



Orchestra²

Programmer's Guide

For version v4.00 build 52



ANALOG WAY®
Pioneer in Analog, Leader in Digital

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1 INTRODUCTION

The Orchestra allows communication through an ASCII code protocol. It treats any character that it receives on the LAN (TCP/UDP) as a possible command but only accepts legal commands.

There is no starting/ending code needed in a command string. A command can be a single character typed on a keyboard and does not require any special character before or after it. (It is not necessary to press "ENTER" on the keyboard). A command can be preceded by a value (See chapter A-2). A command is case sensitive.

When the Orchestra receives a valid command, it will be executed. Then it will send back the status of the parameters that have changed due to this command. If the command cannot be executed (value out of range, device not ready, etc), the Orchestra will just send back the current status of the corresponding parameters. If the command is invalid, an error response will be returned. All responses end with a carriage return <CR> and a line feed <LF> signaling the end of the response character string (see chapter A-3).

2 REFERENCES

- ORCHESTRA² firmware updater (on [ANALOG WAY](#) web site)
- ORCHESTRA² reference manual (on [ANALOG WAY](#) web site)
- ORCHESTRA² quick start guide (on [ANALOG WAY](#) web site)

3 COMMAND STRUCTURE

- Write/Set: [[index,] ...][Value][Command]
- Read/Get: [[index,] ...][Command]
- Answer: [Command][[index,] ...][Value]

Some commands are "global" and do not require any index. Other commands might need indexes to specify which screen/element/matrix... need to be affected. Each index should be followed by a comma.

4 COMMAND LIST

	Command	Answer	Description	Access	Min	Max	Index 1	Index 2	Index 3	Value
SYSTEM	?	DEV	Device Type	Read	77	77				77 = Orchestra ²
	#	#	Request all current commands values	Read Write	0	1				1 = Request >> 0 when completed
	rO	rO	Orchestra Ready Status	Read	0	1				1 = Ready
	rS	rS	Screen Ready Status	Read	0	1	0 = Screen1 ... 5 = Screen6			1 = Ready
	rM	rM	Matrix Ready Statux	Read	0	1	0 = MatrixId1 ... 15 = MatrixId16			1 = Ready

	Command	Answer	Description	Access	Min	Max	Index 1	Index 2	Index 3	Value
VERSION	vF	vF	Firmware Version	Read	0	65535				
	vC	vC	Command List Version	Read	0	65535				

	Command	Answer	Description	Access	Min	Max	Index 1	Index 2	Index 3	Value
PRESET	PM	PM	Loading Mode	Read Write	0	1				0 = Load everything from the Memory 1 = Load a Memory without its sources
	PA	PA	Load a Preset Memory with its screen filter and configure the Preview	Read Write	0	64				0 = None 1 = Load Memory #1 ... 64 = Load Memory #64
	PL	PL	Load a Preset Memory using current screen filter and configure the Preview	Read Write	0	64				0 = None 1 = Load Memory #1 ... 64 = Load Memory #64
	SS	SS	Switch a source per Screen/EltType/EltIndex and configure the Preview	Read Write	0	64	0 = Screen1 ... 5 = Screen6	0 = BG Frame 1 = BG Live 2 = PIP 3 = Logo	0 = Elt 1 ... 15 = Elt 16	0 = None 1 = Source #1 ... 64 = Source #64
	SA	SA	Autocentering request of an element's source per Screen / EltType / EltIndex	Read Write	0	1	0 = Screen1 ... 5 = Screen6	0 = BG Frame 1 = BG Live 2 = PIP 3 = Logo	0 = Elt 1 ... 15 = Elt 16	1 = Autocentering >> 0 when completed

	Command	Answer	Description	Access	Min	Max	Index 1	Index 2	Index 3	Value
PRESET CONTROL	SF	SF	Screen Filter (Disable / Enable Preset Load and Take per Screen)	Read Write	0	1	0 = Screen1 ... 5 = Screen6			1 = Enabled
	TK	TK	Take as soon as devices are ready	Read Write	0	1				1 = Take >> 0 when completed

	Command	Answer	Description	Access	Min	Max	Index 1	Index 2	Index 3	Value
OLD	PF	PF	! Obsolete ! = SF command	Read Write	0	1	0 = Screen1 ... 5 = Screen6			1 = Enabled

5 EXAMPLES

Write command		Answer	Description
Value	Characters		
10	PL	PL10<CR><LF>	Load the Preset Memory #10

Write command					Answer	Description
Index	Index	Index	Value	Characters		
2,	2,	4,	6	SS	SS2,2,4,6<CR><LF>	Put the source #6 into the 5th PIP of screen #3

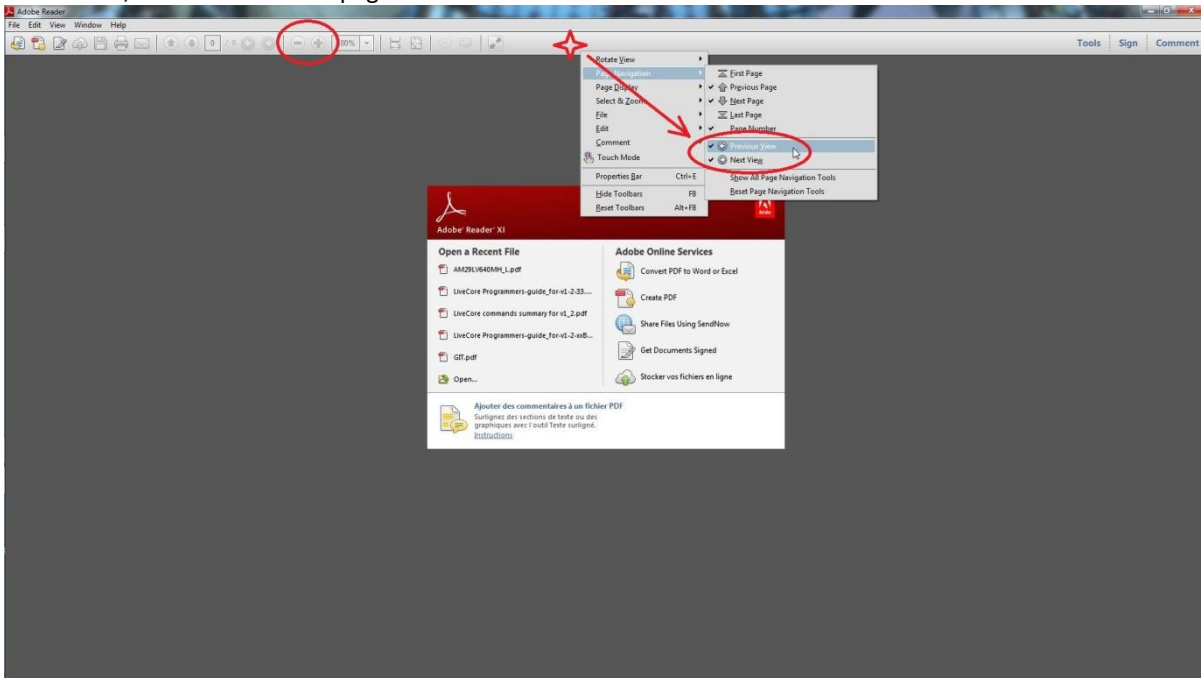
Read command		Answer	Description
Character			
?		DEV77<CR><LF>	Get the Device Type (77=ORC50)

Read command		Answer	Description
Index	Characters		
0,	rS	rS0,1<CR><LF>	Get the status of screen#1 (1=Ready)

6 USING THIS DOCUMENT

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