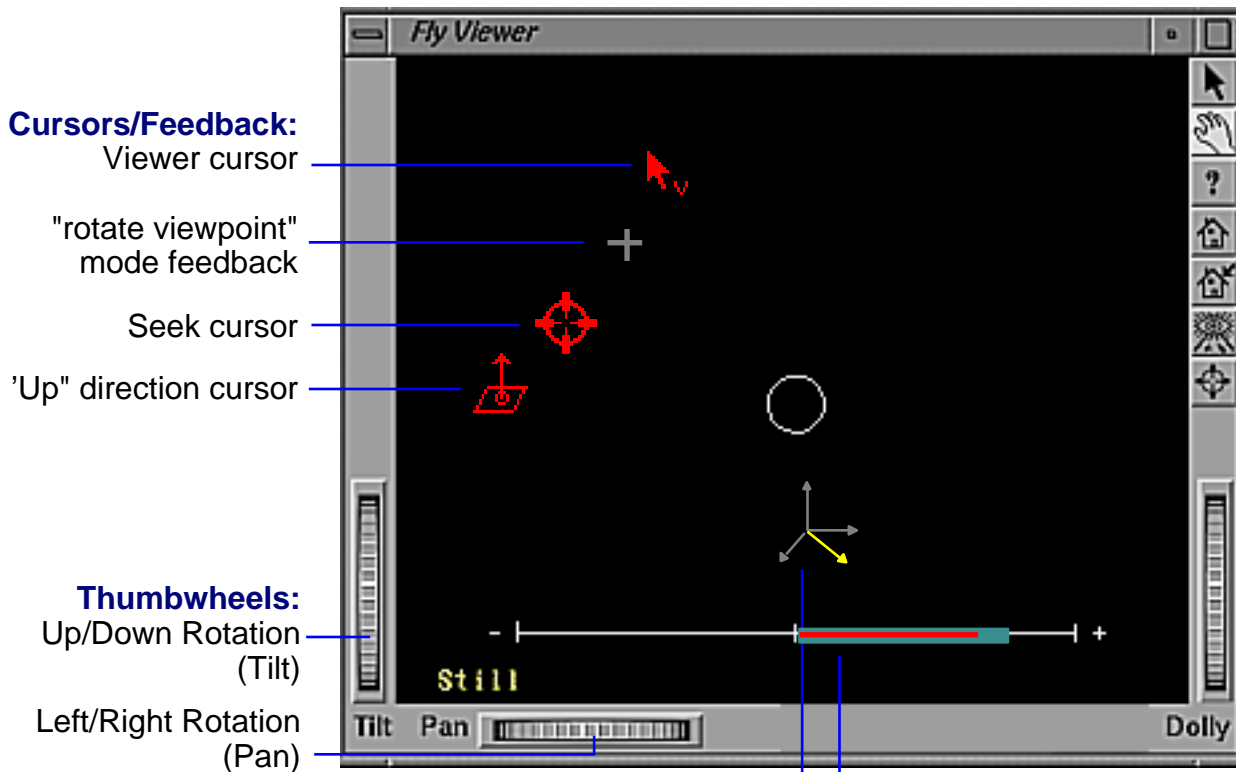


# FlyViewer

## Description:

This viewer is intended to simulate constrained flight through space, with a constant world up direction. The viewer only constrains the camera to disallow the user to fly upside down. No mouse buttons need to be pressed in order to fly—mouse position is only used for steering. Mouse clicks are used to increase or decrease speed.



### Cursors/Feedback:

Viewer cursor

"rotate viewpoint"  
mode feedback

Seek cursor

'Up' direction cursor

### Thumbwheels:

Up/Down Rotation  
(Tilt)

Left/Right Rotation  
(Pan)

### Other Keys:

#### Ctrl:

Stop and rotate viewpoint

#### <u>:

Sets "up" direction. Default is +y. Press (do not hold down) <u> key and click on an object with the Left Mouse to set up direction to be the surface normal.

### Other Feedback:

Bar shows maximum (cyan) and current (red) speed.

Forward motion right of center tick mark, backward is left.

Text label shows current action.

Yellow arrow points at center of bounding volume. Arrow is purple when pointing away from you.

Gray circle at center is neutral zone.



