

制御コマンド一覧表/ RS232C, LAN Commad list

対象機種: LED 液晶ディスプレイ TH-70/80LF50J

Model: LED LCD Display TH-70/80LF50

2013/8/8
Panasonic Corporation

TYPE	Function	Control Command			Inquiry Command			Parameters/Call back	Note
		Command	Reply	Standby condition	Command	Reply	Standby		
Basic Control	電源ON / Power ON	PON	PON	Avail					
	電源OFF / Power OFF	POF	POF	-					
	電源状態 / Power Status				QPW	QPW:*	Avail	0 / 1	Standby / Power on
	入力切換え / Input Change	IMS:***(**)	IMS	Not avail	QMI	QMI:***(**)	Not avail	Control : AV1/AV2/PC1/DV1/HM1/SL1(/S1A/S1B)/ AV2YBR/AV2RGB/DV1YUV/DVIRGB (SL1YUV/SL1RGB/S1AYUV/S1ARGB/S1BYUV/S1BRGB /) Inquiry : AV1/AV2YBR/AV2RGB/PC1/DV1YUV/DV1RGB/HM1/SL 1(SL1YUV/SL1RGB/S1A/S1B/S1AYUV/S1ARGB/S1BYU	
	音量値の設定 / Audio Volume	AVL:***	AVL	Not avail				000 - 100	Volume value
	音量UP / Volume Up	AUU	AUU	Not avail					
	音量DOWN / Volume Down	AUD	AUD	Not avail					
	音量設定値 / Current Audio Volume				QAV	QAV:***	Not avail	000 - 100	
	音声ミュート / Audio Mute	AMT:*	AMT	Not avail	QAM	QAM:*	Not avail	0 / 1	0:off / 1:ON
映像ミュート / Video Mute	VMT:*	VMT	Not avail	QVM	QVM:*	Not avail	0 / 1	0:off / 1:ON	
アスペクト比切換え / Aspect Change	DAM:****	DAM	Not avail	QAS	QAS:****	Not avail	FULL / NORM / ZOOM / ZOM2	full / normal / zoom1 / zoom2	
Picture Adjustment	映像メニュー / Picture Mode	VPC:MEN***	VPC	Not avail	QPC:MEN	QPC:MEN***	Not avail	STD / DYN / CNM	standard / dynamic / cinema
	バックライト / Backlight	VPC:BLT***	VPC	Not avail	QPC:BLT	QPC:BLT***	Not avail	000 - 100	-
	ピクチャー / Picture (Contrast)	VPC:PIC***	VPC	Not avail	QPC:PIC	QPC:PIC***	Not avail	000 - 100	-
	黒レベル / Black Level (Brightness)	VPC:BLK***	VPC	Not avail	QPC:BLK	QPC:BLK***	Not avail	000 - 100	-
	色の濃さ / Color	VPC:COL***	VPC	Not avail	QPC:COL	QPC:COL***	Not avail	000 - 100	AV1 only
	色あい / Tint	VPC:TIN***	VPC	Not avail	QPC:TIN	QPC:TIN***	Not avail	000 - 100	AV1 only
	シャープネス / Sharpness	VPC:SHP***	VPC	Not avail	QPC:SHP	QPC:SHP***	Not avail	000 - 100	-
	色温度 / Color Temperature	VPC:TMP***	VPC	Not avail	QPC:TMP	QPC:TMP***	Not avail	WRM / MID / COL	Low / Mid / High
Picture - Advanced settings	入力レベル / Input Level	VWB:ILV***	VMB	Not avail	QWB:ILV	QWB:ILV***	Not avail	-16 to 000 to +16(016)	-
	ガンマ / Gamma	VWB:GMM**	VMB	Not avail	QWB:GMM	QWB:GMM**	Not avail	20 / 22 / 26 / SC	2.0 / 2.2 / 2.6 / S Curve
	明るさ補正 / AGC(Auto Gain Control)	VWB:AGC*	VMB	Not avail	QWB:AGC	QWB:AGC*	Not avail	0 / 1	OFF / ON
	Rドライブ / Red Drive	VWB:RDR***	VMB	Not avail	QWB:RDR	QWB:RDR***	Not avail	000 to 100	-
	Gドライブ / Green Drive	VWB:GDR***	VMB	Not avail	QWB:GDR	QWB:GDR***	Not avail	000 to 100	-
	Bドライブ / Blue Drive	VWB:BDR***	VMB	Not avail	QWB:BDR	QWB:BDR***	Not avail	000 to 100	-

