

Commands compatible with HP - HC - HCP - HX - HNT series HELGI monitors

RS232 Settings	Baud Rate: 9600bps Data bit: 8bits Parity: None Stop bit: 1
LAN Settings	IP: IP Address Port: 4664

Command format:
byte1 byte2 byte3 byte4 byte5 byte6 byte7 byte8 byte9

Command description:
byte1: always 3A, representing the start of the command
byte2 - byte3: always 30 31, indicating that the machine whose machine ID is 1 responds to the command
byte4: 53 indicates that the command is a set command; 47 indicates that the command is a get command
byte5: Indicates the type of command, such as Power is 30, Treble is 31, Volume is 38, etc.
byte - byte7 - byte8: data information of the command, such as 30 30 30 is 0, 30 31 32 is 12, 31 30 30 is 100
byte9: always 0D, representing the end of the command

Event	Cmd (Hex)	Value	Command (HEX, Default ID is 1)	Reply	Description
Power		000 : Backlight off	3A 30 31 53 30 30 30 0d		
		001 : Backlight on	3A 30 31 53 30 30 30 31 0d		
		002 : Power off	3A 30 31 53 30 30 30 32 0d		
		003 : Power on	3A 30 31 53 30 30 30 33 0d		Only supports RS232, LAN command non supported
		004: Reboot	3A 30 31 53 30 30 30 34 0d		
Treble	31	-xx: -5~0	3A 30 31 53 31 2D 30 33 0d		E.g. set treble to -3
		+xx: 0~5	3A 30 31 53 31 2B 30 33 0d		E.g. set treble to 3
Bass	32	-xx: -5~0	3A 30 31 53 32 2D 30 35 0d		E.g. set bass to -5
		+xx: 0~5	3A 30 31 53 32 2B 30 35 0d		E.g. set bass to 5
Balance	33	-xx: -50~0	3A 30 31 53 33 2D 35 30 0d		E.g. set balance to -50
		+xx: 0~50	3A 30 31 53 33 2B 32 30 0d		E.g. set balance to 20
Contrast	34	000 ~ 100	3A 30 31 53 34 30 35 30 0d		E.g. set contrast to 50
Brightness	35	000 ~ 100	3A 30 31 53 35 30 35 30 0d		E.g. set brightness to 50
Sharpness	36	000 ~ 100	3A 30 31 53 36 30 31 30 0d		E.g. set sharpness to 10
Sound Mode	37	000 : Movie	3A 30 31 53 37 30 30 30 0d		
		001 : Standard	3A 30 31 53 37 30 30 31 0d		
		002 : Custom	3A 30 31 53 37 30 30 32 0d		
		003 : Classroom	3A 30 31 53 37 30 30 33 0d		
		004 : Meeting	3A 30 31 53 37 30 30 34 0d		
Volume	38	000 ~ 100	3A 30 31 53 38 30 35 30 0d		
Mute	39	000: Off	3A 30 31 53 39 30 30 30 0d		
		001: On	3A 30 31 53 39 30 30 31 0d		
Video Source	3A	000 : VGA	3A 30 31 53 3A 30 30 30 0d		
		001 : HDMI1	3A 30 31 53 3A 30 30 31 0d		
		002: HDMI2	3A 30 31 53 3A 30 30 32 0d		
		003 : AV	3A 30 31 53 3A 30 30 33 0d		
		022 : HDMI4	3A 30 31 53 3A 30 32 32 0d		
		021 : HDMI3	3A 30 31 53 3A 30 32 31 0d		
		031 : VGA2	3A 30 31 53 3A 30 33 31 0d		
		032 : VGA3	3A 30 31 53 3A 30 33 32 0d		
		051 : ATV	3A 30 31 53 3A 30 35 31 0d		
		101 : Android	3A 30 31 53 3A 31 30 31 0d		
		103 : Slot in PC	3A 30 31 53 3A 31 30 33 0d		
		007 : Display Port	3A 30 31 53 3A 30 30 37 0D		

