



PaintShop® Pro X6

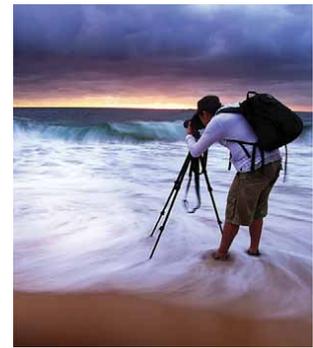
Reviewer's Guide

Corel® PaintShop® Pro X6

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Introducing Corel® PaintShop® Pro X6

Corel® PaintShop® Pro X6 is powerful, easy-to-use image-editing software that helps anyone produce stunning photos and creative designs. And with new 64-bit architecture, PaintShop Pro X6 is more powerful and responsive than ever before.

You can now create your best images faster, thanks to the performance gains enabled by 64-bit processing. With PaintShop Pro X6, you'll make more rapid adjustments, process more effects, work with larger files, and work with more photos simultaneously. The 64-bit version makes resource-intensive tasks, such as working with images greater than 400 megapixels smooth and reliable.

Developed in concert with our users, PaintShop Pro X6 offers polished and refined workspaces, new ultra quick and easy selection tools, and all the creative design tools and effects that have made PaintShop Pro a favorite of so many for so long. Many of our users' beloved features have benefited from the new 64-bit code, offering better response times and more robust effects processing.

PaintShop Pro X6 also provides a built-in script recorder that lets you automate just about anything that you can do with the application. Plus, an updated *PaintShop Pro Scripting Guide* is freely available to help school anyone interested in automation. It's also easy to add IPTC data, which helps photographers increase the searchability of their images. In addition, the inclusion of a 32-bit version ensures that you can work with legacy third party plug-ins, and the 64-bit version offers enhanced support for Adobe® Photoshop® plug-ins.

Editions of Corel® PaintShop® Pro X6

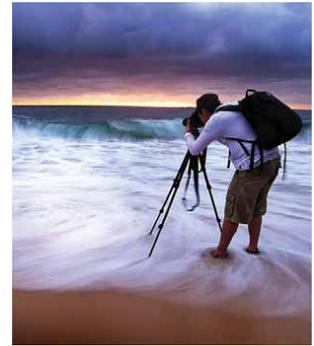
The following editions are available to meet the needs of both professionals and value-minded customers.

Corel® PaintShop® Pro X6 Ultimate: The ultimate photo editor combines the pro-quality tools of PaintShop Pro X6 with powerful image correction technology Perfectly Clear by Athentech Imaging, portrait beautifying tools Reallusion® FaceFilter3 Standard, and a collection of creative extras.

Corel® Photo Video Suite X6: This all-in-one video production and photo-editing suite combines the creative power of PaintShop Pro X6 and VideoStudio Pro X6 to make editing your photos and videos fast and fun.

License Edition: For corporate and education customers, the License Edition offers a highly affordable photo-editing and design solution, ideal for producing imagery for presentations, marketing materials, documentation, and other projects. Fully network deployable and available at compelling volume license pricing, PaintShop Pro is a great choice for commercial and educational organizations.

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Customer profiles

Corel PaintShop Pro X6 is the photo editor of choice for a diverse range of users, from photographers and photo enthusiasts to designers, self marketers, and creative consumers.

Photo enthusiasts

First and foremost, PaintShop Pro is designed from the ground up for the photo enthusiast. Whether they're just starting out as hobbyists with their first DSLR, or are already passionate, seasoned photographers, photo enthusiasts want a photo editor that helps them quickly and easily organize and manage their photos.

After identifying promising images, they want easy-to-use editing tools that help them refine those images to their maximum potential. As enthusiasts develop both their photographic eye and photo-editing skills, they want access to additional tools, features, and effects that can help them express their creativity — with fast results and minimal effort.

Designers

Designers produce graphical content for many disparate projects and want tools that help them express their creativity. Whether they're working photographers, graphic design professionals, video producers, or web professionals, they want a photo editor that lets them work with vector and raster layers, supports industry-standard file formats, and gives them powerful creative options.

Self marketers

These small business owners, independent or professional marketers, and social media specialists want a photo editor that fits their budget and lets them quickly produce high-quality graphics in-house.

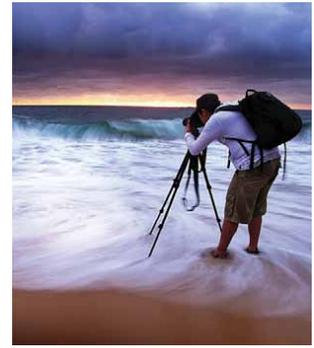
Creative consumers

Whether they're scrapbookers or recreational graphics producers, creative consumers produce content to share with friends and family. They want a photo editor that's easy to use, stays out of their way, and gives them access to a wide range of features and effects.

Education

For students, teachers, and administrators or decision-makers, PaintShop Pro offers an unbeatable value. It gives educators all the tools they need to teach the fundamentals of photography and graphic design at a fantastic price.

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What's included?

