RS232C / LAN Command List
Touch Screen LCD Display MODEL: TH-50/65/80BF1

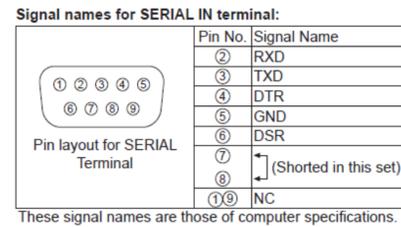| Category		Function	Control commands		Query commands		Parameters	Parameters Explanation
			Transmission Command[:Parameters]	Reply Command[:Parameters]	Transmission Command[:Parameters]	Reply Command[:Parameters]		
Picture	Basic Controls	Power ON	PON	PON	QPW	QPW:*	0/1	Off/On
		Power OFF	POF	POF				
		Input select	IMS:***	IMS	QMI	QMI:***	HM1 / HM2 / SL1(S1A/S1B) / VD1 / YP1 / PC1 / DV1 / DL1 / MG1 / NW1 / MV1 / WB1	HDMI1 / HDMI2 / SLOT(A/B) / VIDEO / COMPONENT / PC / DVI / DIGITAL LINK / Miracast / PanasonicAPPLICATION / MEMORY VIEWER / WHITEBOARD
		Input select(toggle)	IMS	IMS				
		Volume	AVL:**	AVL	QAV	QAV:**	00 ~ 63	0 ~ 63
		Volume up	AUU	AUU				
		Volume down	AUD	AUD				
		Audio mute	AMT:*	AMT	QAM	QAM:*	0/1	Off/On
		Audio mute(toggle)	AMT	AMT				
		Video mute	VMT:*	VMT	QVM	QVM:*	0/1	Off/On
		Video mute(toggle)	VMT	VMT				
		Aspect select	DAM:****	DAM	QAS	QAS:****	ZOOM/FULL/JUST/NORM/ZOM2/ZOM3/SJST/SNOM/SFUL/14:9	Zoom/16:9/Just/4:3/Zoom2/Zoom3/Side cut Just/4:3 Side cut/4:3 Full/14:9
		Aspect select(toggle)	DAM	DAM				
	Advanced settings	Picture Mode	VPC:MEN***	VPC	QPC:MEN	QPC:MEN***	STD / DYN / CNM	Normal / Dynamic / Cinema
		Backlight	VPC:BLT***	VPC	QPC:BLT	QPC:BLT***	000 ~ 100	000 ~ 100
		Contrast	VPC:PIC***	VPC	QPC:PIC	QPC:PIC***	000 ~ 100	000 ~ 100
		brightness	VPC:BLK***	VPC	QPC:BLK	QPC:BLK***	000 ~ 100	000 ~ 100
		Colour	VPC:COL***	VPC	QPC:COL	QPC:COL***	000 ~ 100	000 ~ 100
		Hue	VPC:TIN***	VPC	QPC:TIN	QPC:TIN****	000 ~ 100	000 ~ 100
		Sharpness	VPC:SHP***	VPC	QPC:SHP	QPC:SHP***	-15 ~ 000 ~ +15(015)	-15 ~ 15
		White balance	VPC:TMP***	VPC	QPC:TMP	QPC:TMP***	WRM / MID / COL	Warm / Normal / Cool
		Frame creation	VPC:FRC*	VPC	QPC:FRC	QPC:FRC*	0 / 1 / 2 / 3	Off / Min / Mid / Max
		Input level	VWB:ILV***	VWB	QWB:ILV	QWB:ILV***	-32 ~ 000 ~ +32(032)	-32 ~ 32
		R GAIN	VWB:RGN***	VWB	QWB:RGN	QWB:RGN***	000 ~ 100	000 ~ 100
		G GAIN	VWB:GGN***	VWB	QWB:GGN	QWB:GGN***	000 ~ 100	000 ~ 100
		B GAIN	VWB:BGN***	VWB	QWB:BGN	QWB:BGN***	000 ~ 100	000 ~ 100
		R BIAS	VWB:RBS***	VWB	QWB:RBS	QWB:RBS***	000 ~ 100	000 ~ 100
		G BIAS	VWB:GBS***	VWB	QWB:GBS	QWB:GBS***	000 ~ 100	000 ~ 100
		B BIAS	VWB:BBS***	VWB	QWB:BBS	QWB:BBS***	000 ~ 100	000 ~ 100
		Gamma	VWB:GMM**	VWB	QWB:GMM	QWB:GMM**	SC / 20 / 22 / 26	S-curve / 2.0 / 2.2 / 2.6
	Memory function	Memory delete	VPF:DEL**	VPF	-	-	01 ~ 08	Memory No.1 - Memory No.08
		Memory load	VPF:LOD**	VPF	-	-	01 ~ 08	Memory No.1 - Memory No.08
		Memory name change	VPF:NAM** *...*	VPF	QPF:NAM**	QPF:NAM *...*	01 - 08 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.01 - Memory No.08 Memory name(Max 40 Parameters)
		Memory save	VPF:SAV** *...*	VPF	-	-	01 - 08 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.01 - Memory No.08 Memory name(Max 40 Parameters)
		Memory state	-	-	QPF:STA	QPF:STA********	-/0 (Memory No.1- No.08)	Unused/Use
Sound		Speaker	AAC:OUT***	AAC	QAC:OUT	QAC:OUT***	SPO/EXT	Internal / External
		Sound Mode	AAC:MEN***	AAC	QAC:MEN	QAC:MEN***	STD/AUT/DYN/CLR	Normal/Dynamic/Clear
		Bass	AAC:BAS***	AAC	QAC:BAS	QAC:BAS***	-15 ~ 000 ~ +15(015)	-15 ~ 15
		Mid	AAC:MID***	AAC	QAC:MID	QAC:MID***	-15 ~ 000 ~ +15(015)	-15 ~ 15
		Treble	AAC:TRE***	AAC	QAC:TRE	QAC:TRE***	-15 ~ 000 ~ +15(015)	-15 ~ 15
		Balance	AAC:BAL***	AAC	QAC:BAL	QAC:BAL***	-30 ~ 000 ~ +30(030)	-30 ~ 30
		Surround	AAC:SUR***	AAC	QAC:SUR	QAC:SUR***	MON/OFF	On/Off
		Audio Out (PIP)	ASO:*	ASO	-	-	M/S	Main/Sub
	SDI Sound Output	Left Channel	ASD:LCH**	ASD	QSD:LCH	QSD:LCH**	01~16	Channel 1 - Channel 16
		Right Channel	ASD:RCH**	ASD	QSD:RCH	QSD:RCH**	01~16	Channel 1 - Channel 16
		Sound Out	ASD:OUT*	ASD	QSD:OUT	QSD:OUT*	0/1	Off/On
		Level Meter	ASD:LMT*	ASD	QSD:LMT	QSD:LMT*	0/1/2	Off/1-8ch/9-16ch