Event	Cmd (Hex)	Value	Command (HEX, Default ID is 1)	Reply	Description
Video Source	3A	102 : Android +	3A 30 31 53 3A 31 30 32 0D	Set success reply 34 30 31 2B 0D Set fail reply 34 30 31 2D 0D	
		104 : Type-C1	3A 30 31 53 3A 31 30 34 0D		
		105 : Type-C2	3A 30 31 53 3A 31 30 35 0D		
		106: DTV	3A 30 31 53 3A 31 30 36 0D		
		107 : YPbpr	3A 30 31 53 3A 31 30 37 0D		
Aspect Ratio	3B	000 : 16:9	3A 30 31 53 3B 30 30 30 0d		
		001 : 4:3	3A 30 31 53 3B 30 30 31 0d		
		002 : PTP	3A 30 31 53 3B 30 30 32 0d		
Language	3C	000: English	3A 30 31 53 3C 30 30 30 0d		
		001: French	3A 30 31 53 3C 30 30 31 0d		
		002: Spanish	3A 30 31 53 3C 30 30 32 0d		
		003: Chinese (Traditional)	3A 30 31 53 3C 30 30 33 0d		
		004: Chinese (Simplified)	3A 30 31 53 3C 30 30 34 0d		
		005: Portuguese	3A 30 31 53 3C 30 30 35 0d		
		006: German	3A 30 31 53 3C 30 30 36 0d		
		007: Dutch	3A 30 31 53 3C 30 30 37 0d		
		008: Polish	3A 30 31 53 3C 30 30 38 0d		
		009: Russian	3A 30 31 53 3C 30 30 39 0d		
		010: Czech	3A 30 31 53 3C 30 31 30 0d		
		011: Danish	3A 30 31 53 3C 30 31 31 0d		
		012: Swedish	3A 30 31 53 3C 30 31 32 0d		
		013: Italian	3A 30 31 53 3C 30 31 33 0d		
		014: Romanian	3A 30 31 53 3C 30 31 34 0d		
		015: Norwegian	3A 30 31 53 3C 30 31 35 0d		
		016: Finnish	3A 30 31 53 3C 30 31 36 0d		
		017: Greek	3A 30 31 53 3C 30 31 37 0d		
		018: Turkish	3A 30 31 53 3C 30 31 38 0d		
		019: Arabic	3A 30 31 53 3C 30 31 39 0d		
		020: Japanese	3A 30 31 53 3C 30 32 30 0d		
		021: Ukrainian	3A 30 31 53 3C 30 32 31 0d		
		022: Korean	3A 30 31 53 3C 30 32 32 0d		
		023: Hungarian	3A 30 31 53 3C 30 32 33 0d		
		024: Persian	3A 30 31 53 3C 30 32 34 0d		