TYPE	Function	Control Command			Inquiry Command			Parameters/Call back	Note
		Command	Reply	Standby condition	Command	Reply	Standby		
	Rカットオフ / Red Cut off	VWB:RCT***	VMB	Not avail	QWB:RCT	QWB:RCT***	Not avail	000 to 100	-
	Gカットオフ / Green Cut off	VWB:GCT***	VMB	Not avail	QWB:GCT	QWB:GCT***	Not avail	000 to 100	-
	Bカットオフ / Blue Cut off	VWB:BCT***	VMB	Not avail	QWB:BCT	QWB:BCT***	Not avail	000 to 100	-
Sound Adjustment	音声メニュー / Sound Mode	AAC:MEN***	AAC	Not avail	QAC:MEN	QAC:MEN:***	Not avail	STD(AUT) / DYN / CLR	Srandard /Dynamic / Clear
	バス / Bass	AAC:BAS***	AAC	Not avail	QAC:BAS	QAC:BAS:***	Not avail	-15 to 000 to +15(015)	-
	トレブル / Treble	AAC:TRE***	AAC	Not avail	QAC:TRE	QAC:TRE:***	Not avail	-15 to 000 to +15(015)	-
	バランス / Balance	AAC:BAL***	AAC	Not avail	QAC:BAL	QAC:BAL:***	Not avail	-15 to 000 to +15(015)	-
	サラウンド / Surround	AAC:SUR***	AAC	Not avail	QAC:SUR	QAC:SUR:***	Not avail	MON / OFF	ON / OFF
Position/Size Adjustment	水平位置 / Horizontal Position	DGE:HPO****	DGE	Not avail	QGE:HPO	QGE:HPO****	Not avail	-124 to 0000 to +124(0124)	-
	水平サイズ / Horizontal Size	DGE:HSZ****	DGE	Not avail	QGE:HSZ	QGE:HSZ****	Not avail	-124 to 0000 to +124(0124)	-
	垂直位置 / Vertical Position	DGE:VPO****	DGE	Not avail	QGE:VPO	QGE:VPO****	Not avail	-124 to 0000 to +124(0124)	-
	垂直サイズ / Vertical Size	DGE:VSZ****	DGE	Not avail	QGE:VSZ	QGE:VSZ****	Not avail	-124 to 0000 to +124(0124)	-
	クロック位相 / Clock Phase	DGE:CLK***	DGE	Not avail	QGE:CLK	QGE:CLK***	Not avail	00 to 63	-
	ドットクロック / Dot Clock	DGE:DCL***	DGE	Not avail	QGE:DCL	QGE:DCL***	Not avail	00 to 63	-
	1 : 1 ピクセルモード / 1:1 Pixel Mode	DGE:DBD*	DGE	Not avail	QGE:DBD	QGE:DBD*	Not avail	0 / 1	OFF / ON
	オーバースキャン / Overscan	DGE:OVS*	DGE	Not avail	QGE:OVS	QGE:OVS*	Not avail	0 / 1	OFF / ON
	位置サイズの一括設定 / Pos./Size Lump Setting	DGE:PSZ**** **** ****	DGE	Not avail	QGE:PSZ	QGE:PSZ**** **** ****	Not avail	-124 to 0000 to +124(0124), -124 to 0000 to +124(0124), -124 to 0000 to +124(0124), -124 to 0000 to +124(0124)	
	自動位置補正 / Auto Setup	DGE:ASU *	DGE	Not avail	QGE:ASU	QGE:ASU **	Not avail	Control : 1 Inquiry : OK / NG / OF / NW	Control : execute Inquiry : Normal End / Abnormal End / Invalid or unfinished / Runing
	Set up	画面位置移動 / Wobbling	OSP:WOB*	OSP	Not avail	QSP:WOB	QSP:WOB*	Not avail	0 / 1
コンポーネント/RGB信号切換 / Component/RGB-IN Select		SSU:CMP***	SSU	Not avail	QSU:CMP	QSU:CMP***	Not avail	YBR/RGB	for AV2
DVI YUV/RGB信号切換 / DVI YUV/RGB-IN Select		SSU:DYR***	SSU	Not avail	QSU:DYR	QSU:DYR***	Not avail	YUV/RGB	YUV signal/RGB signal
無操作自動オフ / No Activity Power Off		SSU:NAO*	SSU	Not avail	QSU:NAO	QSU:NAO*	Not avail	0 / 1	OFF / ON
表示言語切換 / OSD Langurage		SSU:LNG***	SSU	Not avail	QSU:LNG	QSU:LNG***	Not avail	ENG / DEU / FRA / ITA / ESP / USA / CHA / JPN / RUS	English(UK) / German / French / Italian / Spanish / Eglish(US) / Chinese / Japanese / Russian
エコ設定 / ECO Mode Settings		SSU:ECS*	SSU	Not avail	QSU:ECS	QSU:ECS*	Not avail	0 / 1	Custom / ON
無信号自動オフ / No Signal Power Off		SSU:AOF*	SSU	Not avail	QSU:AOF	QSU:AOF*	Not avail	0 / 1	OFF / ON
PC/パワーマネージメント / PC Power Management		SSU:DPM*	SSU	Not avail	QSU:DPM	QSU:DPM*	Not avail	0 / 1	OFF / ON
DVI-Dパワーマネージメント / DVI-D Power Management		SSU:DPD*	SSU	Not avail	QSU:DPD	QSU:DPD*	Not avail	0 / 1	OFF / ON
消費電力低減設定 / Power Save		SSU:ECO*	SSU	Not avail	QSU:ECO	QSU:ECO*	Not avail	0 / 1 / 2	OFF / ON / Sensor
メニュー表示時間 / Menu Display Duration		SSU:MDT***	SSU	Not avail	QSU:MDT	QSU:MDT***	Not avail	005 to 120	5 to 120 sec (step every 5sec)

