

Rotation scanning

 This option is available only for Dibox 360 hardware. Stacking is available for Dibox 360 with liquid lens.

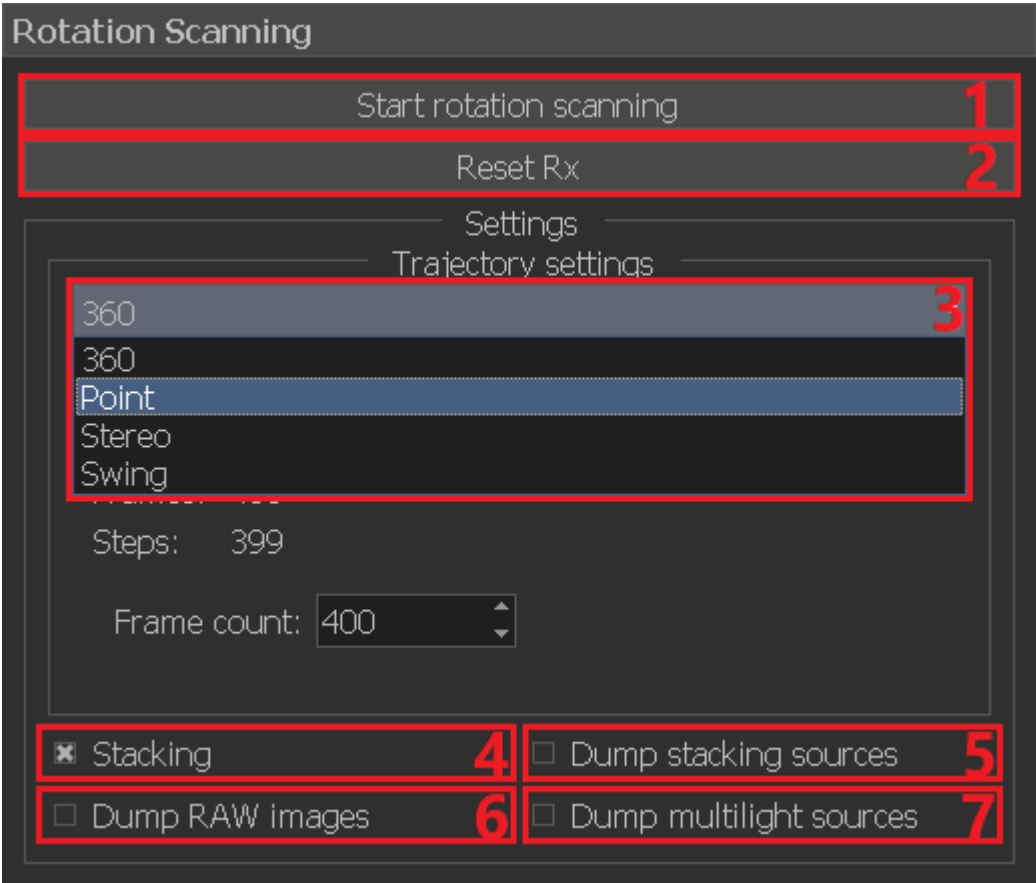
- Brief description of UI elements
 - Common controls
 - Trajectory controls
 - 360
 - Point
 - Stereo
 - Swing
- Step-by-step guide

Brief description of UI elements

In DiBox360 (with automatic Rx-motor) it is possible to get a set of frames taken when the observed object rotates around the vertical axis along the selected trajectory using the **Rotation scanning** tool.

The UI panel locates on the right panel in the **Tools** plugins tab. The controls described below are the same for all trajectories.