Event	Cmd (Hex)	Value	Command (HEX, Default ID is 1)	Reply	Description
Language	3C	025: Vietnamese	3A 30 31 53 3C 30 32 35 0d		
		026: Thailandese	3A 30 31 53 3C 30 32 36 0d		
		027: Catalan	3A 30 31 53 3C 30 32 37 0d		
		028: Lithuanian	3A 30 31 53 3C 30 32 38 0d		
		029: Croatian	3A 30 31 53 3C 30 32 39 0d		
		030: Estonian	3A 30 31 53 3C 30 33 30 0d		
Picture Mode	3D	000 : Standard	3A 30 31 53 3D 30 30 30 0d		
		001 : Bright	3A 30 31 53 3D 30 30 31 0d		
		002 : Soft	3A 30 31 53 3D 30 30 32 0d		
		003 : Customer	3A 30 31 53 3D 30 30 33 0d		
Hue (Color)	3E	000 ~ 100	3A 30 31 53 3E 30 33 30 0d		
Backlight	3F	000 ~ 100	3A 30 31 53 3F 30 35 30 0d		
Color Temp	40	000 : Cool	3A 30 31 53 40 30 30 30 0d		
		001 : Standard	3A 30 31 53 40 30 30 31 0d		
		002 : Warm	3A 30 31 53 40 30 30 32 0d		
Remote control command	41	000 : Vol +	3A 30 31 53 41 30 30 30 0d	Set success reply 34 30 31 2B 0D Set fail reply 34 30 31 2D 0D	
		001 : Vol -	3A 30 31 53 41 30 30 31 0d		
		010 : Up	3A 30 31 53 41 30 31 30 0d		
		011 : Down	3A 30 31 53 41 30 31 31 0d		
		012 : Left	3A 30 31 53 41 30 31 32 0d		
		013 : Right	3A 30 31 53 41 30 31 33 0d		
		014 : Enter	3A 30 31 53 41 30 31 34 0d		
		020 : Menu	3A 30 31 53 41 30 32 30 0d		
		021 : Input	3A 30 31 53 41 30 32 31 0d		
		022 : Back/Exit	3A 30 31 53 41 30 32 32 0d		
		031 : Blank	3A 30 31 53 41 30 33 31 0d		
		032 : Freeze	3A 30 31 53 41 30 33 32 0d		
		033 : Mute	3A 30 31 53 41 30 33 33 0d		
		034 : Home	3A 30 31 53 41 30 33 34 0d		
IR	42	000: Enable	3A 30 31 53 42 30 30 30 0d		
		001: Disable	3A 30 31 53 42 30 30 31 0d		
Speaker	43	000 : Off	3A 30 31 53 43 30 30 30 0d		
		001 : On	3A 30 31 53 43 30 30 31 0d		
Touch	44	000 : Off	3A 30 31 53 44 30 30 30 0d		Touch disabled

Event	Cmd (Hex)	Value	Command (HEX, Default ID is 1)	Reply	Description
Touch	44	001 : On	3A 30 31 53 44 30 30 31 0d	Set success reply 34 30 31 2B 0D Set fail reply 34 30 31 2D 0D	Touch enabled
Screen	45	000 : Off	3A 30 31 53 45 30 30 30 0d		Screen black
		001 : On	3A 30 31 53 45 30 30 31 0d		Screen on
No signal power off	46	000: Off	3A 30 31 53 46 30 30 30 0d		
		001 : 1 minute	3A 30 31 53 46 30 30 31 0d		
		003 : 3 minutes	3A 30 31 53 46 30 30 33 0d		
		005 : 5 minutes	3A 30 31 53 46 30 30 35 0d		
		010 : 10 minutes	3A 30 31 53 46 30 31 30 0d		
		015 : 15 minutes	3A 30 31 53 46 30 31 35 0d		
		030 : 30 minutes	3A 30 31 53 46 30 33 30 0d		
		045 : 45 minutes	3A 30 31 53 46 30 34 35 0d		
		060 : 60 minutes	3A 30 31 53 46 30 36 30 0d		

