

Description Panel Link Embedding Guide

Patricia 2001 SEM Viewer

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1 Introduction

The Measurements panel of the Patricia 2001 SEM Viewer allows a free-text description to be attached to each recorded measurement. When a measurement is recalled, the description is displayed in a floating, resizable panel.

The description parser scans the text for URLs and renders them automatically as one of three content types:

- **Embedded inline image** — if the URL resolves to a supported image resource;
- **Embedded YouTube video player** — if the URL is a recognised YouTube link;
- **Plain clickable hyperlink** — for all other URLs.

This document explains exactly which URL formats trigger each behaviour and how to structure descriptions to obtain the best results.

2 General Formatting Rules

2.1 Plain text and line breaks

Descriptions are entered as plain text. A new line in the source text becomes a line break in the rendered panel. There is no Markdown or HTML support; *only URLs receive special treatment.*

2.2 URL detection

Any contiguous substring beginning with `http://` or `https://` and containing no whitespace is treated as a URL. The parser tests each URL in priority order:

1. YouTube patterns (highest priority);
2. Known image URL patterns;
3. Everything else → plain hyperlink.

Note

Place image or video URLs on their own line, separated from surrounding text by a blank line. This ensures the embed appears as a distinct block rather than being squeezed inline within a sentence.

3 Embedded Images

When a URL is recognised as pointing to an image resource, the parser renders it as an inline image scaled to the full width of the description panel. The image itself is a clickable link that opens the original URL in a new browser tab.

If the image *cannot* be loaded (broken link, access restriction, or unsupported format returned by the server), the parser automatically falls back to displaying a plain hyperlink so that no information is lost.

3.1 Direct image URLs

Any URL whose path ends with one of the extensions listed below is treated as a direct image link. An optional query string or fragment after the extension is permitted and is ignored during extension detection.

.jpg / .jpeg	.png	.gif	.webp
.bmp	.svg	.avif	.tiff / .tif

Examples:

```
https://example.com/images/micrograph.jpg
https://cdn.example.org/scan.png?width=800
https://files.example.net/analysis.webp
```

3.2 Google Drive

Google Drive share links are automatically converted to a direct-serving URL. The file **must** be shared with the permission “*Anyone with the link can view*” for the image to load in the viewer.

Two Google Drive URL formats are recognised.

3.2.1 File share link (recommended)

This is the URL produced by the *Share* button in Google Drive:

```
https://drive.google.com/file/d/<FILE_ID>/view?usp=sharing
```

Real-world example:

```
https://drive.google.com/file/d/16oNn0Esxn7qXU7UIvISC7tdeiP8U-f4L/view?usp=sharing
```

3.2.2 Open link (legacy format)

```
https://drive.google.com/open?id=<FILE_ID>
```

Important

The file stored in Google Drive must itself be an image (JPEG, PNG, etc.). Google Drive links to PDFs, spreadsheets, or other non-image types will fail to render and will fall back to a plain hyperlink.

Sharing must be set to **Anyone with the link** — files restricted to specific people or to members of an organisation will not load for other viewers.

How to obtain a shareable link from Google Drive:

1. Right-click the image file in Google Drive and select *Share*.
2. Under *General access*, change the setting from *Restricted* to *Anyone with the link*.
3. Ensure the role is set to *Viewer*.
4. Click *Copy link* — this produces the `/file/d/<ID>/view?usp=sharing` format.
5. Paste the copied link directly into the description field on its own line.

3.3 Dropbox

Dropbox shared links that contain an image file extension anywhere in the path are recognised. The parser replaces the `d1=0` download parameter with `raw=1` so that the raw image bytes are served rather than the Dropbox web preview page.

Recognised extensions within a Dropbox URL: `.jpg/.jpeg`, `.png`, `.gif`, `.webp`, `.bmp`, `.svg`, `.avif`.

