

Inspiring Creativity

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PhotoPlus, X8

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User Guide

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Welcome

Welcome to **PhotoPlus X8** from **Serif**—the perfect image creation and editing software for any enthusiast and those new to digital photography, whether at home, in school, an organization or growing business. PhotoPlus is the number one choice for working with photographs and paint-type images, whether for the web, multimedia, printing.

PhotoPlus has the features you'll need... from importing or creating pictures, through manipulating colours, making image adjustments, applying filter effects and so much more, all the way to final export. Built-in support for most modern digital cameras makes it easy to open your very own digital photos, either as JPG or as unprocessed raw images.

PhotoPlus also offers powerful on-computer post-shoot development, using **Import Raw**, where you're in full control of your raw image's white balance and exposure, and can perform "blown" highlight recovery. For image corrections, adjustments, filter effects (including stunning artistic effects), or layer cutouts, try **Lens Correction**, **PhotoFix, Filter Gallery**, and **Cutout Studio**, respectively. There is also an impressive range of standalone adjustments and advanced editing tools to help you get the very best from your images.

PhotoPlus and PhotoStack in combination

PhotoPlus takes care of all your image creation and photo editing needs. However, if you're looking to take a step back from photo editing and manage your collection of photos or scanned images, you can use **PhotoStack**. Using the program, you'll still be able to edit photos in PhotoPlus on demand.

Registration

Don't forget to register your new copy, using the **Registration Wizard** on the **Help** menu. That way, we can keep you informed of new developments and future upgrades!

New features

• High DPI support

Windows display scaling is supported with automatic selection of suitably sized, sharp-looking buttons, controls and menus, so for very high-resolution displays, displays at a distance, or for those with impaired vision, PhotoPlus X8 will look better than ever.

• Ultra-fast multi-threaded filter previews

A new filter engine gives exceptional performance when previewing and applying filters.

• **Colour Pickup Tool with Multiple Samplers** (see p. 102) The tool now lets you add and position colour samplers at different locations on your image. Great as a useful colour reference for ongoing design.

Info tab

The tab reports the colour values at your current cursor position and at one or more placed samplers. The cursor's X/Y co-ordinates are also reported.

• **Photo trimming** (see p. 75)

Crops your image by removing transparent areas at the image edge.

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• Placed photos (see p. 19)

Add supplementary photos to your document directly into a **non-destructive filter layer**. This gives complete flexibility when using applied adjustments and effects—photos can be replaced while keeping the adjustment/effect intact. With the option to scale the image, the feature is great for introducing extra photo content such as transparent overlays, textures, and more.

Professional adjustments and controls

- **Pixel-based cropping** (see p. 69) For web designers, cropping now lets you define your crop areas in pixels.
- Transfer Colour adjustment for colour matching (see p. 32) Perfect for matching colours between layers, or for consistent and complementary colour use across separate documents.
- HSL Dropper tools The HSL Adjustment now provides Add Colour and Subtract Colour droppers.
- **16 Bits/Channel plugin support** 16 Bits/channel Photoshop-compatible plugins are now available to use natively while your document is in 16 Bits/channel mode.

Creative effects

• Extra blend modes (see p. 30) Linear Burn and Linear Light complement the existing set of blend modes.

• Faster Surface Blur

Previously only available in the **Filter Gallery**, the filter can now be applied via **Effects>Blur**. The filter applies a blur without affecting image edges.

• Defringe for removing pixel edging

A useful matting option to eliminate unwanted pixels at the edge of pasted layer content.

• More effects in Lab 8 or 16 Bits/Channel mode

We've made more effects available for Lab. Noise Reduction in RGB 16 Bits/Channel is also possible.

• Add Noise

The Add Noise filter now supports both **colour noise** and monochromatic noise.

Installation

Installing PhotoPlus follows different procedures depending on whether you are installing from disc or via download.

- You can install your new version alongside previous versions and use them independently.
- 32 or 64-bit PhotoPlus X8 installs to respective 32 or 64-bit computers.

Installation procedure (from disc)

- Insert your purchased disc into your disc drive.
 - If AutoPlay is enabled on the drive, this automatically starts the Setup Wizard. Follow the on-screen instructions for install.
 - If AutoPlay is not enabled (or doesn't start the install automatically), navigate to your program disc and double-click **autorun.exe**.

Installation procedure (from download)

• From serif.com, when logged into your Serif account, follow the on-screen instructions to download.

