RS232 and Network Command Catalog

For JSON RPC/Pulse Based Projectors

For F80

End User

Reference guide

1.7

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Pulse API

This document describes the application programmers interface to **Pulse** projectors.

How to connect to the projector, the communication protocol and a programmers guide is presented in the following section.

Introduction

The facade API is based on the JSON-RPC 2.0 protocol and provides access to **Pulse** services to clients. The services can be accessed through the network using the TCP/IP protocol, or using a RS232 serial cable.

Connecting to **Pulse** services

Network

If the projector is on a network, TCP/IP can be used to connect to **Pulse** services. The service is available on port number 9090.

Serial port

A serial cable can be connected to the projector in order to access the **Pulse** services.

Connect the projector and host using a standard serial cable with 9-pin female to the host, and 9-pin male to the projector. Pin 2 connects to pin 2, pin 3 connects to pin 3 and pin 5 connects to pin 5.

RS232 Communication Parameters

Parameter	Value
Baud rate	19200
Parity	None
Data bits	8
Stop bits	1
Flow control	None

Quick start guide

The following sections are examples of frequently used commands, just to get you started. This assumes that the connection is set up as described in the previous chapter. The type of connection is not important. The same commands are available for all connection types.

Power on projector

Request

```
{
  "jsonrpc": "2.0",
  "method": "system.poweron"
}
```

Power off projector

Request

```
{
  "jsonrpc": "2.0",
  "method": "system.poweroff"
}
```

Select DisplayPort 1 as input source

Request

```
{
  "jsonrpc": "2.0",
  "method": "property.set",
  "params": {
    "property": "image.window.main.source",
    "value": "DisplayPort 1"
  }
}
```

Select HDMI as input source

Request

```
{
  "jsonrpc": "2.0",
  "method": "property.set",
  "params": {
    "property": "image.window.main.source",
    "value": "HDMI"
  }
}
```

Object and method naming

Objects and members are named using dot notation in lowercase format (JavaScript-like notation). Members are either a method, property, signal or object. A typical method part of an invocation will then look like:

```
method: "foo.echo"
```

If there are more than one object of a "kind", it may be modeled and notated like:

```
tempctrl.fans
tempctrl.fans.mainfan
tempctrl.fans.lampblower
```

In the example above it is possible to get all fans by introspecting the object represented by `temptrl.fans`. Example: accessing the `rpm` property of the `mainfan`:

```
tempctrl.fans.mainfan.rpm
```

Type support

- Basic types
  - string (e.g. "hello")
  - integer (e.g 114)
  - float (e.g 3.141592653589793)
  - boolean (e.g true)
- Container types
  - array (e.g ["hello", "world"])
  - object (e.g {"name": "Johnny", "age": 30, "children": ["Agnes", "Tim"] })
  - dictionary with string key (e.g gold medals in 2018 Winter Olympics Peyongchang {"Norway": 13, "Germany": 13 })

Parameters

All parameters are passed by name, but the position or order of the parameters doesn't matter.

Thus:

```
{
  "jsonrpc": "2.0",
  "method": "property.set",
  "params": {
    "property": "image.window.main.source",
    "value": "DisplayPort 1"
  }
}
```

is exactly the same as:

```
{
  "method": "property.set",
  "jsonrpc": "2.0",
  "params": {
    "value": "DisplayPort 1",
    "property": "image.window.main.source"
  }
}
```

Authentication

A client session must start with an authentication request containing a secret pass code. The purpose of the authentication protocol is to set the user access level. Authentication is only necessary when a higher level than normal end user is required. For normal end user access the authentication can be skipped. To authenticate with the server use the following type of request.

Request

```
{
  "jsonrpc": "2.0",
  "method": "authenticate",
  "params": {
    "code": 98765
  },
  "id": 1
}
```

Response

```
{
  "jsonrpc": "2.0",
  "result": true,
  "id": 1
}
```

Service API

Property	Type	Required	Comments
`jsonrpc`	`string`	yes	`2.0`
`method`	`string`	yes	see below
`params`			see below
`id`	`string | number`	no	Request identifier
`error`	`object`	yes, if error	Error object - see JSON-RPC 2.0

Methods

Method invocation API

Request

```
{
  "jsonrpc": "2.0",
  "method": "ledctrl.blink",
  "params": {
    "led": "systemstatus",
    "color": "red",
    "period": 42
  },
  "id": 3
}
```

Response

```
{
  "jsonrpc": "2.0",
  "result": 0,
  "id": 3
}
```

Properties

API for setting and getting property values

Set value of a property

Request

```
{
  "jsonrpc": "2.0",
  "method": "property.set",
  "params": {
    "property": "objectname.propertyname",
    "value": 100
  },
  "id": 3
}
```

Response

```
{
  "jsonrpc": "2.0",
  "result": true,
  "id": 3
}
```

It is best practice to wait for the confirmation of the `property.set` before setting the same property again. Continuously setting the same property without waiting for confirmation may flood the server with unnecessary request and may reduce performance.

Read the value of a property

Request

```
{
  "jsonrpc": "2.0",
  "method": "property.get",
  "params": {
    "property": "objectname.propertyname"
  },
  "id": 4
}
```

Response

```
{
  "jsonrpc": "2.0",
  "result": 100,
  "id": 4
}
```

Read values of multiple properties

Request

```
{
  "jsonrpc": "2.0",
  "method": "property.get",
  "params": {
    "property": [
      "image.brightness",
      "image.contrast"
    ]
  },
  "id": 5
}
```

Response

```
{
  "jsonrpc": "2.0",
  "result": {
    "image.brightness": 0,
    "image.contrast": 1
  },
  "id": 5
}
```

Observe changes on one property

For change notifications, see Notifications

Request

```
{
  "jsonrpc": "2.0",
  "method": "property.subscribe",
  "params": {
    "property": "image.brightness"
  },
  "id": 6
}
```

Response

```
{
  "jsonrpc": "2.0",
  "result": true,
  "id": 6
}
```

Observe changes on multiple properties

For change notifications, see Notifications

Request

```
{
  "jsonrpc": "2.0",
  "method": "property.subscribe",
  "params": {
    "property": [
      "image.brightness",
      "image.contrast"
    ]
  },
  "id": 7
}
```

Response

```
{
  "jsonrpc": "2.0",
  "result": true,
  "id": 7
}
```

Stop observing one property

For change notifications, see Notifications

Request

```
{
  "jsonrpc": "2.0",
  "method": "property.unsubscribe",
  "params": {
    "property": "image.brightness"
  },
  "id": 8
}
```

Response

```
{
  "jsonrpc": "2.0",
  "result": true,
  "id": 8
}
```

Stop observing multiple properties

For change notifications, see Notifications

Request

```
{
  "jsonrpc": "2.0",
  "method": "property.unsubscribe",
  "params": {
    "property": [
      "image.brightness",
      "image.contrast"
    ]
  },
  "id": 9
}
```

Response

```
{
  "jsonrpc": "2.0",
  "result": true,
  "id": 9
}
```

Signals

Subscribe to a signal

For change notifications, see Notifications

Request

```
{
  "jsonrpc": "2.0",
  "method": "signal.subscribe",
  "params": {
    "signal": "modelupdated"
  },
  "id": 10
}
```

Response

```
{
  "jsonrpc": "2.0",
  "result": true,
  "id": 10
}
```

Subscribe to multiple signals

For change notifications, see Notifications

Request

```
{
  "jsonrpc": "2.0",
  "method": "signal.subscribe",
  "params": {
    "signal": [
      "modelupdated",
      "image.processing.warp.gridchanged"
    ]
  },
  "id": 11
}
```

Response

```
{
  "jsonrpc": "2.0",
  "result": true,
  "id": 11
}
```

Unsubscribe from a signal

For change notifications, see Notifications

Request

```
{
  "jsonrpc": "2.0",
  "method": "signal.unsubscribe",
  "params": {
    "signal": "modelupdated"
  },
  "id": 12
}
```

Response

```
{
  "jsonrpc": "2.0",
  "result": true,
  "id": 12
}
```

Unsubscribe from multiple signals

For change notifications, see Notifications

Request

```
{
  "jsonrpc": "2.0",
  "method": "signal.unsubscribe",
  "params": {
    "signal": [
      "modelupdated",
      "image.processing.warp.gridchanged"
    ]
  },
  "id": 13
}
```

Response

```
{
  "jsonrpc": "2.0",
  "result": true,
  "id": 13
}
```

Notifications

The client has to implement the notification API to retrieve notifications. Notification messages will not have an `id` and no response message must be returned.

Properties

The client must implement the `property.changed` function which receives an array of property/value pairs.

Notification

```
{
  "jsonrpc": "2.0",
  "method": "property.changed",
  "params": {
    "property": [
      {
        "objectname.propertyname": 100
      },
      {
        "otherobject.otherproperty": "bar"
      }
    ]
  }
}
```

Signals

The client must implement the `signal.callback` function which receives an array of signal/argument-list pairs.

Notification

```
{
  "jsonrpc": "2.0",
  "method": "signal.callback",
  "params": {
    "signal": [
      {
        "objectname.signalname": {
          "arg1": 100,
          "arg2": "cat"
        }
      },
      {
        "otherobject.othersignal": {
          "foo": "bar"
        }
      }
    ]
  }
}
```

Introspection API

Read metadata method

Metadata of available objects (methods, properties, signals) can be read out. The data is restricted by the client's authenticated access level. A typical usage for metadata is to set up OSD menus, etc. The format of the metadata is described here: API introspection data format.

Introspection API (recursive)

Request

```
{
  "jsonrpc": "2.0",
  "method": "introspect",
  "params": {
    "object": "foo",
    "recursive": true,
    "id": 1
  }
}
```

Response

```
{
  "jsonrpc": "2.0",
  "result": {
    "object": "foo",
    "methods": [
      {
        "name": "echo"
      }
    ],
    "more": ".... see API introspection data "
  },
  "id": 1
}
```

- or -

```
{
  "jsonrpc": "2.0",
  "method": "introspect",
  "params": [
    "foo",
    true
  ],
  "id": 1
}
```

Introspection API (non recursive)

Request

```
{
  "jsonrpc": "2.0",
  "method": "introspect",
  "params": {
    "object": "motors",
    "recursive": false,
    "id": 2
  }
}
```

Response

```
{
  "jsonrpc": "2.0",
  "result": {
    "name": "motors",
    "objects": [
      {
        "name": "motors.motor1"
      },
      {
        "name": "motors.motor2"
      },
      {
        "name": "motors.motor3"
      }
    ]
  },
  "id": 2
}
```

- or -

```
{
  "jsonrpc": "2.0",
  "method": "introspect",
  "params": [
    "motors",
    false
  ],
  "id": 2
}
```

Property	Type	Required	Comments
jsonrpc	string	yes	2.0
method	string	yes	introspect
params	object {"object": string}	no (default = "")	"object": name of object to introspect (dot notation allowed), default/empty will introspect everything. The object and string notations are equivalents.

Property	Type	Required	Comments
	`{"recursive": bool}`	no (default=true)	recursive": if false then only object names are listed (one level). This is convenient if you want to list collections of objects
`id`	`string | number`	no	Request identifier
`result`	`object`	yes	The full format of the result is described here API Introspection data format
`error`	`object`	if error	Error object - see JSON-RPC 2.0

Object changed signal

The introspect API provides a signal that triggers when new objects arrive, or when objects are removed. The name of the signal is: **`modelupdated`**. (See section Signals on how to subscribe and unsubscribe to signals.)

Subscribe to the model updated signal

Request

```
{
  "jsonrpc": "2.0",
  "method": "signal.subscribe",
  "params": {
    "signal": "modelupdated"
  },
  "id": 2
}
```

Response

```
{
  "jsonrpc": "2.0",
  "result": true,
  "id": 2
}
```

Callback method on client side

Notification

```
{
  "jsonrpc": "2.0",
  "method": "signal.callback",
  "params": {
    "signal": [
      {
        "introspect.objectchanged": {
          "object": "motors.motor1",
          "newobject": true
        }
      }
    ]
  }
}
```

Argument	Type	Decription
`object`	`string`	Name of object
`isnew`	`bool`	`true`: object is new, `false`: object is lost

File endpoints

Some objects provide endpoints for uploading or downloading various data types. For example, a warp grid can be uploaded to the warp engine.The objects that provide end points are found in the documentation below under the File endpoints headings.

To download a file from the projector, you must enter its URL. The URL is constructed from the following parts:

- `http://`
- Address of the projector. E.g: `192.168.1.100`
- `/api`
- File endpoint. E.g: `/image/processing/warp/file/transfer`

This will give you a URL that looks like this: `http://192.168.100/api/image/processing/warp/file/transfer`

Entering this URL in a browser will trigger a download from the projector and save the current warp grid to your download folder.

You can also use the `curl` program to do the same. E.g: `curl -O -J http://api/image/processing/warp/file/transfer`

Note that not all endpoints supports downloading the current file. In those cases you need to specify which file to download. E.g: `http://192.168.1.100/api/image/processing/warp/file/transfer/warpgrid.xml`

To upload a file to the projector, use the `curl` program, or some other tool that supports HTTP upload.To upload a warp grid to the projector from your local drive, enter the following command:

```
curl -F file=@warpgrid.xml http://192.168.1.100/api/image/processing/warp/file/transfer
```

You can also specify `-X POST` to the command, but in this case that's implied.

Programmers guide

This section describes common tasks for controlling the projector. For example, selecting input source and adjusting image properties.

Basic operation

This chapter describes basic operation such as powering on/off the projector.

Projector state

To get the current operation state from the projector, use the following command.

Request

```
{
  "jsonrpc": "2.0",
  "method": "property.get",
  "params": {
    "property": "system.state"
  },
  "id": 1
}
```

Response

```
{
  "jsonrpc": "2.0",
  "result": "on",
  "id": 1
}
```

The resulting value will be one of the following:

- `"boot"` - the projector is booting up
- `"eco"` - the projector is in ECO/power save mode
- `"standby"` - the projector is in standby mode
- `"ready"` - the projector is in ready mode
- `"conditioning"` - the projector is warming up
- `"on"` - the projector is on
- `"deconditioning"` - the projector is cooling down

To be notified when the state changes, a subscription must be requested, as shown in the following example.

Request

```
{
  "jsonrpc": "2.0",
  "method": "property.subscribe",
  "params": {
    "property": "system.state"
  },
  "id": 2
}
```

Response

```
{
  "jsonrpc": "2.0",
  "result": true,
  "id": 2
}
```

When ever there is a change in the state, the server will notify the client as shown in the next example.

Notification

```
{
  "jsonrpc": "2.0",
  "method": "property.changed",
  "params": {
    "property": [
      {
        "system.state": "ready"
      }
    ]
  }
}
```

Power on

To power on the projector, issue the following request.

Request

```
{
  "jsonrpc": "2.0",
  "method": "system.poweron",
  "params": {
    "property": "system.state"
  },
  "id": 3
}
```

Response

```
{
  "jsonrpc": "2.0",
  "result": null,
  "id": 3
}
```

Notice that the **result** is **null**. This is not an error, it's just that the method does not return a proper result. If there was an error, the response would contain an **error** member that contains information about the error that occurred.

Also notice that this method does not need any arguments, so the `params` member does not need to be present. Nothing bad happens if the `params` member is present. It will just be ignored.

If the projector already is on, or if it's in transition between states, nothing will happen. Therefore, it's good practice to verify that the projector state is either `standby` or `ready` before issuing the power on command.

Power off

To power on the projector, issue the following request.

Request

```
{
  "jsonrpc": "2.0",
  "method": "system.poweroff",
  "params": {
    "property": "system.state"
  },
  "id": 4
}
```

Response

```
{
  "jsonrpc": "2.0",
  "result": null,
  "id": 4
}
```

If the projector already is off, or if it's in transition between states, nothing will happen. Therefore, it's good practice to verify that the projector state is `on` before issuing the power off command.

Sources

The source input management is made up windows, sources and connectors. Each window has a source attached, and each source is made up of one or more connectors.

Active source

To get the name of the currently active source, use the following request.

Request

```
{
  "jsonrpc": "2.0",
  "method": "property.get",
  "params": {
    "property": "image.window.main.source"
  },
  "id": 0
}
```

Response

```
{
  "jsonrpc": "2.0",
  "id": 0,
  "result": "DisplayPort 1"
}
```

List available sources

To get a list of available sources, use the following request.

Request

```
{
  "jsonrpc": "2.0",
  "method": "image.source.list",
  "id": 1
}
```

Response

```
{
  "jsonrpc": "2.0",
  "id": 1,
  "result": [
    "DVI 1",
    "DVI 2",
    "DisplayPort 1",
    "DisplayPort 2",
    "Dual DVI",
    "Dual DisplayPort",
    "Dual Head DVI",
    "Dual Head DisplayPort",
    "HDBaseT",
    "HDMI",
    "SDI"
  ]
}
```

The response contains a list of all the available source names. The list contents will vary depending on the projector model.

Set the active source

To set the active source, first get the list of available sources as shown in the previous section. Then use the following request.

Request

```
{
  "jsonrpc": "2.0",
  "method": "property.2et",
  "params": {
    "property": "image.window.main.source",
    "value": "DisplayPort 1"
  },
  "id": 2
}
```

Response

```
{
  "jsonrpc": "2.0",
  "id": 2,
  "result": true
}
```

Connectors

The connectors are the physical input connectors of the projector. Available connectors depend on the projector

model.

To list all the available connectors, use the following request.

Request

```
{
  "jsonrpc": "2.0",
  "method": "image.connector.list",
  "id": 3
}
```

Response

```
{
  "jsonrpc": "2.0",
  "id": 3,
  "result": [
    "DVI 1",
    "DVI 2",
    "DisplayPort 1",
    "DisplayPort 2",
    "HDBaseT",
    "HDMI",
    "SDI"
  ]
}
```

To list the connectors used by a specific source, the source **object** name must be acquired. This can be done by translating the source name, or by introspection.

The easiest way is to translate the source name. Given the source name of `DisplayPort 1`, remove all non word characters and convert to all lower case characters. This can be done quite easy by using regular expressions. Example in **JavaScript** shown below.

```
const sourceName = 'DisplayPort 1';
const objectName = sourceName.replace(/\W/g, '').toLowerCase();
/* objectName is now 'displayport1' */
```

Now that we have the source object name, we can call the method that lists all the connectors used by this source.

Request

```
{
  "jsonrpc": "2.0",
  "method": "image.source.displayport1.listconnectors",
  "id": 4
}
```

Response

```
{
  "jsonrpc": "2.0",
  "id": 4,
  "result": [
    {
      "gridposition": {
        "row": 0,
        "column": 0,
        "plane": 0
      },
      "name": "DisplayPort 1"
    }
  ]
}
```

The result of the method is an array of connector information. This information contains the connector name and the grid position of the connector, which is useful when multiple connectors are used.

Source signal

Given a connector name of `DisplayPort 1`, this translated to a connector name of `displayport1`. We can then get signal information by using the following request.

