OSVP Clip documentation

Introduction

The OSVP Clip (clip) is a collection of metadata parameters sampled over a specified duration. Each parameter is either:

- static: the parameter has at constant value over the duration of the clip
- dynamic: the parameter is sampled at regular intervals over the duration of the clip

Each parameter is identified by a unique name. It also has a general description as well as a specific set of constraints.

Parameters

`active_sensor_physical_dimensions`

Description

Height and width, in microns, of the active area of the camera sensor

Sampling

Static

Constraints

The height and width shall be each be an integer in the range [0..2,147,483,647].

`active_sensor_pixel_dimensions`

Description

Height and width, in pixels, of the active area of the camera sensor

Sampling

Static

Constraints

The height and width shall be each be an integer in the range [0..2,147,483,647].

`duration`

Description

Duration of the clip in seconds

Sampling

Static

Constraints

The parameter shall be a rational number whose numerator and denominator are in the range (0..2,147,483,647].

`entrance_pupil_position`

Description

Entrance pupil of the lens in millimeters

Sampling

Regular

Constraints

The parameter shall be a rational number whose numerator and denominator are in the range (0..2,147,483,647].

`focal_length`

Description

Focal length of the lens in millimeter

Sampling

Regular

Constraints

The parameter shall be a integer in the range (0..2,147,483,647].

`focal_position`

Description

Focus distance/position of the lens millimeters

Sampling

Regular

Constraints

The parameter shall be a integer in the range (0..2,147,483,647].

`fps`

Description

Capture frame frate of the camera in frames per second (fps)

Sampling

Static

Constraints

The parameter shall be a rational number whose numerator and denominator are in the range (0..2,147,483,647].

`iso`

Description

Arithmetic ISO scale as defined in ISO 12232

Sampling

Static

Constraints

The parameter shall be a integer in the range (0..2,147,483,647].

`lens_serial_number`

Description

Unique identifier of the lens

Sampling

Static

Constraints

The parameter shall be a Unicode string betwee 0 and 1023 codepoints.

`t_number`

Description

Thousandths of the t-number of the lens

Sampling

Regular

Constraints

The parameter shall be a integer in the range (0..2,147,483,647].

`white_balance`

Description

White balance of the camera expressed in degrees kelvin.

Sampling

Static

Constraints

The parameter shall be a integer in the range (0..2,147,483,647].

JSON Schema


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"$schema": "https://json-schema.org/draft/2020-12/schema",
"type": "object",
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    "width"
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```

```
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"iso": {
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  "maxLength": 1023
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"t_number": {
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  "items": {
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    "minimum": 1,
    "maximum": 2147483647
```

```
    }
  },
  "white_balance": {
    "type": "integer",
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    "maximum": 2147483647
  }
}```
```