System requirements

Minimum:

- Windows-based PC* with DVD drive and mouse
- Operating system: Microsoft Windows[®] 10 (32 or 64 bit) Microsoft Windows[®] 8 (32 or 64 bit) Windows[®] 7 (32 or 64 bit) Windows[®] Vista (32 or 64 bit) Windows[®] XP SP3 (32 bit)
- PC Memory: 512MB RAM (1GB RAM for 64-bit operation)
- Hard Drive Space (not including PhotoStack program): 340MB free hard disk space for physical media install (and a DVD drive)
 700MB free hard disk space for download install (additional space required during installation)
- 1024 x 768 monitor resolution (at 100% scaling)
 1280 x 960 monitor resolution (at 125% scaling)
 1536 x 1152 monitor resolution (at 150% scaling)
 2048 x 1536 monitor resolution (at 200% scaling)

* Main processor must support SSE2 instructions.

Recommended:

- Additional disk resources and memory are required when editing large and/or complex images
- To fully enjoy the enhancements in X8, a multi-core processor, 64-bit edition of Windows 8/7/Vista, and 3GB or more RAM are recommended.

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Optional:

- Windows-compatible printer
- Scanner and/or digital camera (TWAIN/WIA compatible)
- Pen (graphics) tablet

Internet account and connection required for product updates and accessing online resources

Opening, Saving and Organizing



Startup Assistant

Once PhotoPlus has been installed, you're ready to start.

- For Windows Vista/7: Setup adds a **Serif PhotoPlus X8** item to the **All Programs** submenu of the Windows **Start** menu. Use the Windows **Start** button to pop up the Start menu, click on **All Programs** and then click **Serif PhotoPlus X8**.
- For Windows 8: The Setup routine during install adds a **Serif PhotoPlus X8** entry to the desktop and also to the Start screen. Double-click the PhotoPlus icon from the desktop, or click the PhotoPlus tile on the Start screen.

On program launch, the Startup Assistant is displayed which offers different routes into PhotoPlus.



The options are described as follows:



The default home page keeps you in touch with Serif promotions and showcases articles (tutorials, etc.) You can also view the PhotoPlus Overview and Quick Start video.

To access images and PhotoPlus files, as well as creating HDR photo merges and scanned images.

Creates a new image from scratch.

Opens **PhotoStack** to manage and filter photos for PhotoPlus.

For online video/written tutorials, help, tips & tricks, and more—all via an updating feed that can be filtered. The Product Help and your electronic PhotoPlus X8 User Guide are also provided.

For cross-product news, company news, and product announcements, using Serif's news feed.

Any time you access the Startup Assistant, the Learn or News buttons indicate the number of new articles to be viewed (if available). This number will decrease as you read each article in the Learn or News pane. When new articles arrive, these will be indicated the next time you open the Startup Assistant.

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Any new unread article arriving in the Learn or News pane will display a "new" indicator in its thumbnail.

Once you've clicked on a new article the "new" indicator changes to a "read" indicator.

Don't forget to use the keyword Search box at the top-right of the Startup Assistant.

This is an incredibly powerful tool for filtering specific file names, Learn articles, or News articles.

To access the Startup Assistant when PhotoPlus is already running, choose **Startup Assistant** from the **File** menu.

Starting from scratch

PhotoPlus lets you create an image from scratch which is based on a predefined canvas size (e.g., $10 \ge 8$ in). Different canvas size options are available from a range of categories (International/US Paper, Photo, Video, Web, or Animation). You can also create your own custom canvas sizes, and even store them for future use. For either preset or custom sizes, the resolution can be set independently of canvas size.

When you create a new image, you can choose to work in different colour modes, i.e., RGB, Lab, or Greyscale, in either 8- or 16bits/channel. Use a **Bit Depth** of 16 bit for higher levels of image detail.

To create a new image (via Startup Assistant):

Open PhotoPlus to display the Startup Assistant.
 - or -

Select Startup Assistant from the File menu (during your session).

- 2. Select New Image.
- 3. In the New Image dialog, you can either:
 - i. For a **preset** canvas size, select a suitable **Category** from the drop-down list. Categories are named according to how your image or animation is intended to be used, e.g. pick a Photo category for photo-sized canvases.
 - ii. Pick a canvas Size from the drop-down list.- or -
 - For a custom canvas size, enter your own **Width** and **Height**. If the dimensions are non-standard, the Size drop-down list will be shown as "Custom." For future use, save

the custom size with **Add Size** (from the **button**) if necessary.

Although you can resize the image **canvas size** (width x height) later, it's usually best to allow some extra canvas area at first.