Application

- **Corel® PaintShop® Pro X6:** This powerful, easy-to-use image-editing software helps anyone with a passion for photography produce stunning photos and creative designs. It offers a wealth of features that help you organize, edit, and share your photos and artistic creations with ease.
- **32- and 64-bit versions:** PaintShop Pro X6 is available in 32- and 64-bit versions, and you can install both. While the 64-bit version offers better performance and memory management, the 32-bit version ensures compatibility with 32-bit hardware and plug-ins.

Documentation

- Online Help, Learning Center palette
- PDF User Guide
- Discovery Center, with both video and text tutorials
- Getting Started windows provide an overview of new tools and features, making it easy to get up to speed quickly
- PDF Scripting Guide, available to download for all free PaintShop Pro X6 Standard Memberships

Minimum system requirements

- Microsoft® Windows® 8, Windows® 7, Windows Vista®, and Windows® XP with latest service pack (32-bit or 64-bit editions)
- Intel® or AMD 1.5 GHz or faster processor with SSE2 support (multi-core processor recommended)
- 2 GB of RAM (4 GB recommended)

- 1 GB free hard-disk space (2 GB recommended)
- 1024 × 768 resolution, 16-bit color display (1366 × 768 resolution, 24-bit or higher color display recommended)
- DirectX® 9 or higher compatible audio card with latest driver
- Windows-compatible CD- or DVD-ROM drive for installation
- Internet connection required for online features and tutorial videos

File format support

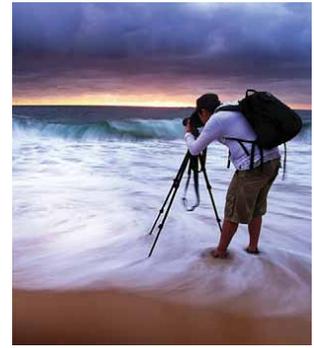
- **Input:** AI, BMP, CAL, CALS, CGM, CLP, CMX¹, CT, CUR, CUT, DCX, DIB, DRW*, EMF, EPS, GIF, HDP, HGL*, HPG*, IFF, IMG, J2C, J2K, JIF, JP2, JPC, JPE, JPEG, JPG, JPS, JPX, MAC, MPO, MRW, MSP, PBM, PCD*, PCT, PCX, PDF, PGL*, PGM, PIC, PICT, PNG, PNS, PPM, PS, PSD, PSP (PSP image files), RAS, RAW, RIF, RLE, SCT, SVG, SVGZ, TGA, TIF, UFO, WBM, WBMP, WDP, WEBP, WMF, WPG*

RAW file support from more than 300 camera models including 3FR, ARW, CR2, CRW, DCR, DNG, ERF, K25, KDC, MEF, MOS, NEF, NRW, ORF, PEF, RAF, RW2, SR2, SRF, X3F

- **Brush:** PaintShop Pro Brush (.psbrush), Adobe Photoshop Brush (.abr), Jasc Brush (.jbr)
- **Output:** BMP, CAL, CALS, CLP, CUT, DCX, DIB, EMF, EPS, AI, PS, GIF, HDP, WDP, IFF, IMG, JP2, J2C, J2K, JPC, JPX, JPG, JIF, JPE, JPEG, MAC, MSP, PBM, PCX, PGM, PIC, PPM, PNG, PSD, PSP (PSP image files), RAS, RAW, RIF, RIFF, RLE, SCT, CT, JPS, PNS, TGA, TIF, TIFF, WBMP, WBM, WEBP, WMF

¹ CMX, DRW, HGL, HPG, PGL, and WPG formats supported only with 32-bit installation

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Key features

Corel® PaintShop® Pro X6 is powerful, easy-to-use image-editing software that helps anyone produce stunning photos and creative designs.

Create your best images faster

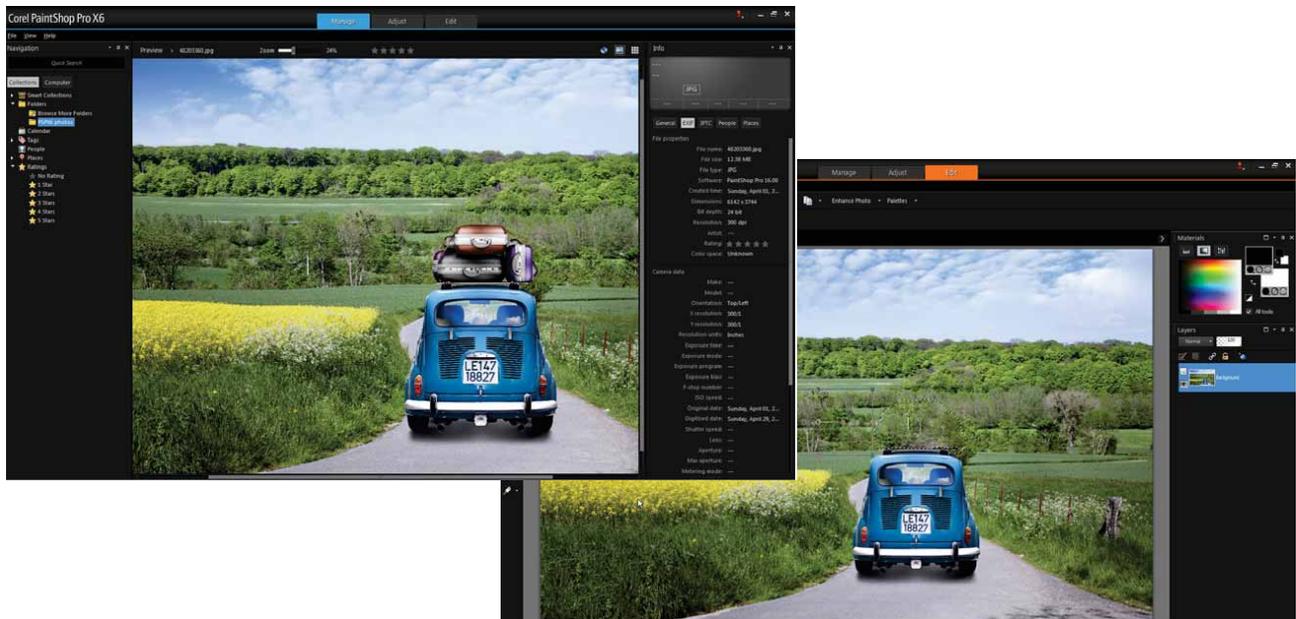
With new 64-bit power, PaintShop Pro X6 is better and more powerful than ever before. You can now load, edit, and output your photos much more quickly. The increased stability and memory management enabled by 64-bit architecture means that you can make more rapid adjustments, process more effects, and work with more photos simultaneously.

