

RS232C/LAN command list
MODEL : FullHD LCD Display TH-42/49/55LF80, TH-42/49/55LF8

2017/05/26
 Panasonic Corporation

(*) (DL1), (DIGITAL LINK) : Available LF80 only

| 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 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 / (DL1) / DV1 / PC1 / YP1 / VD1 / UD1 Inquiry: HM1 / HM2 / (DL1) / DV1 / PC1 / YP1 / VD1 / UD1 | HM1 : HDMI1 HM2 : HDMI2 (DL1 : DIGITAL LINK) DV1 : DVI-D PC1 : PC YP1 : COMPONENT VD1 : VIDEO UD1 : USB Display |
| | Digital Link Input select for YFB Series | IMS:DL1*** | Not avail | QMI:DL1 | QMI:DL1*** | Not avail | Control: HD1 / HD2 / PC1 / PC2 / SVD / VID (YFB100) HD1 / HD2 / PC1 / PC2 / VID (YFB200) Inquiry: HD1 / HD2 / PC1 / PC2 / SVD / VID (YFB100) HD1 / HD2 / PC1 / PC2 / VID (YFB200) | *YFB100/YFB200 Available when YFB100 /YFB200 is connected. HD1 : HDMI1 HD2 : HDMI2 PC1 : COMPUTER 1 PC2 : COMPUTER 2 SVD : S-VIDEO(* YFB100 only) VID : VIDEO Available LF80 only |
| | Audio Volume | AVL:*** | Not avail | - | - | - | 000 - 100 | Volume value : 0 - 100 |
| | Volume Up | AUU | 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 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 |
| | Picture Adjustment | Backlight | VPC:BLT*** | Not avail | QPC:BLT | QPC:BLT*** | Not avail | 000 - 100 DEF |
| 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. |

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| | | Transmission Command\Parameters | Standby | Transmission Command\Parameters | Reply Command\Parameters | Standby | | |
| P i c t u r e | Picture Adjustment | 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. |
| | | 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. |
| | | 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 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 | - | - | - | 01 ~ 06 Memory No.1 - Memory No.6 | |
| | Memory load | VPF:LOD** | Not avail | - | - | - | 01 ~ 06 Memory No.1 - Memory No.6 | |
| | Memory function | Memory name change | VPF:NAM** *...* | Not avail | QPF:NAM** | QPF:NAM** *...* | 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 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 | |
| Output Select | | AAC:OUT*** | Not avail | QAC:OUT | SPO:LNO | Not avail | SPEAKERS / AUDIO OUT | |
| S o u n d | Sound Adjustment | 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 ON / OFF Available when Output Select is SPEAKERS. |
| | | Horizontal Position | DGE:HPO**** | Not avail | QGE:HPO | QGE:HPO**** | Not avail | -100 ~ 0000 ~ +100(0100) H-Pos : -100 - 0000 - +100(0100) |
| P o s i t i o n | Position/Size Adjustment | 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), -100 ~ 0000 ~ +100(0100), -100 ~ 0000 ~ +100(0100), -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 |