TYPE	Function	Control Command			Inquiry Command			Parameters/Call back	Note
		Command	Reply	Standby condition	Command	Reply	Standby		
	HDMI入力への設定 / Set Label for HDMI	SSU:ILAHM1***	SSU	Not avail	QSU:ILAHM1	QSU:ILAHM1***	Not avail	INP / DV1 / DV2 / DV3 / BD1 / BD2 / BD3 / CTV / VCR / STB / SKP	reset / DVD1 / DVD2 / DVD3 / Blu-ray1 / Blu-ray2 / Blu-ray3 / CATV / VCR / STB / skip
	HDMI2入力への設定 / Set Label for HDMI2	SSU:ILAHM2***	SSU	Not avail	QSU:ILAHM2	QSU:ILAHM2***	Not avail	INP / DV1 / DV2 / DV3 / BD1 / BD2 / BD3 / CTV / VCR / STB / SKP	reset / DVD1 / DVD2 / DVD3 / Blu-ray1 / Blu-ray2 / Blu-ray3 / CATV / VCR / STB / skip
	SLOT入力への設定 / Set Label for SLOT	SSU:ILASL1***	SSU	Not avail	QSU:ILASL1	QSU:ILASL1***	Not avail	INP / DV1 / DV2 / DV3 / BD1 / BD2 / BD3 / CTV / VCR / STB / SKP	reset / DVD1 / DVD2 / DVD3 / Blu-ray1 / Blu-ray2 / Blu-ray3 / CATV / VCR / STB / skip
	SLOT A入力への設定 / Set Label for SLOT A	SSU:ILAS1A***	SSU	Not avail	QSU:ILAS1A	QSU:ILAS1A***	Not avail	INP / DV1 / DV2 / DV3 / BD1 / BD2 / BD3 / CTV / VCR / STB / SKP	reset / DVD1 / DVD2 / DVD3 / Blu-ray1 / Blu-ray2 / Blu-ray3 / CATV / VCR / STB / skip
	SLOT B入力への設定 / Set Label for SLOT B	SSU:ILAS1B***	SSU	Not avail	QSU:ILAS1B	QSU:ILAS1B***	Not avail	INP / DV1 / DV2 / DV3 / BD1 / BD2 / BD3 / CTV / VCR / STB / SKP	reset / DVD1 / DVD2 / DVD3 / Blu-ray1 / Blu-ray2 / Blu-ray3 / CATV / VCR / STB / skip
Multi Display Setup	マルチ画面 / Multi Display ON/OFF	MDC:*	MDC	Not avail					
	マルチ画面設定 / Multi Display Setup	MDC:* * **	MDC	Not avail	QDC	QDC:* * **	Not avail	0 / 1, 0 to 5, 01 to 16	Multi Picture OFF / ON, Enlarge 2x2 / 3x3 / 4x4 / 2x2 frameless / 3x3 frameless / 4x4 frameless, Location A1 to D4
	マルチ画面設定(詳細) / Multi Display Setup (Ext)	MDC:EXT* * * * **	MDC	Not avail	QDC:EXT	QDC:EXT* * * * **	Not avail	0 / 1, 1 to 5, 1 to 5, 0 / 1, 01 to 25	Multi picture OFF / ON, Horizontal 1 to 5, Vertical 1 to 5, Flame setting OFF / ON, Loation (A1 to E5)
