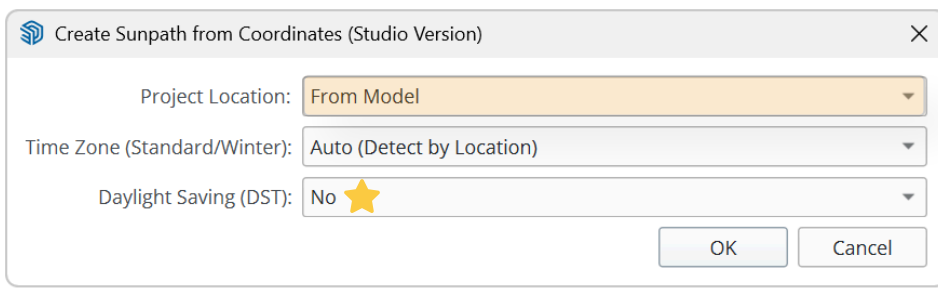
## Create a 3D Sunpath from Coordinates (Feature 1)

You can generate a 3D sunpath by simply entering your project's location.

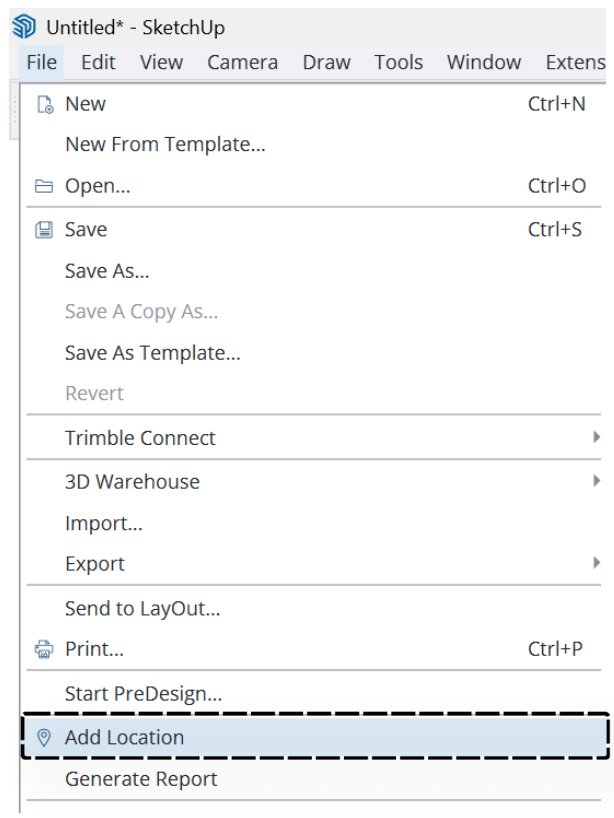
There are 2 input methods:

### Option A - From Model

Use the project coordinates already embedded in your SketchUp model.

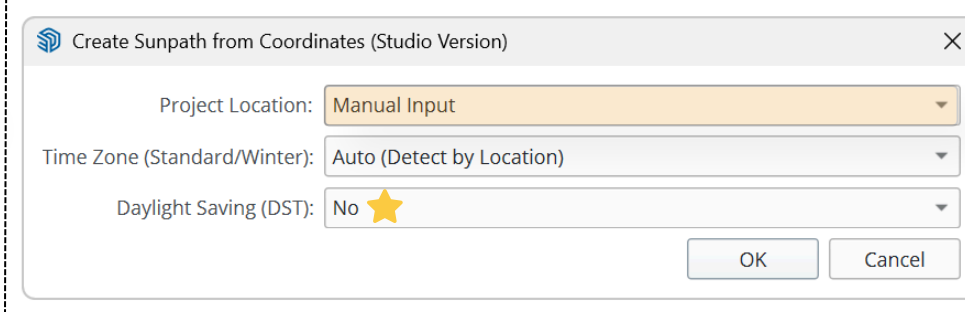



Coordinates can be preloaded via File -> Add Location.

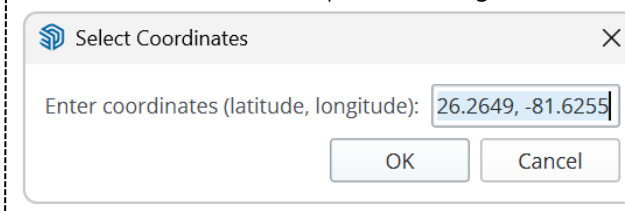



### Option B – Manual Input

Manually enter latitude and longitude.