Pos. / Size	Pos./Size	H-Pos	DGE:HPO****	DGE	QGE:HPO	QGE:HPO****	-124 ~ 0000 ~ +124(0124)	-124 ~ 124
		H-Size	DGE:HSZ****	DGE	QGE:HSZ	QGE:HSZ****	-124 ~ 0000 ~ +124(0124)	-124 ~ 124
		V-Pos	DGE:VPO****	DGE	QGE:VPO	QGE:VPO****	-124 ~ 0000 ~ +124(0124)	-124 ~ 124
		V-Size	DGE:VSZ****	DGE	QGE:VSZ	QGE:VSZ****	-062 ~ 0000 ~ +062(0062)	-62 ~ 62
		Dot Clock	DGE:DCL****	DGE	QGE:DCL	QGE:DCL****	-032 ~ 0000 ~ +032(0032)	-32 ~ 32
		Clock Phase	DGE:CLK****	DGE	QGE:CLK	QGE:CLK****	-016 ~ 0000 ~ +016(0016)	-16 ~ 16
		Clamp Position	DGE:CLP****	DGE	QGE:CLP	QGE:CLP****	0000 ~ +127(0127)	0 ~ 127
		1:1 Pixel Mode	DGE:DBD*	DGE	QGE:DBD	QGE:DBD*	0/1	Off/On
		Over Scan	DGE:OVS*	DGE	QGE:OVS	QGE:OVS*	0/1	Off/On
		Adjusting POS. /SIZE(H-Pos/H-Size/V-Pos/V-Size)	DGE:PSZ**************	DGE	QGE:PSZ	QGE:PSZ**************	-124 ~ 0000 ~ +124(0124),-124 ~ 0000 ~ +124(0124), -124 ~ 0000 ~ +124(0124),-062 ~ 0000 ~ +062(0062)	H-Pos(-124 - 0000 - +124(0124)),H-Size(-124 - 0000 - +124(0124)), V-Pos(-124 - 0000 - +124(0124)),V-Size(-062 - 0000 - +062(0062))
		Auto Setup	DGE:ASU*	DGE	-	-	1 / 0	executes / interrupts
Setup	Touch Screen Settings	Touch Screen	STS:TOS*	STS	QTS:TOS	QTS:TOS*	0 / 1	Off / On
		Control menu	STS:CTM*	STS	QTS:CTM	QTS:QTM*	0/1/2/3	Off/Top/Bottom/Flick
		Quick input	STS:QIP*+++	STS	QTS:QIP*	QTS:QIP*+++	*:1/2/3/4 +++ :HM1 / HM2 / SL1(S1A/S1B) / VD1 / YP1 / PC1 / DV1 / DL1 / MG1 / NW1 / MV1 / WB1	*:Quick input1 - Quick input4 +++:HDMI1 / HDMI2 / SLOT(A/B) / VIDEO / COMPONENT / PC / DVI-D / DIGITAL LINK / MIRRORING / PanasonicAPPLICATION / MEMORY VIEWER / WHITEBOARD
		Quick Launch	STS:QUL*	STS	QTS:QUL	QTS:QUL*	0 / 1	Off / On
		Initial Background	STS:INB***	STS	QTS:INB	QTS:INB***	WHI / GRE / BLA	White / Green / Black
		Auto Save	STS:AUS*	STS	QTS:AUS	QTS:AUS*	0 / 1	Off / On
		Built-in Memory Setting	STS:BIM*	STS	QTS:BIM	QTS:BIM*	0 / 1	Off / On
	MULTI PIP Settings	MULTI PIP	DWA:***	DWA	QDW	QDW:***	OFF / PIP 0 / 1 / 2 / 3	Off/Pic in Pic or Pic in WHITEBOARD Lower right/Lower left/Upper left/Upper right ※Mode:PIP Only
		PIP Mode	DWA:MOD***	DWA	QDW:MOD	QDW:MOD***	PIP / PIW	Pic in Pic / Pic in WHITEBOARD
		Sub Input position(Toggle change)	DWA:PIN	DWA	-	-	-	-
		Sub Input position(Direct change)	DWA:PIN*	DWA	-	-	0 / 1 / 2 / 3	Lower right / Lower left / Upper left / Upper right
		Sub Input size(Toggle change)	DWA:SIZ	DWA	-	-	-	-
		Sub Input size(Direct change)	DWA:SIZ*	DWA	QDW:SIZ	QDW:SIZ*	1 / 2 / 3 / 4	(Aspect4:3 signal) 480x360/720x540/960x720/1280x960 (Aspect16:9 signal)480x270/720x405/960x540/1280x720
		Swap	DWA:SWP	DWA	-	-	-	-
	Network Setup	Wired LAN (Network)	SSU:NET ************ ************ ************ *	SSU	QSU:NET	QSU:NET ************ ************ ************	000~255, 000~255, 000~255, 000~255 000~255, 000~255, 000~255, 000~255 000~255, 000~255, 000~255, 000~255 0/1	IP address Subnet mask Gateway DHCP : Off/On
		Wireless LAN(Select Network)	SSU:LWL***	SSU	QSU:LWL	QSU:LWL***	OFF / SMP / SDT / MDT / UR1 / UR2 / UR3	Off / SIMPLE /S-DIRECT / M-DIRECT / USER1 / USER2 / USER3
		Wireless LAN (Network)	SSU:LTI ************ ************ ************ *	SSU	QSU:LTI	QSU:LTI ************ ************ ************	000~255,000~255,000~255,000~255 000~255,000~255,000~255,000~255 000~255,000~255,000~255,000~255 0/1	IP address Subnet mask Gateway DHCP : Off/On
		Wireless LAN (User name)	SSU:LNC*...*	SSU	QSU:LNC	QSU:LNC*...*	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 {	} ~	User name (Max 8 Parameters)
		MIRRORING Autonomous group owner	SSU:MRRAGO*	SSU	QSU:MRRAGO	QSU:MRRAGO*	0 / 1	Off/On
		MIRRORING Managed meetingss	SSU:MMT*	SSU	QSU:MMT	QSU:MMT*	0 / 1	Off/On
		MIRRORING Channel	SSU:CHL***	SSU	QSU:CHL	QSU:CHL***	001~999	Channel No. *For details, please refer to the instruction manual.

