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].