New! 64-bit PaintShop® Pro: The 64-bit edition of PaintShop Pro X6 was built to be more efficient where it

counts. The primary benefit offered by the 64-bit edition is that it accesses RAM beyond 4 GB. This equates to faster processing, especially for resource-intensive tasks, and greater stability when working with large file sizes.

New! Faster launch: The first thing you're bound to notice about the new 64-bit edition of PaintShop Pro X6 is how quickly it launches. Depending on your hardware configuration, you can expect at least a 10% boost in launch speed.

New! 64-bit object removal: The 64-bit edition of PaintShop Pro provides greater stability when using the Object Remover to edit photos of large file sizes.



You can now remove objects from images larger than 22 megapixels.

Give it a try

Using the Object Remover

- 1 In **PaintShop Pro X6 (64-bit)**, click the **Edit** tab at the top of the application window.
- 2 Click **File ▶ Open**, and browse for an image, or drag an image into the workspace.
- 3 Click the **Object Remover**  tool and drag around the part of the image you want to remove.
- 4 On the Tool Options palette, click the **Source mode**  button.
A rectangle is displayed in the image window.
- 5 Position the rectangle over the area that will replace the section to be removed.
You can drag the rectangle's handles to resize it, and drag the rotation handle to rotate it.
- 6 On the Tool Options palette, click the **Apply**  button.

New! 64-bit Smart Carver: With the 64-bit edition of PaintShop Pro X6, the Smart Carver now supports 16-bit image editing. This greatly reduces the potential for 'banding' or 'image noise' in your adjusted photos.

Give it a try

Removing an image area with the Smart Carver

- 1 In **PaintShop Pro X6 (64-bit)**, click the **Edit** tab at the top of the application window.
- 2 Click **File ▶ Open** and browse for a RAW image, or drag a RAW image into the workspace.
- 3 In the Camera RAW Lab, click **Edit**.
- 4 Click **Image ▶ Smart Carver**.
The Smart Carver dialog box opens.
- 5 In the **Object Removal** area, click the **Remove**  button, and then brush over the area that you want to remove from the image.
You can use the **Brush Size** slider to decrease or increase the size of the brush.
- 6 In the **Smart Carving** area, click the **Auto-contract horizontally**  button.
- 7 When you are satisfied with the result, click **OK**.

New! Support for 400+ megapixels: The 64-bit edition of PaintShop Pro X6 provides support for a whopping 400+ megapixels. While megapixel count is not the be-all and end-all for image quality, this level of support lets you keep pace with the soaring megapixel count offered by today's DSLRs.

New! Memory management: With its new, 64-bit architecture, PaintShop Pro X6 is able to address more memory when working with large file sizes.

New! Open more images at once: With the 64-bit edition of PaintShop Pro X6, you can smoothly open upwards of 50 photos. This is especially notable for batch processing; for example, converting a batch of 50 RAW images to PNG is now 57% faster than PaintShop Pro X5.

Give it a try

Opening many images at once

- 1 In the Manage workspace of **PaintShop Pro X6 (64-bit)**, hold down **Ctrl** and then click to select 30 or more images.
- 2 Click the **Edit** tab.
This opens the selected images for editing.
For comparison, try the same procedure with the 32-bit edition.

New! Faster HDR processing: With the 64-bit edition of PaintShop Pro X6, you'll enjoy a quickened pace when working with the HDR tools. Exposure Merge provides faster loading of photos, swifter and more responsive tools for making adjustments, as well as quicker HDR processing time.

Exposure Merge is a three-step process:

- **Merge** – choose merge settings, apply custom editing to photos
- **HDR Adjustments** – make adjustments to merged HDR image
- **Fine-Tune** – refine the HDR image, reduce noise, sharpen, etc.



You choose merge settings, make custom edits, and preview the merged alignment during the first step of Exposure Merge.



You can manually adjust the resultant HDR image or apply a preset during the second step of Exposure Merge.