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| | | Transmission Command[:Parameters] | Standby | Transmission Command[:Parameters] | Reply Command[:Parameters] | Standby | | |
| Set up | DIGITAL LINK STATUS | - | - | QSU:DLS | QSU:DLS* * -** -** | Not avail | 0 / 1 / 2 / 3 0 / 1 / 2 -00--99 -00--99 | No connect / DIGITAL LINK or Long Reach (*1) / LPM / Ethernet No HDMI / HDMI(No HDCP) / HDMI(HDCP) Minimum Signal Quarity Maximum Signal Quarity (/ Exsample) QSU:DLS%1%2-%3%4-%5%6 %1: / Link Status %2:(HDMI) / Signal Status (correspond to HDMI Status) %3%4:MIN (00-99) / Signal Quality MIN (00-99) %5%6:MAX (00-99) / Signal Quality MAX (00-99) (*1) Link Status 1 : Include the Long Reach 2 : Possibly the transmitter does not support Long Reach. Available LF80 only |
| | AMX D.D. | SSU:ADD* | Not avail | QSU:ADD | QSU:ADD* | Not avail | 0 / 1 | OFF / ON |
| | Crestron Connected TM | SSU:CRV* | Not avail | QSU:CRV | QSU:CRV* | Not avail | 0 / 1 | OFF / ON |
| | Extron XTP | SSU:EXP* | Not avail | QSU:EXP | QSU:EXP* | Not avail | 0 / 1 | OFF / ON Available LF80 only |
| Signal | Reset | SSU:LRT | Not avail | - | - | - | - | - |
| | Component/RGB-IN Select | SSU:CMPI** | Not avail | QSU:CMPI | QSU:CMPI** | 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/DIGITAL LINK/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 / 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 |
| | Signal Range | SSG:HRC*** | Not avail | QSG:HRC | QSG:HRC*** | Not avail | VID / FUL / AUT | Video / FULL / Auto Available Video / FULL / Auto ,when input is HDMI /DIGITAL LINK , Available Video / FULL when input is DVI-D. Not avale : Other input |
| | 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 | 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) |
| 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 / SKP | reset input name(Except PC) / reset input name(for PC) DVD1 / DVD2 / DVD3 / Blu-ray1 / Blu-ray2 / Blu-ray3 / CATV / VCR / STB / (Skip) |

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| | | Transmission Command[:Parameters] | Standby | Transmission Command[:Parameters] | Reply Command[:Parameters] | Standby | | | |
| S e t u p | Input Label | Set Label for EACH INPUT | SSU:ILA++++** | Not avail | QSU:ILA+++ | QSU:ILA +++ +++ | Not avail | Input HDMI1 / HDMI2 / (DIGITAL LINK) / DVI-D / PC / COMPONENT / VIDEO Reset Input name / DVD1 / DVD2 / DVD3 / Blu-ray1 / Blu-ray2 / Blu-ray3 / CATV / VCR / STB / (Skip) | |
| | 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 (ACTION & MENU) SIG / SSV / SUT / LNS / ECO / OSH / DZM / MLT (INPUT) HM1 / HM2 / (DL1) / DV1 / PC1 / YP1 / VD1 / UD1 | setup to FUNCTION KEY 1 - 6 (ACTION & MENU) SIG : Signal menu SSV : Screensaver menu SUT : Setup timer menu LNS : Network settings menu ECO : Power management mode menu OSH : AV Mute DZM : Digital zoom MLT : Multi display setting menu (INPUT) HM1 : HDMI1 HM2 : HDMI2 (DL1 : DIGITAL LINK) DV1 : DVI-D PC1 : PC YP1 : COMPONENT VD1 : VIDEO UD1 : USB |
| | | Function guide Settings | OSP:KFG* | Not avail | QSP:KFG | QSP:KFG* | Not avail | 0 / 1 | OFF / ON |
| | Multi Display Setup | Multi Display ON/OFF | MDC:* | Not avail | - | - | - | 0 / 1 | OFF / ON |
| | | Multi Display Setup Detail | MDC:EXP* ** ** *** *** *** | Not avail | QDC:EXP | QDC:EXP* ** ** *** *** *** | Not avail | 0 / 1, 01 ~ 10, 01 ~ 10, 000 ~ 100, 000 ~ 100, 001 ~ 100 | OFF / ON, (Horizontal Scale) 1~10, (Vertical Scale) 1~10, (Bezel H Adjustment) 0~100, (Bezel V Adjustment) 0~100, (Location)(A1~J10) for USB input: (Horizontal Scale) 1~2,(Vertical Scale) 1~2,(Location)(A1~B2) |
| | 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 / (DL1) / DV1 / PC1 / YP1 / VD1 / UD1 | 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 / (DIGITAL LINK) / DVI-D / PC / COMPONENT / VIDEO / USB Display |
| | 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 |
| | | Present Time DAY TIME | - TIM:DAT**** ** ** ** ** | Not avail | QIM:NOW QIM:DAT | QIM:NOW0**** QIM:DAT**** ** ** ** ** | Not avail | 0000 ~ 2359 YYYY : 2015 ~ 2099 MM : 01 ~ 12 DD : 01 ~ 31 hh : 00 ~ 23 mm : 00 ~ 59 | Present time (hour:minute) (Year) (Month) (Day) (Hour) (Minute) format is "YYYYMMDDhhmm " |
| | USB media player Seiap | USB media player | SUS:UMP* | Not avail | QUS:UMP | QUS:UMP* | Not avail | 0 / 1 | Disable / Enable |
| | | 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) |

