

# Modifier: Overview

In contrast to the renderer and the utility plug-ins, the **Modifier** allows specific adjustments for lines and colors to “sub-objects” (i.e. specific object mesh selections). Moreover, this plug-in offers the possibility to **animate** special **Lasershow Converter MAX** settings like native 3ds Max settings in a scene.

The Settings established by the Render Settings dialog and Utility plug-in normally work on entire objects of a scene, and these settings remain unchanged during the time period of the scene. The modifier plug-in allows you to make settings on the whole object if desired, and also to sub-objects (specific mesh selections) using the powerful 3ds Max selection tools like the **Mesh Select** or **Edit Mesh modifiers**. And unlike the Render settings and Utility plug-in settings the Modifier settings are animateable. This works on the mesh selections's line types and color settings.

**Note:** While it is possible to adjust the Line Types, Contours, and Colors to individual mesh edges and other parts of an object, it is only possible to adjust the Intersections, Filter settings and Point spacing, Soft Line and Beam Brush for “whole object” selections.

The screenshot displays the 'LC-Max Modifier' interface for a 'Sphere' object. The interface is organized into several expandable sections:

- Line Types and Colors:** Includes options for Silhouette, Silhouette + Folds, Creases, Material Change, MAX-defined, and All polygon lines. Under 'Diffuse color', 'Custom color' is selected and highlighted in red.
- Intersections:** Includes 'Intersections with others' and 'Intersections within self'. A dropdown menu for 'Color of intersecting lines' is set to 'Color of this object'.
- Contours:** Contains three sections for 'Enable Contours 1', '2', and '3'. Each section has a 'Contour Axis' dropdown (set to Object Z, X, and Y respectively), 'Contour Lines' (set to 10), 'Start (percent)' (0.0), and 'End (percent)' (100.0).
- Object filter settings:** Includes 'Gap filter' (Gap distance: 0.1), 'Overlap filter' (Overlap distance: 0.5, Overlap angle: 20.0), and 'Noise filter' (Minimum length: 3.0). There are also checkboxes for 'Intersection flickering' and 'Filter across objects'.
- Object point spacing (top):** Includes 'AutoBlank Points' (at line endings: 4, at round overlaps: 4) and 'AutoAnchor Points' (Accelerate/Decelerate checked).
- Object point spacing (bottom):** Includes 'AutoBlank Points' (at line endings: 4, at round overlaps: 4), 'AutoAnchor Points' (Accelerate/Decelerate checked, at line beginnings: 2, at line endings: 2, at round overlaps: 0, at corners: 0°-45°: 4, 45°-90°: 4, 90°-135°: 3, 135°-155°: 2, 155°-165°: 0, 165°-175°: 0, corner detect: 50), and 'AutoSpace Distance' (blanked lines: 800, straight lines: 300, curved lines: 35, curve detect: 50).

## Modifier plug-in features

- [Modifier: Line Types](#)
- [Modifier: Color](#)
- [Modifier: Contours](#)

## Advanced topics

- [Tips: Using the Mesh Selection and the Modifier Plug-in](#)

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