Category	Function	Control commands		Query commands		Parameters	Parameters Explanation
		Transmission Command[:Parameters]	Reply Command[:Parameters]	Transmission Command[:Parameters]	Reply Command[:Parameters]		
Setup / Network Setup	MIRRORING Connection type	SSU:CNT*	SSU	QSU:CNT	QSU:CNT*	0 / 1	0:Auto/1:PIN
	MIRRORING Lower bandwidth mode	SSU:LBM*	SSU	QSU:LBM	QSU:LBM*	0 / 1	Off/On
	Name Change	SSU:LDN*...*	SSU	QSU:LDN	QSU:LDN*...*	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)
	Multi-Live	SSU:LML	SSU	QSU:LML	QSU:LML****	04MLT/04IDX/16IDX	4-screen multi style/4-screen index style/16-screen index style
	Live mode Cut In	SSU:LLI*	SSU	QSU:LLI	QSU:LLI*	0/1	Off/On
	WEB Control	SSU:LWC*	SSU	QSU:LWC	QSU:LWC*	0/1	Off/On
	AMX D.D.	SSU:ADD*	SSU	QSU:ADD	QSU:ADD*	0 / 1	Off/On
	Crestron ConnectedTM	SSU:CRV*	SSU	QSU:CRV	QSU:CRV*	0 / 1	Off/On
	Reset	SSU:LRT	SSU	-	-	-	-
	Status(DISPLAY ID)	-	-	QSU:LDI	QSU:LDI*...*	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 ID(Max 8 Parameters)
	Status(Antenna level)	-	-	QSU:LAL	QSU:LAL*	1~5	Antenna level
	Port	SSU:LCP*****	SSU	QSU:LCP	QSU:LCP*****	01024-65535	Port
	DIGITAL LINK status	-	-	QSU:DLS * * -** -**	QSU:DLS	0 / 1 / 2 / 3 0 / 1 / 2 00 ~ 99 00 ~ 99	No link / DIGITAL LINK / LPM / LAN No HDMI / HDMI ON / HDCP ON Minimum Signal Quarity Maximum Signal Quarity
	Extron XTP	SSU:EXP*	SSU	QSU:EXP	QSU:EXP*	0 / 1	Off / On
Memory Viewer Settings	View	SMS:VIE***	SMS	QMS:VIE	QMS:VIE***	THU / LIS	Thumbnail / List
	Sort	SMS:SOR***	SMS	QMS:SOR	QMS:SOR***	NAM / TYP / TIM	Name / Type / Time
	Autoplay	SMS:AUP*	SMS	QMS:AUP	QMS:AUP*	0 / 1	Off / On
	Interval	SMS:INT*	SMS	QMS:INT	QMS:INT*	0 / 1 / 2 / 3 / 4 / 5	5S / 10S / 15S / 30S / 60S / 120S
	Effect	SMS:EFF***	SMS	QMS:EFF	QMS:EFF***	OFF / RAN / WIL / WIR / WID / SPL / ZOO / FAD / BLI / CHW / SLI / SLO	Off / Random / Wipe left / Wipe right / Wipe down / Split / Zoom in / Fade / Blind / Checker wipe / Slide in / Slide out
	Guide	SMS:GUI*	SMS	QMS:GUI	QMS:GUI*	0 / 1	Off / On
Signal	3D Y/C Filter (NTSC)	SSG:YCS*	SSG	QSG:YCS	QSG:YCS*	0/1	Off/On
	Sync	SSG:SNC***	SSG	QSG:SNC	QSG:SNC***	GRN/HAV	VBS/On G(On Y)/Auto
	Colour system	SSG:COS***	SSG	QSG:COS	QSG:COS***	NTS/PAL/SCM/MNT/AUT	NTSC/PAL/SECAM/M.NTSC/Auto
	Cinema reality	SSG:DCR*	SSG	QSG:DCR	QSG:DCR*	0/1	Off/On
	P-NR (Limited choice)	SSG:VNR*	SSG	QSG:VNR	QSG:VNR*	0/1	Off/Min
	P-NR	SSG:VNREXT***	SSG	QSG:VNREXT	QSG:VNREXT***	OFF/MIN/MAX	Off/Min/Mid/Max
	Block NR	SSG:BNR***	SSG	QSG:BNR	QSG:BNR***	OFF/MIN/MID/MAX	Off/Min/Mid/Max
	Mosquito NR	SSG:MNR***	SSG	QSG:MNR	QSG:MNR***	OFF/MIN/MID/MAX	Off/Min/Mid/Max
	Noise reduction	SSG:NRS***	SSG	QSG:NRS	QSG:NRS***	OFF/MIN/MID/MAX/ADV	Off/Min/Mid/Max/Advanced
	XGA Mode	SSG:XGA*	SSG	QSG:XGA	QSG:XGA*	1/2/3/4	1024x768 / 1280x768 / 1366x768 / Auto
	SDI Through	SSG:STH*	SSG	QSG:STH	QSG:STH*	0/1	Off/On
	Dynamic backlight control	SSG:DBC*	SSG	QSG:DBC	QSG:DBC*	0/1	Off/On
	HDMI Range	SSG:HRC***	SSG	QSG:HRC	QSG:HRC*	VID / FUL / AUT	Video(16-235)/Full(0-255)/Auto
Screensaver	Screensaver	OSP:SCR*	OSP	QSP:SCR	QSP:SCR*	0 / 1 / 2 / 3 / 4	Off / Scrolling bar only ON / Negative image ON / Overlay scrolling bar ON / White screen ON
	Function	SSC:FNC*	SSC	QSC:FNC	QSC:FNC*	0 / 1 / 2 / 3	Scrolling bar only / Negative image / Overlay scrolling bar / White screen
	Mode	SSC:MOD*	SSC	QSC:MOD	QSC:MOD*	0 / 1 / 2 / 3 / 4	Off / Interval / Time Designation / On / Standby after SCR Saver
	Interval	SSC:INT **** ****	SSC	QSC:INT	QSC:INT **** ****	0000 - 2359 0000 - 2359	Periodic Time : 00:00 - 23:59 Operation Time : 00:00 - 23:59
	Time Designation	SSC:TIM **** ****	SSC	QSC:TIM	QSC:TIM **** ****	0000 - 2359 0000 - 2359	Start Time : 00:00 - 23:59 Finish Time : 00:00 - 23:59
	Standby after SCR Saver	SSC:AOF ****	SSC	QSC:AOF	QSC:AOF ****	0000 - 2359	Screensaver duration : 00:00 - 23:59
	Side panel	SSC:SPC*	SSC	QSC:SPC	QSC:SPC*	0 / 1 / 2 / 3	Off / Low / Mid / High