Request

```
{
  "jsonrpc": "2.0",
  "method": "property.get",
  "params": {
    "property":
 "image.connector.displayport1.detectedsignal"
  },
  "id": 5
}
```

Response


```
{
  "jsonrpc": "2.0",
  "id": 5,
  "result": {
    "active": true,
    "name": "2560x1600 @ 50.10Hz",
    "vertical_total": 1638,
    "horizontal_total": 2720,
    "vertical_resolution": 1600,
    "horizontal_resolution": 2560,
    "vertical_sync_width": 6,
    "vertical_front_porch": 3,
    "vertical_back_porch": 29,
    "horizontal_sync_width": 32,
    "horizontal_front_porch": 48,
    "horizontal_back_porch": 80,
    "horizontal_frequency":
 82068.11653672549,
    "vertical_frequency":
 50.102710556641114,
    "pixel_rate": 223222961,
    "scan": "Progressive",
    "bits_per_component": 10,
    "color_space": "RGB",
    "signal_range": "0-255",
    "chroma_sampling": "4:4:4",
    "gamma_type": "POWER"
  }
}
```


Source and signal updates

To get updates when a new source is selected, or the signal on a connector change, you must listen forchanges on a number of properties.

Subscribe to the source property of the window

Request

```
{
  "jsonrpc": "2.0",
  "method": "property.subscribe",
  "params": {
    "property": "image.window.main.source"
  },
  "id": 6
}
```

Response

```
{
  "jsonrpc": "2.0",
  "id": 6,
  "result": true
}
```

This will generate a property change notification when ever there is a change in the active source. E.g when the user switches from `DisplayPort 1` to `DisplayPort 2`.

The JSON RPC client must therefore implement the property change listener in order to prcess the notification.

The JSON RPC servier will send notifications as shown below.

Notification

```
{
  "jsonrpc": "2.0",
  "method": "property.changed",
  "params": {
    "property": [
      {
        "image.window.main.source": ""
      }
    ]
  }
}
```

Notification

```
{
  "jsonrpc": "2.0",
  "method": "property.changed",
  "params": {
    "property": [
      {
        "image.window.main.source": "DisplayPort 2"
      }
    ]
  }
}
```

Note that two notifications are delivered in this case. First, when the previously selected source is deselected.Next, when the new source is selected.

Connector signal updates

To get updates when there is a change in the signal on sources connectors, each connector of the sourcemust have a listener for the signal detection property of the connector.

The recommended way to do this is to reflect the source and connector structure of the server in the client application.

That means:

- Store all the source names and object names
  - Call `image.source.list`
  - Translate the source names into source object names as shown in the beginning of the chapter
- For each source object
  - Call **`image.source.[name].listconnectors`**
  - Translate the connector names to connector object names
  - Maintain a list of connectors per source
- For each connector object
  - Subscribe to **`image.connector.[name].detectedsignal`**

When the notifications are received, match up the connector names with the connectors used by the active source and show the new information to the user.

Keep in mind that notifications are only sent when there is an actual change in a value. Simply subscribing to a property does not get the current value. To get the current value use the **`property.get`** method and specify which property you are interested in.

Illumination

This section describes how to set the lamp/LED/laser power of the projector.

Illumination state

To read the state of the illumination use the following commands.

Request

```
{
  "jsonrpc": "2.0",
  "method": "property.get",
  "params": {
    "property": "illumination.state"
  },
  "id": 0
}
```

Response

```
{
  "jsonrpc": "2.0",
  "id": 0,
  "result": "Off"
}
```

The result will be either `On` or `Off`. To receive notifications when the state changes, you need to subscribe. The following commands will request change notifications for the illumination state.

Request

```
{
  "jsonrpc": "2.0",
  "method": "property.subscribe",
  "params": {
    "property": "illumination.state"
  },
  "id": 1
}
```

Response

```
{
  "jsonrpc": "2.0",
  "id": 1,
  "result": true
}
```

The client needs to implement the property change listener to receive notifications.

When a change happens, the server will send the following notifications to the client.

Notification

```
{
  "jsonrpc": "2.0",
  "method": "property.changed",
  "params": {
    "property": [
      {
        "illumination.state": "On"
      }
    ]
  }
}
```

Illumination sources

Different projectors will have different types of illumination sources. Some will have lasers, others will have LEDs, or a combination of both, and yet others may have xenon or UHP lamps.

To query the available sources, you must do an **introspection** of the `illumination` object. The following command shows an example of that.

Request

```
{
  "jsonrpc": "2.0",
  "method": "introspect",
  "params": {
    "property": "illumination.sources",
    "recursive": false
  },
  "id": 2
}
```

Response

```
{
  "jsonrpc": "2.0",
  "id": 2,
  "result": {
    "objects": [
      {
        "name": "illuminations.sources.laser"
      }
    ]
  }
}
```

From the response, we can see that this projector has a laser illumination source. Each source has properties that give you information about the minimum, maximum and the current illumination power level.

The current power level can be read or written, the minimum and maxium power level are read only, but they are dynamic values and may change depending on the setting of the projector. The lens type and lens position may also affect the power levels.

To read the current power level, use the following commands.

Request

```
{
  "jsonrpc": "2.0",
  "method": "property.get",
  "params": {
    "property": "illumination.sources.laser.power"
  },
  "id": 3
}
```

Response

```
{
  "jsonrpc": "2.0",
  "id": 3,
  "result": 30
}
```

To be notified of changes in the power level, you must subscribe to property changes.

Request

```
{
  "jsonrpc": "2.0",
  "method": "property.subscribe",
  "params": {
    "property": [
      "illumination.sources.laser.power"
    ]
  },
  "id": 4
}
```

Response

```
{
  "jsonrpc": "2.0",
  "id": 4,
  "result": true
}
```

To set the value of the laser power, use the following command.

Request

```
{
  "jsonrpc": "2.0",
  "method": "property.set",
  "params": {
    "property": "illumination.sources.laser.power",
    "value": 40
  },
  "id": 5
}
```

Response

```
{
  "jsonrpc": "2.0",
  "id": 5,
  "result": true
}
```

After the confirmation of the value, a change notification is also sent.

Notification

```
{
  "jsonrpc": "2.0",
  "method": "property.changed",
  "params": {
    "property": [
      {
        "illumination.sources.laser.power": 40
      }
    ]
  }
}
```

To get the minimum and maximum power levels, use the following commands.

Request	Response

<pre>{
  "jsonrpc": "2.0",
  "method": "property.get",
  "params": {
  "property": "illumination.sources.laser.power"
  },
  "id": 5
}</pre>
	<pre>{
	  "jsonrpc": "2.0",
	  "id": 5,
	  "result": 100
	}</pre>

<pre>{
  "jsonrpc": "2.0",
  "method": "property.get",
  "params": {
  "property": "illumination.sources.laser.minpower"
  },
  "id": 6
}</pre>
	<pre>{
	  "jsonrpc": "2.0",
	  "id": 6,
	  "result": 0
	}</pre>

Picture settings

The image service has properties for controlling the image appearance. Like brightness, contrast, saturation and gamma.

This section describes how to set basic picture settings.

Brightness

Before setting any values it is a good idea to get some information about the properties. This is done with introspection.

Individual properties can not be introspected, so we must ask the owner of the property. In this case it is the image service.

To perform introspection of the image service, issue the following request.

Request

```
{
  "jsonrpc": "2.0",
  "method":
 "introspect",
  "params": {
    "object": "image",
    "recursive": false
  },
  "id": 6
}
```

Response


```
{
  "jsonrpc": "2.0",
  "id": 6,
  "result": {
    "name": "image",
    "properties": [
      {
        "name": "brightness",
        "type": {
          "base": "float",
          "min": -1,
          "max": 1,
          "step-size": 1,
          "precision": 0.01
        },
        "access": "READ_WRITE",
        "description": "Image brightness/offset. The value is normalized, 0 is
default, 1 is 100% offset."
      },
      {
        "more": "...trimmed for brevity"
      }
    ],
    "objects": [
      {
        "more": "...trimmed for brevity"
      }
    ]
  }
}
```


The result contains information about all the properties, objects and signals belonging to the image service.

Here we are only interested in the `brightness` property, so the rest of the response has been trimmed.

We can see that the `brightness` property has a `type` which is `float`. It also has some constraints that define the minimum and maximum values for the property. This information can be used to prevent sending out of range values to the server, and also give hints to the user when e.g using a slider to control the brightness value.

The `type` also has a `step-size`. This is a hint that can be used when incrementing or decrementing the value in a GUI application. The `step-size` is used as a factor to the `precision`. E.g for brightness we have a `precision` of `0.01` and a `step-size` of `1`. That means that when ever the user wants to increment the value, we can add `(step-size x precision)` to the current value.

To get the current brightness value, use the following request.

Request

```
{
  "jsonrpc": "2.0",
  "method": "property.get",
  "params": {
    "property": "image.brightness"
  },
  "id": 7
}
```

Response

```
{
  "jsonrpc": "2.0",
  "id": 7,
  "result": 0
}
```

To receive notification when the brightness value change, use the following subscription.

Request

```
{
  "jsonrpc": "2.0",
  "method": "property.subscribe",
  "params": {
    "property": [
      "image.brightness"
    ]
  },
  "id": 8
}
```

Response

```
{
  "jsonrpc": "2.0",
  "id": 8,
  "result": true
}
```

The set the brightness value, use the following request.

Request

```
{
  "jsonrpc": "2.0",
  "method": "property.set",
  "params": {
    "property": "image.brightness",
    "value": 0.15
  },
  "id": 9
}
```

Response

```
{
  "jsonrpc": "2.0",
  "id": 9,
  "result": true
}
```

In addition to the confirmation from the `property.set` method, a notification is also sent.

Notification

```
{
  "jsonrpc": "2.0",
  "method": "property.changed",
  "params": {
    "property": [
      {
        "image.brightness": 0.15
      }
    ]
  }
}
```

The set the other picture settings follow the same procedure as for brightness.

Warping with grid files

To globally enable warp, use the following command.

Request

```
{
  "jsonrpc": "2.0",
  "method": "property.set",
  "params": {
    "property": "image.processing.warp.enable",
    "value": true
  },
  "id": 10
}
```

Response

```
{
  "jsonrpc": "2.0",
  "id": 10,
  "result": true
}
```

Upload warp file

Send the warp grid file through `HTTP POST`. The following example is using `curl` to upload a file to the projector at address `192.168.1.100`.

```
curl -X POST -F file=@warp.xml http://192.168.1.100/api/image/processing/warp/file/transfer
```

Note that `-X POST` can be omitted since this is implied when using `-F`.

To select/activate the uploaded file, use the following command.

Request

```
{
  "jsonrpc": "2.0",
  "method": "property.set",
  "params": {
    "property": "image.processing.warp.file.selected",
    "value": "warp.xml"
  },
  "id": 11
}
```

Response

```
{
  "jsonrpc": "2.0",
  "id": 11,
  "result": true
}
```

Finally, the grid file warping must be enabled. To do this, use the following command.

Request

```
{
  "jsonrpc": "2.0",
  "method": "property.set",
  "params": {
    "property": "image.processing.warp.file.enable",
    "value": true
  },
  "id": 12
}
```

Response

```
{
  "jsonrpc": "2.0",
  "id": 12,
  "result": true
}
```

Warp file format

The warp file format is the same as on the MCM500/400.

Blending with images

In a multi channel setup, blending is required in order to get a seamless transition between the channels.

For this, blend edges can be configured, or one can use pre generated blend masks that are uploaded to the projector.

Uploading a blend mask

Blend masks are grayscale images in either 8 bit or 16 bit pixel resolution. The size of the blend mask must match the resolution of the blend layer of the projector. The following table shows the possible sizes.

Projector resolution	Mask resolution
WUXGA	1920 x 1200

Projector resolution	Mask resolution
WQXGA	1280 x 800
4K	1280 x 800
4K Cinemascope	1280 x 540

To upload a blend mask, use the following shell command.

```
curl -X POST -F file=@mask.png http://192.168.1.100/api/image/processing/blend/file/transfer
```

In the example above we have a blend mask in the PNG format called and the projector has the IP address of `192.168.1.100`. To select the blend file that was just uploaded, us the following request.

Request

```
{
  "jsonrpc": "2.0",
  "method": "property.set",
  "params": {
    "property": "image.processing.blend.file.selected",
    "value": "mask.png"
  },
  "id": 13
}
```

Response

```
{
  "jsonrpc": "2.0",
  "id": 13,
  "result": true
}
```

To enable the blend mask use the following request.

Request

```
{
  "jsonrpc": "2.0",
  "method": "property.set",
  "params": {
    "property": "image.processing.blend.file.enable",
    "value": true
  },
  "id": 14
}
```

Response

```
{
  "jsonrpc": "2.0",
  "id": 14,
  "result": true
}
```

Supported image formats

The supported image formats are:

- PNG - up to 16 bit
- JPEG
- TIFF

The interface only supports gray scale images, but will accept color images. It will then only use the blue channel. This is to support gray scale images saved as RGB images, we don't support the using the full colour information.

Black level adjustment with images

In a multi channel setup, blending is required in order to get a seamless transition between the channels. To compensate for the extra light in the blended regions, the black level can be increased in the non-blended regions to get a uniform black level across all channels. Black levels can be configured by using the basic controls to specify linear edges, or one can use pre generated images that are uploaded to the projector.

Uploading a black level mask

Black level masks are grayscale images in either 8 bit or 16 bit pixel resolution. The size of the black level mask must match the resolution of the black level layer of the projector. The following table shows the possible sizes.

Projector resolution	Mask resolution
WUXGA	`1920 x 1200`
WQXGA	`1280 x 800`
4K	`1280 x 800`
4K Cinemascope	`1280 x 540`

To upload a black level mask, use the following shell command.

```
curl -X POST -F file=@blacklevel.png http://192.168.1.100/api/image/processing/blacklevel/file/transfer
```

In the example above we have a black level mask in the PNG format called `blacklevel.png` and the projector has the IP address of `192.168.1.100`.

To select the black level file that was just uploaded, use the following request.

Request

```
{
  "jsonrpc": "2.0",
  "method": "property.set",
  "params": {
    "property": "image.processing.blacklevel.file.selected",
    "value": "blacklevel.png"
  },
  "id": 15
}
```

Response

```
{
  "jsonrpc": "2.0",
  "id": 15,
  "result": true
}
```

To enable the black level mask use the following request.

Request

```
{
  "jsonrpc": "2.0",
  "method": "property.set",
  "params": {
    "property": "image.processing.blacklevel.file.enable",
    "value": true
  },
  "id": 16
}
```

Response

```
{
  "jsonrpc": "2.0",
  "id": 16,
  "result": true
}
```

Supported image formats

The supported image formats are:

- PNG - up to 16 bit
- JPEG
- TIFF

The interface only supports gray scale, but will accept colour images. It will then only use the blue channel. This is to support gray scale images saved as RGB images. We don't support using the full color information.

Environment information

The environment service manages a lot of information in order to keep running the projector at the optimal operating conditions. Among the information available are fan speeds, temperatures and voltages. This section describes an easy method to get information from the environment service.

Temperatures

To get a snapshot or current reading of all the avilable temperature sensors, use the following request.

Request

```
{
  "jsonrpc": "2.0",
  "method": "environment.getcontrolblocks",
  "params": {
    "type": "Sensor",
    "valuetype": "Temperature"
  },
  "id": 18
}
```

Response

```
{
  "jsonrpc": "2.0",
  "id": 18,
  "result": {
    "environment.laser.board0.bank0.temperature": 35.3,
    "environment.laser.board0.bank1.temperature": 34.8,
    "environment.laser.board0.bank2.temperature": 35.3,
    "environment.laser.board0.heatsink0.temperature": 35,
    "environment.laser.board0.heatsink1.temperature": 37.6,
    "environment.laser.board0.heatsink2.temperature": 40.4,
    "environment.laser.board1.bank0.temperature": 36.6,
    "environment.laser.board1.bank1.temperature": 36.2,
    "environment.laser.board1.bank2.temperature": 36.4,
    "environment.laser.board1.heatsink0.temperature": 34.7,
    "environment.laser.board1.heatsink1.temperature": 34.9,
    "environment.laser.board1.heatsink2.temperature": 36.5,
    "environment.temperature.cyclon5": 47.6,
    "environment.temperature.imx6": 40.1,
    "environment.temperature.inlet": 25.5,
    "environment.temperature.mainboard": 40.4,
    "environment.temperature.mainpower": 37.6,
    "environment.temperature.outlet": 29.4,
    "environment.temperature.scalerfpga": 52.8
  }
}
```

The result is in the form of a dictionary, where the key is the name of the sensor and the value is the temperature reading.

Fan speeds

To get fan speeds, use the following request.

Request

```
{
  "jsonrpc": "2.0",
  "method": "environment.getcontrolblocks",
  "params": {
    "type": "Sensor",
    "valuetype": "Speed"
  },
  "id": 19
}
```

Response

```
{
  "jsonrpc": "2.0",
  "id": 19,
  "result": {
    "environment.fan.ar1.tacho": 1800,
    "environment.fan.ar2.tacho": 1850,
    "environment.fan.ar3.tacho": 1750,
    "environment.fan.ar4.tacho": 1800,
    "environment.fan.ar5.tacho": 1800,
    "environment.fan.driver.tacho": 2300,
    "environment.fan.optics.tacho": 2600,
    "environment.fan.pcb.tacho": 1400,
    "environment.fan.phosphorleft.tacho": 3850,
    "environment.fan.phosphorright.tacho": 3800,
    "environment.fan.psu.tacho": 1450
  }
}
```

The result is in the form of a dictionary, where the key is the name of the sensor, a fan in this case, and the value is the fan speed reading.

Other environment info

Other environment info is also available and follows the same patterns as for temperatures and fan speeds. Use the `environment.getcontrolblocks` method with different sensor types and different sensor value types to get the desired data.

The applicable sensor types are:

- Sensor
- Filter
- Controller
- Actuator
- Alarm
- GenericBlock

The applicable sensor value types are:

- Temperature
- Speed
- PWM
- Voltage
- Current
- Power
- Altitude
- Pressure
- Humidity
- ADC
- Coordinate
- Peltier
- Waveform
- Average
- Delay
- Difference
- Interpolation
- Limit
- Median
- Noise
- Weighting
- Comparison
- Threshold
- Formula
- Driver
- PID
- Mode
- Simulation
- State
- Pump
- Resistance
- Constant
- Manual
- Range
- Any

ECO mode

On projectors that have **ECO** mode, special handling is required to wake up the projector. To wake up a projector that is in **ECO** mode:

- Send a wake on LAN request supplying the projectors HW (MAC) address
- Use the power button on the remote control
- Use the power button on the keypad
- Send a special command on the RS232 serial port

In the last case, waking up using the serial port, send the following ASCII characters:

```
:POWR1\r
```

Important note about the API documentation

Parts of the API are dynamic, other parts depend on peripherals or other factors. This means that the documentation shown here may not be complete with respect to a specific projector with a specific configuration. For example, if a lens is mounted that does not have motorized zoom, that part of the API will not be available, even if it's shown here. Another example is DMX. In its basic mode, only 2 channels are present. Setting it in extended mode will expose more channels, which may not be shown in this document.

The best way to know the exact API of your projector is to do an introspection as described in the previous chapters

Properties

Alphabetical list of all properties

dmx.artnet

Artnet enabled or not

MODELS All

Access: RW

Name	Type
artnet	bool

dmx.artnetnet

Artnet net selection

MODELS All

Access: RW

Name	Type
artnetnet	int

dmx.artnetuniverse

Artnet universe selection

MODELS All

Access: RW

Name	Type
artnetuniverse	int

dmx.mode

Current mode

MODELS All

Access: RW

Name	Type
mode	string

dmx.monitor.channel01.function

Decription for the dmx channel

MODELS All

Access: R

Name	Type
function	string

dmx.monitor.channel01.offset

Offset of the channel.