Event	Cmd (Hex)	Value	Command (HEX, Default ID is 1)	Reply	Description
On/Off Timer	47	Byte1~Byte15 (1) Byte1: Decide which Timer is selected Byte1=0x1~0x07. There are totally 7 Timers, this value is used to decide which Timer is (2) Byte2: 0x00 or 0x01, 0x00:Sunday disable; 0x01:Sunday enable (3) Byte3: 0x00 or 0x01, 0x00:Monday disable;0x01:Monday enable (4) Byte4: 0x00 or 0x01, 0x00:Tuesday disable; 0x01:Tuesday enable (5) Byte5: 0x00 or 0x01, 0x00:Wednesday disable; 0x01:Wednesday enable (6) Byte6: 0x00 or 0x01, 0x00:Thursday disable; 0x01:Thursday enable (7) Byte7: 0x00 or 0x01, 0x00:Friday disable; 0x01:Friday enable (8) Byte8: 0x00 or 0x01, 0x00:Saturday disable; 0x01:Saturday enable (9) Byte9: 0x00 or 0x01, 0x00: On Timer is disable; 0x01:On Timer is enable (10) Byte10: The Hour of the On Timer. Byte3=0x10~0x27. (decimal range: 16-39: Our program will subtract 16, the hour range is 0 to 23) (11) Byte11: The Minute of the On Timer. Byte4=0x10~0x4B. (decimal range: 16-75: Our program will subtract 16, the minute range is 0 to 59) (12) Byte12: 0x00 or 0x01, 0x00: Off Timer is disable; 0x01:Off Timer is enable (13) Byte13: The Hour of the Off Timer. Byte5=0x10~0x27. (decimal range: 16-39: Our program will subtract 16, the hour range is 0 to 23) (14) Byte14: The Minute of the Off Timer. Byte6=0x10~0x4B. (decimal range: 16-75: Our program will subtract 16, the minute range is 0 to 59) (15) Byte15: Treserved, and should be 0x00. If both byte9 and byte12 are set to disabled, it will delete the target timer if it exists	On Timer: 09:08 sun 3A 30 31 53 47 01 01 00 00 00 00 00 00 01 19 18 00 00 00 00 0D Off Timer: 10:10 mon/frday 3A 30 31 53 47 02 00 01 00 00 00 01 00 00 00 00 01 1A 1A 00 0D Onf/Off Timer: 09:08/10:10 sun 3A 30 31 53 47 01 01 00 00 00 00 00 00 01 19 18 01 1A 1A 00 0D	Set success reply 34 30 31 2B 0D Set fail reply 34 30 31 2D 0D	3A 30 31 53 47 Byte1 Byte2 Byte3 Byte4 Byte5 Byte6 Byte7 Byte8 Byte9 0d

Event	Cmd (Hex)	Value	Command (HEX, Default ID is 1)	Reply	Description
Hdmi Out encryption mode	50	000 : Off	3A 30 31 53 50 30 30 30 0d		
		001 : Auto	3A 30 31 53 50 30 30 31 0d		
		002 : Hdc1.4	3A 30 31 53 50 30 30 32 0d		
		003 : Hdc2.2	3A 30 31 53 50 30 30 33 0d		
Android Enable	51	000 : Off	3A 30 31 53 51 30 30 30 0d		
		001 : On	3A 30 31 53 51 30 30 31 0d		

Event	Cmd (Hex)	Value	Command (HEX, Default ID is 1)	Reply	Description
Power	30B3:E91	000 : Backlight off	3A 30 31 47 30 30 30 0D	3A 30 31 72 30 30 30 0D	
		001 : Backlight on		3A 30 31 72 30 30 30 0D	
		002 : Power off		3A 30 31 72 30 30 30 0D	Only supports RS232, LAN command non supported
Treble	31	-05 ~ +05	3A 30 31 47 31 30 30 0D	3A 30 31 72 31 2B 30 35 0D	E.g. current treble is +05
Bass	32	-05 ~ +05	3A 30 31 47 32 30 30 0D	3A 30 31 72 32 2D 30 35 0D	E.g. current bass is -05
Balance	33	-50 ~ +50	3A 30 31 47 33 30 30 0D	3A 30 31 72 33 2B 35 30 0D	E.g. current balance is +50
Contrast	34	000~100	3A 30 31 47 34 30 30 0D	3A 30 31 72 34 30 35 30 0D	E.g. current contrast is 50
Brightness	35	000~100	3A 30 31 47 35 30 30 0D	3A 30 31 72 35 30 35 30 0D	E.g. current brightness is 50
Sharpness	36	000~100	3A 30 31 47 36 30 30 0D	3A 30 31 72 36 30 31 30 0D	E.g. current sharpness is 10
Sound Mode	37	000 : Movie	3A 30 31 47 37 30 30 0D	3A 30 31 72 37 30 30 0D	
		001 : Standard		3A 30 31 72 37 30 30 0D	
		002 : Custom		3A 30 31 72 37 30 30 0D	
		003 : Classroom		3A 30 31 72 37 30 30 0D	
		004 : Meeting		3A 30 31 72 37 30 30 0D	
Volume	38	000~100	3A 30 31 47 38 30 30 0D	3A 30 31 72 38 30 35 30 0D	
Mute	39	000: Off	3A 30 31 47 39 30 30 0D	3A 30 31 72 39 30 30 0D	
		001: On		3A 30 31 72 39 30 30 0D	
Video Source	3A	000 : VGA	3A 30 31 47 3A 30 30 0D	3A 30 31 72 3A 30 30 0D	
		001 : HDMI1		3A 30 31 72 3A 30 30 0D	
		002: HDMI2		3A 30 31 72 3A 30 30 0D	
		003 : AV		3A 30 31 72 3A 30 30 0D	
		022 : HDMI4		3A 30 31 72 3A 30 32 0D	
		021 : HDMI3		3A 30 31 72 3A 30 32 0D	
		031 : VGA2		3A 30 31 72 3A 30 33 0D	
		032 : VGA3		3A 30 31 72 3A 30 33 0D	
		051 : ATV		3A 30 31 72 3A 30 35 0D	
		101 : Android		3A 30 31 72 3A 31 30 0D	
		103 : Slot in PC		3A 30 31 72 3A 31 30 0D	
		007 : Display Port		3A 30 31 72 3A 30 37 0D	
		102 : Android Slot		3A 30 31 72 3A 31 30 0D	
		104 : Type C1		3A 30 31 72 3A 31 30 0D	
		105 : Type C2		3A 30 31 72 3A 31 30 0D	
		106 : DTV		3A 30 31 72 3A 31 30 0D	
		107 : YPRBR		3A 30 31 72 3A 31 30 0D	

