

Measurement Toolkit – After Effects

Help File

Prerequisites

- Compatible with Adobe After Effects CC 2021 and newer versions.
- No third-party plugins required.
- Basic knowledge of placeholders, Control Panels, and shape layers is recommended.

Fonts Used :

- Inter → <https://fonts.google.com/specimen/Inter>
 - Montserrat → <https://fonts.google.com/specimen/Montserrat>
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Project Overview

Measurement Toolkit is a professional motion graphics pack designed to create measurement overlays, technical callouts, dimension indicators, angle measurements, circular measurements, and annotation animations.

The project includes:

- Measurement Line
- Measurement Rectangle
- Measurement Circle
- Measurement Filled Circle
- Measurement Angle

All measurement styles follow the same editing workflow and Control Panel structure.

Main Modules

Included measurement modules:

Measurement Line

Uses two points to create a dynamic measurement line.

Measurement Rectangle

Uses four points to create a dynamic rectangle measurement.

Measurement Circle

Uses circular measurement indicators and follows the same control structure.

Measurement Filled Circle

Uses filled circular overlays and follows the same control structure.

Measurement Angle

Measures and displays angles using the same editing workflow

Open any measurement composition you want to customize.

Measurement Rectangle

- Open the **!Measurement Rectangle** composition.
 - Select the **Control Panel** layer.
 - Press **F3** to open Effect Controls.
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Color Controls

- **Line Color** – Adjust this to change the main measurement line color.
- **Horizontal/Vertical Line Color** – Adjust this to change helper line colors.
- **Value Color** – Adjust this to change measurement text color.
- **Value BG Color** – Adjust this to change value label background color.

- **Value BG Stroke Color** – Adjust this to change value label border color.
 - **Arrow Color** – Adjust this to change arrow color.
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Main Controls

Automated / Manual

- **Automated / Manual** – Switch between automatically calculated values and custom manual values.
 - **Measurement On/Off** – Show or hide the entire measurement system.
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Point Controls

- **Point 1** – Defines the first corner point.
- **Point 2** – Defines the second corner point.
- **Point 3** – Defines the third corner point.
- **Point 4** – Defines the fourth corner point.

Moving the points automatically updates the measurement rectangle.

Manual Values

Used when Manual Mode is enabled.

- **Manual Line Value 1** – Sets a custom value for line 1.
- **Manual Line Value 2** – Sets a custom value for line 2.
- **Manual Line Value 3** – Sets a custom value for line 3.
- **Manual Line Value 4** – Sets a custom value for line 4.
- **Manual Area Value** – Sets a custom area value.

Value Options

- **Value Offset** – Adds an offset value to the calculated measurements.
 - **Value Multiply** – Multiplies all measurement values by a custom factor.
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Value Formatting

- **Prefix On/Off** – Show or hide value prefixes.
 - **Suffix On/Off** – Show or hide value suffixes.
 - **Decimal Point Count** – Controls the number of decimal places displayed.
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Advanced Controls

Measurement Controls

- **Line 1 Value On/Off** – Show or hide line 1 measurement.
 - **Line 2 Value On/Off** – Show or hide line 2 measurement.
 - **Line 3 Value On/Off** – Show or hide line 3 measurement.
 - **Line 4 Value On/Off** – Show or hide line 4 measurement.
 - **Area Value On/Off** – Show or hide area measurement.
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Arrow Controls

- **Arrow On/Off** – Show or hide measurement arrows.
- **Arrow Size** – Adjust the size of all arrows.
- **Arrow Opacity** – Adjust arrow visibility.

- **Arrow Thickness** – Adjust arrow stroke thickness.
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Line Controls

- **Dotted Lines** – Switch between solid and dotted measurement lines.
 - **Line Opacity** – Adjust visibility of measurement lines.
 - **Line Thickness** – Adjust thickness of main measurement lines.
 - **Horizontal/Vertical L Thickness** – Adjust helper line thickness.
 - **Horizontal/Vertical L Opacity** – Adjust helper line visibility.
 - **Dotted Line Thickness** – Adjust dotted line thickness.
 - **Dotted Line Gap** – Adjust spacing between dotted line segments.
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Value BG Controls

- **Responsive Value Flip** – Automatically flips labels when space becomes limited.
 - **Value BG Rotation Type** – Controls label rotation behavior.
 - **Value BG Size** – Adjusts value label background size.
 - **Value BG Position** – Moves value label backgrounds.
 - **Value BG Roundness** – Controls label corner roundness.
 - **Value BG Opacity** – Controls label background visibility.
 - **Value BG Stroke Opacity** – Controls label border visibility.
 - **Value BG Stroke Width** – Controls label border thickness.
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Text Controls

- **Text Opacity** – Controls measurement text visibility.