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| O p t i o n s M e n u | On screen display | OSP:OSD* | Not avail | QSP:OSD | QSP:OSD* | Not avail | 0 / 1 | OFF / ON |
| | Initial input | OSP:IIN*** | Not avail | QSP:IIN | QSP:IIN*** | Not avail | OFF / HM1 / HM2 / (DL1) / DV1 / PC1 / YP1 / VD1 / UD1 | OFF / HDMI1 / HDMI2 / (DIGITAL LINK) / DVI-D / PC / COMPONENT / VIDEO / USB Display |
| | Initial VOL level | OSP:IVL**** | Not avail | QSP:IVL | QSP:IVL**** | Not avail | 0 / 1, 000 ~ 100 | function : OFF / ON, volume : 0-100 |
| | Maximum VOL level | OSP:MVL**** | Not avail | QSP:MVL | QSP:MVL**** | Not avail | 0 / 1, 000 ~ 100 | function : OFF / ON, volume : 0-100 |
| | Input lock | OSP:INL*** | Not avail | QSP:INL | QSP:INL*** | Not avail | OFF / HM1 / HM2 / (DL1) / DV1 / PC1 / YP1 / VD1 / UD1 | OFF / HDMI1 / HDMI2 / (DIGITAL LINK) / DVI-D / PC / COMPONENT / VIDEO / USB Display |
| | 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 |
| | PC auto setting | OSP:PAS* | Not avail | QSP:PAS | QSP:PAS* | Not avail | 0 / 1 | OFF / ON |
| | Offtimer function | OSP:OFT* | Not avail | QSP:OFT | QSP:OFT* | Not avail | 0 / 1 | OFF / ON |
| | 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 |
| | Startup Logo | OSP:LOG* | Not avail | QSP:LOG | QSP:LOG* | Not avail | 0 / 1 | OFF / ON |
| | 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 ID Setup (Serial ID function & Display ID Setup) | SIF:*** | Not avail | QIF | QIF:*** | Not avail | 0 / 1 000~100 | OFF / ON Display ID |
| | Serial response (ID all) | SCT:RIA* | Not avail | QCT:RIA | QCT:RIA* | Not avail | 0 / 1 | OFF / ON |
| | Serial daisy chain position | SCT:DCP*** | Not avail | QCT:DCP | QCT:DCP*** | Not avail | TOP / DEF / END | TOP / --- / END |
| | LAN Control Protocol | OSP:LPN*** | Not avail | QSP:LPN | QSP:LPN*** | Not avail | LP1 / LP2 | Proccotol1 / Protocol2 |
| | Power ON Screen Delay | OSP:POD** | Not avail | QSP:POD | QSP:POD** | Not avail | AT / 00 ~ 30 | AT : Auto 0-30 : 0-30 seconds |
| | Clock Display | OSP:CLK* | Not avail | QSP:CLK | QSP:CLK* | Not avail | 0 / 1 | OFF / ON |
| | Power on messageNo activity power off | OSP:NAP* | Not avail | QSP:NAP | QSP:NAP* | Not avail | 0 / 1 | OFF / ON |
| | Power on messagePower management | OSP:PMM* | Not avail | QSP:PMM | QSP: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 |
| | 1st search input | ISH:PRI*** | Not avail | QSH:PRI | QSH:PRI*** | Not avail | NON / HM1 / HM2 / (DL1) / DV1 / PC1 / YP1 / VD1 / UD1 | (none) / HDMI1 / HDMI2 / (DIGITAL LINK) / DVI-D / PC / COMPONENT / VIDEO / USB |
| | 2nd search input | ISH:SCI*** | Not avail | QSH:SCI | QSH:SCI*** | Not avail | NON / HM1 / HM2 / (DL1) / DV1 / PC1 / YP1 / VD1 / UD1 | (none) / HDMI1 / HDMI2 / (DIGITAL LINK) / DVI-D / PC / COMPONENT / VIDEO / USB |
| | 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 / (DL1) / DV1 NON / HM1 / HM2 / (DL1) / DV1 0 / 1 | (Primary backup input) (Secondary backup input) 0: Disable / 1 : Enable (Auto switch back mode) |
| | Input Change Mode Normal | SBI:NOR (*** *** *) | Not avail | QBI | QBI:NOR *** *** * | Not avail | NON / HM1 / HM2 / (DL1) / DV1 / PC1 / YP1 / VD1 / UD1 NON / HM1 / HM2 / (DL1) / DV1 / PC1 / YP1 / VD1 / UD1 0 / 1 | (Primary backup input) (Secondary backup input) 0: Disable / 1 : Enable (Auto switch back mode) |
| | 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 HM1 / HM2 / (DL1) / DV1 / PC1 / YP1 / VD1 / UD1 0 / 1 / 2 | 0: inactive / 1: active (Status) Main Input 0: Main Input / 1: Primary Backup input / 2: Secondary Backup input (Current Input Status) |