	Wobbling	OSP:WOB*	OSP	QSP:WOB	QSP:WOB*	0 / 1	Off / On
ECO Mode Settings	ECO Mode settings	SSU:ECS*	SSU	QSU:ECS	QSU:ECS*	0 / 1	Custom / On
	Power save	SSU:PSV*	SSU	QSU:PSV	QSU:PSV*	0 / 1 / 2	Off / On / Sensor
	HDMI1 Power management	SSU:D1H*	SSU	QSU:D1H	QSU:D1H*	0 / 1	Off / On
	HDMI2 Power management	SSU:D2H*	SSU	QSU:D2H	QSU:D2H*	0 / 1	Off / On
	PC Power management	SSU:DPM*	SSU	QSU:DPM	QSU:DPM*	0 / 1	Off / On
	DVI-D Power management	SSU:DPD*	SSU	QSU:DPD	QSU:DPD*	0 / 1	Off / On
	No signal power off	SSU:AOF*	SSU	QSU:AOF	QSU:AOF*	0 / 1	Off / On
Input label	Input label (Current input)	SSU:ILA***	SSU	QSU:ILA	QSU:ILA***	NRM / PC1 / LPT / DCM / BD1 / DV1 / CTV / STB / SKP / CPS / VGA / WLS / PWD/ USB	Default input name / PC / Laptop / Document Camera / Blu-ray / DVD / CATV / STB / (Skip) / Composite/ PC / Wireless / ProWiDi / USB *For details, please refer to the instruction manual.
	Input label (Specified input)	SSU:ILA***+++	SSU	QSU:ILA	QSU:ILA***+++	*** : Specified input HM1 / HM2 / SL1(S1A/S1B) / VD1 / YP1 / PC1 / DV1 / DL1 / MG1 / NW1 / MV1 / WB1 +++ : Input label NRM / PC1 / LPT / DCM / BD1 / DV1 / CTV / STB / SKP / CPS / VGA / WLS / PWD/ USB	HDMI1 / HDMI2 / SLOT(A/B) / VIDEO / COMPONENT / PC / DVI / DIGITAL LINK / Miracast / PanasonicAPPLICATION / MEMORY VIEWER / WHITEBOARD Default input name / PC / Laptop / Document Camera / Blu-ray / DVD / CATV / STB / (Skip) / Composite/ PC / Wireless / ProWiDi / USB *For details, please refer to the instruction manual.
Function Button Settings	Function Button Settings	OSP:KFN + ***	OSP	QSP:KFN + ***	QSP:KFN + ***	1 / 2 ECO / REF / SIG / SUT / HM1 / HM2 / S1A / S1B / VD1 / YP1 / PC1 / DV1 / DLK / MG1 / NW1 / MV1 / WB1 / LNS / LML / OSH / MPI / MPS	Function1 / Function2 ECO Mode settings / Scrolling bar / Signal / OnOff Timer Setup / INPUT(HDMI1) / INPUT(HDMI2) / INPUT(SLOT A) / INPUT(SLOT B) / INPUT(VIDEO) / INPUT(COMPONENT) / INPUT(PC) / INPUT(DVI) / INPUT(DIGITAL LINK) / INPUT(Miracast) / INPUT(PanasonicAPPLICATION) / INPUT(MEMORY VIEWER) / INPUT(WHITEBOARD) / Network Setup / Multi-Live / AV Mute / MULTI PIP / MULTI PIP Settings
	Function Button Guide	OSP:KFG*	OSP	QSP:KFG	QSP:KFG*	0 / 1	Off / On
On/Off Timer Setup	Power ON Settings	TIM:PON*****	TIM	QIM:PON	QIM:PON*****	0 / 1, 0000 ~ 2359	Off / On, 00:00 - 23:59
	Power OFF Settings	TIM:POF*****	TIM	QIM:POF	QIM:POF*****	0 / 1, 0000 ~ 2359	Off / On, 00:00 - 23:59
Day/Time Setup	Day	TIM:DAY***	TIM	QIM:DAY	QIM:DAY***	MON / TUE / WED / THU / FRI / SAT / SUN	MON / TUE / WED / THU / FRI / SAT / SUN
	Time	TIM:NOW0****	TIM	QIM:NOW	QIM:NOW0****	0000 ~ 2359	00:00 - 23:59
COLOR UNIVERSAL DESIGN setting	COLOR UNIVERSAL DESIGN	SSU:CUD*	SSU	QSU:CUD	QSU:CUD*	0/1	Off / On
	Component/RGB-in select	SSU:CMP***	SSU	QSU:CMP	QSU:CMP***	YBR / RGB	Component / RGB
	DVI YUV/RGB select	SSU:DYR***	SSU	QSU:DYR	QSU:DYR***	YUV / RGB	YUV / RGB
	Monitor Out	SSU:MOT*	SSU	QSU:MOT	QSU:MOT*	0 / 1	Off / On
	No activity power off	SSU:NAO*	SSU	QSU:NAO	QSU:NAO*	0 / 1	Off / On
	Menu Display Duration	SSU:MDT***	SSU	QSU:MDT	QSU:MDT***	005/010/030/060/120/180	5s/10s/30s/60s/120s/180s
	OSD Brightness	SSU:OBR*	SSU	QSU:OBR	QSU:OBR*	1 / 2 / 3 / 4 / 5	1(Low) / 2 / 3 / 4 / 5(High)
	OSD Language	SSU:LNG***	SSU	QSU:LNG	QSU:LNG***	ENG/DEU/FRA/ITL/CHA/USA/ESP/JPN/RUS	English(UK) / German / French / Italian / Chinese / English(US) / Spanish / Japanese / Russian
Options / Weekly Command Timer	Function	TIW:FNC*	TIW	QIW:FNC	QIW:FNC*	1 / 0	On / Off
	Program Number	TIW:DPS *** *	TIW	-	-	MON/TUE/WED/THU/FRI/SAT/SUN 1~7	MONDAY / TUESDAY / WEDNESDAY / THURSDAY / FRIDAY / SATURDAY / SUNDAY PROGRAM1~PROGRAM7
	Program Number	TIW:WPS * * * * * * *	TIW	QIW:WPS	QIW:WPS * * * * * * *	1~7/- 1~7/- 1~7/- 1~7/- 1~7/- 1~7/- 1~7/-	PROGRAM1~PROGRAM7/--- PROGRAM1~PROGRAM7/--- PROGRAM1~PROGRAM7/--- PROGRAM1~PROGRAM7/--- PROGRAM1~PROGRAM7/--- PROGRAM1~PROGRAM7/--- PROGRAM1~PROGRAM7/---