Give it a try

Step 1: Merging multiple HDR exposures

- 1 In the **Manage** workspace, press **Ctrl** and then click to select the thumbnails of the photos you want to merge.
- 2 Click **File** ► **HDR** ► **Exposure Merge**.
- 3 In the Step 1: Merge window, choose a profile from the **Camera response curve profile** drop-list.
If you are unsure, select **Auto Select**.
- 4 In the **Alignment** area, choose an alignment type from the **Method** drop-list.
To crop edges that don't overlap, enable the **Auto crop** check box.
- 5 Click **Align**.
To see the result, enable the **Preview Alignment** check box near the bottom of the panel.
- 6 If necessary, you can keep or remove specific areas from individual photos by using the controls in the **Custom editing** area.
- 7 Click **Process**.

Give it a try

Step 2: Adjusting the HDR image

- 1 In the Step 2: HDR Adjustments window, perform any of the following actions to achieve the look you want:
 - in the **Presets** area, click a preset thumbnail
 - enable the **White Balance** check box, click the **Dropper** tool, and then click the image to set the white point
 - drag the **Temperature** slider to warm or cool the image, and drag the **Tint** slider to fine-tune the color
 - drag the **Contrast**, **Highlights**, **Midtones**, and **Shadows** slider to adjust the tone and contrast
 - drag the **Vibrancy** slider to saturate or desaturate the colors
 - choose **Creative detail** or **Natural detail** from the **Detail** drop-list, and then drag the respective sliders to adjust the amount of local detail

To focus on black-and-white processing, click the **B&W** tab.

To re-enable color processing, click the **Color** tab.

Give it a try

- 2 To save your HDR image for further editing, click **Create HDR file**, type a file name, and then click **Save**.
- 3 Click **Process**.

The settings are applied to the 16-bit image file in preparation for final output.



You can apply photo fixes, color and contrast corrections, remove noise, and more during the final step of Exposure Merge.

Give it a try

Step 3: Fine-tuning the HDR image

- 1 In the Step 3: Fine-Tune window, apply any of the following tools or adjustment options:
 - **Smart Photo Fix**
 - **White Balance**
 - **Brightness/Contrast**
 - **Fill Light/Clarity**
 - **Local Tone Mapping**
 - **High Pass Sharpen**
 - **Digital Noise Removal**
- 2 When you are satisfied, click **Save and close**.
- 3 In the **Save As** dialog box, type a file name, and then click **Save**.

The easiest way to extraordinary photos

Before developing PaintShop Pro X6, we consulted our users to learn what they wanted from the next edition of their favorite photo editor. Among the top requests were a 64-bit version and UI refinement. After years of building an exceptional feature set, it was time to hone the fit and finish of PaintShop Pro. The fine-tuned workspaces present less clutter, and two new selection tools will help you isolate an image area quicker than ever. And of course, you'll still find

the same easy-to-use creative design tools and effects that help you dramatically transform your photos with minimal time and effort.

Enhanced! Workspaces: With PaintShop Pro X6, you'll find dedicated **Manage, Adjust,** and **Edit** workspaces that present tools and options for each intended task. The refined workspaces reduce clutter and duplication, which makes PaintShop Pro more welcoming and easier than ever to use.



The refined PaintShop Pro X6 (top) provides dedicated, clutter-free workspaces that let you focus on the task at hand.

Give it a try

Taking a workspace tour

- 1 In the **Manage** workspace, click the **Preview Mode**  button.

This switches the workspace from Thumbnail Mode to Preview Mode. To switch back, click the

Thumbnail Mode  button.

The Manage workspace has four main components:

- **Navigation palette** – for finding and organizing your photos
 - **Preview area** – for viewing a single image or thumbnails of all images in the active folder
 - **Info palette** – for viewing and entering EXIF or IPTC data
 - **Organizer palette** – for selecting photos
- 2 At the top of the workspace, click the **Adjust** tab.

The Adjust workspace has four main components:

- **Adjust palette** – tools and controls for adjusting photos
 - **Preview area** – displays the photo selected in the Organizer palette
 - **Instant Effects palette** – preset effects
 - **Organizer palette** – for selecting photos
- 3 At the top of the workspace, click the **Edit** tab.

The Edit workspace has five main components:

- **Tools toolbar** – tools for painting, drawing, cropping, typing text, and performing other image editing tasks
- **Tool Options palette** – settings and controls for the active tool
- **Layers palette** – view, organize, and adjust image layers
- **Materials palette** – colors and materials for painting, drawing, filling, and retouching
- **Image window** – displays open files

New! Open an image as single layer: For speed and convenience, you can now drag an image to the Layers palette, and it will be instantly added to the currently opened image as a single layer.

Give it a try

Opening an image as single layer

- 1 Open an image in the **Edit** workspace.
- 2 From the **Organizer** palette, drag a different image to the **Layers** palette.
A new Raster layer is added.
You can also drag an image from Windows Explorer.

Import custom workspace: Many PaintShop Pro customers are veteran users who have built their own toolbars and workspace customizations for specific tasks. To save you time and effort, PaintShop Pro X6 makes it easy to import a custom workspace so you can instantly access your favorite personal workspaces.

Give it a try

Importing a workspace

- 1 In the **Edit** workspace, choose **File ▶ Workspace ▶ Load**.
- 2 In the Load Workspace dialog box, choose one of the following:
 - **Yes** – saves the current workspace
 - **No** – does not save the current workspaceIf you have custom toolbars or other workspace augmentations, you may want to save the current workspace before loading another one.
- 3 Select the workspace file you want to import, and then click **Load**.

