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MovieTrackingCamera(bpy_struct)

```
base class — bpy_struct
```

class bpy.types.MovieTrackingCamera(bpy_struct)

Match-moving camera data for tracking

brown k1

First coefficient of fourth order Brown-Conrady radial distortion

TYPE:

float in [-inf, inf], default 0.0

brown k2

Second coefficient of fourth order Brown-Conrady radial distortion

TYPE:

float in [-inf, inf], default 0.0

brown k3

Third coefficient of fourth order Brown-Conrady radial distortion

TYPE:

float in [-inf, inf], default 0.0

brown k4

Fourth coefficient of fourth order Brown-Conrady radial distortion

TYPE:

float in [-inf, inf], default 0.0

brown p1

First coefficient of second order Brown-Conrady tangential distortion

TYPE:

float in [-inf, inf], default 0.0

brown n2

Second coefficient of second order Brown-Conrady tangential distortion

TYPE:

float in [-inf, inf], default 0.0

distortion model

Distortion model used for camera lenses

- POLYNOMIAL Polynomial Radial distortion model which fits common cameras.
- DIVISION Divisions Division distortion model which better represents wide-angle cameras.
- NUKE Nuke Nuke distortion model.
- BROWN Brown Brown-Conrady distortion model.

TYPE:

enum in ['POLYNOMIAL', 'DIVISION', 'NUKE', 'BROWN'], default 'POLYNOMIAL'

division_k1

First coefficient of second order division distortion

```
float in [-\inf], default 0.0
division_k2
    Second coefficient of second order division distortion
    TYPE:
          float in [-inf, inf], default 0.0
focal_length
    Camera's focal length
    TYPE:
          float in [0.0001, inf], default 0.0
focal_length_pixels
    Camera's focal length
    TYPE:
          float in [0, inf], default 0.0
k1
    First coefficient of third order polynomial radial distortion
    TYPE:
          float in [-inf, inf], default 0.0
k2
    Second coefficient of third order polynomial radial distortion
    TYPE:
          float in [-inf, inf], default 0.0
k3
    Third coefficient of third order polynomial radial distortion
    TYPE:
          float in [-inf, inf], default 0.0
nuke k1
    First coefficient of second order Nuke distortion
    TYPE:
          float in [-inf, inf], default 0.0
nuke_k2
    Second coefficient of second order Nuke distortion
    TYPE:
          float in [-inf, inf], default 0.0
pixel_aspect
    Pixel aspect ratio
    TYPE:
          float in [0.1, inf], default 1.0
```

TYPE:

principal point Optical center of lens TYPE: float array of 2 items in [-1, 1], default (0.0, 0.0) principal_point_pixels Optical center of lens in pixels float array of 2 items in [-inf, inf], default (0.0, 0.0) sensor width Width of CCD sensor in millimeters TYPE: float in [0, 500], default 0.0 units Units used for camera focal length • PIXELS px – Use pixels for units of focal length. • MILLIMETERS mm—Use millimeters for units of focal length. TYPE: enum in ['PIXELS', 'MILLIMETERS'], default 'PIXELS' classmethod bl_rna_get_subclass(id, default=None) **PARAMETERS:** id (str) – The RNA type identifier. **RETURNS:** The RNA type or default when not found. **RETURN TYPE:** bpy.types.Struct subclass classmethod bl_rna_get_subclass_py(id, default=None) **PARAMETERS:** id(str) – The RNA type identifier. **RETURNS:** The class or default when not found. **RETURN TYPE:** type

Inherited Properties

• bpy_struct.id_data

Inherited Functions

- bpy_struct.as_pointer
- bpy_struct.driver_add
- har starre duffer and

- bpy_struct.items
- bpy_struct.keyframe_delete
- har stance hareness facult

- ppy struct.ariver remove
- bpy_struct.get
- bpy struct.id properties clear
- bpy struct.id properties ensure
- bpy_struct.id_properties_ui
- bpy_struct.is_property_hidden
- bpy struct.is property overridable library bpy struct.property unset
- bpy_struct.is_property_readonly
- bpy struct.is property set

- ppy struct.keyrrame insert
- bpy_struct.keys
- bpy struct.path from id
- bpy struct.path resolve
- bpy struct.pop
- bpy_struct.property_overridable_library_set
- bpy_struct.type_recast
- bpy struct.values

References

• MovieTracking.camera

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