Examples (both formats are converted automatically):

```
https://www.dropbox.com/s/xxxxxxxxxxxx/micrograph.jpg?dl=0
https://www.dropbox.com/scl/fi/xxx/scan.png?rlkey=yyy&dl=0
```

Note

The Dropbox link must be a *shared* link obtained via the *Share* or *Copy link* button, and the file must be accessible to *Anyone with this link*.

4 Embedded YouTube Videos

YouTube URLs are rendered as a responsive 16:9 embedded video player directly inside the description panel. The following URL formats are all recognised:

Format	Example URL
Standard watch URL	<code>https://www.youtube.com/watch?v=dQw4w9WgXcQ</code>
Short URL	<code>https://youtu.be/dQw4w9WgXcQ</code>
Shorts URL	<code>https://www.youtube.com/shorts/dQw4w9WgXcQ</code>
Embed URL	<code>https://www.youtube.com/embed/dQw4w9WgXcQ</code>

Additional query parameters — for example `?si=...` (share token) or `&t=154` (start time in seconds) — are supported. The parser extracts the 11-character video ID and constructs a clean embed URL, so the full link copied directly from YouTube or a YouTube share dialog will work without modification.

Example with a share token and a 2 min 34 s start time:

```
https://youtu.be/vgr4aoZZ4fI?si=1HqhGylTv8-c9CkA&t=154
```

The video must be **Public** or **Unlisted**; private videos will not load inside the embedded player.

5 Plain Hyperlinks

Any URL that does not match the image or YouTube rules is displayed as a standard underlined hyperlink that opens in a new browser tab. Common examples include:

- Shortened URLs (`bit.ly`, `tinyurl.com`, etc.) that resolve to web pages rather than image files;
- Google Drive links to PDFs, presentations, or other non-image types;
- Journal article pages, forum threads, or general web pages.

Examples:

```
https://lenr-canr.org/acrobat/BiberianJPjcondensedw.pdf
https://bit.ly/Slagwool
https://starfire.tech/Patricia-2001c/
```

6 Complete Description Example

The following description exercises all four content types — plain text, a YouTube embed, a Google Drive image embed, and a plain hyperlink:

```
Slagwool is often manufactured using a carbon arc furnace.  
These are fascinating to observe!  
  
https://youtu.be/vgr4aoZZ4fI?si=1HqhGylTv8-c9CkA&t=154  
  
The optical micrograph below was taken at 400x magnification  
using a reflected-light microscope.  
  
https://drive.google.com/file/d/16oNn0Esxn7qXU7UIvISC7tdeiP8U-f4L/view?usp=sharing  
  
Further reading --- associated journal paper:  
https://lenr-canr.org/acrobat/BiberianJPjcondensedw.pdf
```

When this description is displayed the panel will show: a paragraph of text, a YouTube player, a second paragraph, an inline clickable image, and finally a plain hyperlink.

7 Quick-Reference Summary

URL pattern	Rendered as
Path ends in .jpg, .jpeg, .png, .gif, .webp, .bmp, .svg, .avif, .tiff, .tif	Inline image embed
<a href="https://drive.google.com/file/d/<ID>/...">drive.google.com/file/d/<ID>/...	Inline image embed
<a href="https://drive.google.com/open?id=<ID>">drive.google.com/open?id=<ID>	Inline image embed
<a href="https://dropbox.com/...<ext>">dropbox.com/...<ext> (image ext.)	Inline image embed
<a href="https://youtube.com/watch?v=<ID>">youtube.com/watch?v=<ID>	YouTube player
<a href="https://youtu.be/<ID>">youtu.be/<ID>	YouTube player
<a href="https://youtube.com/shorts/<ID>">youtube.com/shorts/<ID>	YouTube player
<a href="https://youtube.com/embed/<ID>">youtube.com/embed/<ID>	YouTube player
Any other http:// or https:// URL	Plain hyperlink

Note

All embedded content degrades gracefully. If an image URL fails to load the parser substitutes a plain hyperlink automatically, so the original URL is never lost. YouTube embeds require an active internet connection to stream from YouTube's servers.