New! Smart Selection Brush: This new brush uses a photo segmentation engine that lets you select objects based on brushstrokes. Photo segmentation collects pixels into regions that correspond to separate surfaces, objects, or natural edges of an object. This means that you can simply paint over an object to select it, and you can build or reduce the selection with additional brushstrokes. It's a fast, easy, and accurate way to isolate part of an image.



You simply drag the new Smart Selection Brush over an image area to create and refine a selection.

Give it a try

Using the Smart Selection Brush

- 1 In the **Edit** workspace, open a photo that contains an object or person that you want to isolate.
- 2 On the **Tools** toolbar, click the **Smart Selection Brush** .
- 3 On the Tool Options palette, adjust the **Size** setting.
You can also adjust any of the following settings:
 - **Mode** – specifies whether to replace, add, or remove an existing selection
 - **Feather** – softens the edges of a selection by specifying a fade width
 - **Anti-alias** – smoothens the edges of a selection by using transparency
- 4 Drag the brush across the image area that you want to select, and release to review the selection.

You don't need to be precise; the selection expands automatically to toward edges.

You can press **Shift** and drag to add to the selection, or press **Ctrl** and drag to remove the selection.

New! Auto Selection tool: This new tool lets you enclose an image area in a bounding rectangle that automatically detects and snaps to edge. It's quick and simple, and does most of the work for you, which lets you focus on being creative.



The new Auto Selection tool automatically detects and snaps to the edges of an object area that you select.

Give it a try

Using the Auto Selection tool

- 1 In the **Edit** workspace, open a photo that contains an object or person that you want to select.
- 2 On the **Tools** toolbar, click the **Auto Selection**  tool.
- 3 Drag across the image to enclose the area that you want to select, and release to view the auto-selection.

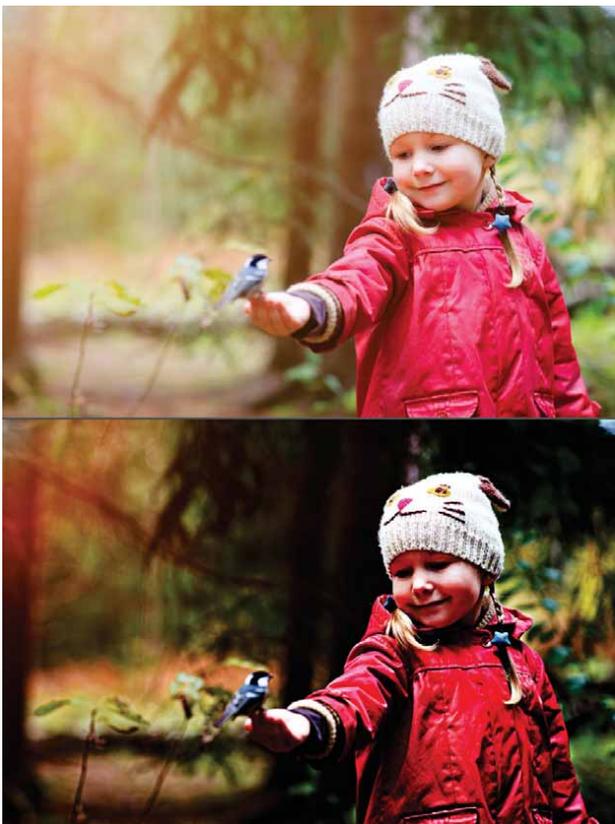
To redo the selection, press **Ctrl + D** and then reselect an area.

New! Video tutorials: PaintShop Pro X6 provides instant access to a plethora of proficiency building video tutorials. You simply click **Help ▶ Video Tutorials**.

A complete toolset for all skill levels

PaintShop Pro X6 provides professional-quality tools and guidance to help you take your photo editing to the next level. PaintShop Pro X6 offers a built-in script recorder that lets you automate practically any action that the application performs. In addition, we've updated the *PaintShop Pro Scripting Guide* to help you get up to speed quickly.

Enhanced! Script update: In combination with batch editing and custom presets, scripting can help you accelerate common or repetitive tasks. PaintShop Pro X6 provides an updated script framework to help you take advantage the application's automation capabilities. You can record a series of commands as a script that you can playback at any time. This can save you significant time with tedious tasks, which is especially useful if you apply the same effect(s) to many photos.



You can use scripting to automate applying a Dragan effect to a photo or series of photos.