Coordinates can be copied directly from Google Maps



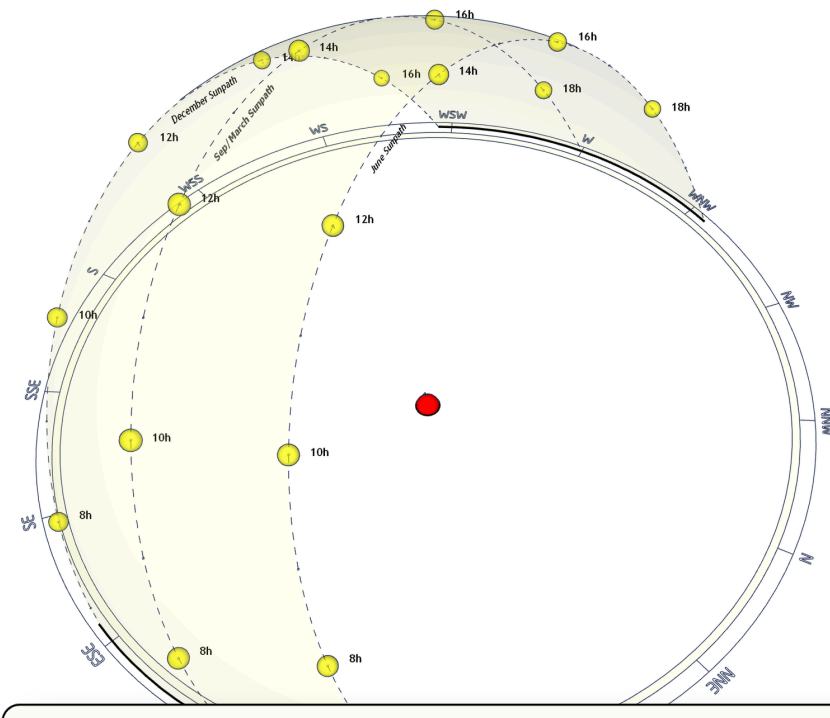

or any map service that provides coordinates (format example: 26.2649, -81.6255).

**Time Zone (Standard/ Winter)**

Please manually adjust the UTC value if the system does not correctly recognize the study location.

### Results:

Once the coordinates are set, Sun Diagram will automatically place the 3D sunpath in your model.
Both methods (From Model or Manual Input) generate the same result.




**Daylight Saving Time (DST) Support:**

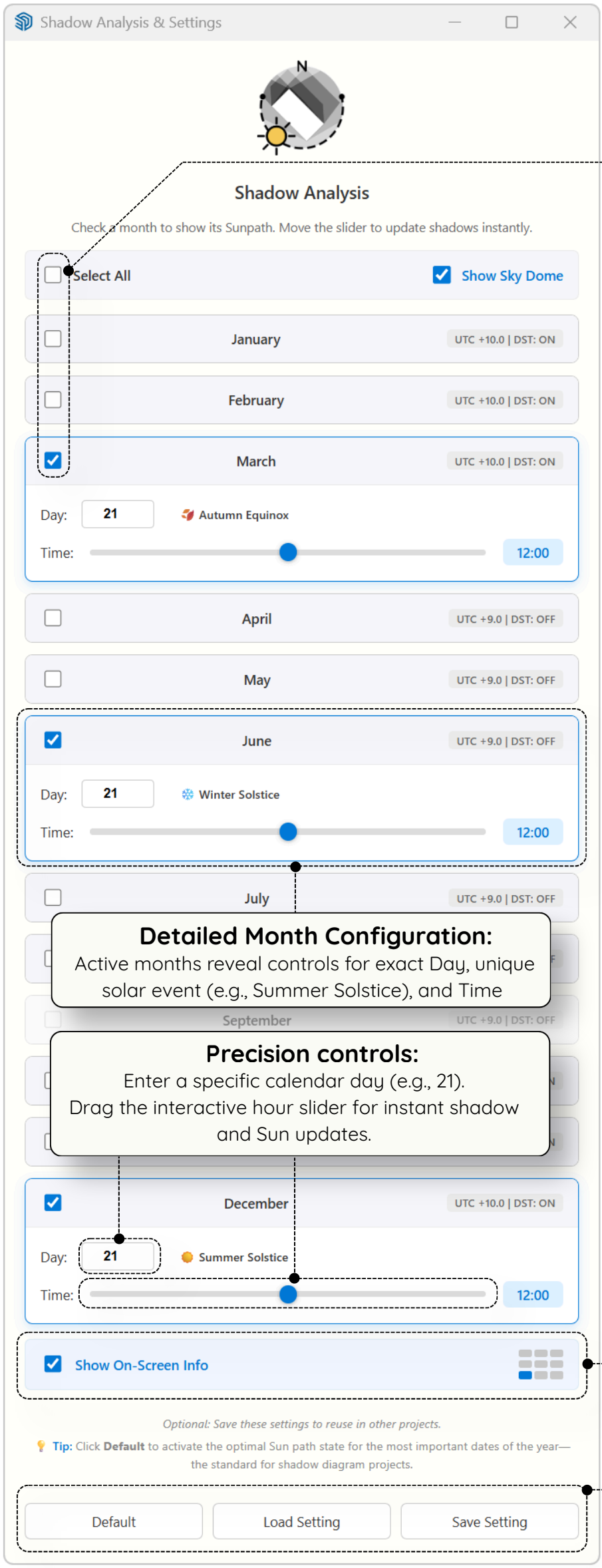
In countries with seasonal time changes, you can enable DST for more accurate solar analysis.

