

Quick Reference Question and Answer Guide - All Palette Color Film Recorders

What is Continuously Variable Resolution?

The ProPalette 8000 and the software drivers work together to determine how best to fill the film's format by analyzing the image file and adjusting the resolution of the film recorder appropriately. Unique to Polaroid Palette film recorders, the ProPalette 8000 features Continuously Variable Resolution for image files between 1K and 8K, while all other models work between 1K and 4K.

When should I use Palette Export? Why not just File...Print from my application?

Palette Export provides the fastest means of sending image data to the film recorder. When using Adobe Photoshop to manipulate an image, it is always best to use Palette Export to send the image to the Palette film recorder. Make certain that the image has a landscape orientation by rotating it using Photoshop (if necessary), select the film table for the film installed in the Palette film recorder, select the quantity, and print! There is no need to adjust the size of the image.

For (unattended) batch printing of bitmap files, save them as TIFF (Tagged Image File Format) images and later add them to a RasterPlus95 Queue or SiPrint Assistant Batch. Using this method, it is not necessary to "Open" the image file, which can be up to 173MB! Batching saves your system's resources for imaging the file to the Palette and allows unattended printing when the motorized cameras are used.

Using File...Print from your application is the most convenient method of printing, but is also takes the most time, especially from Photoshop. When the image file is open in Photoshop, roughly three times the image size is required. For a 150MB image, 450MB are required just to open the file! This can deplete your system's resources (memory) which would otherwise be available for printing.

What is included in the Windows 95/NT Interface Kit?

There are 4 software programs included in the Windows 95/NT Interface Kit along with a software manual and a parallel cable. They are:

- 1** RasterPlus95, a print manager supporting Windows 95 and Windows NT applications and includes a spooling utility for unattended batch printing.
 - 2** Palette ColorTune for Windows 95 software for matching the film recorder output to the monitor (for ProPalette 8000 only).
 - 3** Palette Export for Windows 95 and Windows NT, a plug-in for sending images directly from Photoshop.
 - 4** Palette for Windows 95 and Windows NT, the film tables installer.
-

What is included in the Macintosh Interface Kit?

There are 4 software programs included in the Palette for Macintosh Interface Kit along with a software manual and a SCSI cable: They are:

- 1** Palette for Macintosh, a chooser-level printer driver for all Macintosh computers.
- 2** SiPrint Assistant, a spooling utility for unattended batch printing.
- 3** Palette ColorTune for Macintosh software for matching the film recorder output to the monitor (for ProPalette 8000 only).
- 4** Palette Export for Macintosh, a plug-in for sending images directly from Photoshop.

What interface kits work with which model film recorders?

There are currently 3 interface kits that handle all Palette film recorders, 2 for Windows 95/NT and 1 for Macintosh. They are:

- 1** Windows 95/NT Kit for all ProPalettes (ProPalette 7000 and ProPalette 8000).
- 2** Windows 95/NT Kit for CI and HR Palettes (CI-3000S, CI-5000S, and HR 6000 SE).
- 3** Macintosh Kit for all Palettes (all CI, HR, and ProPalette models)

Are the Palette film recorders PostScript compatible? What about Unix?

RasterPlus95 provides PostScript compatibility for the Windows 95 and Windows NT platform. Palette for Macintosh and SiPrint Assistant are not PostScript compatible.

PostScript printing on the Macintosh platform is provided through third-party software vendors.

Contact	Product name
¥ Inkwell Software at (404)325-5448 or Travis@digital-orchard.com	Film Magic Pro
¥ Visual Business Systems at (508)263-9900 or www.VisBusSys.com	Professional Output Manager

Compatibility on a Unix platform is provided through a third-party software vendor.

Contact	Product name
¥ Caldera Graphics at (33)88 21 00 00 or www.Caldera.fr	Cameleo

Can I work at one station and print to a Palette film recorder located at another station? Do the Palette software drivers support networking?

Yes. For Windows 95 and Windows NT, networking is accomplished by virtue of the Windows operating system. Please refer to the Palette Color Film Recorders Software Manual for Windows 95/NT for more information. For Macintosh computers, a Network/Multi-User Pack is available. Please refer to the Palette Color Film Recorders Software Manual for Macintosh for more information.

What is Dynamic Focus Circuitry?

Dynamic Focus Circuitry is built into the HR 6000 SE, the ProPalette 7000 and the ProPalette 8000 film recorders. It is designed to adjust the spot size and shape to ensure that exposures are as sharp at the corners and edges as they are in the center.

What guidelines are recommended for creating presentation slides?

- ¥ Title of slide: 36-48 point text
- ¥ Body: 18-30 point text
- ¥ Use black or gray drop shadows on text
- ¥ Use the same typeface on each slide
- ¥ No more than 6 lines per visual
- ¥ No more than 6 words per line
- ¥ Choose high-contrast colors
- ¥ Use no more than 7 colors per visual
- ¥ Use light colors on dark backgrounds

Sometimes my slides are not centered in their slide mounts. Why?