Give it a try

Scripting to automate a Dragan effect

- 1 In the **Edit** workspace, open an image.
- 2 Click **File** ▶ **Script** ▶ **Start Recording**.
- 3 On the Layers palette, click the **New Layer**  button and choose **New Adjustment Layer** ▶ **Levels**.
- 4 In the **Levels** area of the Levels dialog box, drag the **black diamond** slider to approximately **15** and the **gray diamond** slider to approximately **170**, and then click **OK**.
- 5 Click the **New Layer** button and choose **New Adjustment Layer** ▶ **Hue/Saturation/Lightness**.
In the Hue/Saturation/Lightness dialog box, drag the **Saturation** slider to approximately **-30**, and click **OK**.
- 6 Click the **New Layer** button and choose **New Adjustment Layer** ▶ **Curves**.
In the Curves dialog box, add three points along the **Histogram** with the following approximate values, and then click **OK**:
 - **Output = 24, Input = 52**
 - **Output = 109, Input = 129**
 - **Output = 221, Input = 193**
- 7 On the Layers palette, right-click the original image and choose **Duplicate**.
Click **Effects** ▶ **Edge Effects** ▶ **High Pass**, and in the High Pass dialog box, enter a **Radius** setting of approximately **18**.
Right-click the duplicate layer, choose **Properties**, then choose **Overlay** from the **Blend mode** list box and click **OK**.
- 8 Right-click in the Layers palette and choose **Merge** ▶ **Merge All (Flatten)**.
- 9 Click **File** ▶ **Script** ▶ **Save Recording**, and then type a name for your script in the Save As dialog box.

Enhanced! Scripting Guide: The updated *PaintShop Pro Scripting Guide* offers a helping hand for anyone interested in scripting. PaintShop Pro X6

scripts are written in the Python programming language, and this guide can help users who are intimidated by code.



You can use the powerful PaintShop Pro scripting engine to create custom toolbars. For example, you can build your own toolbar for applying an image effect, such as the Dragan effect.

Give it a try

Creating a custom toolbar

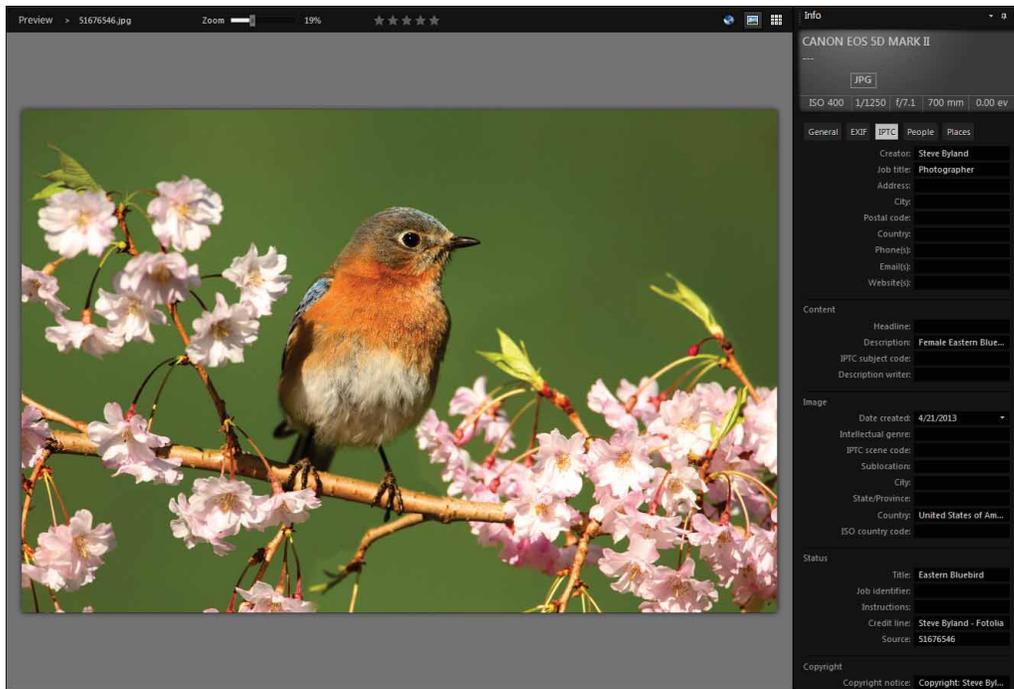
- 1 In the **Edit** workspace, open an image, and then click **View** ▶ **Customize**.
- 2 In the Customize dialog box, click the **Toolbars** tab, and then click **New**.
- 3 In the Toolbar Name dialog box, type a name for the toolbar, and then click **OK**.
A small, empty toolbar appears.
- 4 In the Customize dialog box, click the **Commands** tab.
- 5 In the **Categories** area, choose **Layers**.
- 6 In the **Commands** area, scroll through the list and drag the following icons to the toolbar:
 - **Levels** 

Give it a try

- **Hue/Saturation/Lightness** 
 - **Curves** 
 - **Duplicate** 
- 7 In the **Commands** area, choose **Effects** and then drag the **High Pass**  icon to the toolbar.
 - 8 In the **Commands** area, choose **Layers** and drag the following icons to the toolbar:
 - **Properties** 
 - **Merge All (Flatten)** 
 - 9 Click **Close**.
You can double-click the toolbar to dock it, or leave it floating in the workspace.

Enhanced! IPTC data for RAW files: With PaintShop Pro X6, you can add IPTC data to your RAW files by using the Info palette in the Manage workspace. IPTC data is used by photographers and agencies to save keywords, comments, and copyright

information, which makes their images searchable. When you output a RAW file in JPEG or TIFF formats, PaintShop Pro X6 will embed any IPTC data so that it stays with your files.



You can use the Info palette to easily add IPTC data to your images.

Enhanced! Support for Adobe® Photoshop® plug-ins: PaintShop Pro X6 provides support for Adobe Photoshop plug-ins to ensure that you can seamlessly work with your favorite 64-bit extensions and creative effects. In addition, you can also use the 32-bit edition of PaintShop Pro to run any older plug-ins that aren't supported by 64-bit architecture.