Event	Cmd (Hex)	Value	Command (HEX, Default ID is 1)	Reply	Description
Aspect Ratio	3B	000 : 16:9	3A 30 31 47 3B 30 30 30 0D	3A 30 31 72 3B 30 30 30 0D	
		001 : 4:3		3A 30 31 72 3B 30 30 31 0D	
		002 : PTP		3A 30 31 72 3B 30 30 32 0D	
Language	3C	000: English	3A 30 31 47 3C 30 30 30 0D	3A 30 31 72 3C 30 30 30 0D	
		001: French		3A 30 31 72 3C 30 30 31 0D	
		002: Spanish		3A 30 31 72 3C 30 30 32 0D	
		003: Chinese (Traditional)		3A 30 31 72 3C 30 30 33 0D	
		004: Chinese (Simplified)		3A 30 31 72 3C 30 30 34 0D	
		005: Portuguese		3A 30 31 72 3C 30 30 35 0D	
		006: German		3A 30 31 72 3C 30 30 36 0D	
		007: Dutch		3A 30 31 72 3C 30 30 37 0D	
		008: Polish		3A 30 31 72 3C 30 30 38 0D	
		009: Russian		3A 30 31 72 3C 30 30 39 0D	
		010: Czech		3A 30 31 72 3C 30 31 30 0D	
		011: Danish		3A 30 31 72 3C 30 31 31 0D	
		012: Swedish		3A 30 31 72 3C 30 31 32 0D	
		013: Italian		3A 30 31 72 3C 30 31 33 0D	
		014: Romanian		3A 30 31 72 3C 30 31 34 0D	
		015: Norwegian		3A 30 31 72 3C 30 31 35 0D	
		016: Finnish		3A 30 31 72 3C 30 31 36 0D	
		017: Greek		3A 30 31 72 3C 30 31 37 0D	
		018: Turkish		3A 30 31 72 3C 30 31 38 0D	
		019: Arabic		3A 30 31 72 3C 30 31 39 0D	
		020: Japanese		3A 30 31 72 3C 30 32 30 0D	
		021: Ukrainian		3A 30 31 72 3C 30 32 31 0D	
		022: Korean		3A 30 31 72 3C 30 32 32 0D	
		023: Hungarian		3A 30 31 72 3C 30 32 33 0D	
		024: Persian		3A 30 31 72 3C 30 32 34 0D	
		025: Vietnamese		3A 30 31 72 3C 30 32 35 0D	
		026: Thaiandese		3A 30 31 72 3C 30 32 36 0D	
		027: Catalan		3A 30 31 72 3C 30 32 37 0D	
		028: Lithuanian		3A 30 31 72 3C 30 32 38 0D	
		029: Croatian		3A 30 31 72 3C 30 32 39 0D	
		030: Estonian		3A 30 31 72 3C 30 33 30 0D	