| 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 | | |
| Failover/Failback | 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. |
| Audio input select | for Current Input | SAI: A+++ | Not avail | QAI | QAI: V*** A+++ | Not avail | *** HM1 / HM2 / (DL1) / DV1 / PC1 / YP1 / VD1 +++ HM1 / HM2 / (DL1) / PC1 / VD1 / NAD | HDMI1 / HDMI2 / (DIGITAL LINK) / DVI-D / PC / COMPONENT / VIDEO HDMI1 / HDMI2 / (DIGITAL LINK) / AUDIO1 (DVI-D or PC) / AUDIO2(COMPONENT or VIDEO) / NO AUDIO |
| | for EACH INPUT | SAI: V*** A+++ | Not avail | QAI:V*** | QAI: V*** A+++ | Not avail | *** HM1 / HM2 / (DL1) / DV1 / PC1 / YP1 / VD1 +++ HM1 / HM2 / (DL1) / PC1 / VD1/ NAD | HDMI1 / HDMI2 / (DIGITAL LINK) / DVI-D / PC / COMPONENT / VIDEO HDMI1 / HDMI2 / (DIGITAL LINK) / AUDIO1 (DVI-D or PC) / AUDIO2(COMPONENT or VIDEO) / NO AUDIO |
| 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. |
| | 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. |
| | 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 :Temperatur warning | - | Not avail | QST:TO | QST:TO* | Not avail | 0/1 | 1: "HIGH TEMPERATURE-MODE". "Please check the condition. 0: "NORMAL-MODE". |
| Message of Temperatur 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". | |
| Others | Recall | DDS | Not avail | - | - | - | - | Recall Display |
| | 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) |
| | 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 |