- 4. (Optional) Add a **Resolution** for the new image file. Leave the resolution as it is unless you're sure a different value is required.
- 5. (Optional) Select a **Colour Mode**, choosing to operate in RGB, Lab, or Greyscale mode.
- 6. (Optional) Select a **Bit Depth** of 16 bits per channel for projects which require higher levels of colour detail. Otherwise a bit depth of 8 bits/channel is used as default.

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- 7. (Optional) Select a background type in the **Background** drop-down list.
 - When painting from scratch, you'll normally choose White.
 - You can also choose Background Colour, to use the current background colour shown on the Colour tab.
 - When creating an animation, Transparent is often ideal.
- 8. When you've made your selections, click **OK**.

To create a new picture or animation (during your session):

- 1. Click **New** on the **Standard** toolbar.
- 2. In the New Image dialog, set your canvas size (see p. 65) and then check **Animation** to create an animation or leave unchecked for a picture.
- 3. Click **OK**. The new image or animation opens in a separate untitled window.

Opening an existing file

You can use the Startup Assistant's **Open** button to access files recently viewed in PhotoPlus or any file on your computer. PhotoPlus opens all the standard formats for print and web graphics, in addition to its native SPP format, Adobe Photoshop (PSD) files, and Paint Shop Pro (PSP) files.

Raw files open in an Import Raw dialog, which offers image adjustment on the "undeveloped" image before opening. See Adjusting raw images in PhotoPlus Help. Similarly, you can create HDR merged images from the Startup Assisant (Open>Create) and even readjust your HDR merge results from a saved intermediate HDR image.

Once you've created and saved your project as a PhotoPlus file, it can also be opened from the Startup Assistant.

Opening an image

Open PhotoPlus to display the initial Startup Assistant.
 - or -

Select Startup Assistant from the File menu (during your session).

- 2. Select **Open**.
- 3. Select All Images from the Browse My Computer pane.



4. From the dialog, locate and select your file, then click **Open**.

Opening saved PhotoPlus work

- 1. Open PhotoPlus to display the initial Startup Assistant.
- 2. Select Open.

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- 3. Several options are possible:
 - i. For recently opened PhotoPlus files (and images), select a thumbnail from the main pane.



ii. The photo opens in your workspace.

- or -

• For any other previously saved work, select **PhotoPlus Files** from the Browse My Computer pane.



iii. From the dialog, locate and select your file, then click Open.

To open any photo (without Startup Assistant):

• Click Open on the Standard toolbar.

Getting images from TWAIN/WIA devices

If your digital camera or scanner supports either the TWAIN or WIA standard, you can bring pictures from these devices directly into PhotoPlus.

For 64-bit PhotoPlus, you'll be able to use native 64-bit or 32-bit sources, without leaving the program.

For TWAIN/WIA device-specific setup, see device documentation.

To acquire your image (from Startup Assistant):

Open PhotoPlus to display the initial Startup Assistant.
 - or -

Select Startup Assistant from the File menu (during your session).

- 2. Select Open.
- 3. Select Import from TWAIN from the Browse My Computer pane.
- 4. (For multiple devices) Select the device from the dialog, and press **OK**.
- 5. Complete the procedure using the displayed acquisition dialog associated with the selected source.

You can also import scanned images directly via **File>Import>Acquire**.

To select a TWAIN or WIA source for scanning (during your session):

- 1. From the File menu's Import flyout. click either Select TWAIN Source or Select WIA Source.
- 2. From the dialog, which differs for TWAIN and WIA devices, select a device and click **OK**.

Saving a file

PhotoPlus lets you work on (and save) one of several file types:

- A **PhotoPlus Picture (SPP)** file is project-based and so preserves 'project' information (e.g., layers, masks, paths), if present, when saving the file.
- For a currently open **image** file you can edit and save the image back to its original format.
- An intermediate **HDR** image can be saved, which stores the results of an HDR Photo Merge for future use.

To save your PhotoPlus Picture (SPP):

• Click the Save button on the Standard toolbar, or to save under a different path or base name, choose File>Save As.

To save your currently open image:

- If you've altered the background layer only and no layers, paths, or masks have been added, you can save (without prompt) the altered image to its current base name via Save and Save As.
 or -
- If you've added layers, paths, etc, when you click a **Save** option you'll be asked if you want to keep the project information.
 - In the dialog, click **Yes** to save your project information (as an SPP file).

- or -

Click **No** to save as a flattened image (i.e., without layers).

To revert an image file:

• Click **Revert** from the **File** menu.

Using plugins

PhotoPlus supports **non-automated** Adobe Photoshop-compatible plugin filters (e.g., Topaz and Filter Forge plugins), which, if located in your PhotoPlus Plugins folder, will appear on the **Effects** menu.