Category	Function	Control commands		Query commands		Parameters	Parameters Explanation
		Transmission Command[:Parameters]	Reply Command[:Parameters]	Transmission Command[:Parameters]	Reply Command[:Parameters]		
Weekly Command Timer	Program Edit	TIW:PRG * ** **** ***	TIW	QIW:PRG * **	QIW:PRG * ** **** ***	1~7 01~64 0000~2359/---- S01~S64/U01~U64/---	PROGRAM1~PROGRAM7 01~64 00:00~23:59/---- Standard Command 01~64/User Command 01~64/--- (Not Supported Standard Command 20,30,36,39)
	User Command Edit	TIW:CMD *** **************	TIW	QIW:CMD ***	QIW:CMD *** **************	U01~U64 **************	User Command 01~64(Command number) User Command(Max 15 Parameters)
Audio input select	Audio input select	SAI:V***A+++	SAI	QAI:V***	QAI:V***A+++	*** HM1 / HM2 / SL1(S1A/S1B) / VD1 / YP1 / PC1 / DV1 / DL1 / MG1x / NW1 / MV1 / WB1 +++ HM1 / HM2 / SL1(S1A/S1B) / VD1 / PC1 / DL1 / NW1 / NAD	*** HDMI1 / HDMI2 / SLOT(A/B) / VIDEO / COMPONENT / PC / DVI / DIGITAL LINK / Miracast / PanasonicAPPLICATION / MEMORY VIEWER / WHITEBOARD +++ HDMI1 / HDMI2 / SLOT(A/B) / AUDIO1(VIDEO or COMPONENT) / AUDIO2(DVI or PC) / DIGITAL LINK / NETWORK(Miracast or PanasonicAPPLICATION or MEMORY VIEWER)
		SAI:A+++	SAI	QAI	QAI:V***A+++	*** HM1 / HM2 / SL1(S1A/S1B) / VD1 / YP1 / PC1 / DV1 / DL1 / MG1 / NW1 / MV1 / WB1 +++ HM1 / HM2 / SL1(S1A/S1B) / VD1 / PC1 / DL1 / NW1 / NAD	*** HDMI1 / HDMI2 / SLOT(A/B) / VIDEO / COMPONENT / PC / DVI / DIGITAL LINK / Miracast / PanasonicAPPLICATION / MEMORY VIEWER / WHITEBOARD +++ HDMI1 / HDMI2 / SLOT(A/B) / AUDIO1(VIDEO or COMPONENT) / AUDIO2(DVI or PC) / DIGITAL LINK / NETWORK(Miracast or PanasonicAPPLICATION or MEMORY VIEWER)
Input Search	Input Search	ISH:FNC***	ISH	QSH:FNC	QSH:FNC***	ALL/PRI/OFF	All Inputs/Priority/Off
	Primary Input	ISH:PRI***	ISH	QSH:PRI	QSH:PRI***	HM1 / HM2 / SL1(S1A/S1B) / VD1 / YP1 / PC1 / DV1 / DL1 / NW1 / NON	HDMI1 / HDMI2 / SLOT(A/B) / VIDEO / COMPONENT / PC / DVI-D / DIGITAL LINK / (NONE)
	Secondary Input	ISH:SCI***	ISH	QSH:SCI	QSH:SCI***	HM1 / HM2 / SL1(S1A/S1B) / VD1 / YP1 / PC1 / DV1 / DL1 / NW1 / NON	HDMI1 / HDMI2 / SLOT(A/B) / VIDEO / COMPONENT / PC / DVI-D / DIGITAL LINK / (NONE)
Options	Onscreen display	OSP:OSD*	OSP	QSP:OSD	QSP:OSD*	0/1	Disable/Enable
	Initial INPUT	OSP:IIN***	OSP	QSP:IIN	QSP:IIN***	OFF / HM1 / HM2 / SL1(S1A/S1B) / VD1 / YP1 / PC1 / DV1 / DIGITAL LINK / MG1 / NW1 / MV1 / WB1	Off / HDMI1 / HDMI2 / SLOT(A/B) / VIDEO / COMPONENT / PC / DVI / DIGITAL LINK / Miracast / PanasonicAPPLICATION / MEMORY VIEWER / WHITEBOARD
	Initial VOL level	OSP:IVL***	OSP	QSP:IVL	QSP:IVL***	0/1, 00 ~ 63	Off/On,volume: 0 ~63
	Maximum VOL level	OSP:MVL***	OSP	QSP:MVL	QSP:MVL***	0/1, 00 ~ 63	Off/On,maximum volume: 0 ~63
	INPUT lock	OSP:INL***	OSP	QSP:INL	QSP:INL***	OFF / HM1 / HM2 / SL1(S1A/S1B) / VD1 / YP1 / PC1 / DV1 / DIGITAL LINK / MG1 / NW1 / MV1 / WB1	Off / HDMI1 / HDMI2 / SLOT(A/B) / VIDEO / COMPONENT / PC / DVI / DIGITAL LINK / Miracast / PanasonicAPPLICATION / MEMORY VIEWER / WHITEBOARD
	Button lock	OSP:BTL***	OSP	QSP:BTL	QSP:BTL***	OFF/MEN/ALL	Off/MENU&ENTER/On
	Remocon User level	OSP:RCM*	OSP	QSP:RCM	QSP:RCM*	0/1/2/3	Off/User1/User2/User3
	Off-timer function	OSP:OFT*	OSP	QSP:OFT	QSP:OFT*	0/1	Disable/Enable
	Inital start up	OSP:ISU***	OSP	QSP:ISU	QSP:ISU***	LST/PON/STB	Last memory /ON/Standby
	Display Size	DGE:SCN*	DGE	QGE:SCN	QGE:SCN*	0/1	Off/On
	Studio W/B	OSP:SWB*	OSP	QSP:SWB	QSP:SWB*	0/1	Off/On
	Studio Gain	OSP:SGA*	OSP	QSP:SGA	QSP:SGA*	0/1	Off/On
	LAN Control Protocol	OSP:LPN***	OSP	QSP:LPN	QSP:LPN***	LP1 / LP2	Protocol 1 / Protocol 2
RS-232C/LAN Information Timing	No Signal Warning	SIT:NSW*	SIT	QIT:NSW	QIT:NSW*	0 / 1	Off / On (If set to be "On", "QST:NSW1" command is sent if signal disconnected after "No Signal Warning Timing".)
	No Signal Warning Timing	SIT:SWT**	SIT	QIT:SWT	QIT:SWT**	01 ~ 60	01 ~ 60 (minutes)