**Guide: How to Determine if Your Project Location Requires Daylight Saving Time (DST):**

https://archidiagram.com/check-dst-project-location/

## Shadow Analysis (Feature 2)

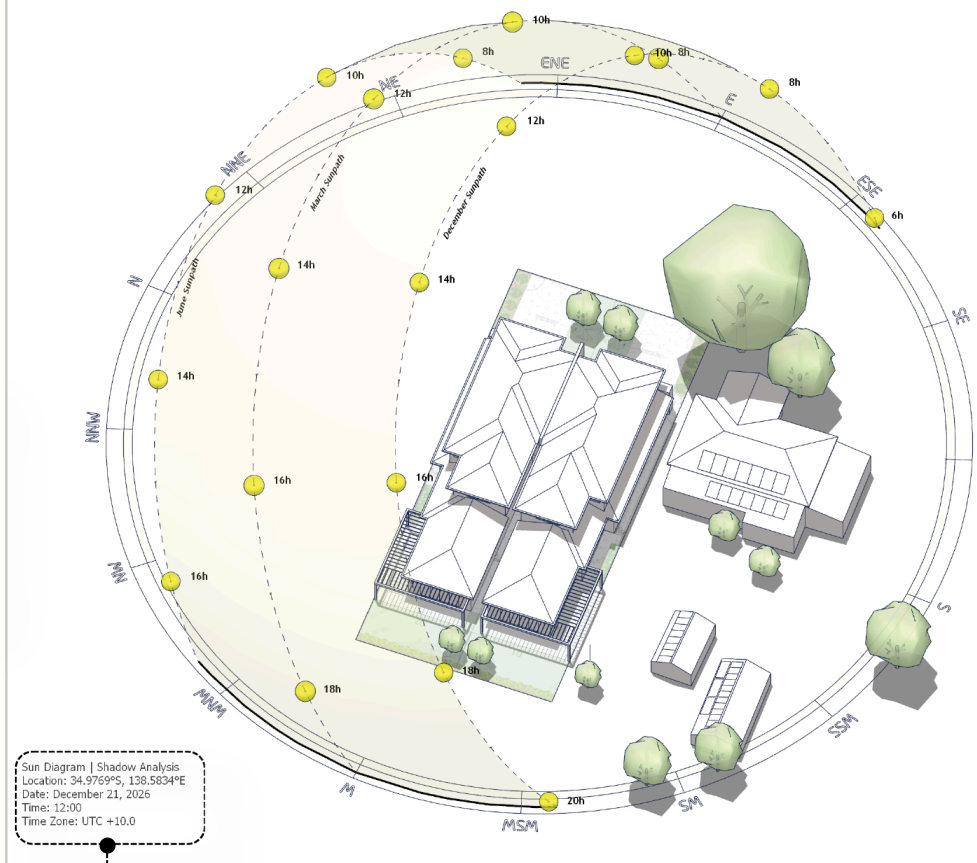
Simulate shadows and sun positions instantly for any selected time frame — no more guessing or manual adjustments. This automated workflow eliminates the need for manual setup and prevents errors caused by constantly switching UTC in regions with Daylight Saving Time (DST).