| 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 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 Frequency of input signal | - | - | QFR | QFR:H**** V***.** | Not avail | 000.00 ~ 999.99, 000.00 ~ 999.99 | Horizontal frequency Vertical frequency Displayed until the decimal point second place. |
| | Inquiry about Signal Format of input signal | - | - | QSF | QSF:***** | Not avail | (MAX 20 Characters) | Signal format information |
| | Inquiry about detail of DIGITAL LINK status | - | - | QST:DLD | QST:DLD* *** * ** -00--99 -00--99 -00--99 -00--99 -00--99 -00--99 -00--99 -00--99 | Not avail | 0 / 1 / 2 / 3 000-225, <20 0 / 1 / 2 -00--99 -00--99 -00--99 -00--99 -00--99 -00--99 -00--99 -00--99 -00--99 | No connect / DIGITAL LINK or Long Reach (*2) / LPM / Ethernet (Est. Cable Length)(m) (*1) No HDMI / HDMI(No HDCP) / HDMI(HDCP) ChannelA Signal Quarity ChannelB Signal Quarity ChannelC Signal Quarity ChannelD Signal Quarity Minimum Signal Quarity Maximum Signal Quarity (*1)Est. Cable Length VS100RXFirmware :000>20(20mLAN) (*2) Link Status 1 : Include the Long Reach 2 : Possibly the transmitter does not support Long Reach. Available : LF80 only |
| | Inquiry about No Signal Warning | - | - | QST:NSW | QST:NSW* | Not avail | 0 / 1 | 0 : Normal 1 : No Signal Warning *Reply "0" when No Signal Warning is set "OFF". |
| | Inquiry about No Signal Error | - | - | QST:NSE | QST:NSE* | Not avail | 0 / 1 | 0 : Normal 1 : No Signal Error *Reply "0" when No Signal Error is set "OFF". |
| | 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:STSEERR (QSS:STSEERR) |
| | Inquiry about Model Name | - | - | QMN | QMN: ** * ** | Avail | 42 / 49 / 55 F 13 | 42inch / 49inch / 55inch FHD model LE8 / LE80 |
| | Inquiry about Model | - | - | QID | QID: ** * ** | Not avail | 42 / 49 / 55 LF8 / LF80 L / W / C | 42inch / 49inch / 55inch model market |
| | Software Version Main MCU | - | - | QRV | QRV: * **** * *** | Avail | *Example 1.0000 LE8 / LE80 | Verson model |
| | Software Version Sub MCU | - | - | QRV:STB | QRV:STB **.* | Avail | *Example 01.00 | Version |
| Software Version EEPROM | - | - | QRV:EOP | QRV:EOP **.* | Avail | *Example 01.00 | Version | |
| Software Version HDBaseT | - | - | QRV:HBT | QRV:HBT **.* **** | Not avail | *Example 30.90.000C | 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) | |

| 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 | 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 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 |

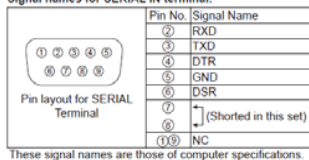
Protocol

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 |

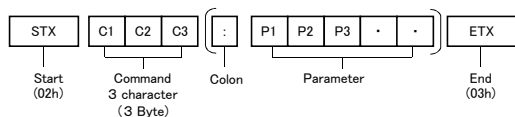
type of cable : straight cable

Signal names for SERIAL IN terminal:



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 | p | | |
| 01 | SH | D1 | ! | 1 | A | Q | a |
| 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 | e |
| 06 | AK | SN | & | 6 | F | V | f |
| 07 | BL | EB | ' | 7 | G | W | g |
| 08 | BS | CN | (| 8 | H | X | h |
| 09 | HT | EM |) | 9 | I | Y | i |
| 0A | LF | SB | * | : | J | Z | j |
| 0B | HM | EC | + | : | K | [| [|
| 0C | CL | → | < | L | ¥ | | |
| 0D | CR | ← | = | M |] |] |] |
| 0E | SO | ↑ | > | N | ^ | n | n |
| 0F | SI | ↓ | ? | O | ~ | o | o |

(Example)

Power on

| | | | | | |
|-----------|-----|---|---|---|-----|
| Character | STX | P | O | N | ETX |
|-----------|-----|---|---|---|-----|

Binary

| | | | | | |
|--------|----|----|----|----|----|
| Binary | 02 | 50 | 4F | 4E | 03 |
|--------|----|----|----|----|----|

Picture+85

| | | | | | | | | | | | | |
|-----------|-----|---|---|---|---|---|---|---|---|---|---|-----|
| Character | STX | V | P | C | : | P | I | C | 0 | 8 | 5 | ETX |
|-----------|-----|---|---|---|---|---|---|---|---|---|---|-----|

Binary

| | | | | | | | | | | | | |
|--------|----|----|----|----|----|----|----|----|----|----|----|----|
| 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 serial ID] is not 0: the display ID needs to match the serial ID.
 - When serial 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 serial ID is 0.

