

U-11 Remote control

2) Control command diagram

The command is structured by the address code, function code, data code and end code. The length of the command is different for each function.

NOTE:

This example shows a basic command that is used when a single computer and a single monitor are connected.

When you want to connect multiple monitors or perform complicated control using other commands than the basic commands, contact your dealer for advanced command specifications.

	Address code	Function code	Data code	End code
HEX	30h 30h	Function	Data	0Dh
ASCII	'0' '0'	Function	Data	↵

[Address code] 30h 30h (ASCII code, '0' '0'), fixed.

[Function code] Code unique to each control function.

[Data code] Data unique to each control function (Not always indicated by numerical values.)

[End code] 0Dh (In ASCII code, ↵) fixed.

3) Control sequence

- (1) A command is sent from the computer to the monitor. (Commands should be sent at intervals of at least 600 ms.)
- (2) The monitor sends a return command within 600 ms* after receiving and encoding the command. If the monitor fails to receive the command, it doesn't send any return command.
- (3) The computer checks the return command to see that the command it sent was executed or not.
- (4) The monitor sends various codes other than the return code. While RS-232C control sequence is in progress, reject other codes on the personal computer side.

*: Transmission of the return command may be delayed during signal switchover, etc.

Example: Turn the power ON (' ' is for ASCII code)

Command from computer	Command from monitor	Detail of command
30 30 21 0D '0' '0' '!' ↵		Command for POWER ON
	30 30 21 0D '0' '0' '!' ↵	Command received (Command echoed back)

4) Operation commands

The operation commands configure the basic operation settings of this LCD monitor. The commands may not work during signal switchover.

The operation commands have no data codes.

Operation	ASCII	HEX
POWER ON	!	21h
POWER OFF	"	22h
INPUT RGB 1	_r1	5Fh 72h 31h
INPUT RGB 2	_r2	5Fh 72h 32h
INPUT RGB 3	_r3	5Fh 72h 33h
INPUT RGB 4	_r4	5Fh 72h 34h
INPUT RGB 5	_r5	5Fh 72h 35h
INPUT RGB 6	_r6	5Fh 72h 36h
INPUT VIDEO	_v1	5Fh 76h 31h
INPUT DVD/HD	_v2	5Fh 76h 32h
INPUT S-VIDEO	_v3	5Fh 76h 33h
VOLUME UP	r06	72h 30h 36h
VOLUME DOWN	r07	72h 30h 37h
MUTE	ra6	72h 61h 36h
AUTO SETUP	r09	72h 30h 39h

- POWER OFF command should be operated over 1 minute after the power is turned on.
- POWER ON command should be operated over 1 minute after the power is turned off.
- After sending any of the video input selection commands, wait for at least 10 seconds to send the next command.

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5) Read command

The computer sends the command without datacode to the monitor.

After receiving this command, the monitor returns the command with datacode including the current status to the computer.

Example: When the computer asks the power status of the monitor, and the status of the monitor is powered-on.

Command from computer	Command from monitor	Detail of command
30 30 76 50 0D '0'0'v'P'[enter]		Ask about the power status of the monitor.
	30 30 76 50 31 0D '0'0'v'P'1'[enter]	Monitor is powered-on.

Structure of the Read-command

			ASCII		HEX	
			Function	Data (Receive)	Function	Data (Receive)
POWER	ON		vP	1	76 50	31
	OFF (stand by)		vP	0	76 50	30
Input	RGB-1 (HDMI)		vl	r1	76 49	72 31
	RGB-2 (DVI-D)		vl	r2	76 49	72 32
	RGB-3 (D-SUB)		vl	r3	76 49	72 33
	RGB-4 (BNC)		vl	r4	76 49	72 34
	RGB-5 (CAT5)		vl	r5	76 49	72 35
	RGB-6 (DISPLAY PORT)		vl	r6	76 49	72 36
	Video		vl	v1	76 49	76 31
	DVD/HD		vl	v2	76 49	76 32
	S-VIDEO		vl	v3	76 49	76 33
Internal temperature	Around the main board	Resolution 1°C	tc1	(ex.) +25	74 63 31	2B 20 32 35
	Around the power supply	Resolution 1°C	tc2	(ex.) +31	74 63 32	2B 20 33 31