

SIM 2 C3X Lumis series projectors version 2.01

This driver provides 2-way communication to the SIM2 C3X Lumis series projectors delivered by SIM 2, Italy

Grand Cinema C3X Lumis series projectors are high end devices for residential and commercial use. The projectors are featured with a 3-chip full HD panel with Darkchip4 DMD. For more information visit website

<http://www.sim2.com/home/en/content/c3x-lumis>



The driver supports fully range of RS232 command set version 1.1 from 18th September 2009 in combination with the legacy IR-Control. To update two-way feedback a complex polling mechanism is used. The parameters are enhanced with special functions like service interval events and others. See parameters below

Driver operates in **trial mode** as long as the right license number is not typed in. Trial Mode enables only one-way sending command without feedback and events. However, integrators can create the whole project, even if driver is running in trial mode. Driver is licensed per controller. To control multiple devices use different instances of this driver with different projectors. Please avoid enabling multiports using a Globalcache device. Multiple polling results in disfunction or faulty feedback.

Important: Use driver at your own risk! No warranty given by the author, especially to damages, which occurred with this driver. Integrators are fully responsible, when using this driver in their projects.
Driver support only within RTI Integrator forum: <http://forums.rticorp.com>

Configuration

General Settings

Choose connection type

Native serial or serial via Globalcache device

All Globalcache devices with serial ports are supported.

Serial parameters of the devices must be set up first with

baudrate = 19200, flow control = none, parity = none,

Data bits = 8, Stop bits = 1.

Choose RS232 Port which communicate to gateway.

Enter IP-Address of the device (hint:make sure it is a static one)

Enter Portaddress which matched to the serial port of the device

S1: 4999, S2:5000,

For more information refer to Globalcache device documentation

Choose polling time interval in seconds

Fill in license number or omit for trial mode

Define service intervals

Enter Unit service interval in hours

used with the specific event or variable

Lamp service interval in hours

used with the specific event or variable

Variables

Driver information

MacAddress of Controller as **string**

License mode as **boolean**

false = trial

true = licensed

Update interval as **integer** with string assignment

0:5 sec.

1:10 sec.

2:15 sec.

3:30 sec.

4:45 sec.

5:60 sec.

6:90 sec.

7:120 sec.

8:300 sec.

9:600 sec.

Unit service flag set as **boolean**

Lamp service flag set as **boolean**

Unit service time elapsed as **integer**

Lamp service time elapsed as **integer**

Projector status

Powered on as **boolean**

Brightness as **integer**

Contrast as **integer**

Color as **integer**

Tint as **integer**

Overscan as **integer**

Cinema mode as **boolean**

Color management primaries as **integer** with string assignment

0:Native

1:HDTV

2:EBU

3:SMPTE-C

4:Auto

5:not applicable

Color management white point as **integer** with string assignment

0:High

1:Medium

2:Low

3:Native

4:User

5:not applicable

10:Standard

11:D65

12:D50

13:C

14:D75

Gamma as **integer** with string assignment

0:EN3

1:EN4

2:n/a

4:EN5

5:GR1

6:ST1

7:GR2

8:EN1
9:EN2
13:User
Dynamic black on as **boolean**
Variable Iris closed as **boolean**
Variable Iris value as **integer**
Lamp power as **integer**
Device status as **integer** with string assignment
0:Standby
1:On
2:Lamp ignition
3:Lamp restrike
4:Lamp cooling
5:Starting
6:not applicable
7:On requested
8:Off requested
Input status as **integer** with string assignment
0:Signal OK
1:No signal
2:Signal out of range
3:not applicable
Current input as **integer** with string assignment
0:Video
1:not applicable
2:S-Video
4:YPrPb
5:RGB
12:Graphics YPrPb
13:Graphics RGB
18:HDMI 1
19:HDMI 2
Input status as **integer** with string assignment
0:Signal OK
1:No signal
2:Signal out of range
3:not applicable
Lamp status as **integer** with string assignment
0:Off
1:Ignition
2:On
3:not applicable
Lamp ignition as **boolean**
Lamp cooling as **boolean**
Projector fully started as **boolean**
No signal detected as **boolean**
Unit working hours as **integer**
Lamp working hours as **integer**

Functions

Remote Control

Off
On, Key 0
Key1
Key2
Key3
Key4
Key5
Key6
Key7
Key8
Key9
Select (*)
ESC
Arrow up
Arrow left
Arrow right
Arrow down
Freeze
Memory
F1
F2
Info
Auto
Aspect

Picture settings

Function
Brightness
Contrast
Color
Tint
Overscan
Mode
Increment
Decrement
Get status

Cinema

Off
Auto
Get status

Aspect

Normal
Anamorphic
Letterbox
Panoramic
Subtitle
Pixel to Pixel
User 1
User 2
User 3

Color Management Primaries

Native
HDTV
EBU
SMTPE-C
Auto
Get status

Color Management white point

Standard
High
Medium
Low
Native
D75
D65
D50
C
User
Get status

Gamma

ST1
EN1
EN2

Dynamic black

Off
On
Get status

EN3
EN4
EN5
GR1
GR2
User
Get Status

Variable Iris

0
10
20
30
40
50
60
70
80
90
100

Lamp power

230
240
250
260
270
280
Get status

Memories

Memory 1
Memory 2
Memory 3
Memory 4
Memory 5
Memory 6

Status Commands

Projector status
Signal status
Lamp status

Reset service flags

Unit service flag
Lamp service flag

Events

Projector events

Power on
Power off
No signal detected
Signal OK
Signal out of range
Lamp ignition
Lamp cooling
Projector fully started
Unit service interval achieved
Lamp service interval achieved

Known Issues and Limitations

-- none

Special Hint

To use the feature service interval, a lot of configuration is required. First, a value greater than 99 must be entered in the configuration settings for unit service interval and/or lamp service interval. This value determines the interval hours. For example: If a value 1000 is used, every 1000 hours an event will be fired once (if configured) and the especially service interval flag is set. Use specific commands to reset the flag. In addition, integrators can use an integer value with text or bar graph to visualize interval status.

Have success and a bit of fun using the driver
Ottmar Konrad on behalf of digital4home OHG, Germany
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