通信規約

通信条件

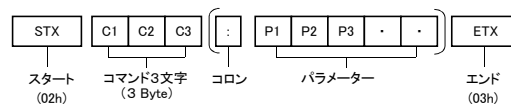
| | |
|---------|------------|
| 信号レベル | RS-232C準拠 |
| 同期方式 | 調歩同期 (非同期) |
| ボーレート | 9600 bps |
| パリティなし | なし |
| キャラクター長 | 8 ビット |
| ストップビット | 1 ビット |
| フロー制御 | なし |

ケーブル種 : ストレート

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 (:) を付けしないでください。

シリアル入力端子の信号名:



| 00 | 10 | 20 | 30 | 40 | 50 | 60 | 70 |
|----|----|----|----|----|----|----|----|
| 00 | DE | 0 | @ | P | p | | |
| 01 | SH | D1 | ! | 1 | A | Q | a |
| 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 | e |
| 06 | AK | SN | & | 6 | F | V | f |
| 07 | BL | EB | ' | 7 | G | W | g |
| 08 | BS | CN | (| 8 | H | X | h |
| 09 | HT | EM |) | 9 | I | Y | i |
| 0A | LF | SB | * | : | J | Z | j |
| 0B | HM | EC | + | : | K | [| [|
| 0C | CL | → | < | L | ¥ | | |
| 0D | CR | ← | = | M |] |] |] |
| 0E | SO | ↑ | > | N | ^ | n | n |
| 0F | SI | ↓ | ? | O | ~ | 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

| | | | | | |
|------|----|----|----|----|----|
| 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

| | | | | | | | | | | | | |
|------|----|----|----|----|----|----|----|----|----|----|----|----|
| バイナリ | 02 | 56 | 50 | 43 | 3A | 50 | 49 | 43 | 30 | 38 | 35 | 03 |
|------|----|----|----|----|----|----|----|----|----|----|----|----|

その他

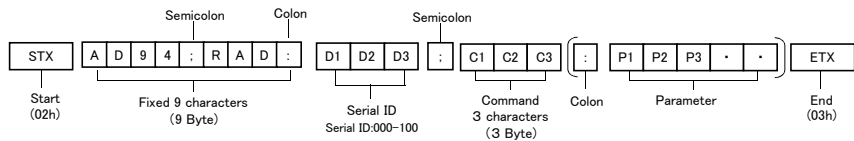
- 間違ったコマンドを受信すると、「ER401」という応答コマンドを返信します。
- 複数コマンドで制御する場合は、送信側が本機の応答を受け取ってから、次のコマンドを送信することを想定しています。
- パラメータの長さはコマンドごとに異なります。
- 電源「スタンバイ」状態(リモコンで電源「切」)中は「PON」「QPW」コマンド以外の動作は保証されません。

<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、シリアルID が0以外の場合: ディスプレイIDとシリアルID が一致した時
 - シリアル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: シリアル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

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> |
|------------------|--|

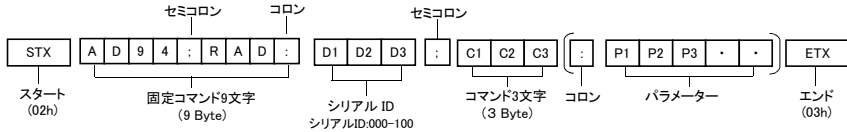


- AD94:RAD: is fixed characters when sending command with ID.
- Serial ID is 3 characters and specified with Display ID which will be controlled.
 - If Display ID is 1, Serial ID is 001.
 - If Display ID is 15, Serial ID is 015.
- When using daisy chaining, set [Options] - [Serial daisy chain position] correctly.
- When using daisy chaining by serial terminal, use a straight cable which pin No. ② through ⑧ are hard wired.
- 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

シリアル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> |
|------------------|--|



- AD94:RAD: は、シリアルID付きコマンドを送る場合に必要固定文字列です。
- シリアルIDには、制御したいディスプレイのディスプレイIDを3文字で指定します。
 - ディスプレイID が 1 の場合、シリアルIDは 001 になります。
 - ディスプレイID が 15 の場合、シリアルIDは 015 になります。
- デジ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(シリアルデジチェーン接続位置)」を正しく設定してください。
- シリアル端子でデジチェーン接続する場合は、ピンNo. ②～⑧が結線されているストレートケーブルを使用してください。
- 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。