	No Signal Warning Automatic command sending	-	-	-	QST:NSW*	0/1	1: If signal is disconnected, this command is sent after "No Signal Warning Timing". 0: When signal connected after "QST:NSW1" command, this command is sent.
	No Signal Error	SIT:NSE*	SIT	QIT:NSE	QIT:NSE*	0 / 1	Off / On (If set to be "On", "QST:NSE1" command is sent if signal disconnected after "No Signal Error Timing".)
	No Signal Error Timing	SIT:SET**	SIT	QIT:SET	QIT:SET**	01 ~ 90	01 ~ 90 (minutes)
	No Signal Error Automatic command sending	-	-	-	QST:NSE*	0/1	1: If signal is disconnected, this command is sent after "No Signal Error Timing". 0: When signal connected after "QST:NSE1" command, this command is sent.
	Temperature Waning	SIT:TPW*	SIT	QIT:TPW	QIT:TPW*	0 / 1	Off / On (If set to be "On", "QST:TO*" command is sent if temperature is shifted around "Temperature Warning Value" and "Temperature Warning Release Value".)
	Temperature Warning Automatic command sending	-	-	-	QST:TO*	0/1	After power is set to on, it becames "NORMAL-MODE" and mode shift by "Temperature Waning Value" and "Temperature Waning Release Value". 1: If temperature is over "Temperature Waning Value" in "NORMAL-MODE", this command is sent and go to "HIGH TEMPERATURE-MODE". 0: If temperature is under "Temperature Waning Release Value" in "HIGH TEMPERATURE-MODE", this command is sent and go to "NORMAL-MODE".
	Slot power	OSP:SLP**	OSP	QSP:SLP	QSP:SLP**	ON/AT/OF	On/Auto/Off
	Power On Screen Delay	OSP:POD**	OSP	QSP:POD	QSP:POD**	00~30	00(OFF),1-30
	DVI-D Power management mode	OSP:DPS*	OSP	QSP:DPS	QSP:DPS*	0 / 1	Low Power Mode / Standard Mode
	ClockDisplay	OSP:CLK*	OSP	QSP:CLK	QSP:CLK*	0/1	Off/On
	All Aspect	OSP:AAS*	OSP	QSP:AAS	QSP:AAS*	0/1	Off/On
	Auto Setup	OSP:ASU***	OSP	QSP:ASU	QSP:ASU***	AUT/BTN	Auto/Manual
	Mobile connection	OSP:MBC*	OSP	QSP:MBC	QSP:MBC*	0/1	Off/On
	Power On Message (No activity power off)	OSP:NAP*	OSP	QSP:NAP	QSP:NAP*	0/1	Off/On
	Power On Message (Power Management)	OSP:PMM*	OSP	QSP:PMM	QSP:PMM*	0/1	Off/On
Other / Text display	Text Clear	XTD:CLR	XTD	-	-		Text Cloar
	Text display	XTD:NML *** ** * * * **	XTD	-	-	001 - 116 01 - 30 0/1/2/3/4/5/6/7/8/9 0/1/2/3/4/5/6/7/8/9 0/1/2/3 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 {	} -	Horizontal display start position Vertical display start position Text color : Black/Red/Green/Yellow/Blue/Magenta/Cyan/White/Half-brightness/Transparency Background color : Black/Red/Green/Yellow/Blue/Magenta/Cyan/White/Half-brightness/Transparency Text size : Usually/Twice length/Twice width/Twice Display Strings : (Max 40 Parameters)
	Time out setting	XTD:OPT**	XTD	QTD:OPT	QTD:OPT**	01 - 99	Time out(Second)
	Text display(memory load)	XTD:REA*	XTD	-	-	1/2/3/4/5	Storage area
	Text Scrolling display	XTD:SCR *** ** * * * **	XTD	-	-	001 - 116 01 - 30 0/1/2/3/4/5/6/7/8/9 0/1/2/3/4/5/6/7/8/9 0/1/2/3 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 {	} -	Horizontal display start position Vertical display start position Text color : Black/Red/Green/Yellow/Blue/Magenta/Cyan/White/Half-brightness/Transparency Background color : Black/Red/Green/Yellow/Blue/Magenta/Cyan/White/Half-brightness/Transparency Text size : Usually/Twice length/Twice width/Twice Display Strings : (Max 40 Parameters)
	Memory save	XTD:WRT * *** ** * * * **	XTD	QTD:WRT * * *	QTD:WRT *** ** * * * **	1/2/3/4/5 001 - 116 01 - 30 0/1/2/3/4/5/6/7/8/9 0/1/2/3/4/5/6/7/8/9 0/1/2/3 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 {	} -	Storage area Horizontal display start position Vertical display start position Text color : Black/Red/Green/Yellow/Blue/Magenta/Cyan/White/Half-brightness/Transparency Background color : Black/Red/Green/Yellow/Blue/Magenta/Cyan/White/Half-brightness/Transparency Text size : Usually/Twice length/Twice width/Twice Display Strings : (Max 40 Parameters)