When a Palette film recorder leaves the factory, it has been calibrated to provide a full-frame exposure (no cropping) on all of the film types and camera backs that it is designed for by setting the exposure area appropriately. Also, cameras can vary with respect to their optical center. This can leave a border. To eliminate the border, a Camera Adjust feature is available for all film tables and accessory cameras. Please refer to the Palette Color Film Recorders Software Manuals for more information.

What optional camera backs are available for the ProPalette 8000?

Polaroid offers a 4 x 5 and 6 x 7 (120/220) for the ProPalette 8000. A 6 x 8 (120/220) camera is also available in Europe specifically for that region. Double M Industries offers a 35mm pin-registered bulk loading camera for all ProPalette models.

Is the 35mm camera for the ProPalettes pin registered?

No. The 35mm camera that is included with the ProPalettes is not pin registered. The bulk 35mm camera back from Double M Industries for these Color Film Recorders is a pin-registered camera back.

Can I put the 4x5 and medium-format back onto my ProPalette 7000?

The ProPalette 7000 is intended as a 35mm (only) device. Because the ProPalette 7000 is a 4K device, formats larger than 35mm are not recommended or supported. Although the 4 x 5 and medium-format accessory cameras will fit, there are no film tables or firmware for support for these formats.

What does 8K mean when referring to the resolution of the ProPalette 8000?

8K is an abbreviation for 8,000 lines of resolution. The ProPalette 8000 is capable of writing 8192 horizontal by 5462 vertical lines for the 35mm format. The resolution of the image file is determined by the horizontal (long dimension) measurement in pixels.

$$8,192 = 8,000 \text{ (rounded)} = 8K$$

How big is an 8K file?

8K refers to the horizontal (long dimension) of an image file in pixels.

For 35mm, an 8K image measures 8192 (h) x 5462 (v) x 3 (for each color plane) = 134MB.

What size is a file that reaches the maximum resolution of the ProPalette 8000?**For 35mm:**

8192 x 5462 x 3 = 134MB

For 4x5:

8192 x 6554 x 3 = 161MB

For medium format (6x7cm):

8192 x 7022 x 3 = 173MB

What size should my bitmap file be for a full-frame exposure? Do I need to resize the file? What about the aspect ratio?

Image files are typically measured in pixels or inches. By determining the horizontal measurement in pixels of your image, the ProPalette 8000 will set its internal resolution automatically using the Continuously Variable Resolution feature.

Example: If the image file measures 5120 x 3414, the ProPalette will produce a 5K image onto film.

Resizing a bitmap image is not necessary with the ProPalette 8000. Artificially creating a larger image file by interpolation usually degrades the image quality and is not recommended. Best results are obtained by imaging the bitmap file at its native (scanned) resolution.

Using Continuously Variable Resolution, the ProPalette 8000 always attempts to fill the film's format in the horizontal (long) dimension. If the image file does not match the film's aspect ratio exactly, the file's aspect ratio will be maintained and borders will result.

How big is the CRT in the ProPalette models?

Both the ProPalette 7000 and ProPalette 8000 have 7 inch CRTs.

What is the spot size of the ProPalette 8000?

There is no industry standard for measuring spot size. Spot size varies with brightness and Polaroid has optimized spot size without sacrificing brightness with the ProPalette 8000. The sharpness of the images speak for themselves.

On spot size from an article in Computer Pictures magazine, Slides at Any Price, February, 1995, by Bob Weibel

ÓÉvendors haven't agreed upon a specific method for measuring CRT spot size. CRT spots aren't discreet, but fade gradually from a bright center, and it's up to you to decide at what point the spot ends. Too many vendors are tempted to cut it close, and hence almost no vendor, especially the straight shooter who measures spot size conservatively, is willing to quote CRT spot size information.Ó

How should I determine the correct page size in an application?

Applications will allow you to set page sizes in inches and/or pixels. Some applications have 35mm page sizes which translate into inches although they can vary from application to application.

The following table shows page sizes in inches and pixels by camera back.

Camera back	Page size in inches	Page size in pixels
35mm	11 x 7.33	4096 x 2732

4 x 5

11 x 8.56

4096 x 3186

6 x 7

11 x 9

4096 x 3351

What extended warranties are available after the standard one year warranty for the Polaroid Palettes?

In the U.S., please contact Polaroid Customer Support Services for extended service contract information at 1-800-432-5355. Outside of the U.S., please contact your local Polaroid representative or regional office.

What automated support is available for Palette film recorders from Polaroid?

Polaroid maintains a World Wide Web site on the Internet. Support can be obtained by accessing this web site and following the on-line instructions at: <http://www.Polaroid.com>

Additionally, Polaroid offers its customers and resellers continuously updated software and product information. Access to the FTP site is found at:
<ftp://ftp.Polaroid.com>