Common controls



- Button to start scanning along the selected trajectory
- Button for reset Rx-motor to zero position
- List for selecting available rotation trajectories around the vertical axis. You can choose one of the following values:
 - 360 - getting the specified number of frames taken when the observed object rotates 360° around the vertical axis
 - Point - getting a frame at the current position of the Rx-motor
 - Stereo - getting frames at two different positions of the Rx-motor with the specified angle between them
 - Swing - getting the specified number of frames taken when the observed object swings around the vertical axis with the specified amplitude (in both directions) relative to the current position of the Rx-motor
- Flag to enable stacking (expanding the depth of field) at each point of a given trajectory
- Flag to enable saving source data for stacking to disk. Available only when stacking (flag 4) is activated
- Flag to enable saving RAW data of camera to disk. Available only when stacking (flag 4) is not activated
- Flag to enable saving source data for multilight to disk. Available only if multilight mode is activated, but stacking is not activated

Trajectory controls

360

When you select **360** trajectory, you will get the specified number of frames taken when the observed object rotates 360° around the vertical axis

Rotation Scanning

Start rotation scanning

Reset Rx

Settings

Trajectory settings

360

Angles: -22.0818 .. 337.0181

Step °: 0.92

Frames: 4003

Steps: 3994

Frame count: 4005

☒ Stacking☐ Dump stacking sources

☐ Dump RAW images☐ Dump multilight sources

1. The range of the Rx-motor in which the scan will be performed
2. The scan step in degrees
3. The number of frames that will be taken as a result. This value can be change in field 5
4. The number of scanning steps
5. The number of frames that will be taken as a result

Point

When you select **Point** trajectory, you will get a frame at the current position of the Rx-motor

Rotation Scanning

Start rotation scanning

Reset Rx

Settings

Trajectory settings

Point

Angles: -22.0818 .. -22.08181

Step °: 02

Frames: 13

Steps: 04

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1. The range of the Rx-motor in which the scan will be performed
2. The scan step in degrees
3. The number of frames that will be taken as a result
4. The number of scanning steps

Stereo

When you select **Stereo** trajectory, you will get frames at two different positions of the Rx-motor with the specified angle between them

Rotation Scanning

Start rotation scanning

Reset Rx

Settings

Trajectory settings

Stereo

Angles: -25.0818 .. -19.08181

Step °: 62

Frames: 23

Steps: 14

Angle between frames: 6,005

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1. The range of the Rx-motor in which the scan will be performed
2. The scan step in degrees
3. The number of frames that will be taken as a result
4. The number of scanning steps
5. The angle between the captured frames in degrees

Swing

When you select **Swing** trajectory, you will get the specified number of frames taken when the observed object swings around the vertical axis with the specified amplitude (in both directions) relative to the current position of the Rx-motor

Rotation Scanning

Start rotation scanning

Reset Rx

Settings

Trajectory settings

Swing

Angles: -33.0818 .. -11.08181

Step °: 0.222

Frames: 1013

Steps: 1004

5 Amplitude °: 11,00Step count: 1006

☒ Stacking☐ Dump stacking sources☐ Dump RAW images☐ Dump multilight sources

- 1. The range of the Rx-motor in which the scan will be performed
- 2. The scan step in degrees
- 3. The number of frames that will be taken as a result
- 4. The number of scanning steps. This value can be change in field 6
- 5. The swing amplitude in degrees
- 6. The number of scanning steps

Step-by-step guide

Reset the Rx-motor to zero position if you want the first image in the set to correspond to the zero motor position. Just click the corresponding **button 2** (see the section [Common controls](#)).

Select in the **list 3** the target trajectory along which you want to scan and adjust the trajectory (for details, see the section [Trajectory controls](#))

Check **flag 4** if you want to enable stacking (expanding the depth of field) at each point of a given trajectory. After that, check **flag 5** if you want to enable saving source data to disk. Also check **flags 6** and **7** as needed.

After all this, start the rotation scan by clicking on the corresponding **button 1**.

Wait for the end of the active scanning process. While scanning and saving data, the GUI of the application will be unavailable. You can track the progress of the scanning process using the progress bar.

Scanning process...

25%

Cancel

To terminate the active scanning process early, you can click on the **Cancel** button.

At the end of the process, the resulting data will automatically be opened in a separate tab where you can play them like a video. All saved image sets can be found in the **Scan** folder, which is located in the root folder of the application.