MODELS All

Access: R

Name	Type
offset	int

dmx.monitor.channel01.value

Current dmx value for the channel

MODELS All

Access: R

Name	Type
value	int

dmx.monitor.channel02.function

Decription for the dmx channel

MODELS All

Access: R

Name	Type
function	string

dmx.monitor.channel02.offset

Offset of the channel.

MODELS All

Access: R

Name	Type
offset	int

dmx.monitor.channel02.value

Current dmx value for the channel

MODELS All

Access: R

Name	Type
value	int

dmx.monitor.connectionstate.active

true indicates that a dmx (if artnet setting is deactivated) or artnet package (if artnet setting is active) was received in the last 10 seconds.

MODELS All

Access: R

Name	Type
active	bool

dmx.shutdown

Shutdown enabled or not

MODELS All

Access: RW

Name	Type
shutdown	bool

dmx.shutdowntimeout

Time out for shutdown in minutes.

MODELS All

Access: RW

Name	Type
shutdowntimeout	int

dmx.startchannel

The dmx start channel [1..512].

MODELS All

Access: RW

Name	Type
startchannel	int

environment.alarmstate

Alarm state

MODELS F80-4K9 | F80-4K7 | F80-Q7

Access: R

Name	Type
alarmstate	enum
	Values

"Fatal"
"Error"
"Alert"
"Warning"
"Ok"

firmware.firmwareversion

The version of the currently installed firmware.

MODELS All

Access: R

Name	Type
firmwareversion	string

illumination.clo.availability

Shows the current availability.

MODELS All

Access: R

Name	Type
availability	enum

Values
"Available"
"SensorUnavailable"
"PendingWarmup"
"Unavailable"
"Unknown"

illumination.clo.enable

True if constant light output is enabled, false otherwise

MODELS All

Access: RW

Name	Type
enable	bool

illumination.clo.scale

The percentage to scale the setpoint by.

MODELS All

Access: RW

Name	Type

`scale`	`float`

illumination.clo.setpoint

The target luminosity of the light source

MODELS All

Access: RW

Name	Type
`setpoint`	`float`

illumination.clo.state

State of the CLO

MODELS All

Access: R

Name	Type
`state`	`enum`

Values
`"Ok"`
`"TooDim"`
`"TooBright"`

illumination.laser.colorratioregulation

turn on/switch off color ratio regulation

MODELS All

Access: RW

Name	Type
`colorratioregulation`	`bool`

illumination.laser.colorratioregulationavailable

Description not provided

MODELS All

Access: R

Name	Type
`colorratioregulationavailable`	`bool`

illumination.laser.laseron

LaserLight is on

MODELS All

Access: R

Name	Type
laseron	bool

illumination.sources.laser.ispowerlimited

Whether power is currently limited.

MODELS All

Access: R

Name	Type
ispowerlimited	bool

illumination.sources.laser.maxpower

maximum power in percent

MODELS All

Access: R

Name	Type
maxpower	float

illumination.sources.laser.minpower

minimum power in percent

MODELS All

Access: R

Name	Type
minpower	float

illumination.sources.laser.power

target power in percent

MODELS All

Access: RW

Name	Type
power	float

illumination.sources.laser.powerlimitreason

If power is limited, gives the reason

MODELS All

Access: R

Name	Type
powerlimitreason	string

illumination.state

The state of light

MODELS All

Access: R

Name	Type
state	enum

Values
"On"
"Off"

image.brightness

Image brightness/offset. The value is normalized, 0 is default, 1 is 100% offset.

MODELS All

Access: RW

Name	Type
brightness	float

Constraints	
Minimum	-1
Maximum	1
Step size	1
Precision	0.01

image.brilliantcolor.mode

The current BrilliantColor mode.

MODELS All

Access: RW

Name	Type
mode	string

image.color.p7.custom.bluegain

Desired blue gain value

MODELS All

Access: RW

Name	Type
bluegain	float

image.color.p7.custom.bluelum

Desired blue luminanace

MODELS All

Access: RW

Name	Type
bluelum	float

image.color.p7.custom.bluex

Desired blue x in xy-coordinates

MODELS All

Access: RW

Name	Type
bluex	float

image.color.p7.custom.bluey

Desired blue y in xy-coordinates

MODELS All

Access: RW

Name	Type
bluey	float

image.color.p7.custom.cmyreadable

true if secondaries should be shown (OSD)

MODELS All

Access: R

Name	Type
cmyreadable	bool

image.color.p7.custom.cmywritable

true if secondaries are Writable

MODELS All

Access: R

Name	Type
cmywritable	bool

image.color.p7.custom.cyangain

Desired cyan gain value

MODELS All

Access: RW

Name	Type
cyangain	float

image.color.p7.custom.cyanlum

Desired cyan luminanace

MODELS All

Access: RW

Name	Type
cyanlum	float

image.color.p7.custom.cyanx

Desired cyan x in xy-coordinates

MODELS All

Access: RW

Name	Type
cyanx	float

image.color.p7.custom.cyany

Desired cyan y in xy-coordinates

MODELS All

Access: RW

Name	Type
cyany	float

image.color.p7.custom.gainsavailable

true when gains are available

MODELS All

Access: R

Name	Type
gainsavailable	bool

image.color.p7.custom.greengain

Desired green gain value

MODELS All

Access: RW

Name	Type
greengain	float

image.color.p7.custom.greenlum

Desired green luminanace

MODELS All

Access: RW

Name	Type
greenlum	float

image.color.p7.custom.greenx

Desired green x in xy-coordinates

MODELS All

Access: RW

Name	Type
greenx	float

image.color.p7.custom.greeny

Desired green y in xy-coordinates

MODELS All

Access: RW

Name	Type
greeny	float

image.color.p7.custom.luminancesavailable

true if luminances are available

MODELS All

Access: R

Name	Type
luminancesavailable	bool

image.color.p7.custom.magentagain

Desired magenta gain value

MODELS All

Access: RW

Name	Type
magentagain	float

image.color.p7.custom.magentalum

Desired magenta luminanace

MODELS All

Access: RW

Name	Type
magentalum	float

image.color.p7.custom.magentax

Desired magenta x in xy-coordinates

MODELS All

Access: RW

Name	Type
magentax	float

image.color.p7.custom.magentay

Desired magenta y in xy-coordinates

MODELS All

Access: RW

Name	Type
magentay	float

image.color.p7.custom.mode

Description not provided

MODELS All

Access: RW

Name	Type
mode	string

image.color.p7.custom.modes

Description not provided

MODELS All

Access: R

Name	Type
modes	[{ }]

```
{ }
```

Name	Type
group	enum

Values
"Custom"
"Preset"

modes	[string]

image.color.p7.custom.redgain

Desired red gain value

MODELS All

Access: RW

Name	Type
redgain	float

image.color.p7.custom.redlum

Desired red luminanace

MODELS All

Access: RW

Name	Type
redlum	float

image.color.p7.custom.redx

Desired red x in xy-coordinates

MODELS All

Access: RW

Name	Type
redx	float

image.color.p7.custom.redy

Desired red y in xy-coordinates

MODELS All

Access: RW

Name	Type
redy	float

image.color.p7.custom.rgbcmygainsavailable

true when R,G,B,C,M,Y gains are available

MODELS All

Access: R

Name	Type
rgbcmygainsavailable	bool

image.color.p7.custom.rgbwritable

true if RGB are Writable (not in WHITE mode)

MODELS All

Access: R

Name	Type
rgbwritable	bool

image.color.p7.custom.target

Target color coordinates for the current preset

MODELS All

Access: R

Name	Type
target	{ }

Name	Type
red	{ }

Name	Type
x	float
y	float

Name	Type
green	{ }

Name	Type
x	float
y	float

Name	Type
blue	{ }

Name	Type
x	float
y	float

Name	Type
white	{ }

Name	Type
x	float
y	float

image.color.p7.custom.whitegain

Desired white gain value

MODELS All

Access: RW

Name	Type
whitegain	float

image.color.p7.custom.whitegainavailable

true when white gain is available

MODELS All

Access: R

Name	Type
whitegainavailable	bool

image.color.p7.custom.whitelum

Desired white luminanace

MODELS All

Access: RW

Name	Type
whitelum	float

image.color.p7.custom.whitemode

Description not provided

MODELS All

Access: RW

Name	Type
whitemode	enum

Values
"Coordinates"
"Temperature"

image.color.p7.custom.whitetemperature

Desired white point temperature

MODELS All

Access: RW

Name	Type
whitetemperature	int

Constraints	
Minimum	3200
Maximum	13000

Step size	100
Precision	1

image.color.p7.custom.whitetemperatureavailable

true if White temperature is available

MODELS All

Access: R

Name	Type
whitetemperatureavailable	bool

image.color.p7.custom.whitewritable

true if White is Writable

MODELS All

Access: R

Name	Type
whitewritable	bool

image.color.p7.custom.whitex

Desired white x in xy-coordinates

MODELS All

Access: RW

Name	Type
whitex	float

image.color.p7.custom.whitey

Desired white y in xy-coordinates

MODELS All

Access: RW

Name	Type
whitey	float

image.color.p7.custom.yellowgain

Desired yellow gain value

MODELS All

Access: RW

Name	Type
yellowgain	float

image.color.p7.custom.yellowlum

Desired yellow luminanace

MODELS All

Access: RW

Name	Type
yellowlum	float

image.color.p7.custom.yellowx

Desired yellow x in xy-coordinates

MODELS All

Access: RW

Name	Type
yellowx	float

image.color.p7.custom.yellowy

Desired yellow y in xy-coordinates

MODELS All

Access: RW

Name	Type
yellowy	float

image.color.p7.native.c1

Native C1 x in xy-coordinates

MODELS All

Access: R

Name	Type
c1	{ }

Name	Type
x	float
y	float
lum	float

image.color.p7.native.c1available

Description not provided

MODELS All

Access: R

Name	Type
c1available	bool

image.color.p7.native.c2

Native C2 x in xy-coordinates

MODELS All

Access: R

Name	Type
c2	{ }

Name	Type
x	float
y	float
lum	float

image.color.p7.native.c2available

Description not provided

MODELS All

Access: R

Name	Type
c2available	bool

image.color.p7.native.list

list available native sets

MODELS All

Access: R

Name	Type
list	[string]

image.color.p7.native.normal.c1

Native C1 x in xy-coordinates

MODELS All

Access: R

Name	Type
c1	{ }

Name	Type
x	float
y	float
lum	float

image.color.p7.native.normal.c1available

Description not provided

MODELS All

Access: R

Name	Type
c1available	bool

image.color.p7.native.normal.c2

Native C2 x in xy-coordinates

MODELS All

Access: R

Name	Type
c2	{ }

Name	Type
x	float
y	float
lum	float

image.color.p7.native.normal.c2available

Description not provided

MODELS All

Access: R

Name	Type
c2available	bool

image.color.p7.native.normal.rgbw

Native red x in xy-coordinates

MODELS All

Access: R

Name	Type
rgbw	{ }

Name	Type
red	{ }

Name	Type
x	float
y	float
lum	float

`green` { }

Name	Type
x	float
y	float
lum	float

`blue` { }

Name	Type
x	float
y	float
lum	float

`white` { }

Name	Type
x	float
y	float
lum	float

image.color.p7.native.rgbw

Native red x in xy-coordinates

MODELS All

Access: R

Name	Type
rgbw	{ }

`rgbw`

Name	Type
red	{ }
green	{ }
blue	{ }
white	{ }

`red`

Name	Type
x	float
y	float
lum	float

`green`

Name	Type
x	float
y	float
lum	float

`blue`

Name	Type
x	float
y	float
lum	float

`white`

Name	Type
x	float

y	float
lum	float

image.color.rgbmode.rgbmode

RGB Mode

MODELS All

Access: RW

Name	Type
rgbmode	enum

Values
"Full"
"Red"
"Green"
"Blue"
"RedGreen"
"GreenBlue"
"BlueRed"

image.connector.displayport1.colorprimaries

Override the detected signal color primaries. Set to Auto for automatic control.

MODELS All

Access: RW

Name	Type
colorprimaries	enum

Values
"Auto"
"Uncorrected"
"REC709"
"REC2020"
"DCI-P3-D65"
"DCI-P3-Theater"

image.connector.displayport1.colorprimariesavailable

true if Color Primaries is available

MODELS All

Access: R

Name	Type
colorprimariesavailable	bool

image.connector.displayport1.colorspace

Override the detected signal color space. Set to Auto for automatic control.

MODELS All

Access: RW

Name	Type
colorspace	enum
	Values
	"Auto"
	"RGB"
	"REC709"
	"REC601"
	"REC2020"

image.connector.displayport1.detectedsignal

The signal information of the currently detected signal. If 'active' is false, there is no detected signal and the rest of the information should be disregarded. is_stereo indicates if stereo_mode is different from none.

MODELS All

Access: R

Name	Type		
detectedsignal	{ }		
	Name	Type	
	active	bool	
	name	string	
	vertical_total	int	
	horizontal_total	int	
	vertical_resolution	int	
	horizontal_resolution	int	
	vertical_sync_width	int	
	vertical_front_porch	int	
	vertical_back_porch	int	
	horizontal_sync_width	int	
	horizontal_front_porch	int	
	horizontal_back_porch	int	
	horizontal_frequency	float	
	vertical_frequency	float	
	pixel_rate	int	
	scan	enum	
			Values
			"Progressive"
			"Interlaced"
	bits_per_component	int	

color_space	enum	
		Values
		"RGB"
		"REC709"
		"REC601"
		"REC2020"
signal_range	enum	
		Values
		"0-255"
		"16-235"
chroma_sampling	enum	
		Values
		"4:4:4"
		"4:2:2"
		"4:2:0"
gamma_type	enum	
		Values
		"POWER"
		"sRGB"
		"REC_BT1886"
		"SMPTE_ST2084"
color_primaries	enum	
		Values
		"REC709"
		"REC2020"
		"DCI-P3-D65"
		"DCI-P3-Theater"
mastering_luminance	float	
content_aspect_ratio	enum	
		Values
		"5:4"
		"4:3"
		"16:10"
		"16:9"
		"1.85:1"
		"2.20:1"
		"2.35:1"
		"2.37:1"
		"2.39:1"
		"Unknown"
is_stereo	bool	
stereo_mode	enum	
		Values

Values
"None"
"Sequential"
"FramePacked"
"TopBottom"
"SideBySide"

image.connector.displayport1.edid.selected

Selected EDID for connector

MODELS All

Access: RW

Name	Type
selected	string

image.connector.displayport1.signalrange

Override the detected signal signal range. Set to Auto for automatic control.

MODELS All

Access: RW

Name	Type
signalrange	enum

Values
"Auto"
"0-255"
"16-235"

image.connector.displayport2.colorprimaries

Override the detected signal color primaries. Set to Auto for automatic control.

MODELS All

Access: RW

Name	Type
colorprimaries	enum

Values
"Auto"
"Uncorrected"
"REC709"
"REC2020"
"DCI-P3-D65"
"DCI-P3-Theater"

image.connector.displayport2.colorprimariesavailable

true if Color Primaries is available

MODELS All

Access: R

Name	Type
colorprimariesavailable	bool

image.connector.displayport2.colorspace

Override the detected signal color space. Set to Auto for automatic control.

MODELS All

Access: RW

Name	Type
colorspace	enum

Values
"Auto"
"RGB"
"REC709"
"REC601"
"REC2020"

image.connector.displayport2.detectedsignal

The signal information of the currently detected signal. If 'active' is false, there is no detected signal and the rest of the information should be disregarded. is_stereo indicates if stereo_mode is different from none.

MODELS All

Access: R

Name	Type
detectedsignal	{ }

Name	Type
active	bool
name	string
vertical_total	int
horizontal_total	int
vertical_resolution	int
horizontal_resolution	int
vertical_sync_width	int
vertical_front_porch	int
vertical_back_porch	int
horizontal_sync_width	int
horizontal_front_porch	int
horizontal_back_porch	int

horizontal_frequency	float
vertical_frequency	float
pixel_rate	int
scan	enum

Values
"Progressive"
"Interlaced"

bits_per_component	int
color_space	enum

Values
"RGB"
"REC709"
"REC601"
"REC2020"

signal_range	enum

Values
"0-255"
"16-235"

chroma_sampling	enum

Values
"4:4:4"
"4:2:2"
"4:2:0"

gamma_type	enum

Values
"POWER"
"sRGB"
"REC_BT1886"
"SMPTE_ST2084"

color_primaries	enum

Values
"REC709"
"REC2020"
"DCI-P3-D65"
"DCI-P3-Theater"

mastering_luminance	float
content_aspect_ratio	enum

Values
"5:4"
"4:3"
"16:10"
"16:9"
"1.85:1"

		"2.20:1"
		"2.35:1"
		"2.37:1"
		"2.39:1"
		"Unknown"
is_stereo	bool	
stereo_mode	enum	
		Values
		"None"
		"Sequential"
		"FramePacked"
		"TopBottom"
		"SideBySide"

image.connector.displayport2.edid.selected

Selected EDID for connector

MODELS All

Access: RW

Name	Type
selected	string

image.connector.displayport2.signalrange

Override the detected signal signal range. Set to Auto for automatic control.

MODELS All

Access: RW

Name	Type
signalrange	enum
	Values
	"Auto"
	"0-255"
	"16-235"

image.connector.dvi1.colorprimaries

Override the detected signal color primaries. Set to Auto for automatic control.

MODELS All

Access: RW

Name	Type
colorprimaries	enum
	Values

Values
"Auto"
"Uncorrected"
"REC709"
"REC2020"
"DCI-P3-D65"
"DCI-P3-Theater"

image.connector.dvi1.colorprimariesavailable

true if Color Primaries is available

MODELS All

Access: R

Name	Type
colorprimariesavailable	bool

image.connector.dvi1.colorspace

Override the detected signal color space. Set to Auto for automatic control.

MODELS All

Access: RW

Name	Type
colorspace	enum

Values
"Auto"
"RGB"
"REC709"
"REC601"
"REC2020"

image.connector.dvi1.detectedsignal

The signal information of the currently detected signal. If 'active' is false, there is no detected signal and the rest of the information should be disregarded. is_stereo indicates if stereo_mode is different from none.

MODELS All

Access: R

Name	Type
detectedsignal	{ }

Name	Type
active	bool
name	string
vertical_total	int
horizontal_total	int

vertical_resolution	int
horizontal_resolution	int
vertical_sync_width	int
vertical_front_porch	int
vertical_back_porch	int
horizontal_sync_width	int
horizontal_front_porch	int
horizontal_back_porch	int
horizontal_frequency	float
vertical_frequency	float
pixel_rate	int
scan	enum

Values
"Progressive"
"Interlaced"

bits_per_component	int
color_space	enum

Values
"RGB"
"REC709"
"REC601"
"REC2020"

signal_range	enum

Values
"0-255"
"16-235"

chroma_sampling	enum

Values
"4:4:4"
"4:2:2"
"4:2:0"

gamma_type	enum

Values
"POWER"
"sRGB"
"REC_BT1886"
"SMPTE_ST2084"

color_primaries	enum

Values
"REC709"
"REC2020"
"DCI-P3-D65"
"DCI-P3-Theater"

`mastering_luminance`	`float`	
`content_aspect_ratio`	`enum`	
	Values	
	`"5:4"`	
	`"4:3"`	
	`"16:10"`	
	`"16:9"`	
	`"1.85:1"`	
	`"2.20:1"`	
	`"2.35:1"`	
	`"2.37:1"`	
	`"2.39:1"`	
	`"Unknown"`	
`is_stereo`	`bool`	
`stereo_mode`	`enum`	
	Values	
	`"None"`	
	`"Sequential"`	
	`"FramePacked"`	
	`"TopBottom"`	
	`"SideBySide"`	

image.connector.dvi1.edid.selected

Selected EDID for connector

MODELS All

Access: RW

Name	Type
`selected`	`string`

image.connector.dvi1.signalrange

Override the detected signal signal range. Set to Auto for automatic control.