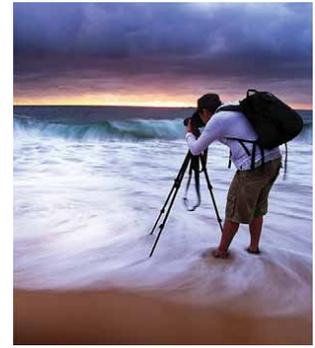
Enhanced! 64-bit plug-in interface: With the new 64-bit edition of PaintShop Pro, the plug-in interface has been updated to ensure that you can use 3rd-party plug-ins with ease.

Exceptional value with new Membership perks

The all-new PaintShop® Pro Membership program makes this all-in-one solution the most affordable photo-editing and design package on the market. Membership is free and by signing up you'll receive important product service packs, exclusive PaintShop Pro X6 content, as well as access to webinars and special offers.

Members will be notified when the latest content and service packs are available for download, ensuring you're always getting the most out of PaintShop Pro X6.

5



Benchmarking PaintShop® Pro X6 (64-bit)

To make PaintShop Pro X6 the most powerful version ever, we completely rebuilt its architecture to migrate from 32 to 64 bit.

Why 64 bit? And why now?

For application developers, the chief advantage offered by 64-bit architecture is the ability to access RAM beyond 4 GB. Migrating a 32-bit application to 64-bit architecture, however, is a large undertaking that requires significant development time.

The code has to be rebuilt from the ground up, starting with the foundation of 64-bit support libraries, and optimizing algorithms to take advantage of the 64-bit OS kernel, which improves many aspects of application performance. And it's not simply about speed — decisions have to be made about how best to utilize the additional processing power.

For customers, the appeal of a 64-bit application is that it promises to take advantage of newer hardware configurations. While 64-bit processors and operating systems have been available for years, software has been slow to make the switch due to the considerable effort involved.

Prior to developing PaintShop Pro X6, we surveyed our users and the number one request was for a 64-bit version. And so, we focused our development on bringing 64-bit power to PaintShop Pro and boosting the performance, speed, and stability of our users favorite features.

The result is a faster, smoother, and more responsive image-editing experience. Launched side-by-side with the previous version, PaintShop Pro X6 will start 10% faster. The HDR tools are quicker than ever. The Smart Carver now performs 16-bit image editing, reducing 'noise' and improving the quality of your adjusted image. Plus, you can work with more images at once, and with larger images (greater than 400 megapixels).

Benchmark use cases

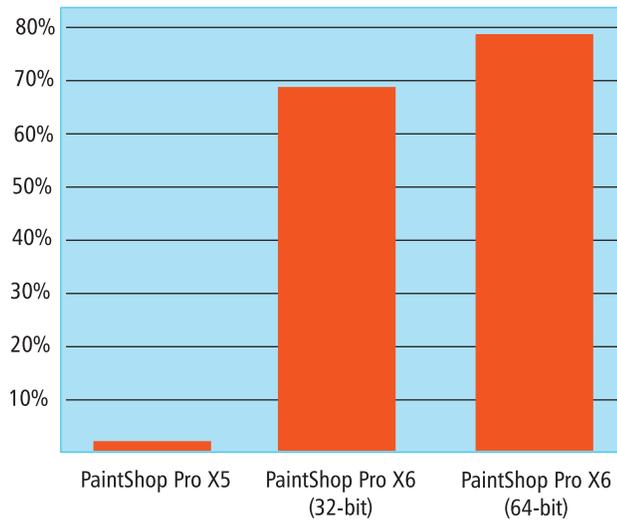
The following use cases describe common tasks that our users perform regularly, illustrating the performance gains enabled by 64-bit architecture. All benchmark tests were performed on the following system:

- **CPU:** Intel® Core™ i5-2520M CPU @ 2.50GHz (4CPUs), ~ 2.5GHz
- **OS:** Windows® 7 Enterprise SP1- 64bit
- **RAM:** 4 GB

Cataloging JPEGs: When you point PaintShop Pro to a folder or external drive, the application catalogs, or indexes, all images at the specified destination. Whether you are cataloging a few new images direct from your camera, or connecting to a hard drive to access thousands of images, the process can consume both time and application resources.

This is one of several key areas where the 64-bit version of PaintShop Pro X6 performs better and faster than ever. For example, RAW files — notoriously cumbersome for image editors — now load 9% faster than the 32-bit PaintShop Pro X5. And JPEGs, which

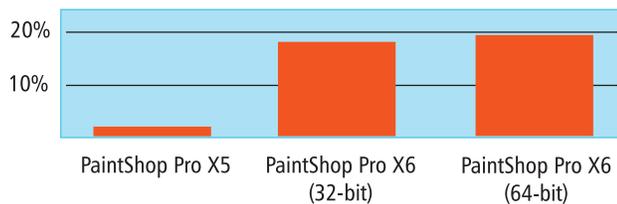
are the most popular format of our users, can now be cataloged a dramatic 78% quicker.



The new 64-bit PaintShop Pro X6 catalogs JPEGs a whopping 78% faster than the previous version.

