STX>AD94:RAD:001:PON<ETX>
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- ディジーチェーンでシリアル制御を行う場合は「Options」メニューの「Serial daisy chain position (シリアルディジーチェーン接続位置)」を正しく設定してください。
- シリアル端子でディジーチェーン接続する場合は、ピンNo. ②~⑧が接続されているストレートケーブルを使用してください。

シリアル入力端子の信号名:

