



Advanced Features of Corel® Paint Shop Pro® X

Corel® Paint Shop Pro® X provides the following advanced features:

- Improved support for opening photos saved to camera raw file formats. The technology for opening camera raw files has been completely re-engineered, providing greater speed, improved conversion, and support for more cameras. In addition, Paint Shop Pro X includes Pixmantec® RawShooter Essentials, a workflow tool that allows efficient processing of large numbers of camera raw files (RawShooter is currently available in English only). Details on supported camera models are being finalized.
- Support for 16-bit per channel adjustments. This is particularly important for processing camera raw files, which are imported at more than 8-bit per channel color. Unlike many image editors that support just 15-bits per channel, Paint Shop Pro is designed to use the full 16-bit range.
- Support for ICC-based color management. Corel Paint Shop Pro X defaults to sRGB for smooth transition from previous versions of Paint Shop Pro, but users can select from several other standard RGB color spaces or load their own ICC color profile.
- Export to TIFF in CMYK mode. The RGB-CMYK conversion is based on ICC color profiles. Users can select from two Kodak profiles (US-SWOP or European standard) but can also select their own ICC color profile.
- Image adjustment commands have been re-engineered to ensure full support for 16-bit per channel color and color management.
- Enhanced monitor calibration. The Monitor Calibration wizard, accessible by choosing **File ▶ Color Management ▶ Monitor Calibration**, has added calibration at multiple steps of grey (instead of just the midpoint). Unique to Paint Shop Pro, this allows you to properly characterize LCD screens, which have less uniform brightness curves than CRT-based monitors.

The following menu commands and tools support full 16-bit per channel images:

Adjust ▶ Add Noise	Adjust ▶ Backlighting
Adjust ▶ Blur	Adjust ▶ Blur More
Adjust ▶ Brightness/Contrast	Adjust ▶ Channel Mixer
Adjust ▶ Clarify	Adjust ▶ Color Balance
Adjust ▶ Colorize	Adjust ▶ Curves
Adjust ▶ Digital Camera Noise Removal	Adjust ▶ Fill Flash
Adjust ▶ Gamma Correction	Adjust ▶ Gaussian Blur
Adjust ▶ Highlight/Midtone/Shadow	Adjust ▶ High Pass Sharpen

- Adjust ▶ Histogram Equalize
- Adjust ▶ Hue Map
- Adjust ▶ Levels
- Adjust ▶ One Step Photo Fix
- Adjust ▶ Red/Green/Blue
- Adjust ▶ Sharpen
- Adjust ▶ Smart Photo Fix
- Adjust ▶ Soften More
- Adjust ▶ Unsharp Mask
- Layers ▶ New Adjustment Layer ▶ Channel Mixer
- Layers ▶ New Adjustment Layer ▶ Curves
- Layers ▶ New Adjustment Layer ▶ Invert
- Layers ▶ New Adjustment Layer ▶ Posterize
- From the Layers palette: Blend Mode ▶ Normal
- Clipboard: Edit ▶ Copy
- Clipboard: Edit ▶ Paste
- Effects ▶ Edge Effects ▶ High Pass
- Effects ▶ Artistic Effects ▶ Posterize
- Effects ▶ Photo Effects ▶ Black & White Film
- Image ▶ Crop to Selection
- Image ▶ Flip
- Image ▶ Greyscale
- Image ▶ Mirror
- Image ▶ Rotate Left
- Image ▶ Count Image Colors
- Palettes ▶ Histogram
- Eyedropper tool
- Freehand Selection tool
- Mover tool
- Pick tool
- Raster Deformation tool
- Selection tool
- Straighten tool
- Adjust ▶ Histogram Stretch
- Adjust ▶ Hue/Saturation/Lightness
- Adjust ▶ Negative Image
- Adjust ▶ One Step Noise Removal
- Adjust ▶ RGB
- Adjust ▶ Sharpen More
- Adjust ▶ Soften
- Adjust ▶ Threshold
- Layers ▶ New Adjustment Layer ▶ Brightness/Contrast
- Layers ▶ New Adjustment Layer ▶ Color Balance
- Layers ▶ New Adjustment Layer ▶ Hue/Saturation/Lightness
- Layers ▶ New Adjustment Layer ▶ Levels
- Layers ▶ New Adjustment Layer ▶ Threshold
- Layers ▶ Promote Background Layer
- Clipboard: Edit ▶ Cut
- Clipboard: Edit ▶ Clear
- Effects ▶ Photo Effects ▶ Infrared Film
- Effects ▶ User Defined Filter
- Image ▶ Canvas Size
- Image ▶ Decrease Color Depth
- Image ▶ Free Rotate
- Image ▶ Increase Color Depth
- Image ▶ Resize
- Image ▶ Rotate Right
- Image ▶ Split Channel ▶ Split to RGB
- Blemish Remover tool
- Flood Fill tool
- Magic Wand tool
- Pan tool
- Perspective Correction tool
- Red Eye tool
- Makeover tool ▶ Toothbrush
- Zoom tool

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