**Each month expands for detailed settings**
Toggles to enable analysis for specific calendar months.

**Detailed Month Configuration:**
Active months reveal controls for exact Day, unique solar event (e.g., Summer Solstice), and Time

**Precision controls:**
Enter a specific calendar day (e.g., 21).
Drag the interactive hour slider for instant shadow and Sun updates.




The 3D Sun path in the model

**Contextual Data**
Text display showing precise details: Location, Date, Time, and active Time Zone.
Use the 3x3 grid to snap text to any corner.

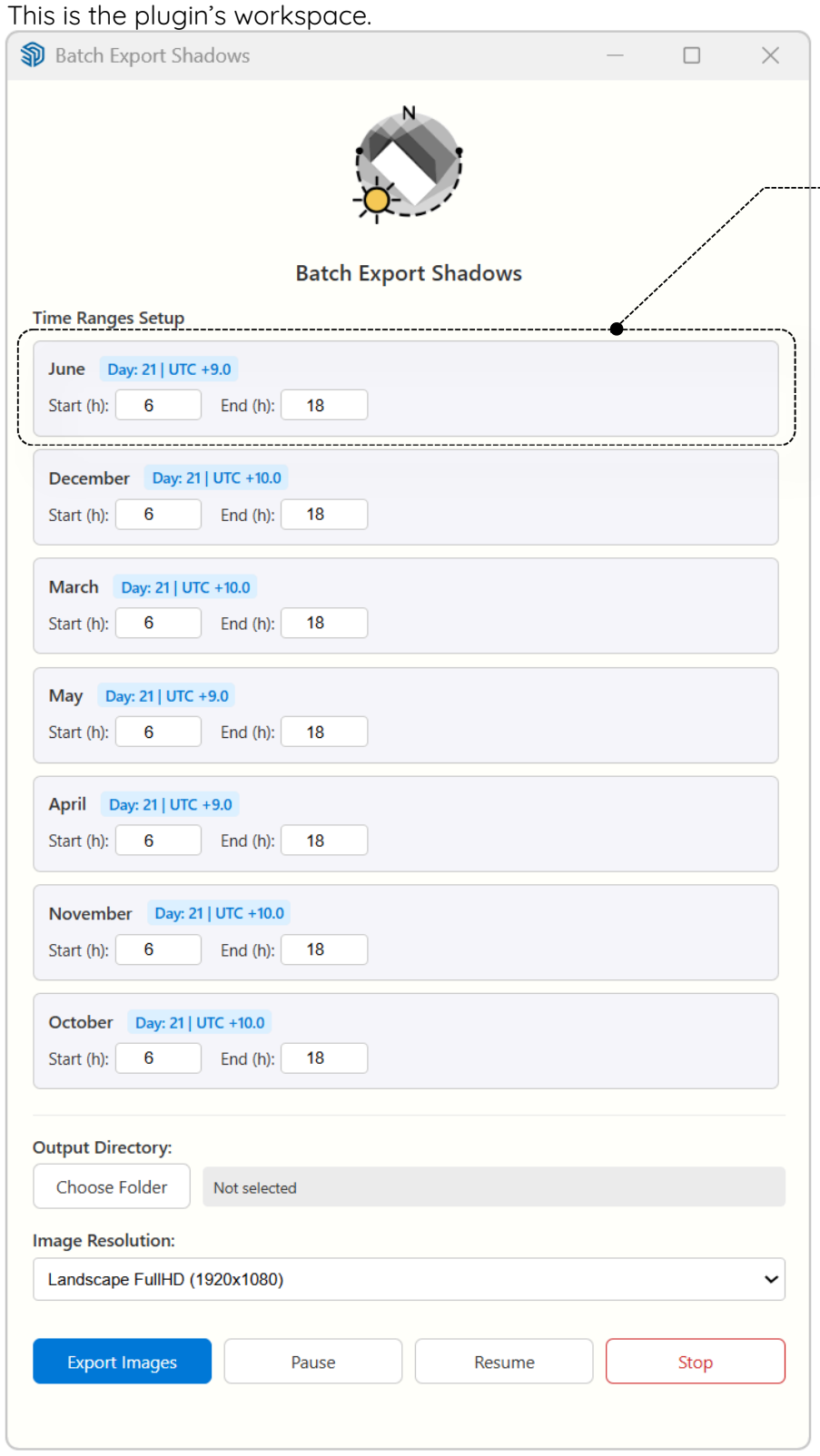
**Configuration Manager**
Restore to “Default’ optimal state for standard studies. "Save" and "Load" settings for future use.