32-bit plugins will only run in 32-bit PhotoPlus and 64-bit plugins in 64-bit PhotoPlus.

To apply a plugin filter:

• Choose it from **Effects>Plugin Filters**. Either the effect will be applied immediately, or the plugin will display its own dialog.

Placing images

PhotoPlus lets you import images that can be used to supplement existing content in your document. You'll be able to resize the image once placed and apply adjustments and effects non-destructively.

To place an image from a file:

- 1. From the File menu, select Insert Picture.
- 2. Use the dialog to select the image to open.
- 3. Click Open.

The image is added to the page, sized to the page width. To set the size of the inserted image, drag a corner handle.

The image is added as a filter layer from which you can apply one or more adjustments and effects.

Organizing photos

PhotoStack is a powerful photo management application which acts as a useful launch point for your photos. From your collection of photos you'll be able to perform a range of **management** and **filtering** operations.

To launch PhotoStack:

- 1. Open PhotoPlus to display the Startup Assistant.
- 2. Select PhotoStack.

PhotoStack is launched as a separate application. - or -

From the Standard toolbar, select 🚱 PhotoStack.

PhotoStack is a great starting point for editing photos in PhotoPlus. To edit your photos in PhotoPlus directly from PhotoStack, click **Edit in PhotoPlus** on the **Edit** menu (or choose the option by right-clicking a chosen photo).

Layers, Masks and Blending



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Introduction to layers

If you're accustomed to thinking of pictures as flat illustrations in books, or as photographic prints, the concept of **image layers** may take some getting used to. However, they are one of the most powerful features in PhotoPlus, allowing you to adjust and manipulate your photos in a variety of ways in a non-destructive environment.



Think of layers as transparent sheets upon which you can add adjustments, effects filters, paint colours, and add further images, shapes, and text to build up the perfect picture.

Kinds of layers

In a typical PhotoPlus image—for example, a photograph you've scanned in, a new picture file you've just created, or a standard bitmap file you've opened—there is one layer that behaves like a conventional "flat" image. This is called the **Background layer**, and you can think of it as paint overlaid on an opaque, solid colour surface.



Using the Layers tab, you can create any number of new layers in your image. Each new one appears on top of the currently active layer, comprising a stack that you can view and manipulate with the Layers tab. We call these additional layers standard layers to differentiate them from the Background layer. Standard layers behave like transparent sheets through which the underlying layers are visible.

Other types of layers also exist in PhotoPlus:

- Shape layers are specifically designed to keep drawn lines and shapes (including QuickShapes) separate from the other layers so that they remain editable. (See Drawing and editing lines and shapes; p. 89)
- **Text layers** work like Shape layers, but are intended exclusively for text. (See Creating and editing text; p. 95)
- Fill layers contain an adjustable solid colour or gradient fill.
- Adjustment layers apply corrective image adjustments to lower layers. (See Using adjustment layers; p. 35)
- Filter layers, are much like standard layers, but you can apply one or more filter effects to the layer without permanently altering layer content. You also have full control over effects in the future. (See Using filter layers; p. 48)

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Selections and layers

With few exceptions, you will work on just one layer at any given time click a layer on the Layers tab to activate and work on that layer. Tools and commands generally affect the entire active layer. However, if there's a selection in place, tools and commands are limited to the pixels inside the selection.

Selections are independent from layers. They don't actually include image content—they just describe a region with boundaries. Therefore, if your image has multiple layers and you switch to another layer, the selection stays in place and follows you to the new active layer.

Operations involving layers

To carry out basic layer operations:

- To select a layer, click on its name in the Layers tab. The selected layer is now the **active layer**. Note that each layer's entry includes a preview thumbnail, which is visible at all times and is especially useful when identifying layer contents.
- To create a new standard layer above the active layer, click the **New Layer** button on the Layers tab. Dragging a file from Windows Explorer and dropping it onto the current window also creates a new layer from the dragged image.
- Click the New Fill or Adjustment Layer button to apply a Fill Layer or an image adjustment layer.
- The Add Layer Mask button adds a mask to the currently selected layer (not a Background layer).