TimerSetup		TIM:PRG** * *** **** ***** ****	TIM	Not avail	QIM:PRG**	QIM:PRG** * *** **** ***** ****	Not avail	01 to 20, 0 / 1, MON / TUE / WED / THU / FRI / SAT / SUN / EVD, PON / POF, 0000 to 2359, AV1 / AV2 / PC1 / DV1 / HM1 / SL1 (/ S1A / S1B)	Program No.1 to 20, setting OFF / ON, Weekday MON / TUE / WED / THU / FRI / SAT / SUN / Every Day, PON / POF, Time(HH:MM), Power on input VIDEO / Component(RGB) / PC / DVI / HDMI1 / SLOT INPUT (/ SLOT INPUT A / SLOT INPUT B)
Present Time Setup	曜日設定 / Present Day	TIM:DAY***	TIM	Not avail	QIM:DAY	QIM:DAY***	Not avail	MON / TUE / WED / THU / FRI / SAT / SUN	MON / TUE / WED / THU / FRI / SAT / SUN
	時刻設定 / Present Time	TIM:NOW0****	TIM	Not avail	QIM:NOW	QIM:NOW****	Not avail	0000 to 2359	Current time(HH:MM)
Input Search (Auto Input Search Function when current Input has No Signal)	Input Search	ISH:FNC***	ISH	Not avail	QSH:FNC	QSH:FNC***	Not avail	OFF / ALL / PRI	OFF / All input / priority search
	Primary Input	ISH:PRI***	ISH	Not avail	QSH:PRI	QSH:PRI***	Not avail	NON / AV1 / AV2 / PC1 / DV1 / HM1 / SL1 (/ S1A / S1B)	off / VIDEO / Component(RGB) / PC / DVI / HDMI1 / SLOT INPUT (/ SLOT INPUT A / SLOT INPUT B)
	Secondary Input	ISH:SCI***	ISH	Not avail	QSH:SCI	QSH:SCI***	Not avail	NON / AV1 / AV2 / PC1 / DV1 / HM1 / SL1 (/ S1A / S1B)	off / VIDEO / Component(RGB) / PC / DVI / HDMI1 / SLOT INPUT (/ SLOT INPUT A / SLOT INPUT B)
Options Menu	On screen display	OSP:OSD*	OSP	Not avail	QSP:OSD	QSP:OSD*	Not avail	0 / 1	OFF / ON
	Initial input	OSP:IIN***	OSP	Not avail	QSP:IIN	QSP:IIN***	Not avail	OFF / AV1 / AV2 / PC1 / DV1 / HM1 / SL1 (/ S1A / S1B)	OFF
	Initial VOL level	ISH:FNC****	OSP	Not avail	QSP:IVL	QSP:IVL****	Not avail	0 / 1, 000 to 100	OFF / ON, 0 to 100
	Maximum VOL level	OSP:MVL****	OSP	Not avail	QSP:MVL	QSP:MVL****	Not avail	0 / 1, 000 to 100	OFF / ON, 0 to 100
	Input lock	OSP:INL***	OSP	Not avail	QSP:INL	QSP:INL***	Not avail	OFF / AV1 / AV2 / PC1 / DV1 / HM1 / SL1 (/ S1A / S1B)	OFF / VIDEO / Component(RGB) / PC / DVI / HDMI1 / SLOT INPUT (/ SLOT INPUT A / SLOT INPUT B)
	Button lock	OSP:BTL***	OSP	Not avail	QSP:BTL	QSP:BTL***	Not avail	OFF / MEN / ALL	OFF / MENU&ENTER / ON
	Remocon User level	OSP:RCM*	OSP	Not avail	QSP:RCM	QSP:RCM*	Not avail	0 / 1 / 2 / 3	OFF / User1 / User2 / User3