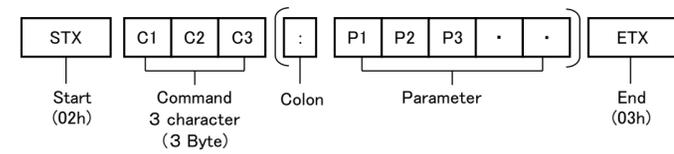| Category			Function	Control commands		Query commands		Parameters	Parameters Explanation
				Transmission Command[:Parameters]	Reply Command[:Parameters]	Transmission Command[:Parameters]	Reply Command[:Parameters]		
			Sub Display Input select	ISS:***	ISS	QSI	QSI:***	HM1 / HM2 / SL1(S1A/S1B) / VD1 / YP1 / PC1 / DV1 / DL1 / NW1	HDMI1 / HDMI2 / SLOT(A/B) / VIDEO / COMPONENT / PC / DVI / DIGITAL LINK / PanasonicAPPLICATION
			Sub Display Input select(Toggle)	ISS	ISS				
			Label display	DDS	DDS				Labels ON / OFF
			Audio Mute(for tuner)	AOC:*	AOC	-	-	0/1	Off/On
			Clear OSD	VDO	VDO	-	-	-	OSD Clear
			Digital Zoom	DZM:	DZM	QDZ	QDZ:		
				*			*	0/1	Off/On
				*			*	1-4	Expansion rate
				*			*	1-5	Display position (length)
				*			*	1-5	Display position (side)
			Off Timer	ZOT:**	ZOT	-	-	0-90	00 - 90 min
			Inquiry about detail of DIGITAL LINK status			QST:DLD	QST:DLD*	0 / 1 / 2 / 3	No connect / Digital Link / LPM / Ethernet
							***	000 ~ 255	(Est. Cable Length)(m) (*)
							*	0 / 1 / 2	No HDMI / HDMI(No HDCP) / HDMI(HDCP)
							-**	-00 ~ -99	ChannelA Signal Quarity
				-	-		-**	-00 ~ -99	ChannelB Signal Quarity
							-**	-00 ~ -99	ChannelC Signal Quarity
							-**	-00 ~ -99	ChannelD Signal Quarity
							-**	-00 ~ -99	Minimum Signal Quarity
							-**	-00 ~ -99	Maximum Signal Quarity
									*No connect or less than 20 m -> '000'
			Inquiry about No Signal Warning	-	-	QST:NSW	QST:NSW*	0 / 1	Normal/No Signal Warning (Reply "0" when No Signal Warning is set "OFF".)
			Inquiry about No Signal Error	-	-	QST:NSE	QST:NSE*	0 / 1	Normal/No Signal Error (Reply "0" when No Signal Error is set "OFF".)
			Inquiry about YFB series model name			QST:YFM	QST:YFM**********	MAX 10Charactors	YFB Model Name Charactros (YFBModel NoConnected -> 'ER401')
				-	-				
			DIGITAL LINK Input Change (Main)	IMS:DL1***	IMS	QMI:DL1	QMI:DL1***	HD1 / HD2 / PC1 / PC2 / SVD / VID	HDMI1 / HDMI2 / COMPUTER 1 / COMPUTER 2 / S-VIDEO / VIDEO
			DIGITAL LINK Input Change (Sub)	ISS:DL1***	IMS	QSI:DL1	QSI:DL1***	HD1 / HD2 / PC1 / PC2 / SVD / VID	HDMI1 / HDMI2 / COMPUTER 1 / COMPUTER 2 / S-VIDEO / VIDEO
O t h e r	For YFB100 / YFB200		YFB*** VOLUME UP(+)	VXX:TRLS1=TR01:AU	VXX:TRLS1=TR01:AU	-	-		Volume up
			YFB***VOLUME DOWN(-)	VXX:TRLS1=TR01:AU	VXX:TRLS1=TR01:AU	-	-		Volume down
			YFB*** VOLUME Setting	VXX:TRLS1=TR01:AV L:***	VXX:TRLS1=TR01:AV L:***	-	-	000-063	000-063
			YFB*** ASPECT Change	VXX:TRLS1=TR01:VS	VXX:TRLS1=TR01:VS	-	-		Aspect change
			YFB*** Closed Caption Setting	VXX:TRLS1=TR01:OC C:	VXX:TRLS1=TR01:OC C:	-	-	0 / 1 / 2 / 3 / 4	0:OFF/1:CC1/2:CC2/3:CC3/4:CC4
			YFB*** Auto Setup	VXX:TRLS1=TR01:OA	VXX:TRLS1=TR01:OA	-	-		Start Auto Setup
			YFB*** SYSTEM SELECTOR Setting	VXX:TRLS1=TR01:OS	VXX:TRLS1=TR01:OS	-	-		SYSTEM SELECTOR Setting
			YFB*** MENU KEY Send	VXX:TRLS1=TR01:OM	VXX:TRLS1=TR01:OM	-	-		MENU KEY
			YFB*** ENTER KEY Send	VXX:TRLS1=TR01:OE	VXX:TRLS1=TR01:OE	-	-		ENTER KEY
			YFB*** UP KEY Send	VXX:TRLS1=TR01:OC	VXX:TRLS1=TR01:OC	-	-		UP KEY
			YFB*** DOWN KEY Send	VXX:TRLS1=TR01:OC	VXX:TRLS1=TR01:OC	-	-		DOWN KEY
			YFB*** LEFT KEY Send	VXX:TRLS1=TR01:OC	VXX:TRLS1=TR01:OC	-	-		LEFT KEY
			YFB*** RIGHT KEY Send	VXX:TRLS1=TR01:OC	VXX:TRLS1=TR01:OC	-	-		RIGHT KEY
			YFB*** RETURN KEY Send	VXX:TRLS1=TR01:OB	VXX:TRLS1=TR01:OB	-	-		RETURN KEY
			SOS History			QSS	QSS:		
							**:	00 - FF	SOS generation frequency
							**:	00 - F2	SOS information on the first time
				-	-		**:	00 - F2	SOS information on the second times
							**:	00 - F2	SOS information on the 3, 6, 9 … times
							**:	00 - F2	SOS information on the 4, 7, 10 … times
							**	00 - F2	SOS information on the 5, 8, 11 … Times
			SOS State	-	-	QSS:STS	QSS:STS***	NON	No SOS History
								EXT	With SOS History
								ERR	Of SOS
			Signal frequency	-	-	QFR	QFR:		
								H***.*	000.0 - 999.9	H-Freq. (KHz)
								V***.*	000.0 - 999.9	V-Freq. (Hz)
			Signal name	-	-	QSF	QSF:M**************	M-1125(1080)/60i *Example	Signal Format
			Model Information	-	-	QMN	QMN:		
								**	80/65/50	80/65/50
								*	F	Model : FHD
								**	16	Series
			Model name	-	-	QID	QSN		
								**	80/65/50	inch
								***	BF1	model
								*	U/W/E/C	area
			Version(MONITOR-MCU)	-	-	QRV	QRV:		
								*.****	1.0000	MONITOR MCU Version
								+++++	BF1	Series
			Version(MONITOR-EEPROM)	-	-	QRV:EEP	QRV:EEP**.**	00.01~	MONITOR EEPROM Version
			Serial number	-	-	QSN	QSN*...*	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 {	} -	Serial number(Max 15 Parameters)