### Left Mouse:

Click to increase speed.

### Middle Mouse:

Click to decrease speed.

### Left and Middle Mouse:

Click both simultaneously to stop.

### <s> + Click:

Alternative to "Seek" button. Press (do not hold down) <s> key, then click on target object.

### <u> + Click:

Press (do not hold down) <u> key then click on target object to set "up" direction to surface normal.

### Right Mouse:

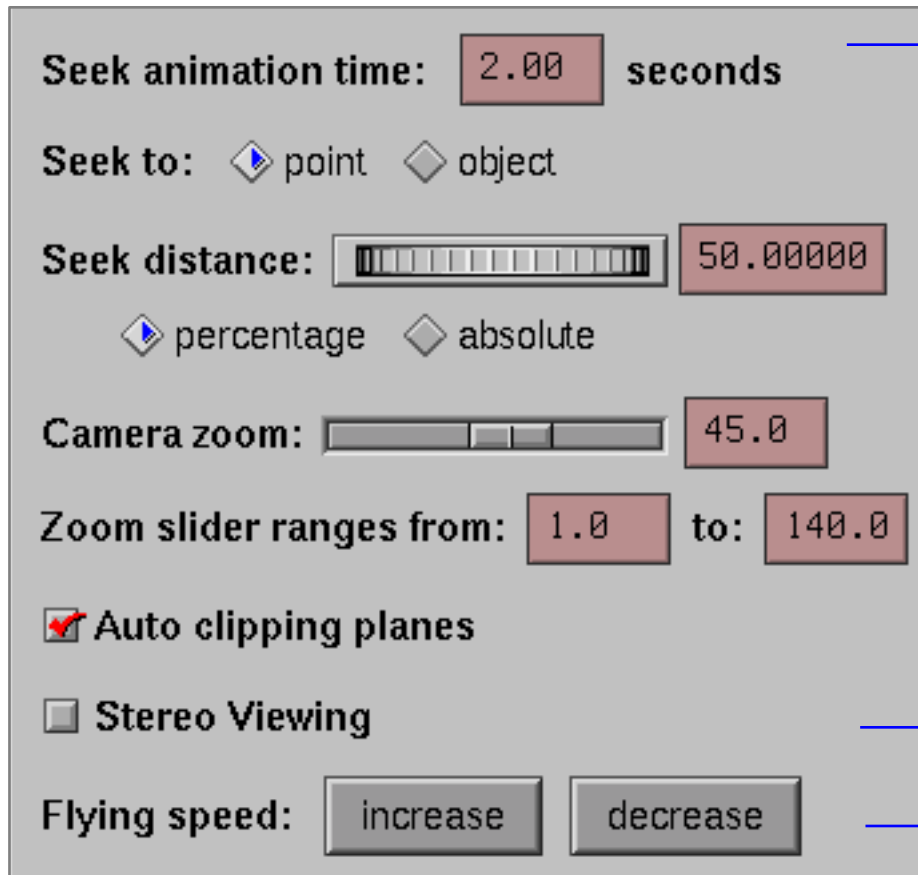
Pop-Up menus



## FlyViewer Preference Sheet

### Description:

In addition to the Base Class Viewer preferences, there are two buttons for controlling the initial flying speed.



The image shows a 'FlyViewer Preference Sheet' dialog box with the following controls:

- Seek animation time:** A text field containing '2.00' followed by the unit 'seconds'.
- Seek to:** Two radio buttons labeled 'point' (selected) and 'object'.
- Seek distance:** A slider bar with a value of '50.00000' displayed to its right.
- percentage / absolute:** Two radio buttons labeled 'percentage' (selected) and 'absolute'.
- Camera zoom:** A slider bar with a value of '45.0' displayed to its right.
- Zoom slider ranges from:** A text field containing '1.0' followed by 'to:' and another text field containing '140.0'.
- Auto clipping planes:** A checked checkbox.
- Stereo Viewing:** An unchecked checkbox.
- Flying speed:** Two buttons labeled 'increase' and 'decrease'.

**Seek, zoom, clipping planes and Stereo viewing** are described in the Base Class Viewer Preference Sheet (Menu icon).

The initial flying speed may be increased or decreased

The initial flying(which is based on the scene size) speed may be increased or decreased