Event	Cmd (Hex)	Value	Command (HEX, Default ID is 1)	Reply	Description
Picture Mode	3D	000 : Standard	3A 30 31 47 3D 30 30 30 0D	3A 30 31 72 3D 30 30 30 0D	
		001 : Bright		3A 30 31 72 3D 30 30 31 0D	
		002 : Soft		3A 30 31 72 3D 30 30 32 0D	
		003 : Customer		3A 30 31 72 3D 30 30 33 0D	
Hue (Color)	3E	000~100	3A 30 31 47 3E 30 30 30 0D	3A 30 31 72 3E 30 33 30 0D	
Backlight	3F	000~100	3A 30 31 47 3F 30 30 30 0D	3A 30 31 72 3F 30 35 30 0D	
Color Temp	40	000 : Cool	3A 30 31 47 40 30 30 30 0D	3A 30 31 72 40 30 30 30 0D	
		001 : Standard		3A 30 31 72 40 30 30 31 0D	
		002 : Warm		3A 30 31 72 40 30 30 32 0D	
Reomte control(IR)	42	000: Enable	3A 30 31 47 42 30 30 30 0D	3A 30 31 72 42 30 30 30 0D	
		001: Disable		3A 30 31 72 42 30 30 31 0D	
Spearker	43	000 : Off	3A 30 31 47 43 30 30 30 0D	3A 30 31 72 43 30 30 30 0D	
		001 : On		3A 30 31 72 43 30 30 31 0D	
HDCP1.X	0x53	000	3A 30 31 47 53 30 30 30 0D	3A 30 31 72 53 30 20 ** 0D	
HDCP2.X		001	3A 30 31 47 53 30 30 31 0D	3A 30 31 72 53 31 20 ** 0D	
Machine SN		002	3A 30 31 47 53 30 30 32 0D	3A 30 31 72 53 32 20 ** 0D	
MAC		003	3A 30 31 47 53 30 30 33 0D	3A 30 31 72 53 33 20 ** 0D	
Model Name		004	3A 30 31 47 53 30 30 34 0D	3A 30 31 72 53 34 20 ** 0D	
Model Version		005	3A 30 31 47 53 30 30 35 0D	3A 30 31 72 53 35 20 ** 0D	
Board SN		006	3A 30 31 47 53 30 30 36 0D	3A 30 31 72 53 36 20 ** 0D	
Region		007	3A 30 31 47 53 30 30 37 0D	3A 30 31 72 53 37 20 ** 0D	
Touch		44	000 : Off	3A 30 31 47 44 30 30 30 0D	3A 30 31 72 44 30 30 30 0D
	001 : On		3A 30 31 72 44 30 30 31 0D		
Screen	45	000 : Off	3A 30 31 47 45 30 30 30 0D	3A 30 31 72 45 30 30 30 0D	
		001 : On		3A 30 31 72 45 30 30 31 0D	
No Singal power off	46	0~60	3A 30 31 47 46 30 30 30 0D	3A 30 31 72 46 30 3* 3* 0D	
On/Off Timer	47	"(1) Byte1[3:0]: The Number of the On/Off Timer. There are totally 7 On/Off Timers, and this byte is used to selected which timer is going to be accessed. (2) Byte1[7:4] is reserved, should be 0. (3) Byte2~15 are reserverd, should be 0x00."	3A 30 31 47 47 01 00 00 00 00 00 00 00 00 00 00 00 0D		
Hdmi Out encryption mode	50	000 : Off	3A 30 31 47 50 30 30 30 0D	3A 30 31 72 50 30 30 30 0D	
		001 : Auto		3A 30 31 72 50 30 30 31 0D	
		002 : Hdcp1.4		3A 30 31 72 50 30 30 32 0D	



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