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

Signal names for SERIAL IN terminal:

Pin No.	Signal Name
②	RXD
③	TXD
④	DTR
⑤	GND
⑥	DSR
⑦	(Shorted in this set)
⑧	
①⑨	NC

Pin layout for SERIAL Terminal

These signal names are those of computer specifications.

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.
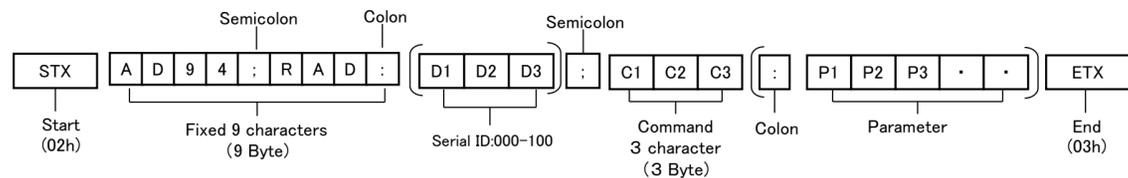
STX	C1 C2 C3	:	P1 P2 P3 ・ ・	ETX
Start (02h)	Command 3 character (3 Byte)	Colon	Parameter	End (03h)

	00	10	20	30	40	50	60	70
00		DE		0	@	P	`	p
01	SH	D1	!	1	A	Q	a	q
02	SX	D2	"	2	B	R	b	r
03	EX	D3	#	3	C	S	c	s
04	ET	D4	$	4	D	T	d	t
05	EQ	NK	%	5	E	U	e	u
06	AK	SN	&	6	F	V	f	v
07	BL	EB	'	7	G	W	g	w
08	BS	CN	(	8	H	X	h	x
09	HT	EM	)	9	I	Y	i	y
0A	LF	SB	*	:	J	Z	j	z
0B	HM	EC	+	;	K	[	k	{
0C	CL	→	,	<	L	¥	l	|
0D	CR	←	-	=	M	]	m	}
0E	SO	↑	.	>	N	^	n	~
0F	SI	↓	/	?	O	_	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	0	8	5	ETX

Binary:

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

Interval time from command to response : under 200msec

・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 supports "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.

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>

STX	A D 9 4 : R A D :	D1 D2 D3	;	C1 C2 C3	:	P1 P2 P3 ・ ・	ETX
Start (02h)	Fixed 9 characters (9 Byte)	Serial ID:000-100	Semicolon	Command 3 character (3 Byte)	Colon	Parameter	End (03h)

(Semicolon, Colon labels above the fixed 9 characters; Semicolon above the serial ID separator)
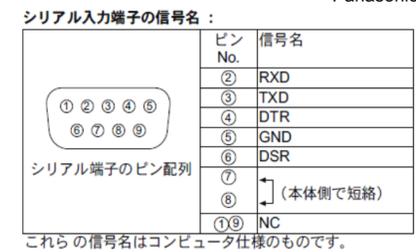
・If the RS232C control is performed using the YFB200, can not use the command of the response of more than 31 characters. (*1)
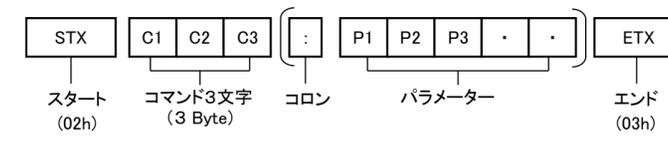(*1) Models with DIGITAL LINK function

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通信規約

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

シリアル入力端子の信号名 :

ピン No.	信号名
②	RXD
③	TXD
④	DTR
⑤	GND
⑥	DSR
⑦	（本体側で短絡）
⑧	
①⑨	NC

シリアル端子のピン配列

これら の信号名はコンピュータ仕様のものです。

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（：）を付けないでください。

STX	C1 C2 C3	:	P1 P2 P3 ・ ・	ETX
スタート (02h)	コマンド3文字 (3 Byte)	コロン	パラメーター	エンド (03h)

	00	10	20	30	40	50	60	70
00		DE		0	@	P	`	p
01	SH	D1	!	1	A	Q	a	q
02	SX	D2	"	2	B	R	b	r
03	EX	D3	#	3	C	S	c	s
04	ET	D4	$	4	D	T	d	t
05	EQ	NK	%	5	E	U	e	u
06	AK	SN	&	6	F	V	f	v
07	BL	EB	'	7	G	W	g	w
08	BS	CN	(	8	H	X	h	x
09	HT	EM	)	9	I	Y	i	y
0A	LF	SB	*	:	J	Z	j	z
0B	HM	EC	+	;	K	[	k	{
0C	CL	→	,	<	L	¥	l	|
0D	CR	←	-	=	M	]	m	}
0E	SO	↑	.	>	N	^	n	~
0F	SI	↓	/	?	O	_	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	0	8	5	ETX

バイナリ:

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

時間：200ミリ秒未満

その他
・間違ったコマンドを受信した場合、"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してください。

・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。
○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

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>

STX	A D 9 4 : R A D :	D1 D2 D3	:	C1 C2 C3	:	P1 P2 P3 ・ ・	ETX
スタート (02h)	固定コマンド9文字 (9 Byte)	シリアルID:000-100		コマンド3文字 (3 Byte)	コロン	パラメーター	エンド (03h)

(セミコロン、コロン labels above; セミコロン above serial ID separator)
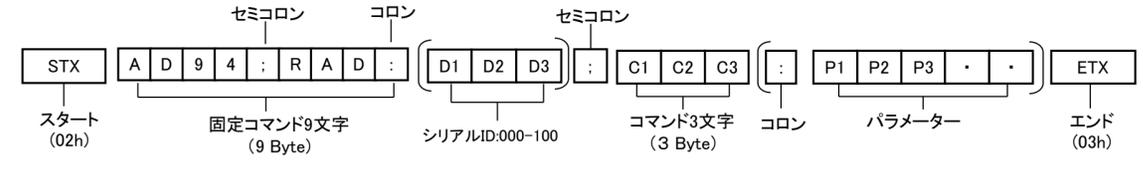
・YFB200を使用してRS232C制御を行った場合、31文字を超える応答のコマンドは使用できません。（*1）
(*1) DIGITAL LINK機能を持つモデル。