MODELS All

Access: RW

Name	Type
`signalrange`	`enum`
	Values
	`"Auto"`
	`"0-255"`
	`"16-235"`

image.connector.dvi2.colorprimaries

Override the detected signal color primaries. Set to Auto for automatic control.

MODELS All

Access: RW

Name	Type
colorprimaries	enum
	Values
	"Auto"
	"Uncorrected"
	"REC709"
	"REC2020"
	"DCI-P3-D65"
	"DCI-P3-Theater"

image.connector.dvi2.colorprimariesavailable

true if Color Primaries is available

MODELS All

Access: R

Name	Type
colorprimariesavailable	bool

image.connector.dvi2.colorspace

Override the detected signal color space. Set to Auto for automatic control.

MODELS All

Access: RW

Name	Type
colorspace	enum
	Values
	"Auto"
	"RGB"
	"REC709"
	"REC601"
	"REC2020"

image.connector.dvi2.detectedsignal

The signal information of the currently detected signal. If 'active' is false, there is no detected signal and the rest of the information should be disregarded. is_stereo indicates if stereo_mode is different from none.

MODELS All

Access: R

Name	Type
detectedsignal	{ }

Name	Type
active	bool
name	string
vertical_total	int
horizontal_total	int
vertical_resolution	int
horizontal_resolution	int
vertical_sync_width	int
vertical_front_porch	int
vertical_back_porch	int
horizontal_sync_width	int
horizontal_front_porch	int
horizontal_back_porch	int
horizontal_frequency	float
vertical_frequency	float
pixel_rate	int
scan	enum

Values
"Progressive"
"Interlaced"

bits_per_component	int
color_space	enum

Values
"RGB"
"REC709"
"REC601"
"REC2020"

signal_range	enum

Values
"0-255"
"16-235"

chroma_sampling	enum

Values
"4:4:4"
"4:2:2"
"4:2:0"

gamma_type	enum

Values
"POWER"
"sRGB"
"REC_BT1886"

		"SMPTE_ST2084"
color_primaries	enum	
		Values
		"REC709"
		"REC2020"
		"DCI-P3-D65"
		"DCI-P3-Theater"
mastering_luminance	float	
content_aspect_ratio	enum	
		Values
		"5:4"
		"4:3"
		"16:10"
		"16:9"
		"1.85:1"
		"2.20:1"
		"2.35:1"
		"2.37:1"
		"2.39:1"
		"Unknown"
is_stereo	bool	
stereo_mode	enum	
		Values
		"None"
		"Sequential"
		"FramePacked"
		"TopBottom"
		"SideBySide"

image.connector.dvi2.edid.selected

Selected EDID for connector

MODELS All

Access: RW

Name	Type
selected	string

image.connector.dvi2.signalrange

Override the detected signal signal range. Set to Auto for automatic control.

MODELS All

Access: RW

Name	Type
signalrange	enum
	Values
	"Auto"
	"0-255"
	"16-235"

image.connector.hdbaset.colorprimaries

Override the detected signal color primaries. Set to Auto for automatic control.

MODELS All

Access: RW

Name	Type
colorprimaries	enum
	Values
	"Auto"
	"Uncorrected"
	"REC709"
	"REC2020"
	"DCI-P3-D65"
	"DCI-P3-Theater"

image.connector.hdbaset.colorprimariesavailable

true if Color Primaries is available

MODELS All

Access: R

Name	Type
colorprimariesavailable	bool

image.connector.hdbaset.colorspace

Override the detected signal color space. Set to Auto for automatic control.

MODELS All

Access: RW

Name	Type
colorspace	enum
	Values
	"Auto"
	"RGB"
	"REC709"
	"REC601"

"REC2020"

image.connector.hdbaset.detectedsignal

The signal information of the currently detected signal. If 'active' is false, there is no detected signal and the rest of the information should be disregarded. is_stereo indicates if stereo_mode is different from none.

MODELS All

Access: R

Name	Type
detectedsignal	{ }

Name	Type
active	bool
name	string
vertical_total	int
horizontal_total	int
vertical_resolution	int
horizontal_resolution	int
vertical_sync_width	int
vertical_front_porch	int
vertical_back_porch	int
horizontal_sync_width	int
horizontal_front_porch	int
horizontal_back_porch	int
horizontal_frequency	float
vertical_frequency	float
pixel_rate	int
scan	enum

Values
"Progressive"
"Interlaced"

bits_per_component	int
color_space	enum

Values
"RGB"
"REC709"
"REC601"
"REC2020"

signal_range	enum

Values
"0-255"
"16-235"

chroma_sampling	enum

		Values
		"4:4:4"
		"4:2:2"
		"4:2:0"
gamma_type	enum	
		Values
		"POWER"
		"sRGB"
		"REC_BT1886"
		"SMPTE_ST2084"
color_primaries	enum	
		Values
		"REC709"
		"REC2020"
		"DCI-P3-D65"
		"DCI-P3-Theater"
mastering_luminance	float	
content_aspect_ratio	enum	
		Values
		"5:4"
		"4:3"
		"16:10"
		"16:9"
		"1.85:1"
		"2.20:1"
		"2.35:1"
		"2.37:1"
		"2.39:1"
		"Unknown"
is_stereo	bool	
stereo_mode	enum	
		Values
		"None"
		"Sequential"
		"FramePacked"
		"TopBottom"
		"SideBySide"

image.connector.hdbaset.edid.selected

Selected EDID for connector

MODELS All

Access: RW

Name	Type
selected	string

image.connector.hdbaset.signalrange

Override the detected signal signal range. Set to Auto for automatic control.

MODELS All

Access: RW

Name	Type
signalrange	enum
	Values
	"Auto"
	"0-255"
	"16-235"

image.connector.hdmi.colorprimaries

Override the detected signal color primaries. Set to Auto for automatic control.

MODELS All

Access: RW

Name	Type
colorprimaries	enum
	Values
	"Auto"
	"Uncorrected"
	"REC709"
	"REC2020"
	"DCI-P3-D65"
	"DCI-P3-Theater"

image.connector.hdmi.colorprimariesavailable

true if Color Primaries is available

MODELS All

Access: R

Name	Type
colorprimariesavailable	bool

image.connector.hdmi.colorspace

Override the detected signal color space. Set to Auto for automatic control.

MODELS All

Access: RW

Name	Type
colorspace	enum

Values
"Auto"
"RGB"
"REC709"
"REC601"
"REC2020"

image.connector.hdmi.detectedsignal

The signal information of the currently detected signal. If 'active' is false, there is no detected signal and the rest of the information should be disregarded. is_stereo indicates if stereo_mode is different from none.

MODELS All

Access: R

Name	Type
detectedsignal	{ }

Name	Type
active	bool
name	string
vertical_total	int
horizontal_total	int
vertical_resolution	int
horizontal_resolution	int
vertical_sync_width	int
vertical_front_porch	int
vertical_back_porch	int
horizontal_sync_width	int
horizontal_front_porch	int
horizontal_back_porch	int
horizontal_frequency	float
vertical_frequency	float
pixel_rate	int
scan	enum

Values
"Progressive"
"Interlaced"

bits_per_component	int
color_space	enum

Values
"RGB"

		"REC709"
		"REC601"
		"REC2020"
signal_range	enum	
		Values
		"0-255"
		"16-235"
chroma_sampling	enum	
		Values
		"4:4:4"
		"4:2:2"
		"4:2:0"
gamma_type	enum	
		Values
		"POWER"
		"sRGB"
		"REC_BT1886"
		"SMPTE_ST2084"
color_primaries	enum	
		Values
		"REC709"
		"REC2020"
		"DCI-P3-D65"
		"DCI-P3-Theater"
mastering_luminance	float	
content_aspect_ratio	enum	
		Values
		"5:4"
		"4:3"
		"16:10"
		"16:9"
		"1.85:1"
		"2.20:1"
		"2.35:1"
		"2.37:1"
		"2.39:1"
		"Unknown"
is_stereo	bool	
stereo_mode	enum	
		Values
		"None"
		"Sequential"
		"FramePacked"

"TopBottom"

"SideBySide"

image.connector.hdmi.edid.selected

Selected EDID for connector

MODELS All

Access: RW

Name	Type
selected	string

image.connector.hdmi.signalrange

Override the detected signal signal range. Set to Auto for automatic control.

MODELS All

Access: RW

Name	Type
signalrange	enum
	Values
	"Auto"
	"0-255"
	"16-235"

image.connector.sdi.colorprimaries

Override the detected signal color primaries. Set to Auto for automatic control.

MODELS All

Access: RW

Name	Type
colorprimaries	enum
	Values
	"Auto"
	"Uncorrected"
	"REC709"
	"REC2020"
	"DCI-P3-D65"
	"DCI-P3-Theater"

image.connector.sdi.colorprimariesavailable

true if Color Primaries is available

MODELS All

Access: R

Name	Type
colorprimariesavailable	bool

image.connector.sdi.colorspace

Override the detected signal color space. Set to Auto for automatic control.

MODELS All

Access: RW

Name	Type
colorspace	enum
	Values
	"Auto"
	"RGB"
	"REC709"
	"REC601"
	"REC2020"

image.connector.sdi.detectedsignal

The signal information of the currently detected signal. If 'active' is false, there is no detected signal and the rest of the information should be disregarded. is_stereo indicates if stereo_mode is different from none.

MODELS All

Access: R

Name	Type
detectedsignal	{ }

Name	Type
active	bool
name	string
vertical_total	int
horizontal_total	int
vertical_resolution	int
horizontal_resolution	int
vertical_sync_width	int
vertical_front_porch	int
vertical_back_porch	int
horizontal_sync_width	int
horizontal_front_porch	int
horizontal_back_porch	int
horizontal_frequency	float
vertical_frequency	float
pixel_rate	int

scan	enum	
		Values
		"Progressive"
		"Interlaced"
bits_per_component	int	
color_space	enum	
		Values
		"RGB"
		"REC709"
		"REC601"
		"REC2020"
signal_range	enum	
		Values
		"0-255"
		"16-235"
chroma_sampling	enum	
		Values
		"4:4:4"
		"4:2:2"
		"4:2:0"
gamma_type	enum	
		Values
		"POWER"
		"sRGB"
		"REC_BT1886"
		"SMPTE_ST2084"
color_primaries	enum	
		Values
		"REC709"
		"REC2020"
		"DCI-P3-D65"
		"DCI-P3-Theater"
mastering_luminance	float	
content_aspect_ratio	enum	
		Values
		"5:4"
		"4:3"
		"16:10"
		"16:9"
		"1.85:1"
		"2.20:1"
		"2.35:1"
		"2.37:1"

		"2.39:1"
		"Unknown"
is_stereo	bool	
stereo_mode	enum	
		Values
		"None"
		"Sequential"
		"FramePacked"
		"TopBottom"
		"SideBySide"

image.connector.sdi.signalrange

Override the detected signal signal range. Set to Auto for automatic control.

MODELS All

Access: RW

Name	Type
signalrange	enum
	Values
	"Auto"
	"0-255"
	"16-235"

image.contrast

Image contrast/gain. The value is normalized, 1 is default.

MODELS All

Access: RW

Name	Type
contrast	float
	Constraints
	Minimum 0
	Maximum 2
	Step size 1
	Precision 0.01

image.display.desireddisplaymode

The desired display mode.

MODELS All

Access: RW

Name	Type

desireddisplaymode	enum
	Values
	"Mono"
	"AutoStereo"
	"ActiveStereo"
	"NightVision"
	"IGPixelShift"

image.display.displaymode

The current display mode.

MODELS All

Access: R

Name	Type
displaymode	enum
	Values
	"Mono"
	"AutoStereo"
	"ActiveStereo"
	"NightVision"
	"IGPixelShift"

image.display.frequency

The display frequency.

MODELS All

Access: R

Name	Type
frequency	float

image.display.synchronouslock

The display synchronous lock state.

MODELS All

Access: R

Name	Type
synchronouslock	bool

image.gamma

Image gamma. Default is 2.2

MODELS All

Access: RW

Name	Type
gamma	float

Constraints	
Minimum	1
Maximum	3
Step size	1
Precision	0.1

image.intensity

Intensity

MODELS All

Access: RW

Name	Type
intensity	float

Constraints	
Minimum	0
Maximum	1
Step size	0.1
Precision	0.01

image.orientation

Description not provided

MODELS All

Access: RW

Name	Type
orientation	enum

Values
"DESKTOP_FRONT"
"DESKTOP_REAR"
"CEILING_FRONT"
"CEILING_REAR"

image.processing.blacklevel.basicblacklevel.bottom

Bottom edge.

MODELS All

Access: RW

Name	Type

bottom	int

image.processing.blacklevel.basicblacklevel.enable

Description not provided

MODELS All

Access: RW

Name	Type
enable	bool

image.processing.blacklevel.basicblacklevel.left

Left edge.

MODELS All

Access: RW

Name	Type
left	int

image.processing.blacklevel.basicblacklevel.level

Change the upper level of the black level adjustment

MODELS All

Access: RW

Name	Type
level	int

Constraints	
Minimum	0
Maximum	65535
Step size	1
Precision	1

image.processing.blacklevel.basicblacklevel.right

Right edge.

MODELS All

Access: RW

Name	Type
right	int

image.processing.blacklevel.basicblacklevel.top

Top edge.

MODELS All

Access: RW

Name	Type
top	int

image.processing.blacklevel.bluegain

The gain blue for black level

MODELS All

Access: RW

Name	Type
bluegain	float

Constraints	
Minimum	0
Maximum	1
Step size	1
Precision	0.001

image.processing.blacklevel.file.enable

Enable/Disable black level correction

MODELS All

Access: RW

Name	Type
enable	bool

image.processing.blacklevel.file.selected

Currently selected file

MODELS All

Access: RW

Name	Type
selected	string

image.processing.blacklevel.greengain

The gain green for black level

MODELS All

Access: RW

Name	Type
greengain	float

Constraints	
Minimum	0
Maximum	1
Step size	1
Precision	0.001

image.processing.blacklevel.redgain

The gain red for black level

MODELS All

Access: RW

Name	Type
redgain	float

Constraints	
Minimum	0
Maximum	1
Step size	1
Precision	0.001

image.processing.blend.basicblend.bottom

Bottom blend edge.

MODELS All

Access: RW

Name	Type
bottom	{ }

Name	Type
Start	int
Width	int

image.processing.blend.basicblend.enable

Description not provided

MODELS All

Access: RW

Name	Type
enable	bool

image.processing.blend.basicblend.left

Left blend edge.

MODELS All

Access: RW

Name	Type
left	{ }

Name	Type
Start	int
Width	int

image.processing.blend.basicblend.right

Right blend edge.

MODELS All

Access: RW

Name	Type
right	{ }

Name	Type
Start	int
Width	int

image.processing.blend.basicblend.top

Top blend edge.

MODELS All

Access: RW

Name	Type
top	{ }

Name	Type
Start	int
Width	int

image.processing.blend.file.enable

Enable/Disable file blend

MODELS All

Access: RW

Name	Type
enable	bool

image.processing.blend.file.maxselected

Max number of selected files

MODELS All

Access: R

Name	Type
maxselected	int

image.processing.blend.file.selected

Currently selected files

MODELS All

Access: RW

Name	Type
selected	[string]

image.processing.blend.scurve

S-Curve exponent strength.

MODELS All

Access: RW

Name	Type
scurve	float

Constraints	
Minimum	1
Maximum	4
Step size	1
Precision	0.1

image.processing.transportdelay.actual

Actual transport delay.

MODELS All

Access: R

Name	Type
actual	int

image.processing.transportdelay.desired

Desired transport delay.

MODELS All

Access: RW

Name	Type
desired	int

image.processing.transportdelay.minimum

Minimum transport delay.

MODELS All

Access: R

Name	Type
minimum	int

image.processing.warp.bow.bottomleftu

U vector for bottom left corner. Positive angle is outwards.

MODELS All

Access: RW

Name	Type
bottomleftu	{ }

Name	Type
angle	float
length	float

image.processing.warp.bow.bottomleftv

V vector for bottom left corner. Positive angle is outwards.

MODELS All

Access: RW

Name	Type
bottomleftv	{ }

Name	Type
angle	float
length	float

image.processing.warp.bow.bottomrightu

U vector for bottom right corner. Positive angle is outwards.

MODELS All

Access: RW

Name	Type
bottomrightu	{ }

Name	Type
angle	float
length	float

image.processing.warp.bow.bottomrightv

V vector for bottom right corner. Positive angle is outwards.

MODELS All

Access: RW

Name	Type
bottomrightv	{ }

Name	Type
angle	float
length	float

image.processing.warp.bow.enable

Enable/Disable bow warp

MODELS All

Access: RW

Name	Type
enable	bool

image.processing.warp.bow.symmetric

Enable/Disable symmetric mode.

MODELS All

Access: RW

Name	Type
symmetric	bool

image.processing.warp.bow.topleftu

U vector for top left corner. Positive angle is outwards.

MODELS All

Access: RW

Name	Type
topleftu	{ }

Name	Type
angle	float
length	float

image.processing.warp.bow.topleftv

V vector for top left corner. Positive angle is outwards.

MODELS All

Access: RW

Name	Type
topleftv	{ }

Name	Type

angle	float
length	float

image.processing.warp.bow.toprightu

U vector for top right corner. Positive angle is outwards.

MODELS All

Access: RW

Name	Type
toprightu	{ }

Name	Type
angle	float
length	float

image.processing.warp.bow.toprightv

V vector for top right corner. Positive angle is outwards.

MODELS All

Access: RW

Name	Type
toprightv	{ }

Name	Type
angle	float
length	float

image.processing.warp.enable

Enable/Disable all warp functions

MODELS All

Access: RW

Name	Type
enable	bool

image.processing.warp.file.enable

Enable/Disable file warp

MODELS All

Access: RW

Name	Type
enable	bool

image.processing.warp.file.selected

Currently selected file

MODELS All

Access: RW

Name	Type
selected	string

image.processing.warp.fourcorners.bottomleft

Bottom left coordinate in output resolution. Negative values alowed to go outside displayed area.

MODELS All

Access: RW

Name	Type
bottomleft	{ }

Name	Type
x	int
y	int

image.processing.warp.fourcorners.bottomright

Bottom right coordinate in output resolution. Negative values alowed to go outside displayed area.