Opening a JPEG in the Edit workspace: Here's an area where a small boost can make a big difference to the feel of an application. Once you've chosen an image to edit and your creative juices start flowing, the last thing you want is a delay. You're already thinking about how best to improve your image, and your image editor should respond fluidly.

Every editing task starts with opening the image, and PaintShop Pro X6 now does this significantly faster.

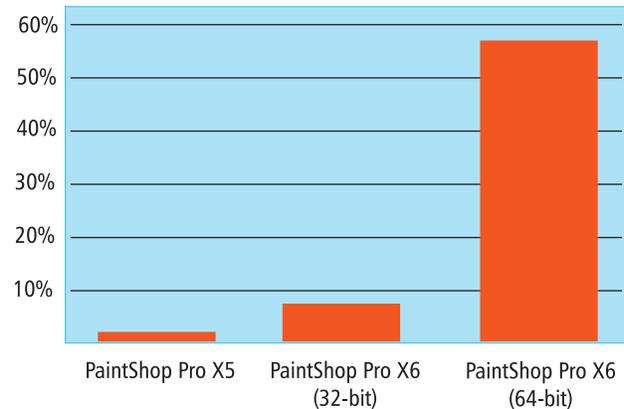


When you choose a JPEG for editing, PaintShop Pro X6 will open the image in the Edit workspace 18% quicker than PaintShop Pro X5.

Converting a batch of RAW files to PNG: Batch processing lets users automate routine image-editing tasks and is especially useful when working with multiple photos. For example, a web designer may need to convert several RAW files to PNG. For a typical

hobbyist user, automating the resizing of a batch of photos can save significant time and tedium.

With PaintShop Pro X6 (64-bit), you can now convert a batch of RAW files to PNG 57% quicker, and JPEG to PNG 70% faster. Plus, batch resizing clocks in 16% more swiftly.

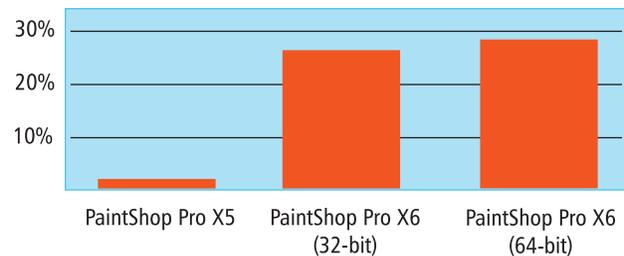


The new 64-bit PaintShop Pro X6 is 57% faster at converting batches of RAW files to PNG.

Applying the Skin Smoothing effect:

Retouching, or portrait editing, has long been one of most popular image-editing tasks. Due to the frequent adjusting and re-adjusting steps inherent in the process, retouching also tends to hog system resources and stall the performance of an image editor.

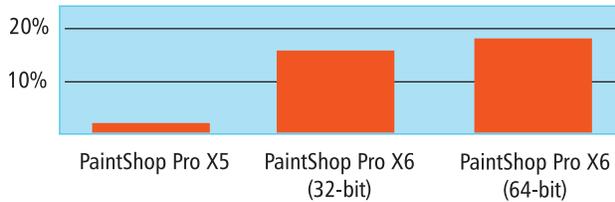
This is another area where the migration to 64-bit architecture resulted in an effect performing more rapidly.



With PaintShop Pro X6, you can now apply the Skin Smoothing instant effect up to 28% faster than the previous version.

Applying a One Step Photo Fix: Sometimes you just want to quickly improve the look of a photo and move on. One Step Photo Fix remains a crowd-pleaser with PaintShop Pro users because it's so easy and it works so well.

This sophisticated effect analyzes your image and smartly applies as many fixes as necessary to instantly enhance an image.

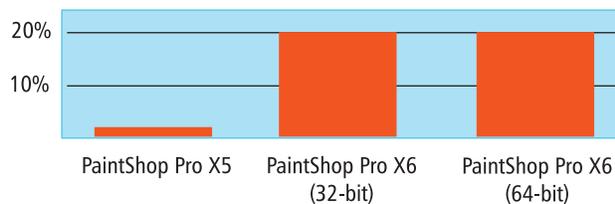
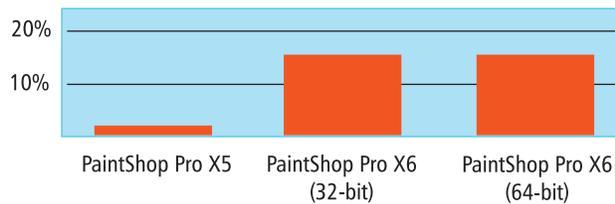


The new 64-bit PaintShop Pro X6 now applies One Step Photo Fix 18% quicker than the previous version.

Merging a batch of RAW files or JPEGs to HDR:

The HDR tools in PaintShop Pro offer a great entry point for anyone interested in producing high dynamic range images, balancing ease of use with powerful creative options. You can even create HDR images from a single RAW exposure.

With PaintShop Pro X6 (64-bit), the HDR tools remain easy to use while gaining speed and strength. You can work with more images and larger file sizes, which is especially useful if you frequently apply this effect to RAW files.



With the new 64-bit PaintShop Pro X6, a batch HDR merge of RAW files is 15% quicker than the previous version (top), and a batch HDR merge of JPEGs is 20% faster (bottom).

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