

## Article Image/Graphics Submission Requirements

The following article submission requirements will help speed up the publishing process:

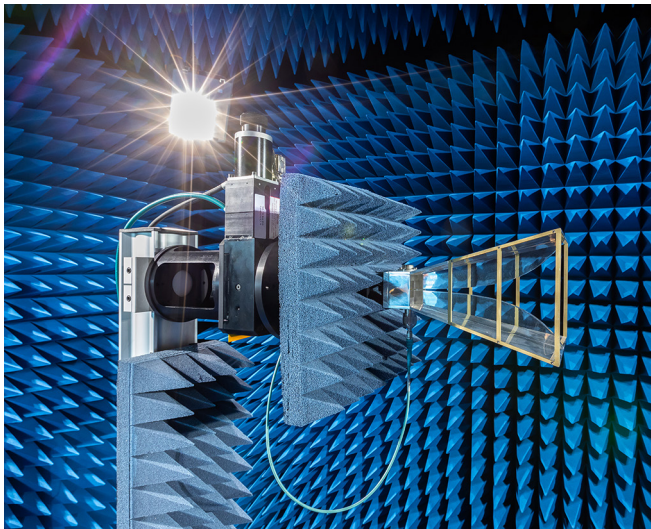
- Label source files for any graphics or multimedia items sequentially
- Provide captions for all graphics
- Obtain permission approvals and include source information for the reuse of any previously published material

### Accepted graphics file formats

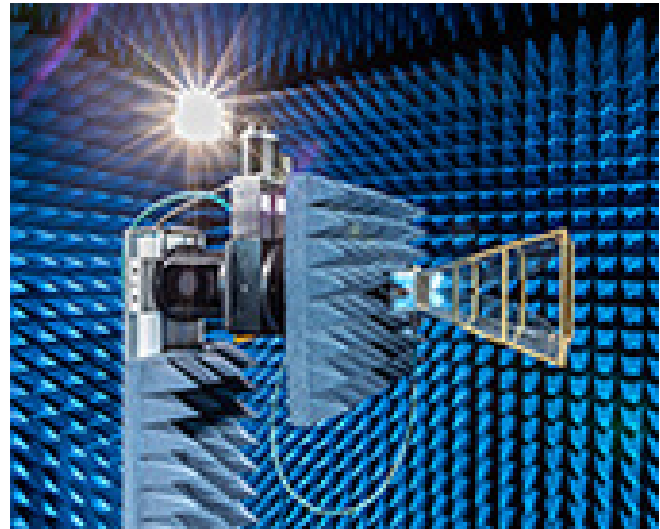
- MWJ accepts AI (Adobe Illustrator), EPS, PDF, High-resolution PNG, High-resolution JPEG or High-resolution TIFF formats for graphics submission.
- Most graphics are published at one column width (2.25 inches / 13 picas wide) or two column width (3.375 inches / 20 picas wide).

### Graphics display resolution

Did you know that resolution and size are different? A high-res image is composed of thousands of pixels—each one is a distinct unit of color information. A low-res image has much less density; so when it's enlarged for print, the printer has to guess at most of that information, filling in the gaps in density with what it assumes are the right colors. The result is a blurry image with little detail.



JPEG 3.375" Wide @ 300 dpi



JPEG 3.375" Wide @ 72 dpi

When you are taking a picture, ensure that your camera is set at the highest resolution. It is easy to decrease the size of a high-resolution image and retain high quality but increasing the size of a low-resolution image will not increase quality/resolution.

Follow these graphics display resolution guidelines to ensure the graphics for your MWJ article look great.

The size of your graphic refers to its dimensions (the width and height). The resolution refers to dpi (dots per inch) or ppi (pixels per inch).

- DPI refers to the number of printed dots contained within one inch of an image printed by a printer.
- PPI refers to the number of pixels in a linear inch when displayed on an electronic image device like a computer, tablet, or your phone.

MWJ standards for non-vector graphics (photos) are a minimum of 2.25" wide @ >300 dpi.

### Text in Photos

Any text within a photo will be replaced during the article production process to adhere to uniform MWJ style. Be sure to include the photo both with and without text and check your graphic text during the proof review process.

### Vector Graphics

Vector Graphics are images that are scalable without losing any resolution. They don't use pixels for resolution and the same file could be used on a business card or a billboard and still remain sharp. The most common vector file types are AI (Adobe Illustrator), EPS (Encapsulated PostScript), and SVG (Scalable Vector Graphics). Logos are most often produced as vectors.

Vector or Adobe Illustrator Format  
Unlimited dpi/Enlargement



Frequency Matters.



Frequency Matters.

JPEG 150 dpi  
Not as sharp as Vector, gets worse with enlargement

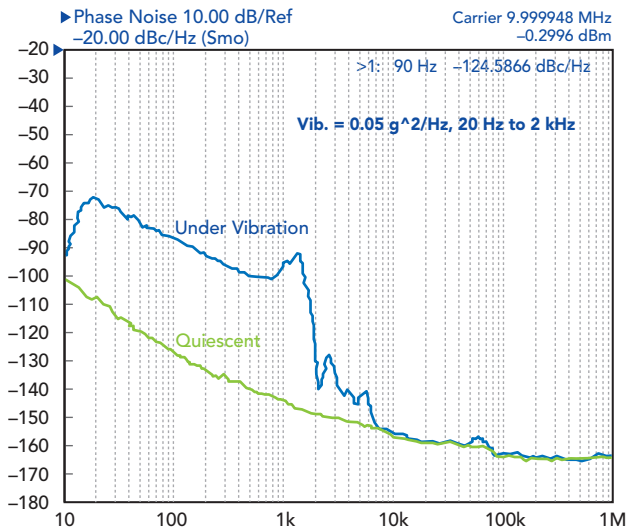


Frequency Matters.



Frequency Matters.

Vector or Adobe Illustrator Format  
Unlimited dpi/Enlargement



JPEG 72 dpi  
Not as sharp as Vector, gets worse with enlargement