MODELS All

Access: RW

Name	Type
bottomright	{ }

Name	Type
x	int
y	int

image.processing.warp.fourcorners.enable

Enable/Disable FourCorners warp

MODELS All

Access: RW

Name	Type
enable	bool

image.processing.warp.fourcorners.screenheight

The height of the screen we are projecting on. Only used as in the ratio ScreenWidht/ScreenHeight, hence the unit is arbitrary.

MODELS All

Access: RW

Name	Type
screenheight	float

image.processing.warp.fourcorners.screenwidth

The width of the screen we are projecting on. Only used as in the ratio ScreenWidht/ScreenHeight, hence the unit is arbitrary.

MODELS All

Access: RW

Name	Type
screenwidth	float

image.processing.warp.fourcorners.topleft

Top left coordinate in output resolution. Negative values alowed to go outside displayed area.

MODELS All

Access: RW

Name	Type
topleft	{ }

Name	Type
x	int
y	int

image.processing.warp.fourcorners.topright

Top right coordinate in output resolution. Negative values alowed to go outside displayed area.

MODELS All

Access: RW

Name	Type
topright	{ }

Name	Type
x	int
y	int

image.resolution.alpha.size

The current resolution size (pixels x lines).

MODELS All

Access: R

Name	Type
size	{ }

Name	Type
pixels	int
lines	int

image.resolution.beta.size

The current resolution size (pixels x lines).

MODELS All

Access: R

Name	Type
size	{ }

Name	Type
pixels	int
lines	int

image.resolution.display.size

The current resolution size (pixels x lines).

MODELS All

Access: R

Name	Type
size	{ }

Name	Type
pixels	int
lines	int

image.resolution.osd.size

The current resolution size (pixels x lines).

MODELS All

Access: R

Name	Type
size	{ }

Name	Type
pixels	int
lines	int

image.resolution.output.size

The current resolution size (pixels x lines).

MODELS All

Access: R

Name	Type
size	{ }

Name	Type
pixels	int
lines	int

image.resolution.processing.size

The current resolution size (pixels x lines).

MODELS All

Access: R

Name	Type
size	{ }

Name	Type
pixels	int
lines	int

image.resolution.resolution

The current resolution description.

MODELS All

Access: RW

Name	Type
resolution	string

image.resolution.size

The current resolution size (pixels x lines).

MODELS All

Access: R

Name	Type
size	{ }

Name	Type
pixels	int
lines	int

image.saturation

Image color saturation. The value is normalized, 1 is default.

MODELS All

Access: RW

Name	Type

saturation	float

Constraints	
Minimum	0
Maximum	2
Step size	1
Precision	0.01

image.sharpness

Image sharpness. The value is normalized.

MODELS All

Access: RW

Name	Type
sharpness	int

Constraints	
Minimum	-2
Maximum	8
Step size	1
Precision	1

image.source.displayport1.layout

Source layout

MODELS All

Access: R

Name	Type
layout	{ }

Name	Type
rows	int
columns	int
planes	int

image.source.displayport2.layout

Source layout

MODELS All

Access: R

Name	Type
layout	{ }

Name	Type
rows	int
columns	int

planes	int

image.source.dualdisplayportcolumns.layout

Source layout

MODELS All

Access: R

Name	Type
layout	{ }

Name	Type
rows	int
columns	int
planes	int

image.source.dualdisplayportsequential.layout

Source layout

MODELS All

Access: R

Name	Type
layout	{ }

Name	Type
rows	int
columns	int
planes	int

image.source.dualdvicolumns.layout

Source layout

MODELS All

Access: R

Name	Type
layout	{ }

Name	Type
rows	int
columns	int
planes	int

image.source.dualdvisequential.layout

Source layout

MODELS All

Access: R

Name	Type
layout	{ }

Name	Type
rows	int
columns	int
planes	int

image.source.dvi1.layout

Source layout

MODELS All

Access: R

Name	Type
layout	{ }

Name	Type
rows	int
columns	int
planes	int

image.source.dvi2.layout

Source layout

MODELS All

Access: R

Name	Type
layout	{ }

Name	Type
rows	int
columns	int
planes	int

image.source.hdbaset.layout

Source layout

MODELS All

Access: R

Name	Type
layout	{ }

Name	Type
rows	int
columns	int

Name	Type
planes	int

image.source.hdmi.layout

Source layout

MODELS All

Access: R

Name	Type
layout	{ }

Name	Type
rows	int
columns	int
planes	int

image.source.sdi.layout

Source layout

MODELS All

Access: R

Name	Type
layout	{ }

Name	Type
rows	int
columns	int
planes	int

image.stereo.darktime

Darktime in us.

MODELS All

Access: RW

Name	Type
darktime	int

image.stereo.glassync.delay

Sync delay in us.

MODELS All

Access: RW

Name	Type
delay	int

image.stereo.glassync.delaymaximum

Maximum sync delay in us.

MODELS All

Access: R

Name	Type
delaymaximum	int

image.stereo.glassync.delayminimum

Minimum sync delay in us.

MODELS All

Access: R

Name	Type
delayminimum	int

image.stereo.glassync.invert

Sync invert.

MODELS All

Access: RW

Name	Type
invert	bool

image.stereo.swapframepair

swap which stereo frames belong to each other

MODELS All

Access: RW

Name	Type
swapframepair	bool

image.testpattern.selected

The unique id of the selected pattern

MODELS All

Access: RW

Name	Type
selected	string

image.testpattern.show

Description not provided

MODELS All

Access: RW

Name	Type
show	bool

image.window.main.position

Window position

MODELS All

Access: R

Name	Type
position	{ }

Name	Type
x	int
y	int

image.window.main.scalingmode

The scaling mode to apply to the source

MODELS All

Access: RW

Name	Type
scalingmode	enum

Values
"Fill"
"OneToOne"
"FillScreen"
"Stretch"

image.window.main.size

Window size

MODELS All

Access: R

Name	Type
size	{ }

Name	Type
width	int
height	int

image.window.main.source

The source that is dispayed in this window

MODELS All

Access: RW

Name	Type
source	string

network.device.lan.carrier

Whether the device has carrier or not

MODELS All

Access: R

Name	Type
carrier	bool

network.device.lan.configuration

The configuration method of the device: auto or manual

MODELS All

Access: RW

Name	Type
configuration	enum
	Values
	"AUTO"
	"MANUAL"

network.device.lan.devicetype

The general type of the network device

MODELS All

Access: R

Name	Type
devicetype	enum
	Values
	"UNKNOWN"
	"WIRED"
	"WIRELESS"

network.device.lan.hwaddress

The active hardware (MAC) address

MODELS All

Access: R

Name	Type
hwaddress	string

network.device.lan.ip4config

The current configuration for IP version 4

MODELS All

Access: R

Name	Type
ip4config	{ }

Name	Type
Address	string
Mask	string
Gateway	string
NameServers	string

network.device.lan.ip4configmanual

Get/set the manual configuration for IP version 4

MODELS All

Access: RW

Name	Type
ip4configmanual	{ }

Name	Type
Address	string
Mask	string
Gateway	string
NameServers	string

network.device.lan.ip6config

The current configuration for IP version 6

MODELS All

Access: R

Name	Type
ip6config	{ }

Name	Type
Address	string
Prefix	string
Gateway	string
NameServers	string

network.device.lan.ip6configmanual

Get/set the manual configuration for IP version 4

MODELS All

Access: RW

Name	Type
ip6configmanual	{ }

Name	Type
Address	string
Prefix	string
Gateway	string
NameServers	string

network.device.lan.speed

The speed of the device in Mbit/s

MODELS All

Access: R

Name	Type
speed	int

network.device.lan.state

The current state of the device

MODELS All

Access: R

Name	Type
state	enum

Values
"CONNECTED"
"DISCONNECTED"

network.device.lan.stateinfo

Additional information about the device state. Can be empty

MODELS All

Access: R

Name	Type
stateinfo	string

network.hostname

The host name

MODELS All

Access: RW

Name	Type
hostname	string

network.version

The Networking Service version

MODELS All

Access: R

Name	Type
version	string

notification.count

The number of notifications received and dismissed

MODELS All

Access: R

Name	Type
count	int

optics.filteravailable

Description not provided

MODELS All

Access: R

Name	Type
filteravailable	bool

optics.lens

Description not provided

MODELS All

Access: R

Name	Type
lens	{ }

Name	Type
ID	int
PowerID	int
Name	string
Description	string
Zoom	bool
ZoomForwardSpeed	float

ZoomReverseSpeed	float
ZoomPosition	bool
Focus	bool
FocusForwardSpeed	float
FocusReverseSpeed	float
FocusPosition	bool
Iris	bool
IrisForwardSpeed	float
IrisReverseSpeed	float
IrisResetTime	float
IrisPosition	bool
IrisResetPosition	int

optics.lenspresent

Lens present

MODELS All

Access: R

Name	Type
lenspresent	bool

optics.lensshift.horizontal.calibrationstate

Current calibration state

MODELS All

Access: R

Name	Type
calibrationstate	enum

Values
"Unknown"
"Ok"
"Busy"
"Error"
"NotImplemented"

optics.lensshift.horizontal.enabled

Enabled state

MODELS All

Access: RW

Name	Type
enabled	bool

optics.lensshift.horizontal.homingresult

Homing result

MODELS All

Access: R

Name	Type
homingresult	{ }

Name	Type
date	string
status	enum

Values
"Unknown"
"Ok"
"Busy"
"Error"
"NotImplemented"

optics.lensshift.horizontal.homingstate

Current homing state

MODELS All

Access: R

Name	Type
homingstate	enum

Values
"Unknown"
"Ok"
"Busy"
"Error"
"NotImplemented"

optics.lensshift.horizontal.location

Saved locations

MODELS All

Access: R

Name	Type
location	[{ }]

{ }

Name	Type
key	string
value	int

optics.lensshift.horizontal.maxposition

Maximum available position

MODELS All

Access: R

Name	Type
maxposition	int

optics.lensshift.horizontal.minposition

Minimum available position

MODELS All

Access: R

Name	Type
minposition	int

optics.lensshift.horizontal.position

Current position

MODELS All

Access: R

Name	Type
position	int

optics.lensshift.horizontal.positionrangerestriction

Restriction of positional range

MODELS All

Access: R

Name	Type
positionrangerestriction	{ }

Name	Type
Min	int
Max	int

optics.lensshift.horizontal.safetocalibrate

Safe to calibrate

MODELS All

Access: R

Name	Type

`safetocalibrate`	`bool`

optics.lensshift.horizontal.safetooperate

Safe to operate state

MODELS All

Access: R

Name	Type
`safetooperate`	`bool`

optics.lensshift.horizontal.state

Current state

MODELS All

Access: R

Name	Type
`state`	`enum`

Values
`"Stopped"`
`"Running"`
`"Calibrating"`
`"Homing"`

optics.lensshift.horizontal.target

Desired target

MODELS All

Access: RW

Name	Type
`target`	`int`

optics.lensshift.vertical.calibrationstate

Current calibration state

MODELS All

Access: R

Name	Type
`calibrationstate`	`enum`

Values
`"Unknown"`
`"Ok"`
`"Busy"`

Values
"Error"
"NotImplemented"

optics.lensshift.vertical.enabled

Enabled state

MODELS All

Access: RW

Name	Type
enabled	bool

optics.lensshift.vertical.homingresult

Homing result

MODELS All

Access: R

Name	Type
homingresult	{ }

Name	Type
date	string
status	enum

Values
"Unknown"
"Ok"
"Busy"
"Error"
"NotImplemented"

optics.lensshift.vertical.homingstate

Current homing state

MODELS All

Access: R

Name	Type
homingstate	enum

Values
"Unknown"
"Ok"
"Busy"
"Error"
"NotImplemented"

optics.lensshift.vertical.location

Saved locations

MODELS All

Access: R

Name	Type
location	[{ }]

{ }

Name	Type
key	string
value	int

optics.lensshift.vertical.maxposition

Maximum available position

MODELS All

Access: R

Name	Type
maxposition	int

optics.lensshift.vertical.minposition

Minimum available position

MODELS All

Access: R

Name	Type
minposition	int

optics.lensshift.vertical.position

Current position

MODELS All

Access: R

Name	Type
position	int

optics.lensshift.vertical.positionrangerestriction

Restriction of positional range

MODELS All

Access: R

Name	Type
positionrangerestriction	{ }

Name	Type
Min	int
Max	int

optics.lensshift.vertical.safetocalibrate

Safe to calibrate

MODELS All

Access: R

Name	Type
safetocalibrate	bool

optics.lensshift.vertical.safetooperate

Safe to operate state

MODELS All

Access: R

Name	Type
safetooperate	bool

optics.lensshift.vertical.state

Current state

MODELS All

Access: R

Name	Type
state	enum

Values
"Stopped"
"Running"
"Calibrating"
"Homing"

optics.lensshift.vertical.target

Desired target

MODELS All

Access: RW

Name	Type
target	int

optics.shutter.enabled

Enabled state of motor

MODELS All

Access: RW

Name	Type
enabled	bool

optics.shutter.position

Position of shutter

MODELS All

Access: R

Name	Type
position	enum

Values
"Open"
"Closed"

optics.shutter.target

Target of shutter

MODELS All

Access: RW

Name	Type
target	enum

Values
"Open"
"Closed"

remotecontrol.address

The address of the remote control that the projector will respond to

MODELS All

Access: RW

Name	Type
address	int

Constraints	
Minimum	1
Maximum	31
Step size	1
Precision	1

remotecontrol.broadcastaddress

The broadcast address

MODELS All

Access: RW

Name	Type
broadcastaddress	int

Constraints	
Minimum	0
Maximum	1
Step size	1
Precision	1

remotecontrol.sensors.front.enable

Enable or disable the IR sensor

MODELS All

Access: RW

Name	Type
enable	bool

remotecontrol.sensors.front.name

The display name of the IR sensor

MODELS All

Access: R

Name	Type
name	string

remotecontrol.sensors.rear.enable

Enable or disable the IR sensor

MODELS All

Access: RW

Name	Type
enable	bool

remotecontrol.sensors.rear.name

The display name of the IR sensor

MODELS All

Access: R

Name	Type
name	string

screen.hdrboost

The HDR intensity

MODELS All

Access: RW

Name	Type
hdrboost	float

Constraints	
Minimum	0.8
Maximum	1.2
Step size	0.01
Precision	0.1

screen.luminance

The maximum luminance measured on the screen in cd/m2

MODELS All

Access: RW

Name	Type
luminance	float

Constraints	
Minimum	50
Maximum	10000
Step size	10
Precision	1

statistics.laseraging.bluetotallifetime

Blue Laser total aging in hours (updated every 5 minutes)

MODELS All

Access: R

Name	Type
bluetotallifetime	int

statistics.laseraging.cwtotallifetime

ColorWheel total aging in hours (updated every 5 minutes)

MODELS All

Access: R

Name	Type
cwtotallifetime	int

statistics.laseraging.dmdtotallifetime

DMD total aging in hours (updated every 5 minutes)

MODELS All

Access: R

Name	Type
dmdtotallifetime	int

statistics.maintenance.fan.ar1.value

Counter value

MODELS All

Access: RW

Name	Type
value	int

statistics.maintenance.fan.ar2.value

Counter value

MODELS All

Access: RW

Name	Type
value	int

statistics.maintenance.fan.ar3.value

Counter value

MODELS All

Access: RW

Name	Type
value	int

statistics.maintenance.fan.ar4.value

Counter value

MODELS All

Access: RW

Name	Type
value	int

statistics.maintenance.fan.driver.value

Counter value

MODELS All

Access: RW

Name	Type
value	int

statistics.maintenance.fan.optics.value

Counter value

MODELS All

Access: RW

Name	Type
value	int

statistics.maintenance.fan.pcb.value

Counter value

MODELS All

Access: RW

Name	Type
value	int

statistics.maintenance.fan.psu.value

Counter value

MODELS All

Access: RW

Name	Type
value	int

statistics.maintenance.longfrequency.value

Counter value

MODELS All

Access: RW

Name	Type
value	int

statistics.maintenance.pumps.value

Counter value

MODELS All

Access: RW

Name	Type
value	int

statistics.operating.laseron.value

Counter value

MODELS All

Access: RW

Name	Type
value	int

statistics.operating.lasershut.value

Counter value

MODELS All

Access: RW

Name	Type
value	int

statistics.operating.uptime.value

Counter value

MODELS All

Access: RW

Name	Type
value	int

statistics.operating.value

Counter value

MODELS All

Access: RW

Name	Type
value	int

statistics.systemtime.value

Counter value

MODELS All

Access: RW

Name	Type
value	int

system.articlenumber

Article number.

MODELS All

Access: R

Name	Type
articlenumber	string

system.colorwheel

Article number of installed color wheel

MODELS All

Access: R

Name	Type
colorwheel	string

system.colorwheelname

Name of installed color wheel

MODELS All

Access: R

Name	Type
colorwheelname	string

system.eco.available

Returns true if state is available for this projector

MODELS All

Access: R

Name	Type
available	bool

system.eco.enable

Enable/disable the use of this state. Check if available first.

MODELS All

Access: RW

Name	Type
enable	bool

system.error.timeout.duration

Time (in seconds) to wait in this state before entering lower state.

MODELS All

Access: RW

Name	Type
duration	int

system.error.timeout.enable

Enable/disable the timeout.

MODELS All

Access: RW

Name	Type
enable	bool

system.familyname

Family name.

MODELS All

Access: R

Name	Type
familyname	string

system.firmwareversion

Firmware version.

MODELS All

Access: R

Name	Type
firmwareversion	string

system.initialstate

State to transition to when the unit is started

MODELS All

Access: RW

Name	Type
initialstate	enum

Values
"boot"
"eco"
"standby"
"ready"
"conditioning"
"on"
"service"
"deconditioning"
"error"

system.license.applicable

Applicability of the license file.

MODELS All

Access: R

Name	Type
applicable	bool

system.license.available

Availability of a license file.

MODELS All

Access: R

Name	Type
available	bool

system.license.options

A dictionary of options and their values.

MODELS All

Access: R

Name	Type
options	[{ }]

{ }

Name	Type
key	string
value	string

system.license.valid

Validity of the license file.

MODELS All

Access: R

Name	Type
valid	bool

system.modelname

Model name.

MODELS All

Access: R

Name	Type
modelname	string

system.on.timeout.duration

Time (in seconds) to wait in this state before entering lower state.

MODELS All

Access: RW

Name	Type
duration	int

system.on.timeout.enable

Enable/disable the timeout.

MODELS All

Access: RW

Name	Type
enable	bool

system.ready.timeout.duration

Time (in seconds) to wait in this state before entering lower state.

MODELS All

Access: RW

Name	Type
duration	int

system.ready.timeout.enable

Enable/disable the timeout.

MODELS All

Access: RW

Name	Type
enable	bool

system.serialnumber

Serial number.

MODELS All

Access: R

Name	Type
serialnumber	string

system.standby.available

Returns true if state is available for this projector

MODELS All

Access: R

Name	Type
available	bool

system.standby.enable

Enable/disable the use of this state. Check if available first.

MODELS All

Access: RW

Name	Type
enable	bool

system.standby.timeout.duration

Time (in seconds) to wait in this state before entering lower state.

MODELS All

Access: RW

Name	Type
duration	int

system.standby.timeout.enable

Enable/disable the timeout.