This is the plugin’s workspace.

## Batch Export Images (Feature 3)

Batch export shadow and Sun position images with a single click.
This automated workflow utilizes your Shadow Analysis settings to instantly generate presentation-ready images for any time frame.

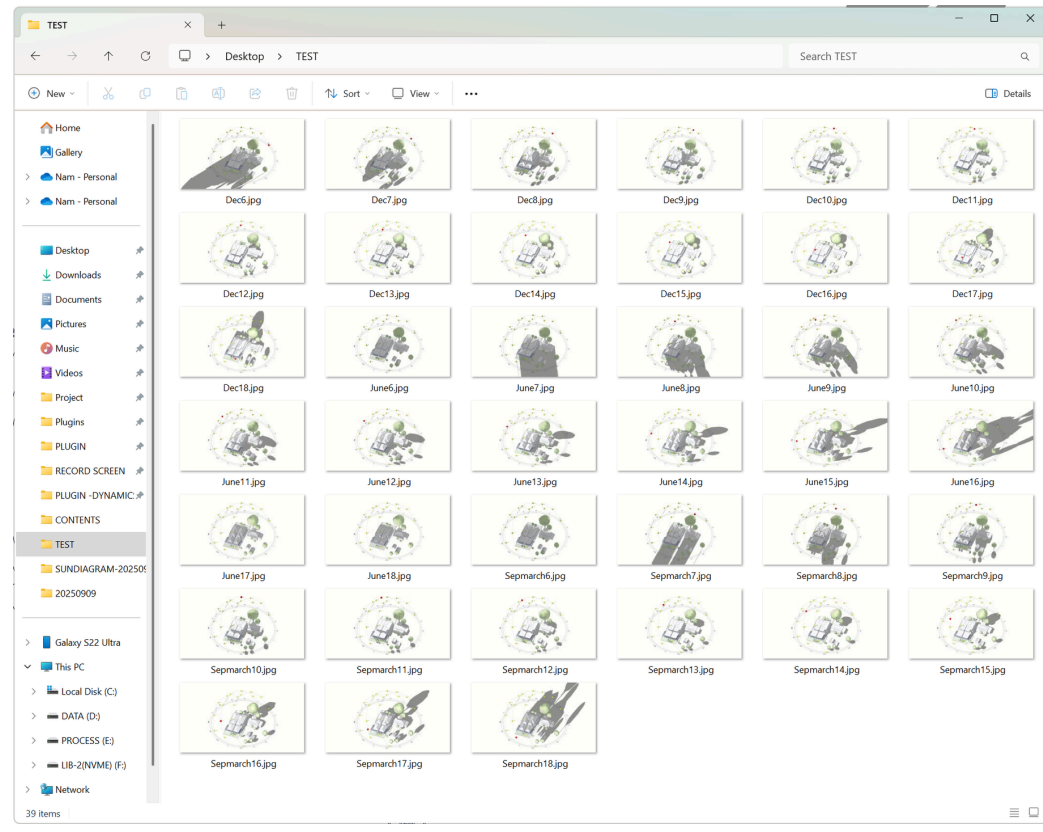
This is the plugin's workspace.




### Multi-Month Time Ranges

Define specific Start and End hours for each active month. The system automatically syncs the Day and Time Zone settings directly from your Shadow Analysis panel.

Select the time range and image size, then click **Export Images.** The system will automatically generate all images for you.

