MovieTrackingSettings(bpy_struct)

base class — bpy_struct

class bpy.types.**MovieTrackingSettings(bpy_struct)**

Match moving settings

clean_action

Cleanup action to execute

- SELECT Select – Select unclean tracks.
- DELETE_TRACK Delete Track – Delete unclean tracks.
- DELETE_SEGMENTS Delete Segments – Delete unclean segments of tracks.

TYPE:

enum in ['SELECT', 'DELETE_TRACK', 'DELETE_SEGMENTS'], default 'SELECT'

clean_error

Effect on tracks which have a larger re-projection error

TYPE:

float in [0, inf], default 0.0

clean_frames

Effect on tracks which are tracked less than the specified amount of frames

TYPE:

int in [0, inf], default 0

default_correlation_min

Default minimum value of correlation between matched pattern and reference that is still treated as successful tracking

TYPE:

float in [0, 1], default 0.0

default_frames_limit

Every tracking cycle, this number of frames are tracked

TYPE:

int in [0, 32767], default 0

default_margin

Default distance from image boundary at which marker stops tracking

TYPE:

int in [0, 300], default 0

default_motion_model

Default motion model to use for tracking

- Perspective Perspective – Search for markers that are perspectively deformed (homography) between frames.
- Affine Affine – Search for markers that are affine-deformed (t, r, k, and skew) between frames.
- LocRotScale Location, Rotation & Scale – Search for markers that are translated, rotated, and scaled between frames.
- LocScale Location & Scale – Search for markers that are translated and scaled between frames.
- LocRot Location & Rotation – Search for markers that are translated and rotated between frames.

- `Loc` Location – Search for markers that are translated between frames.

TYPE:

enum in ['Perspective', 'Affine', 'LocRotScale', 'LocScale', 'LocRot', 'Loc'], default 'Loc'

default_pattern_match

Track pattern from given frame when tracking marker to next frame

- `KEYFRAME` Keyframe – Track pattern from keyframe to next frame.
- `PREV_FRAME` Previous frame – Track pattern from current frame to next frame.

TYPE:

enum in ['KEYFRAME', 'PREV_FRAME'], default 'KEYFRAME'

default_pattern_size

Size of pattern area for newly created tracks

TYPE:

int in [5, 1000], default 0

default_search_size

Size of search area for newly created tracks

TYPE:

int in [5, 1000], default 0

default_weight

Influence of newly created track on a final solution

TYPE:

float in [0, 1], default 0.0

distance

Distance between two bundles used for scene scaling

TYPE:

float in [-inf, inf], default 1.0

object_distance

Distance between two bundles used for object scaling

TYPE:

float in [0.001, 10000], default 1.0

refine_intrinsics_focal_length

Refine focal length during camera solving

TYPE:

boolean, default False

refine_intrinsics_principal_point

Refine principal point during camera solving

TYPE:

boolean, default False

refine_intrinsics_radial_distortion

Refine radial coefficients of distortion model during camera solving

TYPE:

boolean, default False

refine_intrinsics_tangential_distortion

Refine tangential coefficients of distortion model during camera solving

TYPE:

boolean, default False

speed

Limit speed of tracking to make visual feedback easier (this does not affect the tracking quality)

- `FASTEST` Fastest – Track as fast as possible.
- `DOUBLE` Double – Track with double speed.
- `REALTIME` Realtime – Track with realtime speed.
- `HALF` Half – Track with half of realtime speed.
- `QUARTER` Quarter – Track with quarter of realtime speed.

TYPE:

enum in ['FASTEST', 'DOUBLE', 'REALTIME', 'HALF', 'QUARTER'], default 'FASTEST'

use_default_blue_channel

Use blue channel from footage for tracking

TYPE:

boolean, default False

use_default_brute

Use a brute-force translation-only initialization when tracking

TYPE:

boolean, default False

use_default_green_channel

Use green channel from footage for tracking

TYPE:

boolean, default False

use_default_mask

Use a Grease Pencil data-block as a mask to use only specified areas of pattern when tracking

TYPE:

boolean, default False

use_default_normalization

Normalize light intensities while tracking (slower)

TYPE:

boolean, default False

use_default_red_channel

Use red channel from footage for tracking

TYPE:

boolean, default False

use_keyframe_selection

Automatically select keyframes when solving camera/object motion

TYPE:

boolean, default False

use_tripod_solver

Use special solver to track a stable camera position, such as a tripod

TYPE:

boolean, default False

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`
- `bpy_struct.driver_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.is_property_readonly`
- `bpy_struct.is_property_set`
- `bpy_struct.items`
- `bpy_struct.keyframe_delete`
- `bpy_struct.keyframe_insert`
- `bpy_struct.keys`
- `bpy_struct.path_from_id`
- `bpy_struct.path_resolve`
- `bpy_struct.pop`
- `bpy_struct.property_overridable_library_set`
- `bpy_struct.property_unset`
- `bpy_struct.type_recast`
- `bpy_struct.values`

References

- `MovieTracking.settings`