MODELS All

Access: RW

Name	Type
enable	bool

system.state

The current state of the unit

MODELS All

Access: R

Name	Type
state	enum

Values
"boot"
"eco"
"standby"
"ready"
"conditioning"
"on"
"service"
"deconditioning"
"error"

ui.access.enduser

True and available when the user has end user access privileges.

MODELS All

Access: R

Name	Type
enduser	bool

ui.backlight.state

Description not provided

MODELS All

Access: RW

Name	Type
state	enum

Values
"Off"
"On"
"Auto"

ui.backlight.timeout

The amount of seconds after which the lcd backlight will be switched off when the menu and stealth mode are not active and there is no activity.

MODELS All

Access: RW

Name	Type
timeout	int

ui.hasstealthmode

Description not provided

MODELS All

Access: R

Name	Type
hasstealthmode	bool

ui.keyboardshortcut

DEPRECATED: Primary and secondary shortcut states

MODELS All

Access: RW

Name	Type
keyboardshortcut	{ }

Name	Type
Primary	enum

Values
"NONE"
"INPUT"
"LENS"
"PATTERN"
"SHUTTER"
"INPUT_RC"
"LCD_RC"
"PATTERN_RC"
"RGB_RC"
"DEFAULT_RC"
"MACRO_RC"

Name	Type
Secondary	enum

Values
"NONE"
"INPUT"
"LENS"
"PATTERN"
"SHUTTER"
"INPUT_RC"

"LCD_RC"
"PATTERN_RC"
"RGB_RC"
"DEFAULT_RC"
"MACRO_RC"

ui.layer.adjustment.enable

Enable or disable the layer. When enabled, the OSD will be hidden.

MODELS All

Access: RW

Name	Type
enable	bool

ui.layer.adjustment.icon

The icon to show next to the value

MODELS All

Access: RW

Name	Type
icon	string

ui.layer.adjustment.layerposition

Placement of the layer related to the full screen.

MODELS All

Access: RW

Name	Type
layerposition	enum

Values
"TopLeft"
"Top"
"TopRight"
"Right"
"BottomRight"
"Bottom"
"BottomLeft"
"Left"
"Center"

ui.layer.adjustment.rangedvalue

Show a ranged value in the overlay

MODELS All

Access: RW

Name	Type
rangedvalue	{ }

Name	Type
Min	float
Max	float
Value	float
Title	string

ui.layer.adjustment.showleftrightbuttons

Show/hide the left/right arrow buttons

MODELS All

Access: RW

Name	Type
showleftrightbuttons	bool

ui.layer.adjustment.showupdownbuttons

Show/hide the up/down arrow buttons

MODELS All

Access: RW

Name	Type
showupdownbuttons	bool

ui.layer.advancedblend.drawing

Drawing commands in the form of a JSON object

MODELS All

Access: RW

Name	Type
drawing	string

ui.layer.advancedblend.enable

Enable or disable the layer

MODELS All

Access: RW

Name	Type
enable	bool

ui.layer.advancedblend.palette

Color palette that can be used when drawing the blend layer

MODELS All

Access: RW

Name	Type
palette	[string]

ui.layer.basicblacklevel.color

The edge color, e.g '#ffff00' or 'rgba(255,255,0,0.5)

MODELS All

Access: RW

Name	Type
color	string

ui.layer.basicblacklevel.enable

Enable or disable the layer

MODELS All

Access: RW

Name	Type
enable	bool

ui.layer.basicblacklevel.selection

Toggle edge selection

MODELS All

Access: RW

Name	Type
selection	{ }

Name	Type
Bottom	bool
Left	bool
Right	bool
Top	bool

ui.layer.basicblacklevel.selectioncolor

The color to use for selected edges, e.g '#ff0000' or 'rgba(255,0,0,0.5)'

MODELS All

Access: RW

Name	Type
selectioncolor	string

ui.layer.basicblend.color

The edge color, e.g '#ffff00' or 'rgba(255,255,0,0.5)

MODELS All

Access: RW

Name	Type
color	string

ui.layer.basicblend.enable

Enable or disable the layer

MODELS All

Access: RW

Name	Type
enable	bool

ui.layer.basicblend.selection

Toggle edge selection

MODELS All

Access: RW

Name	Type
selection	{ }

Name	Type
Bottom	bool
Left	bool
Right	bool
Top	bool

ui.layer.basicblend.selectioncolor

The color to use for selected edges, e.g '#ff0000' or 'rgba(255,0,0,0.5)'

MODELS All

Access: RW

Name	Type
selectioncolor	string

ui.layer.fourcorner.cornercolor

The color to use for unselected corners, e.g '#ff0000' or 'rgba(255,0,0,0.75)'

MODELS All

Access: RW

Name	Type
cornercolor	string

ui.layer.fourcorner.enable

Enable or disable the layer

MODELS All

Access: RW

Name	Type
enable	bool

ui.layer.fourcorner.linecolor

The line color, e.g '#ffff00' org 'rgba(255,255,0,0.5)'

MODELS All

Access: RW

Name	Type
linecolor	string

ui.layer.fourcorner.lines

Show or hide lines between the corners

MODELS All

Access: RW

Name	Type
lines	bool

ui.layer.fourcorner.selection

Toggle corner selection

MODELS All

Access: RW

Name	Type
selection	{ }

Name	Type
TopLeft	bool
TopRight	bool
BottomRight	bool
BottomLeft	bool

ui.layer.fourcorner.selectioncolor

The color to use for selected corners, e.g '#ff0000' or 'rgba(255,0,0,0.75)'

MODELS All

Access: RW

Name	Type
selectioncolor	string

ui.layer.grid.color

Default color for grid points, e.g '#ff0000' or 'rgba(0,0,255,0.5)'

MODELS All

Access: RW

Name	Type
color	string

ui.layer.grid.enable

Enable or disable the layer

MODELS All

Access: RW

Name	Type
enable	bool

ui.layer.grid.lines

DEPRECATED. Use ShowLines instead. This is for backwards compability

MODELS All

Access: RW

Name	Type
lines	bool

ui.layer.grid.mark

List of row,column and color triplets for marking points in the grid. The color is specified as '#ff00ff' or 'rgba(0,255,255,0.75)'

MODELS All

Access: RW

Name	Type
mark	[{ }]
	{ }

Name	Type
X	int
Y	int
Color	string

ui.layer.grid.points

Number of grid points

MODELS All

Access: RW

Name	Type
points	enum

Values
"2x2"
"3x3"
"5x5"
"9x9"
"17x17"
"33x33"

ui.layer.grid.showlines

Toggle drawing lines between grid points

MODELS All

Access: RW

Name	Type
showlines	bool

ui.layer.grid.showpoints

Toggle drawing grid points

MODELS All

Access: RW

Name	Type
showpoints	bool

ui.menu

Show or hide the menu

MODELS All

Access: RW

Name	Type

`menu`	`bool`

ui.menuposition

Placement of menu related to full screen.

MODELS All

Access: RW

Name	Type
`menuposition`	`enum`

Values
`"TopLeft"`
`"Top"`
`"TopRight"`
`"Right"`
`"BottomRight"`
`"Bottom"`
`"BottomLeft"`
`"Left"`
`"Center"`

ui.minimize

Minimize the menu when it is enabled

MODELS All

Access: RW

Name	Type
`minimize`	`bool`

ui.notificationfiltercodes

Filter display of notifications by notification code

MODELS All

Access: RW

Name	Type
`notificationfiltercodes`	`[ string ]`

ui.notificationfilterseverity

Filter display of notifications by severity

MODELS All

Access: RW

Name	Type

notificationfilterseverity	enum
	Values
	"CRITICAL"
	"ERROR"
	"WARNING"
	"INFO"
	"NONE"

ui.osd

Enable or disable on screen display

MODELS All

Access: RW

Name	Type
osd	bool

ui.poweroffhint

When true, a dialog shows info about powering down

MODELS All

Access: RW

Name	Type
poweroffhint	bool

ui.sourcesignal

Show/hide the source signal information popup

MODELS All

Access: RW

Name	Type
sourcesignal	bool

ui.sourcesignalposition

Placement of the source signal information

MODELS All

Access: RW

Name	Type
sourcesignalposition	enum
	Values
	"TopLeft"
	"Top"

"TopRight"

"Right"

"BottomRight"

"Bottom"

"BottomLeft"

"Left"

"Center"

ui.stealthmode

When the projector is in stealth mode, all controllable LEDs are switched off.

MODELS All

Access: RW

Name	Type
stealthmode	enum
	Values
	"Off"
	"On"

Methods

Alphabetical list of all methods

dmx.listchannels

Return a list of available channel names

MODELS All

This method does not require any parameters.

Return value

Name	Type
modes	[string]

dmx.listmodes

Return a list of all modes

MODELS All

This method does not require any parameters.

Return value

Name	Type
modes	[string]

environment.getalarminfo

Description not provided

MODELS F80-4K9 | F80-4K7 | F80-Q7

This method does not require any parameters.

Return value

Name	Type
alarminfo	[{ }]

{ }

Name	Type
severity	string
timestamp	string
source	string
description	string
custommessage	string

environment.getcontrolblocks

Description not provided

MODELS F80-4K9 | F80-4K7 | F80-Q7

Parameters

Name	Type
type	enum
	Values
	"Sensor"
	"Filter"
	"Controller"
	"Actuator"
	"Alarm"
	"GenericBlock"
valuetype	enum
	Values
	"Temperature"
	"Speed"
	"PWM"
	"Voltage"
	"Current"
	"Power"
	"Altitude"
	"Pressure"
	"Humidity"
	"ADC"
	"Coordinate"
	"Peltier"
	"Waveform"
	"Average"
	"Delay"
	"Difference"
	"Interpolation"
	"Limit"
	"Median"
	"Noise"
	"Weighting"
	"Comparison"
	"Threshold"
	"Formula"
	"Driver"
	"PID"

```
"Mode"
"State"
"Pump"
"Resistance"
"Simulation"
"Constant"
"Manual"
"Range"
"Any"
```

Return value

Name	Type
blocks	[{ }]

{ }

Name	Type
key	string
value	float

illumination.clo.engage

Engage CLO at the current light level

MODELS All

This method does not require any parameters.

This method has no return value.

image.brilliantcolor.list

List possible BrilliantColor modes.

MODELS All

This method does not require any parameters.

Return value

Name	Type
modes	[string]

image.color.p7.custom.copypresettocustom

Description not provided

MODELS All

Parameters

Name	Type

`presetname`	`string`

This method has no return value.

image.color.p7.custom.resetpreset

Reset preset back to its default values

MODELS All

Parameters

Name	Type
`presetname`	`string`

This method has no return value.

image.color.p7.custom.resettonative

Description not provided

MODELS All

This method does not require any parameters.

This method has no return value.

image.color.rgbmode.nextrgbmode

Change to the next RGB mode. Lets you cycle through all possible modes.

MODELS All

This method does not require any parameters.

This method has no return value.

image.connector.displayport1.edid.list

List system EDIDs available for this connector

MODELS All

This method does not require any parameters.

Return value

Name	Type
`selections`	`[ { } ]`

`{ }`

Name	Type
`group`	`string`
`edids`	`[ string ]`

image.connector.displayport2.edid.list

List system EDIDs available for this connector

MODELS All

This method does not require any parameters.

Return value

Name	Type
selections	[{ }]

{ }

Name	Type
group	string
edids	[string]

image.connector.dvi1.edid.list

List system EDIDs available for this connector

MODELS All

This method does not require any parameters.

Return value

Name	Type
selections	[{ }]

{ }

Name	Type
group	string
edids	[string]

image.connector.dvi2.edid.list

List system EDIDs available for this connector

MODELS All

This method does not require any parameters.

Return value

Name	Type
selections	[{ }]

{ }

Name	Type
group	string
edids	[string]

image.connector.hdbaset.edid.list

List system EDIDs available for this connector

MODELS All

This method does not require any parameters.

Return value

Name	Type
selections	[{ }]

{ }

Name	Type
group	string
edids	[string]

image.connector.hdmi.edid.list

List system EDIDs available for this connector

MODELS All

This method does not require any parameters.

Return value

Name	Type
selections	[{ }]

{ }

Name	Type
group	string
edids	[string]

image.connector.list

Description not provided

MODELS All

This method does not require any parameters.

Return value

Name	Type
connectors	[string]

image.display.listdisplaymodes

List possible display modes.

MODELS All

This method does not require any parameters.

Return value

Name	Type
displaymodes	[enum]

Values
"Mono"
"AutoStereo"
"ActiveStereo"
"NightVision"
"IGPixelShift"

image.processing.blacklevel.basicblacklevel.getblacklevelarea

Returns the four boxes describing the black level edges.

MODELS All

Parameters

Name	Type
resolution_width	float
resolution_height	float

Return value

Name	Type
output	{ }

Name	Type
Top	{ }

Name	Type
Start1	{ }

Name	Type
X	float
Y	float

Name	Type
Start2	{ }

Name	Type
X	float
Y	float

Name	Type
Bottom	{ }

Name	Type
Start1	{ }

Name	Type
X	float
Y	float

Name	Type
Start2	{ }

Name	Type
X	float
Y	float

Left { }

Name	Type
Start1	{ }

Name	Type
X	float
Y	float

Start2 { }

Name	Type
X	float
Y	float

Right { }

Name	Type
Start1	{ }

Name	Type
X	float
Y	float

Start2 { }

Name	Type
X	float
Y	float

image.processing.blacklevel.basicblacklevel.getwarpedblacklevelarea

Returns the four boxes describing the black level edges, after warp.

MODELS All

Parameters

Name	Type
resolution_width	float
resolution_height	float

Return value

Name	Type
output	{ }

Name	Type
Top	{ }

Name	Type
Start1	{ }

Name	Type
X	float

		Y	float
	Start2	{ }	

Name	Type
X	float
Y	float

Bottom	{ }	

Name	Type
Start1	{ }

Name	Type
X	float
Y	float

	Start2	{ }

Name	Type
X	float
Y	float

Left	{ }	

Name	Type
Start1	{ }

Name	Type
X	float
Y	float

	Start2	{ }

Name	Type
X	float
Y	float

Right	{ }	

Name	Type
Start1	{ }

Name	Type
X	float
Y	float

	Start2	{ }

Name	Type
X	float
Y	float

image.processing.blacklevel.file.delete

Deletes a file with the given name.

MODELS All

Parameters

Name	Type

filename	string

This method has no return value.

image.processing.blacklevel.file.list

Returns a list of available black level correction files

MODELS All

This method does not require any parameters.

Return value

Name	Type
filenames	[string]

image.processing.blend.basicblend.getblendarea

Returns the four boxes describing the blend edges.

MODELS All

Parameters

Name	Type
resolution_width	float
resolution_height	float

Return value

Name	Type
output	{ }

Name	Type
Top	{ }

Name	Type
Start1	{ }

Name	Type
X	float
Y	float

Name	Type
Start2	{ }

Name	Type
X	float
Y	float

Name	Type
Width1	{ }

Name	Type
X	float
Y	float

Name	Type
Width2	{ }

Name	Type
X	float
Y	float

Bottom { }

Name	Type
Start1	{ }

Name	Type
X	float
Y	float

Name	Type
Start2	{ }

Name	Type
X	float
Y	float

Name	Type
Width1	{ }

Name	Type
X	float
Y	float

Name	Type
Width2	{ }

Name	Type
X	float
Y	float

Left { }

Name	Type
Start1	{ }

Name	Type
X	float
Y	float

Name	Type
Start2	{ }

Name	Type
X	float
Y	float

Name	Type
Width1	{ }

Name	Type
X	float
Y	float

Name	Type
Width2	{ }

Name	Type
X	float
Y	float

Right { }

Name	Type
Start1	{ }

Name	Type
X	float
Y	float

Start2 { }

Name	Type
X	float
Y	float

Width1 { }

Name	Type
X	float
Y	float

Width2 { }

Name	Type
X	float
Y	float

image.processing.blend.basicblend.getwarpedblendarea

Returns the four boxes describing the blend edges, after warp.

MODELS All

Parameters

Name	Type
resolution_width	float
resolution_height	float

Return value

Name	Type
output	{ }

Name	Type
Top	{ }

Name	Type
Start1	{ }

Name	Type
X	float
Y	float

Start2 { }

Name	Type
X	float
Y	float

Width1 { }

Name	Type
X	float

Y	float

Width2 { }

Name	Type
X	float
Y	float

Bottom { }

Name	Type

Start1 { }

Name	Type
X	float
Y	float

Start2 { }

Name	Type
X	float
Y	float

Width1 { }

Name	Type
X	float
Y	float

Width2 { }

Name	Type
X	float
Y	float

Left { }

Name	Type

Start1 { }

Name	Type
X	float
Y	float

Start2 { }

Name	Type
X	float
Y	float

Width1 { }

Name	Type
X	float
Y	float

Width2 { }

Name	Type
X	float
Y	float

Right { }

Name	Type
Start1	{ }

Name	Type
X	float
Y	float

Name	Type
Start2	{ }

Name	Type
X	float
Y	float

Name	Type
Width1	{ }

Name	Type
X	float
Y	float

Name	Type
Width2	{ }

Name	Type
X	float
Y	float

image.processing.blend.file.delete

Deletes a file with the given name.

MODELS All

Parameters

Name	Type
filename	string

This method has no return value.

image.processing.blend.file.list

Returns a list of available blend files

MODELS All

This method does not require any parameters.

Return value

Name	Type
filenames	[string]

image.processing.warp.file.delete

Deletes a file with the given name.

MODELS All

Parameters

Name	Type
filename	string

This method has no return value.

image.processing.warp.file.list

Returns a list of available warp files

MODELS All

This method does not require any parameters.

Return value

Name	Type
filenames	[string]

image.processing.warp.fourcorners.getscaledcorners

Get the corners scaled to the given resolution

MODELS All

Parameters

Name	Type
resolution	{ }

Name	Type
x	int
y	int

Return value

Name	Type
corners	{ }

Name	Type
TopLeft	{ }

Name	Type
x	int
y	int

Name	Type
TopRight	{ }

Name	Type
x	int
y	int

Name	Type
BottomLeft	{ }

Name	Type

x	int
y	int

BottomRight { }

Name	Type
x	int
y	int

image.processing.warp.warpscaledpoints

Takes an array of points and returns their warped equivalents.

MODELS All

Parameters

Name	Type
points	[{ }]

{ }

Name	Type
X	float
Y	float

resolution { }

Name	Type
X	float
Y	float

Return value

Name	Type
points	[{ }]

{ }

Name	Type
X	float
Y	float

image.processing.warpgrid.getgrid

Get the current grid points as normalized and relative

MODELS All

This method does not require any parameters.

Return value

Name	Type
grid	[{ }]

{ }

Name	Type

x	float
y	float

image.processing.warpgrid.getgridsize

Description not provided

MODELS All

This method does not require any parameters.

Return value

Name	Type
size	{ }

Name	Type
x	int
y	int

image.processing.warpgrid.getscaledgrid

Get the current grid scaled to the given resolution

MODELS All

Parameters

Name	Type
resolution	{ }

Name	Type
x	int
y	int

Return value

Name	Type
grid	[{ }]

{ }

Name	Type
x	float
y	float

image.resolution.list

List possible resolutions.

MODELS All

This method does not require any parameters.

Return value

Name	Type
resolutions	[string]

image.source.displayport1.listconnectors

Get all connectors that are assigned to this source with their layout position

MODELS All

This method does not require any parameters.

Return value

Name	Type
connectors	[{ }]

{ }

Name	Type
gridposition	{ }

Name	Type
row	int
column	int
plane	int

Name	Type
name	string

image.source.displayport2.listconnectors

Get all connectors that are assigned to this source with their layout position

MODELS All

This method does not require any parameters.

Return value

Name	Type
connectors	[{ }]

{ }

Name	Type
gridposition	{ }

Name	Type
row	int
column	int
plane	int

Name	Type
name	string

image.source.dualdisplayportcolumns.listconnectors

Get all connectors that are assigned to this source with their layout position

MODELS All

This method does not require any parameters.

Return value

Name	Type
connectors	[{ }]
	{ }
	Name Type
	gridposition { }
	Name Type
	row int
	column int
	plane int
	name string

image.source.dualdisplayportsequential.listconnectors

Get all connectors that are assigned to this source with their layout position

MODELS All

This method does not require any parameters.

Return value

Name	Type
connectors	[{ }]
	{ }
	Name Type
	gridposition { }
	Name Type
	row int
	column int
	plane int
	name string

image.source.dualdvicolumns.listconnectors

Get all connectors that are assigned to this source with their layout position

MODELS All

This method does not require any parameters.

Return value

Name	Type
connectors	[{ }]
	{ }

Name	Type
gridposition	{ }

Name	Type
row	int
column	int
plane	int

Name	Type
name	string

image.source.dualdvisequential.listconnectors

Get all connectors that are assigned to this source with their layout position

MODELS All

This method does not require any parameters.

Return value

Name	Type
connectors	[{ }]

{ }

Name	Type
gridposition	{ }

Name	Type
row	int
column	int
plane	int

Name	Type
name	string

image.source.dvi1.listconnectors

Get all connectors that are assigned to this source with their layout position

MODELS All

This method does not require any parameters.

Return value

Name	Type
connectors	[{ }]

{ }

Name	Type
gridposition	{ }

Name	Type
row	int
column	int
plane	int

name	string

image.source.dvi2.listconnectors

Get all connectors that are assigned to this source with their layout position

MODELS All

This method does not require any parameters.

Return value

Name	Type
connectors	[{ }]

{ }

Name	Type
gridposition	{ }

Name	Type
row	int
column	int
plane	int

name	string

image.source.hdbaset.listconnectors

Get all connectors that are assigned to this source with their layout position

MODELS All

This method does not require any parameters.

Return value

Name	Type
connectors	[{ }]

{ }

Name	Type
gridposition	{ }

Name	Type
row	int
column	int
plane	int

name	string

image.source.hdmi.listconnectors

Get all connectors that are assigned to this source with their layout position

MODELS All

This method does not require any parameters.

Return value

Name	Type
connectors	[{ }]

{ }

Name	Type
gridposition	{ }

Name	Type
row	int
column	int
plane	int

Name	Type
name	string

image.source.list

List all available sources

MODELS All

This method does not require any parameters.

Return value

Name	Type
sources	[string]

image.source.sdi.listconnectors

Get all connectors that are assigned to this source with their layout position

MODELS All

This method does not require any parameters.

Return value

Name	Type
connectors	[{ }]

{ }

Name	Type
gridposition	{ }

Name	Type
row	int
column	int
plane	int

Name	Type
name	string

image.stereo.listdarktime

List all possible darktime values (in us).

MODELS All

This method does not require any parameters.

Return value

Name	Type
darktime	[int]

image.testpattern.file.delete

Deletes a file with the given name.

MODELS All

Parameters

Name	Type
filename	string

This method has no return value.

image.testpattern.file.list

Get a list of available custom uploaded patterns

MODELS All

This method does not require any parameters.

Return value

Name	Type
patterns	[string]

image.testpattern.list

Get a list of available patterns

MODELS All

This method does not require any parameters.

Return value

Name	Type
patterns	[{ }]

{ }

Name	Type
name	string
location	string

id	string
above	bool
internal	bool
properties	[{ }]

{ }

Name	Type
key	string
value	string

image.testpattern.setproperties

Set the properties of a pattern

MODELS All

Parameters

Name	Type
id	string
properties	[{ }]

{ }

Name	Type
key	string
value	string

This method has no return value.

image.window.list

List all available windows

MODELS All

This method does not require any parameters.

Return value

Name	Type
windows	[string]

keydispatcher.sendclickevent

Send a key press event followed immediately by a key release event

MODELS All

Parameters

Name	Type
key	enum
	Values

"RC_SHUTTER_OPEN"

"RC_SHUTTER_CLOSE"

"RC_POWER_ON"

"RC_POWER_OFF"

"RC_OSD"

"RC_LCD"

"RC_PATTERN"

"RC_RGB"

"RC_ZOOM_PLUS"

"RC_ZOOM_MINUS"

"RC_SHIFT_LEFT"

"RC_SHIFT_UP"

"RC_SHIFT_RIGHT"

"RC_SHIFT_DOWN"

"RC_FOCUS_PLUS"

"RC_FOCUS_MINUS"

"RC_MENU"

"RC_DEFAULT"

"RC_BACK"

"RC_UP"

"RC_LEFT"

"RC_OK"

"RC_RIGHT"

"RC_DOWN"

"RC_ADDRESS"

"RC_INPUT"

"RC_MACRO"

"RC_1"

"RC_2"

"RC_3"

"RC_4"

"RC_5"

"RC_6"

"RC_7"

"RC_8"

"RC_9"

"RC_0"

"RC_ASTERISK"

"RC_NUMBER"

"KP_LEFT"

"KP_UP"

"KP_OK"

"KP_RIGHT"

"KP_DOWN"

"KP_MENU"

"KP_POWER"

"KP_BACK"

"KP_OSD"

"KP_LENS"

"KP_PATTERN"

"KP_SHUTTER"

"KP_INPUT"

"KP_STANDBY"

This method has no return value.

keydispatcher.sendpressevent

Send a key press event

MODELS All

Parameters

Name	Type
key	enum
	Values
	"RC_SHUTTER_OPEN"
	"RC_SHUTTER_CLOSE"
	"RC_POWER_ON"
	"RC_POWER_OFF"
	"RC_OSD"
	"RC_LCD"
	"RC_PATTERN"
	"RC_RGB"
	"RC_ZOOM_PLUS"
	"RC_ZOOM_MINUS"
	"RC_SHIFT_LEFT"
	"RC_SHIFT_UP"
	"RC_SHIFT_RIGHT"
	"RC_SHIFT_DOWN"
	"RC_FOCUS_PLUS"
	"RC_FOCUS_MINUS"
	"RC_MENU"
	"RC_DEFAULT"
	"RC_BACK"
	"RC_UP"
	"RC_LEFT"
	"RC_OK"

"RC_RIGHT"

"RC_DOWN"

"RC_ADDRESS"

"RC_INPUT"

"RC_MACRO"

"RC_1"

"RC_2"

"RC_3"

"RC_4"

"RC_5"

"RC_6"

"RC_7"

"RC_8"

"RC_9"

"RC_0"

"RC_ASTERISK"

"RC_NUMBER"

"KP_LEFT"

"KP_UP"

"KP_OK"

"KP_RIGHT"

"KP_DOWN"

"KP_MENU"

"KP_POWER"

"KP_BACK"

"KP_OSD"

"KP_LENS"

"KP_PATTERN"

"KP_SHUTTER"

"KP_INPUT"

"KP_STANDBY"

This method has no return value.

keydispatcher.sendreleaseevent

Send a key release event

MODELS All

Parameters

Name	Type
key	enum
	Values
	"RC_SHUTTER_OPEN"

"RC_SHUTTER_CLOSE"

"RC_POWER_ON"

"RC_POWER_OFF"

"RC_OSD"

"RC_LCD"

"RC_PATTERN"

"RC_RGB"

"RC_ZOOM_PLUS"

"RC_ZOOM_MINUS"

"RC_SHIFT_LEFT"

"RC_SHIFT_UP"

"RC_SHIFT_RIGHT"

"RC_SHIFT_DOWN"

"RC_FOCUS_PLUS"

"RC_FOCUS_MINUS"

"RC_MENU"

"RC_DEFAULT"

"RC_BACK"

"RC_UP"

"RC_LEFT"

"RC_OK"

"RC_RIGHT"

"RC_DOWN"

"RC_ADDRESS"

"RC_INPUT"

"RC_MACRO"

"RC_1"

"RC_2"

"RC_3"

"RC_4"

"RC_5"

"RC_6"

"RC_7"

"RC_8"

"RC_9"

"RC_0"

"RC_ASTERISK"

"RC_NUMBER"

"KP_LEFT"

"KP_UP"

"KP_OK"

"KP_RIGHT"

"KP_DOWN"

```
"KP_MENU"
"KP_POWER"
"KP_BACK"
"KP_OSD"
"KP_LENS"
"KP_PATTERN"
"KP_SHUTTER"
"KP_INPUT"
"KP_STANDBY"
```

This method has no return value.

led.activity

Activates the LEDS when enabled and restarts the LED timeout counter

MODELS All

This method does not require any parameters.

This method has no return value.

led.list

Description not provided

MODELS All

This method does not require any parameters.

Return value

Name	Type
`leds`	`[ string ]`

lightmeasurement.getlightoutput

Description not provided

MODELS All

This method does not require any parameters.

Return value

Name	Type
`lumens`	`int`

network.list

List of logical device id, e.g: 'wired1', 'wifi1'

MODELS All

This method does not require any parameters.

Return value

Name	Type
devices	[string]

notification.dismiss

Dismiss the notification with the specified id

MODELS All

Parameters

Name	Type
id	string
response	enum
	Values
	"NONE"
	"OK"
	"CANCEL"
	"IGNORE"
	"YES"
	"NO"
	"SUPPRESS"

This method has no return value.

notification.list

List all active notifications

MODELS All

This method does not require any parameters.

Return value

Name	Type
notifications	[{ }]

{ }

Name	Type
severity	enum

Values
"INFO"
"CAUTION"
"WARNING"
"ERROR"

"CRITICAL"

id	string
code	string
timestamp	string
message	string
timeout	string
actions	[enum]

Values
"NONE"
"OK"
"CANCEL"
"IGNORE"
"YES"
"NO"
"SUPPRESS"

notification.listsuppressed

Get a list of suppressed notification codes

MODELS All

This method does not require any parameters.

Return value

Name	Type
list	[string]

notification.log

List all saved notifications

MODELS All

Parameters

Name	Type
minimumseverity	enum

Values
"INFO"
"CAUTION"
"WARNING"
"ERROR"
"CRITICAL"

start	int
count	int

Return value

Name	Type
notifications	[{ }]

{ }

Name	Type
severity	enum

Values
"INFO"
"CAUTION"
"WARNING"
"ERROR"
"CRITICAL"

id	string
code	string
timestamp	string
message	string
timeout	string
actions	[enum]

Values
"NONE"
"OK"
"CANCEL"
"IGNORE"
"YES"
"NO"
"SUPPRESS"

notification.suppress

Add a notification code to suppress (log but do not show on the LCD/OSD)

MODELS All

Parameters

Name	Type
code	string

This method has no return value.

notification.unsuppress

No longer suppress a certain notification code

MODELS All

Parameters

Name	Type
code	string

This method has no return value.

notification.unsuppressall

No longer suppress any notification codes

MODELS All

This method does not require any parameters.

This method has no return value.

optics.getvalidlensids

Description not provided

MODELS All

This method does not require any parameters.

Return value

Name	Type
lensids	[{ }]

{ }

Name	Type
key	string
value	{ }

Name	Type
0	int
1	string

optics.lensshift.horizontal.addlocation

Add current position to location

MODELS All

Parameters

Name	Type
location	string

This method has no return value.

optics.lensshift.horizontal.calibrate

Calibrate motor

MODELS All

This method does not require any parameters.

This method has no return value.

optics.lensshift.horizontal.home

Run motor to home position

MODELS All

This method does not require any parameters.

This method has no return value.

optics.lensshift.horizontal.homeandreturn

Run motor to home position, then return to initial position

MODELS All

This method does not require any parameters.

This method has no return value.

optics.lensshift.horizontal.runforward

Run forward

MODELS All

This method does not require any parameters.

This method has no return value.

optics.lensshift.horizontal.runforwardtime

Run forward for X milliseconds

MODELS All

Parameters

Name	Type
`milliseconds`	`int`

This method has no return value.

optics.lensshift.horizontal.runreverse

Run reverse

MODELS All

This method does not require any parameters.

This method has no return value.

optics.lensshift.horizontal.runreversetime

Run reverse for X milliseconds

MODELS All

Parameters

Name	Type
`milliseconds`	`int`

This method has no return value.

optics.lensshift.horizontal.setlocation

Set target to position at location

MODELS All

Parameters

Name	Type
`location`	`string`

This method has no return value.

optics.lensshift.horizontal.stepforward

Step forward

MODELS All

Parameters

Name	Type
`steps`	`int`

This method has no return value.

optics.lensshift.horizontal.stepreverse

Step reverse

MODELS All

Parameters

Name	Type
`steps`	`int`

This method has no return value.

optics.lensshift.horizontal.stop

Stop

MODELS All

This method does not require any parameters.

This method has no return value.

optics.lensshift.vertical.addlocation

Add current position to location

MODELS All

Parameters

Name	Type
`location`	`string`

This method has no return value.

optics.lensshift.vertical.calibrate

Calibrate motor

MODELS All

This method does not require any parameters.

This method has no return value.

optics.lensshift.vertical.home

Run motor to home position

MODELS All

This method does not require any parameters.

This method has no return value.

optics.lensshift.vertical.homeandreturn

Run motor to home position, then return to initial position

MODELS All

This method does not require any parameters.

This method has no return value.

optics.lensshift.vertical.runforward

Run forward

MODELS All

This method does not require any parameters.

This method has no return value.

optics.lensshift.vertical.runforwardtime

Run forward for X milliseconds

MODELS All

Parameters

Name	Type
`milliseconds`	`int`

This method has no return value.

optics.lensshift.vertical.runreverse

Run reverse

MODELS All

This method does not require any parameters.

This method has no return value.

optics.lensshift.vertical.runreversetime

Run reverse for X milliseconds

MODELS All

Parameters

Name	Type
`milliseconds`	`int`

This method has no return value.

optics.lensshift.vertical.setlocation

Set target to position at location

MODELS All

Parameters

Name	Type

`location`	`string`

This method has no return value.

optics.lensshift.vertical.stepforward

Step forward

MODELS All

Parameters

Name	Type
`steps`	`int`

This method has no return value.

optics.lensshift.vertical.stepreverse

Step reverse

MODELS All

Parameters

Name	Type
`steps`	`int`

This method has no return value.

optics.lensshift.vertical.stop

Stop

MODELS All

This method does not require any parameters.

This method has no return value.

optics.setlensid

Description not provided

MODELS All

Parameters

Name	Type
`lensid`	`int`
`powerlensid`	`int`

This method has no return value.

optics.shifttocenter

Shift lens to center of allowed shift range

MODELS All

This method does not require any parameters.

This method has no return value.

optics.shutter.getobjectpath

Get object path of motor

MODELS All

This method does not require any parameters.

Return value

Name	Type
path	string

optics.shutter.toggle

Toggle shutter position

MODELS All

This method does not require any parameters.

This method has no return value.

remotecontrol.listsensors

Return a list of all the object names of the IR sensors

MODELS All

This method does not require any parameters.

Return value

Name	Type
sensors	[string]

statistics.laseraging.getbanknames

List of monitored banks

MODELS All

This method does not require any parameters.

Return value

Name	Type
currentdiv	[string]

statistics.laseraging.getbankruntime

2D Array of bankData

MODELS All

Parameters

Name	Type
bank	int

Return value

Name	Type
runtime_data	{ }

Name	Type
name	string
type	string
totalruntime	int
runtimes	[{ }]

{ }

Name	Type
0	string
1	[int]

statistics.laseraging.getbankruntimearray

List of array of 1 banks runtime

MODELS All

Parameters

Name	Type
bank	int

Return value

Name	Type
runtime	[int]

statistics.laseraging.getbankruntimearrays

3D-Table with all runtimes

MODELS All

Parameters

Name	Type
unit	string

Return value

Name	Type

statistics.laseraging.getblueagingavg2d

Table with blue Avg lasertime

MODELS All

Parameters

Name	Type
unit	string

Return value

Name	Type

statistics.laseraging.getbluelifetime2d

Table with added lasertime per current/temp in hours

MODELS All

This method does not require any parameters.

Return value

Name	Type

statistics.laseraging.getcurrentdivisions

List of Current divisions

MODELS All

This method does not require any parameters.

Return value

Name	Type
currentdiv	[float]

statistics.laseraging.getmaxtotalruntime

List the max overall runtime

MODELS All

This method does not require any parameters.

Return value

Name	Type
runtime	int

statistics.laseraging.getname

Name of the counter

MODELS All

This method does not require any parameters.

Return value

Name	Type
countername	string

statistics.laseraging.getpersistorinit

Was the persistor/eeprom read correctly?

MODELS All

This method does not require any parameters.

Return value

Name	Type
init	bool

statistics.laseraging.getpersistortype

Was the persistor/eeprom read correctly?

MODELS All

This method does not require any parameters.

Return value

Name	Type
persistortype	enum
	Values
	"ConfigCounter"
	"LaserRuntime"
	"MemoryDevice"
	"RegisterDevice"

statistics.laseraging.gettempdivisions

List of Temperature divisions

MODELS All

This method does not require any parameters.

Return value

Name	Type
tempdiv	{ }

Name	Type
items	[{ }]

{ }

Name	Type
0	string
1	[float]

statistics.laseraging.gettotalbankruntimes

List the total all monitored banks

MODELS All

This method does not require any parameters.

Return value

Name	Type
runtimes	[int]

statistics.laseraging.persistorinit

Initializes the persistor if not initialized

MODELS All

Parameters

Name	Type
init	bool

This method has no return value.

statistics.listcounters

List all counter names

MODELS All

This method does not require any parameters.

Return value

Name	Type
counterlist	[{ }]

{ }

Name	Type
name	string
value	int
unit	enum

Values
"none"
"hours"
"minutes"
"seconds"
"number"
"percent"

statistics.maintenance.fan.ar1.getname

Name of the counter

MODELS All

This method does not require any parameters.

Return value

Name	Type
countername	string

statistics.maintenance.fan.ar1.getunit

Unit of measurements

MODELS All

This method does not require any parameters.

Return value

Name	Type
unit	enum

Values
"none"
"hours"
"minutes"
"seconds"
"number"
"percent"

statistics.maintenance.fan.ar2.getname

Name of the counter

MODELS All

This method does not require any parameters.

Return value

Name	Type
countername	string

statistics.maintenance.fan.ar2.getunit

Unit of measurements

MODELS All

This method does not require any parameters.

Return value

Name	Type
unit	enum
	Values
	"none"
	"hours"
	"minutes"
	"seconds"
	"number"
	"percent"

statistics.maintenance.fan.ar3.getname

Name of the counter

MODELS All

This method does not require any parameters.

Return value

Name	Type
countername	string

statistics.maintenance.fan.ar3.getunit

Unit of measurements

MODELS All

This method does not require any parameters.

Return value

Name	Type
unit	enum
	Values
	"none"
	"hours"
	"minutes"
	"seconds"
	"number"
	"percent"

statistics.maintenance.fan.ar4.getname

Name of the counter

MODELS All

This method does not require any parameters.