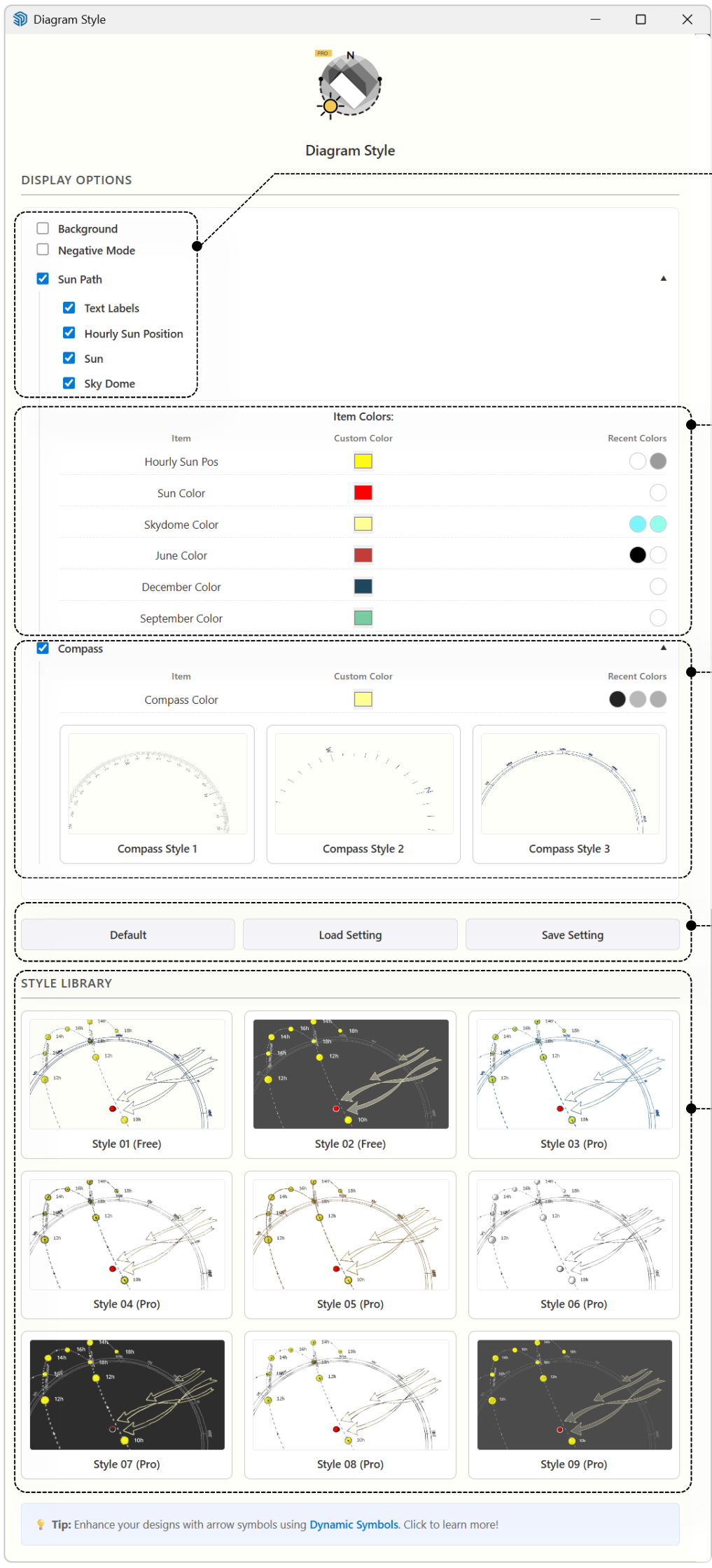



You can then **combine** the exported images into a video using tools like CapCut, Photoshop, or AE or simply **merge** them into a **PDF** for easy viewing.

# Diagram Style (Feature 4)

**Find** the perfect style for your project — instantly, with just one click.
When you **activate** a style, the system will **automatically** load it into your model and adjust (enable/disable) the Sun Path layers (tags) accordingly.

This is the plugin's workspace.




## Layer Visibility & Display Mode

Toggle visibility for specific components like the Sun Path, Text Labels, Sun, and Sky Dome. Enable Negative Mode to instantly switch to a dark theme with automatically adjusted shadow and text contrast.

## Custom Color Controls

Personalize individual elements (Sun, Sky Dome, Compass, specific Months) using the built-in color picker. The system intelligently saves your Recent Colors for quick and consistent reuse.

## Compass Variations

Choose from multiple pre-designed Compass Styles to best complement your project's presentation aesthetic.

## Configuration Manager

Restore to Default optimal state. Save your personalized color and visibility settings, or Load them for use in future projects.

## One-Click Style Library

Access a library of pre-configured aesthetic styles. Click any thumbnail to open a Preview dialog, then instantly Apply the style to your entire model.