Global Controls

- **Global Position** – Moves the entire measurement layout.
 - **Global Scale** – Scales the entire measurement layout proportionally.
 - **Global Rotation** – Rotates the entire measurement layout.
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Overlay Controls

Color Controls

- **Circle Outline Color** – Changes circle overlay outline color.
 - **Circle Center Point Color** – Changes center point color.
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Main Controls

- **Circle Overlay On/Off** – Show or hide the circle overlay.
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Circle Controls

- **Circle Outline Size** – Adjusts circle overlay size.
 - **Circle Outline Opacity** – Controls circle visibility.
 - **Circle Outline Stroke Width** – Controls outline thickness.
 - **Circle Center Point Size** – Adjusts center point size.
 - **Circle Center Point Opacity** – Controls center point visibility.
 - **Circle Overlay Common Opacity** – Controls overall overlay visibility.
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Overlay Global Controls

- **Global Position** – Moves the overlay globally.
 - **Global Scale** – Scales the overlay proportionally.
 - **Global Rotation** – Rotates the overlay.
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Editable Text Layers

You can directly edit the following text layers:

- **Value Prefix 1** – Edit the prefix text for measurement value 1.
- **Value Prefix 2** – Edit the prefix text for measurement value 2.
- **Area Prefix** – Edit the prefix text displayed before the area value.
- **Area Suffix** – Edit the suffix text displayed after the area value.
- **Value Suffix** – Edit the suffix text displayed after measurement values.

Double-click any text layer and enter your custom text.

Point Controls

Included editable point compositions:

- **Point 1**
- **Point 2**
- **Point 3**
- **Point 4**

Open any Point composition.

Select the **Control Panel** layer and press **F3** to open Effect Controls.

Color Controls

- **Element Color** – Adjust this to change the point element color.
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Main Controls

- **Element Type** – Switch between different point marker styles such as lines, circles, boxes, arrows, and placeholder elements.
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Advanced Controls

Line Control

- **Line Size** – Adjust this to change line length and thickness.
 - **Line Opacity** – Adjust this to control line visibility.
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Round Control

- **Round Size** – Adjust this to resize the circular marker.
 - **Round Opacity** – Adjust this to control circle visibility.
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Box Control

- **Box Size** – Adjust this to resize the box marker.
 - **Box Roundness** – Adjust this to control box corner roundness.
 - **Box Opacity** – Adjust this to control box visibility.
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Arrow Control

- **Arrow Size** – Adjust this to resize the arrow marker.
- **Arrow Opacity** – Adjust this to control arrow visibility.

Placeholder Control

- **Placeholder Size** – Adjust this to resize the placeholder media.
 - **Placeholder Opacity** – Adjust this to control placeholder visibility.
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Media Placeholder

Each Point composition contains its own Media Placeholder:

- **Media Placeholder 1**
- **Media Placeholder 2**
- **Media Placeholder 3**
- **Media Placeholder 4**

Open the corresponding Media Placeholder composition.

Import your image or graphic:

- Press **Ctrl + I / Cmd + I**

Drag and place your media inside the placeholder composition.

Adjust scale and position if needed.

Use Media Placeholders to replace the default point graphics with custom icons, logos, markers, images, or design elements.

Note

- Follow the same controls and customization workflow for all Point compositions (**Point 1 – Point 4**).
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Workflow Tips

- Move the point placeholders to define measurement areas.
- Use Automated Mode for live measurements.

- Use Manual Mode for custom values.
 - Add prefixes and suffixes to display units such as cm, mm, ft, px, or m.
 - Replace point placeholders with custom graphics if required.
 - Works with any composition resolution.
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Final Note

- All measurement styles use the same editing workflow and Control Panel structure.
 - Follow the same customization process for Measurement Line, Measurement Circle, Measurement Filled Circle, and Measurement Angle.
 - Use the Preview composition to preview all measurement styles before rendering.
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Rendering / Export

Transparent Background (Alpha Channel)

- Open the final composition.
 - Press **Ctrl + M / Cmd + M**
 - Output Module → QuickTime
 - Format → Apple ProRes 4444
 - Channels → RGB + Alpha
 - Click **Render**
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MP4 Export

- Add the composition to Render Queue.
- Format → H.264

- Adjust quality settings if needed.
 - Click **Render**
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Thank You

Thank you for choosing **Measurement Toolkit**.

Create professional measurement overlays, technical callouts, and dimension animations quickly with fully customizable controls and an efficient workflow.