Return value

Name	Type
countername	string

statistics.maintenance.fan.ar4.getunit

Unit of measurements

MODELS All

This method does not require any parameters.

Return value

Name	Type
unit	enum
	Values
	"none"
	"hours"
	"minutes"
	"seconds"
	"number"
	"percent"

statistics.maintenance.fan.driver.getname

Name of the counter

MODELS All

This method does not require any parameters.

Return value

Name	Type
countername	string

statistics.maintenance.fan.driver.getunit

Unit of measurements

MODELS All

This method does not require any parameters.

Return value

Name	Type
unit	enum

Values
"none"
"hours"
"minutes"
"seconds"
"number"
"percent"

statistics.maintenance.fan.optics.getname

Name of the counter

MODELS All

This method does not require any parameters.

Return value

Name	Type
countername	string

statistics.maintenance.fan.optics.getunit

Unit of measurements

MODELS All

This method does not require any parameters.

Return value

Name	Type
unit	enum

Values
"none"
"hours"
"minutes"
"seconds"
"number"
"percent"

statistics.maintenance.fan.pcb.getname

Name of the counter

MODELS All

This method does not require any parameters.

Return value

Name	Type
countername	string

statistics.maintenance.fan.pcb.getunit

Unit of measurements

MODELS All

This method does not require any parameters.

Return value

Name	Type
unit	enum

Values
"none"
"hours"
"minutes"
"seconds"
"number"
"percent"

statistics.maintenance.fan.psu.getname

Name of the counter

MODELS All

This method does not require any parameters.

Return value

Name	Type
countername	string

statistics.maintenance.fan.psu.getunit

Unit of measurements

MODELS All

This method does not require any parameters.

Return value

Name	Type
unit	enum

Values
"none"
"hours"
"minutes"
"seconds"
"number"
"percent"

statistics.maintenance.longfrequency.getname

Name of the counter

MODELS All

This method does not require any parameters.

Return value

Name	Type
countername	string

statistics.maintenance.longfrequency.getunit

Unit of measurements

MODELS All

This method does not require any parameters.

Return value

Name	Type
unit	enum

Values
"none"
"hours"

Values
"minutes"
"seconds"
"number"
"percent"

statistics.maintenance.pumps.getname

Name of the counter

MODELS All

This method does not require any parameters.

Return value

Name	Type
countername	string

statistics.maintenance.pumps.getunit

Unit of measurements

MODELS All

This method does not require any parameters.

Return value

Name	Type
unit	enum

Values
"none"
"hours"
"minutes"
"seconds"
"number"
"percent"

statistics.operating.getname

Name of the counter

MODELS All

This method does not require any parameters.

Return value

Name	Type
countername	string

statistics.operating.getunit

Unit of measurements

MODELS All

This method does not require any parameters.

Return value

Name	Type
unit	enum
	Values
	"none"
	"hours"
	"minutes"
	"seconds"
	"number"
	"percent"

statistics.operating.laseron.getname

Name of the counter

MODELS All

This method does not require any parameters.

Return value

Name	Type
countername	string

statistics.operating.laseron.getunit

Unit of measurements

MODELS All

This method does not require any parameters.

Return value

Name	Type
unit	enum
	Values
	"none"
	"hours"
	"minutes"
	"seconds"
	"number"
	"percent"

statistics.operating.lasershut.getname

Name of the counter

MODELS All

This method does not require any parameters.

Return value

Name	Type
countername	string

statistics.operating.lasershut.getunit

Unit of measurements

MODELS All

This method does not require any parameters.

Return value

Name	Type
unit	enum

Values
"none"
"hours"
"minutes"
"seconds"
"number"
"percent"

statistics.operating.uptime.getname

Name of the counter

MODELS All

This method does not require any parameters.

Return value

Name	Type
countername	string

statistics.operating.uptime.getunit

Unit of measurements

MODELS All

This method does not require any parameters.

Return value

Name	Type
unit	enum
	Values
	"none"
	"hours"
	"minutes"
	"seconds"
	"number"
	"percent"

statistics.systemtime.getname

Name of the counter

MODELS All

This method does not require any parameters.

Return value

Name	Type
countername	string

statistics.systemtime.getunit

Unit of measurements

MODELS All

This method does not require any parameters.

Return value

Name	Type
unit	enum
	Values
	"none"
	"hours"
	"minutes"
	"seconds"
	"number"
	"percent"

system.activity

Signal user activity (resets timeout countdown timers)

MODELS All

This method does not require any parameters.

This method has no return value.

system.boards.getboardinfo

Get board properties for the specified board

MODELS All

Parameters

Name	Type
boardname	string

Return value

Name	Type
info	[{ }]

{ }

Name	Type
key	string
value	string

system.boards.getboardlist

Description not provided

MODELS All

This method does not require any parameters.

Return value

Name	Type
boards	[string]

system.boards.getdeviceinfo

DEPRECATED. Use GetBoardInfo instead

MODELS All

Parameters

Name	Type
boardname	string

Return value

Name	Type
info	[{ }]

{ }

Name	Type
key	string
value	string

system.boards.getmissingboardlist

Description not provided

MODELS All

This method does not require any parameters.

Return value

Name	Type
boards	[string]

system.boards.getmoduleinfo

Description not provided

MODELS All

Parameters

Name	Type
boardname	string

Return value

Name	Type
info	[{ }]

{ }

Name	Type
key	string
value	string

system.getidentification

Description not provided

MODELS All

Parameters

Name	Type
identification	string

Return value

Name	Type
value	string

system.getidentifications

Description not provided

MODELS All

This method does not require any parameters.

Return value

Name	Type
identification	[{ }]

{ }

Name	Type
key	string
value	string

system.getsystemdate

Returns the system date as UTC time.

MODELS All

This method does not require any parameters.

Return value

Name	Type
date	{ }

Name	Type
year	int
month	int
day	int
hour	int
minute	int
second	int

system.gotoeco

Set the device in the eco state

MODELS All

This method does not require any parameters.

This method has no return value.

system.gotoready

Set the device in the ready state

MODELS All

This method does not require any parameters.

This method has no return value.

system.listresetdomains

Returns the list of available reset domains

MODELS All

This method does not require any parameters.

Return value

Name	Type
domains	[enum]

Values
"ImageConnector"
"ImageSource"
"ImageFeatures"
"ImageRealColor"
"ImageWarp"
"ImageBlend"
"ImageOrientation"
"ImageResolution"
"ImageStereo"
"ImageDisplay"
"ImageTestPattern"
"ImageConvergence"
"UserInterface"
"Optics"
"Illumination"
"Network"
"Screen"
"System"
"LightMeasurement"
"Dmx"

system.poweroff

Power off the unit

MODELS All

This method does not require any parameters.

This method has no return value.

system.poweron

Power on the unit

MODELS All

This method does not require any parameters.

This method has no return value.

system.reset

Asynchronously starts reset of selected domains. The completion of the domains are signalled by one ore more 'Performed'-signals. Subsequent calls to 'ResetAll' or 'Reset' will fail until all domains have completed.

MODELS All

Parameters

Name	Type
domains	[enum]

Values

```
"ImageConnector"
"ImageSource"
"ImageFeatures"
"ImageRealColor"
"ImageWarp"
"ImageBlend"
"ImageOrientation"
"ImageResolution"
"ImageStereo"
"ImageDisplay"
"ImageTestPattern"
"ImageConvergence"
"UserInterface"
"Optics"
"Illumination"
"Network"
"Screen"
"System"
"LightMeasurement"
"Dmx"
```

This method has no return value.

system.resetall

Asynchronously starts reset of all domains. The completion of the domains are signalled by one ore more 'Performed'-

signals. Subsequent calls to 'ResetAll' or 'Reset' will fail until all domains have completed.

MODELS All

This method does not require any parameters.

Return value

Name	Type
domains	[enum]

Values
"ImageConnector"
"ImageSource"
"ImageFeatures"
"ImageRealColor"
"ImageWarp"
"ImageBlend"
"ImageOrientation"
"ImageResolution"
"ImageStereo"
"ImageDisplay"
"ImageTestPattern"
"ImageConvergence"
"UserInterface"
"Optics"
"Illumination"
"Network"
"Screen"
"System"
"LightMeasurement"
"Dmx"

ui.settings.get

Get the value of the specified key

MODELS All

Parameters

Name	Type
key	string

Return value

Name	Type
value	string

ui.settings.getfonticons

Return a dictionary of icons for the specified category. Then icon is returned as a string containing the font set class name and the icon class name.

MODELS All

Parameters

Name	Type
category	enum
	Values
	"Source"
	"Connector"
	"TestPattern"

Return value

Name	Type
dictionary	[{ }]
	{ }
	Name Type
	key string
	value string

ui.settings.geticons

Return a dictionary of icons for the specified category. The icon is return as a SVG sprite name.

MODELS All

Parameters

Name	Type
category	enum
	Values
	"Source"
	"Connector"
	"TestPattern"

Return value

Name	Type
dictionary	[{ }]
	{ }
	Name Type
	key string
	value string

ui.settings.keys

Return a list of all the keys

MODELS All

This method does not require any parameters.

Return value

Name	Type
keys	[string]

ui.settings.list

Return a list of key/value pairs of all the settings

MODELS All

This method does not require any parameters.

Return value

Name	Type
dict	[{ }]

{ }

Name	Type
key	string
value	string

ui.settings.remove

Remove the specfied key and value

MODELS All

Parameters

Name	Type
key	string

This method has no return value.

ui.settings.set

Set the key to the specified value

MODELS All

Parameters

Name	Type
key	string
value	string

This method has no return value.

ui.togglestealthmode

This method is depreciated.

MODELS All

This method does not require any parameters.

This method has no return value.

Signals

Alphabetical list of all signals

modelupdated

Signals whenever functionality for an object appears or disappears

MODELS All

Name	Type	Description
`object`	`string`	The object name (JSON-RPC dot-notation)
`newobject`	`bool`	True if functionality is added and false if functionality is removed
`accesslevel`	`enum`	Minimum access level for this object

Values

`"UNAUTHENTICATED_END_USER"`

`"END_USER"`

`"POWER_USER"`

`"SERVICE_PARTNER"`

`"MANUFACTURING"`

`"DEVELOPMENT"`

`"INACCESSIBLE"`

image.brilliantcolor.listchanged

Will be raised when BrilliantColor environment has changed

MODELS All

This signal does contain any arguments.

image.connector.displayport1.edid.listchanged

Will be raised when list of EDIDs changed

MODELS All

This signal does contain any arguments.

image.connector.displayport2.edid.listchanged

Will be raised when list of EDIDs changed

MODELS All

This signal does contain any arguments.

image.connector.dvi1.edid.listchanged

Will be raised when list of EDIDs changed

MODELS All

This signal does contain any arguments.

image.connector.dvi2.edid.listchanged

Will be raised when list of EDIDs changed

MODELS All

This signal does contain any arguments.

image.connector.hdbaset.edid.listchanged

Will be raised when list of EDIDs changed

MODELS All

This signal does contain any arguments.

image.connector.hdmi.edid.listchanged

Will be raised when list of EDIDs changed

MODELS All

This signal does contain any arguments.

image.processing.blacklevel.file.listchanged

This signal is fired every time the return value of List() changes

MODELS All

This signal does contain any arguments.

image.processing.blend.file.listchanged

This signal is fired every time the return value of List() changes

MODELS All

This signal does contain any arguments.

image.processing.warp.file.listchanged

This signal is fired every time the return value of List() changes

MODELS All

This signal does contain any arguments.

image.processing.warpgrid.changed

Fired when the grid changes, without the grid data as payload

MODELS All

This signal does contain any arguments.

image.processing.warpgrid.gridchanged

Description not provided

MODELS All

Name	Type	Description
grid	[{ }]	
	{ }	

Name	Type
x	float
y	float

image.testpattern.added

Description not provided

MODELS All

Name	Type	Description
pattern	{ }	The ID of the new pattern that was added

Name	Type
name	string
location	string
id	string
above	bool
internal	bool
properties	[{ }]
	{ }

Name	Type
key	string
value	string

image.testpattern.changed

Description not provided

MODELS All

Name	Type	Description
id	string	The unique pattern id of the pattern that have changed
properties	[{ }]	
	{ }	

Name	Type
key	string
value	string

image.testpattern.file.listchanged

This signal is fired every time the return value of List() changes

MODELS All

This signal does contain any arguments.

image.testpattern.removed

Description not provided

MODELS All

Name	Type	Description
pattern	{ }	The ID of the pattern that was removed

Name	Type
name	string
location	string
id	string
above	bool
internal	bool
properties	[{ }]

{ }

Name	Type
key	string
value	string

network.added

Raised when a new device has been added

MODELS All

Name	Type	Description
id	string	The logical device id of the new device, e.g: 'wifi1

network.removed

Raised when a device has been removed

MODELS All

Name	Type	Description
id	string	The logical device id of the device that was removed, e.g: 'wired2'

notification.dismissed

Description not provided

MODELS All

Name	Type	Description
id	string	The ID of the dismissed notification

response	enum	The reason or response for dismissing the notification

Values

"NONE"
"OK"
"CANCEL"
"IGNORE"
"YES"
"NO"
"SUPPRESS"

notification.emitted

Description not provided

MODELS All

Name	Type	Description
notification	{ }	The new notification

Name	Type
severity	enum

Values

"INFO"
"CAUTION"
"WARNING"
"ERROR"
"CRITICAL"

id	string
code	string
timestamp	string
message	string
timeout	string
actions	[enum]

Values

"NONE"
"OK"
"CANCEL"
"IGNORE"
"YES"
"NO"
"SUPPRESS"

system.identificationchanged

Will be raised whenever an identification is changed

MODELS All

Name	Type	Description

identification	string

system.license.licensechanged

Description not provided

MODELS All

This signal does contain any arguments.

system.performed

Emitted when one or more domains have completed resetting. This signal might be emitted several times, every time with one or more domains, until all requested domains are done resetting. 'All domains' in this context is either the list of domains supplied to a call to 'Reset' or the list of domains returned from 'ResetAll'.

MODELS All

Name	Type	Description
domains	[enum]	

Values
"ImageConnector"
"ImageSource"
"ImageFeatures"
"ImageRealColor"
"ImageWarp"
"ImageBlend"
"ImageOrientation"
"ImageResolution"
"ImageStereo"
"ImageDisplay"
"ImageTestPattern"
"ImageConvergence"
"UserInterface"
"Optics"
"Illumination"
"Network"
"Screen"
"System"
"LightMeasurement"
"Dmx"

ui.settings.added

Fired when a new key/value pair was added

MODELS All

Name	Type	Description
key	string	The key name

`value`	`string`	The key value

ui.settings.changed

Fired when a key has an updated value

MODELS All

Name	Type	Description
`key`	`string`	The key name
`value`	`string`	The value of the key

ui.settings.removed

Fired when a key was removed

MODELS All

Name	Type	Description
`key`	`string`	The key name

Files

Alphabetical list of all file end points.

image.connector.edid.transfer

Upload and download EDID files

MODELS All

Upload	Download
Yes	Yes

Example of file upload using the `curl` program.

```
pulse:~$ curl -F file=@edid.dat http://192.168.1.100/api/image/connector/edid/transfer
```

Example of file download using the `curl` program on Linux and Mac OS X. Using the `-O` and `-J` option makes `curl` use the file name suggestion of the server and will overwrite a file if it already exists.

```
pulse:~$ curl -O -J http://192.168.1.100/api/image/connector/edid/transfer
```

Example of file download using the PowerShell on Windows.

```
PS C:\Users\pulse> Invoke-WebRequest -Uri http://192.168.1.100/api/image/connector/edid/transfer -
Method Get -OutFile edid.dat
```

image.processing.blacklevel.file.transfer

Upload and download black level correction file

MODELS All

Upload	Download
Yes	Yes

Example of file upload using the `curl` program.

```
pulse:~$ curl -F file=@blacklevel.dat http://192.168.1.100/api/image/processing/blacklevel/file/
transfer
```

Example of file download using the `curl` program on Linux and Mac OS X. Using the `-O` and `-J` option makes `curl` use the file name suggestion of the server and will overwrite a file if it already exists.

```
pulse:~$ curl -O -J http://192.168.1.100/api/image/processing/blacklevel/file/transfer
```

Example of file download using the PowerShell on Windows.

```
PS C:\Users\pulse> Invoke-WebRequest -Uri http://192.168.1.100/api/image/processing/blacklevel/file/transfer -Method Get -OutFile blacklevel.dat
```

image.processing.blend.file.transfer

Upload and download blend files

MODELS All

Upload	Download
Yes	Yes

Example of file upload using the `curl` program.

```
pulse:~$ curl -F file=@blend.dat http://192.168.1.100/api/image/processing/blend/file/transfer
```

Example of file download using the `curl` program on Linux and Mac OS X. Using the `-O` and `-J` option makes `curl` use the file name suggestion of the server and will overwrite a file if it already exists.

```
pulse:~$ curl -O -J http://192.168.1.100/api/image/processing/blend/file/transfer
```

Example of file download using the PowerShell on Windows.

```
PS C:\Users\pulse> Invoke-WebRequest -Uri http://192.168.1.100/api/image/processing/blend/file/transfer -Method Get -OutFile blend.dat
```

image.processing.warp.file.transfer

Upload and download warp files

MODELS All

Upload	Download
Yes	Yes

Example of file upload using the `curl` program.

```
pulse:~$ curl -F file=@warp.dat http://192.168.1.100/api/image/processing/warp/file/transfer
```

Example of file download using the `curl` program on Linux and Mac OS X. Using the `-O` and `-J` option makes `curl` use the file name suggestion of the server and will overwrite a file if it already exists.

```
pulse:~$ curl -O -J http://192.168.1.100/api/image/processing/warp/file/transfer
```

Example of file download using the PowerShell on Windows.

```
PS C:\Users\pulse> Invoke-WebRequest -Uri http://192.168.1.100/api/image/processing/warp/file/transfer
-Method Get -OutFile warp.dat
```

image.testpattern.file.transfer

Upload and download test pattern images

MODELS All

Upload	Download
Yes	Yes

Example of file upload using the `curl` program.

```
pulse:~$ curl -F file=@testpattern.dat http://192.168.1.100/api/image/testpattern/file/transfer
```

Example of file download using the `curl` program on Linux and Mac OS X. Using the `-O` and `-J` option makes `curl` use the file name suggestion of the server and will overwrite a file if it already exists.

```
pulse:~$ curl -O -J http://192.168.1.100/api/image/testpattern/file/transfer
```

Example of file download using the PowerShell on Windows.

```
PS C:\Users\pulse> Invoke-WebRequest -Uri http://192.168.1.100/api/image/testpattern/file/transfer -
Method Get -OutFile testpattern.dat
```

notification.logger.transfer

Download notification log files

MODELS All

Upload	Download
No	Yes

Example of file download using the `curl` program on Linux and Mac OS X. Using the `-O` and `-J` option makes `curl` use the file name suggestion of the server and will overwrite a file if it already exists.

```
pulse:~$ curl -O -J http://192.168.1.100/api/notification/logger/transfer
```

Example of file download using the PowerShell on Windows.

```
PS C:\Users\pulse> Invoke-WebRequest -Uri http://192.168.1.100/api/notification/logger/transfer -
Method Get -OutFile logger.dat
```

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