TYPE	Function	Control Command			Inquiry Command			Parameters/Call back	Note
		Command	Reply	Standby condition	Command	Reply	Standby		
	Off-timer function	OSP:OFT*	OSP	Not avail	QSP:OFT	QSP:OFT*	Not avail	0 / 1	OFF / ON
	Function Key	OSP:KFN* ***	OSP	Not avail	QSP:KFN* ***	QSP:KFN* ***	Not avail	1 / 2 SIG / SSV / ECO / SUT	for FUNCTION KEY 1 / for FUNCTION KEY 2 Signal menu / Screensavert menu / ECO setting menu / Timer setting menu
	Initial Power Mode	OSP:IPM***	OSP	Not avail	QSP:IPM	QSP:IPM***	Not avail	NOR / PON / STB	Normal/ Power on /standby
	Power ON Screen Delay	OSP:POD**	OSP	Not avail	QSP:POD	QSP:POD**	Not avail	00 to 30	0 to 30 sec
	Clock Display	OSP:CLK	OSP	Not avail	QSP:CLK	QSP:CLK*	Not avail	0 / 1	OFF / ON
	Power On Message(No activity power off)	OSP:NAP	OSP	Not avail	QSP:NAP	QSP:NAP*	Not avail	0 / 1	OFF / ON
	Studio White Balance	OSP:SWB*	OSP	Not avail	QSP:SWB	QSP:SWB*	Not avail	0 / 1	OFF / ON
	Slot Power	OSP:SLP*	OSP	Not avail	QSP:SLP	QSP:SLP*	Not avail	OF / AT / ON	SLOT POWER OFF / SLOT POWER AUTO ON / SLOT POWER ON
SDI Audio Setting	SDI Board Audio Output	ASD:OUT*	ASD	Not avail	QSD:OUT	QSD:OUT*	Not avail	0 / 1	off / on
	SDI Board Left Channel Setting	ASD:LCH**	ASD	Not avail	QSD:LCH	QSD:LCH**	Not avail	01 – 16	
	SDI Board Right Channel Setting	ASD:RCH**	ASD	Not avail	QSD:RCH	QSD:RCH**	Not avail	01 – 16	
	SDI Board Level Meter Display	ASD:LMT*	ASD	Not avail	QSD:LMT	QSD:LMT*	Not avail	0 / 1 / 2	Off / display 1-8CH / display 9-16CH
Others	リコール表示 / Recall	DDS	DDS	Not avail					
	音声ミュート / Audio Mute	AOC	AOC	Not avail					
	OSD消去 / OSD Clear	VDO	VDO	Not avail					
	デジタルズーム / Digital Zoom	DZM:* * * *	DZM	Not avail	QDZ	QDZ:* * * *	Not avail	0 / 1, 1 to 4, 1 to 5, 1 to 5	OFF / ON, enlarge 1 to 4, Horizontal position 1 to 5, Vertical position 1 to 5
	オフタイマー / Off Timer	ZOT:**	ZOT	Not avail				00 to 90	0 to 90 min.
	表示信号の周波数問合せ / Inquiry about Signal Frequency of input signal				QFR	QFR:***.* ***.*	Not avail	000.0 to 999.9, 000.0 to 999.9	Horizontal Freq., Vertical Freq.
	信号フォーマット問合せ / Inquiry about Signal Format of input signal				QSF	QSF:***** ***	Not avail	(Max parameter's num is 20 characters)	information for vcurrent video format
	モデル名称問合せ / Inquiry about Model Name				QMN	QMN:*****	Avail	80F10 / 47F10	LF50 / LFP35
	シリアルナンバー / Serial Number				QSN	QSN:*****...	Avail	(ASCII 9 to 15 characters)	Alfa-numeric, space, "-(0x30-0x39,0x41-0x5a,0x20,0x2d)

