EP719 Series RS232 Protocol Function List

Updated from V.A01

Interface

3 wires RS-232C Protocol
Baud Rate: 9600 Data Bits: 8 Parity: None Stop Bits: 1 Flow Control: None

Command Sequence

Write	**Basic Protocol**
Header:	'*'
Address Code:	'0' fixed
Command Code:	ASCII Text
Data:	Fixed 3 digits
Terminator Code:	Carriage Return
~~Delimiter: Space~~	~~Carriage Return~~

Acknowledgement

	Basic Protocol
Receive OK	″*000<CR>″
~~Unknown Command~~	~~″*255<CR>″~~
Invalid Command	″*001<CR>″
~~In current source~~	
~~Data value out of range~~	~~″*002<CR>″~~
Data response	As Write Command Format

Function List

	Basic(Original)	**Basic (Update)**
Power On	* 0 IR 001	**OKOKOKOKOK**
Power Off	* 0 IR 002	* 0 IR 002
~~Source PC~~	~~* 0 IR 003~~	~~* 0 IR 003~~
Keystone	* 0 IR 004	* 0 IR 004
~~Zoom~~ (*3)	~~* 0 IR 005~~	~~* 0 IR 005~~
Mute	* 0 IR 006	* 0 IR 006
Freeze	* 0 IR 007	* 0 IR 007
Menu	* 0 IR 008	* 0 IR 008
Up	* 0 IR 009	* 0 IR 009
Down	* 0 IR 010	* 0 IR 010
Right	* 0 IR 011	* 0 IR 011
Left	* 0 IR 012	* 0 IR 012
Enter	* 0 IR 013	* 0 IR 013
Re-Sync	* 0 IR 014	* 0 IR 014
Source Analog RGB for D-sub	* 0 IR 015	* 0 IR 015
Source Digital RGB	* 0 IR 016	* 0 IR 016
Source HDTV (YPbPr) for D-sub	* 0 IR 017	* 0 IR 017
Source S-Video	* 0 IR 018	* 0 IR 018
Source Composite Video	* 0 IR 019	* 0 IR 019
Source Component Video	* 0 IR 020	* 0 IR 020
Aspect ratio 16: 9	* 0 IR 021	* 0 IR 021
Aspect ratio 4: 3	* 0 IR 022	* 0 IR 022
Volume +	* 0 IR 023	* 0 IR 023
Volume –	* 0 IR 024	* 0 IR 024
Brightness	* 0 IR 025	* 0 IR 025
Contrast	* 0 IR 026	* 0 IR 026

Color Temperature	* 0 IR 027	* 0 IR 027
Source Analog RGB for DVI Port (*4)	* 0 IR 028	* 0 IR 028
Source Analog YPbPr for DVI Port (*4)	* 0 IR 029	* 0 IR 029

Read (Query) Command

	Basic	**Return Status**	**Mean**
Lamp Status	* 0 Lamp ?	Lamp 0 Lamp 1	Lamp Off Lamp On
	* 0 Lamp	0000	Get the Lamp Hours
Source	* 0 Src ?	Src 0 Src 1 Src 2 Src 3 Src 4 Src 5 Src 6	No signal connect Analog RGB display Digital RGB display HDTV display S-Video display Composite Video Display Component Video display

PS: 1. Original command is (``*_0_IR_002\r\n``,12)

2. Command for ``**Power On**'' only is (``**OKOKOKOKOK**\r\n``,12),

*3. Not support

*4. Select to DVI

Silent Mode RS232 Implementation

The objective of silent mode is intended for professional presentation so that the OSD will not pop up to interfere with presentation.

To further enhance the viewing experience of the audience – more precise commands are added to minimize the disruption during a source change.

Furthermore, to avoid confusion with old RS232 commands and possible software maintenance problem the silent OSD are implemented using new RS232 commands. The side benefit of this implementation is user choose silent OSD or non-silent OSD just by invoking different RS232 commands

IR 030 source lock on
IR 031 source lock off
IR 032n source select n=1 is DVI-D
n=2 is DVI-RGB (*1)
n=3 is DVI-YPbPr (*1)
n=4 is D-sub RGB
n=5 is D-sub YPbPr (include 480i, 480p, 720p, 1080i, 576i, 576p)
n=6 is D-sub SCART
n=7 is RCA YPbPr (include 480i, 480p, 720p 1080i, 576i, 576p)(*2)
n=8 is composite
n=9 is S-video
IR 033n aspect ratio n=1 is 4:3
n=2 is 16:9
n=3 is window = 4:3 inside 16:9
~~n=4 is letterbox~~
IR 034nn brightness nn= 00-99, 99 is the brightest
IR 035nn contrast nn=00-99, 99 is highest contrast
IR 036nn volume nn=00-99, 99 is loudest
IR 037nn zoom nn=0-31, 31 is maximum zoom
IR 038n color temperature n=1 is low
n=2 is medium
n=3 is high
n=4

New read commands (not related to silent mode)

~~ID ? returns ID x x= any unique ID such as serial no.~~

Hour? returns "HR nnnn\r" nnnn= lamp hours in 4 digits

*1: select to DVI

*2: Not support