TYPE	Function	Control Command			Inquiry Command			Parameters/Call back	Note
		Command	Reply	Standby condition	Command	Reply	Standby		
	SOS履歴 / SOS History				QSS	QSS:**. **. **. **. **. **.	Avail	00 to FF. 00 to FF. 00 to FF. 00 to FF. 00 to FF. 00 to FF.	Number of times 1st SOS 2nd SOS 3n SOS 3n+1 SOS 3n+2 SOS
	SOS状態問い合わせ / Inquiry about SOS Status				QSS:STS	QSS:STS***	Avail	NON / ERR / EXT	no SOS history / now SOS /SOS history

Protocol

Communication parameters

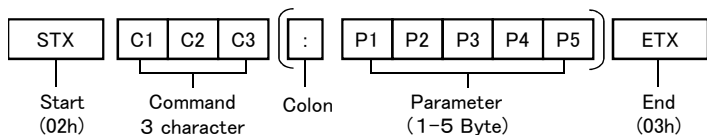
Signal level	RS-232C compliant
Synchronization method	Asynchronous
Baudrate	9600 bps
Parity	None
Character length	8 bits
Stop bit	1 bit
Flow control	None

type of cable : stragiht 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, then the parameter signal does not need to be sent.



RS232C	<STX>*****<ETX>
SLOT UART	<STX>AD95;*****<ETX>
Serial ID Format	<STX>AD94;RAD=<NUM1><NUM2><NUM3>;*****<ETX> (RS232C Only) (ex.) Serial ID = 1 <STX>AD94;RAD=001;PON<ETX>

Interval time from command to response: under 100msec

Notes:

- If an incorrect command is sent by mistake, this unit will send an "ER401" command back to the computer.
- With the power off, this display responds to PON command only.
- S1A and S1B of Command IMS are available only when adual input terminal board is attached.
- If customer send multiple commands, be sure to wait for the response for the first command to come before sending the next command.

通信規約

Aug.2013
Panasonic Corporation

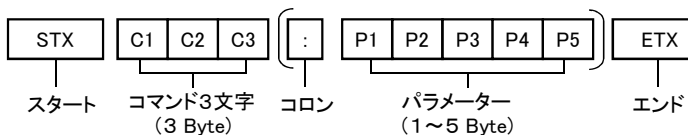
通信条件

信号レベル	RS-232C準拠
同期方式	調歩同期(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」の順に送信する。
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(:)を不可しないこと。



RS232C	<STX>*****<ETX>
SLOT UART	<STX>AD95;*****<ETX>
Serial ID Format	<STX>AD94;RAD<NUM1><NUM2><NUM3>;*****<ETX> (RS232C Only) (例) Serial ID = 1の場合 <STX>AD94;RAD=001;PON<ETX>

コマンド応答時間: 100ミリ秒未満

その他ルール:

- 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送信する。
- 電源「スタンバイ」状態(リモコンで電源「切」)中は“PON”コマンド以外の動作は保証なし。
- 2入力端子ボード装着時のみIMSコマンドでS1AとS1Bを使用可能。
- 複数コマンドの送信時は、送信側がモニター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