- The Add Layer Depth Map button creates a depth map for the selected layer (not a Background layer).
- The Add Layer Effects button creates a 2D or 3D effect on the layer (not a Background layer). Right-click to copy/paste, clear or hide effects.
- To make a layer's contents visible or invisible, click the **Hide/Show Layer** button next to its name on the Layers tab.
- To convert any shape, text or fill layer to a standard layer, rightclick on the layer name and choose **Rasterize** from the menu.
- To convert the Background layer to a standard layer (which supports transparency), right-click "Background" on the Layers tab and choose **Promote to Layer**. The layer's name changes from "Background" to "Layer <number>." To convert a standard layer to a Background layer, right-click the layer and choose **Layer to Background**.
- To convert the layer to a non-destructive filter layer, for applying and managing effect and adjustment filters, right-click and select **Convert to Filter Layer**.
- To access Layer Properties—including Name, Blend Mode, Opacity, and Blend Ranges—right-click the layer name and choose **Properties**.

To control layer content:

• To select all layer content use Select>Select All or Ctrl+A. To select non-transparent regions on a layer, Ctrl-click on a layer thumbnail. Use Select>Invert or Ctrl+Shift+I to select transparent regions.

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- To move layer content, select one or more layers containing the content to be moved (from the Layers tab), then drag with the **Move Tool** with no selection area present (press **Ctrl+D** to remove any selection).
- To align layer content, select multiple layers (as above), then choose **Align** from the **Layers** menu, then select an option from the submenu.

Adjusting opacity/transparency

Opacity and **transparency** describe essentially the same thing. They both describe the extent to which a particular pixel's colour contributes to the overall colour at that point in the image. Fully opaque pixels contribute their full colour value to the image. Fully transparent pixels are invisible: they contribute nothing to the image. In-between pixels are called semi-transparent.



Fully opaque text (100% Opacity)

Semi-transparent text (50% Opacity)

You'll primarily encounter opacity in one of these two contexts:

• As a property of the pixels laid down by individual **tools** (Paintbrush, Clone, Eraser, Fill, Smudge, QuickShape, and more).

• As a property of individual **standard layers**. The layer's opacity setting affects all the pixels on the layer, and is cumulative with the opacity of individual pixels already there.

To set a tool's opacity:

• Select the tool (e.g., Paintbrush Tool) and from the context toolbar either enter a percentage **Opacity** value directly or use the slider (click the option's right arrow button).

To set a layer's opacity:

• Select the layer in the Layers tab and adjust the **Opacity** setting at the top of the tab—either enter a percentage **Opacity** value directly or use the slider (click the option's right arrow button).

To read the opacity values of pixels on all visible layers:

- 1. Select the Colour Pickup Tool from the Tools toolbar and move it around the image.
- 2. Read the value shown for "O" (Opacity) from the pop-up window (e.g., O:73%).



The readout updates constantly, showing the opacity value of each pixel under the cursor.

For more useful hints and tips about using opacity, see PhotoPlus Help.

Using masks

Masking can also be applied to adjustment and effect filters, where you can isolate regions (e.g., an image background) to which you want a filter to be applied. Similarly, you can use studio-based filter masking in PhotoFix (for adjustments) and Warp Studio (for warps).

Creating the mask



Before you can use a mask, you have to create it on a particular layer. The mask can start out as transparent (revealing the whole layer), opaque (hiding the whole layer), or—if you create it from a selection (opposite) a bit of both.

The choice depends on how you want to work with the layer's contents. By darkening portions of a clear mask, you can selectively fade layer pixels. By lightening an opaque mask, you selectively reveal layer pixels.

To create a mask:

- 1. Select a layer in the **Layers tab**. This is the layer where you want to create the mask, and select specific region(s) if desired.
- 2. Click the Add Layer Mask button to create a Reveal All mask (or Reveal Selection if there is one). Instead, Alt-click the button for a Hide All Mask (or Hide Selection).

On the Layers tab, a mask preview thumbnail appears, confirming that a mask exists.

Editing on the mask

When you create your mask you immediately enter Edit Mask mode, where you can use the full range of painting tools, selection options, flood fills, gradient fills, and effects to alter the mask's greyscale values. These manipulations cause corresponding changes in opacity, which in turn changes the appearance of the pixels on the layer itself.

The image window's title bar shows "**Mask**", indicating that a mask is currently being edited. The Colour tab switches to Greyscale mode when you're editing a mask, and reverts to the previous setting when you exit Edit Mask mode. This means anything you paste from the Clipboard onto the mask will automatically be converted to greyscale.

As long as you are editing the mask, you're only seeing a preview of changes on the layer.

You can switch out of Edit Mask mode at any time to edit the active layer directly (or any other part of the image), then switch back to resume work on the mask.

To edit the active layer:

• Click the layer thumbnail to the left of the Mask thumbnail. The thumbnail is then bordered in white.



To edit the active layer's mask:

• Click the mask thumbnail.



Masks and selections

Once you've created and manipulated a selection, it's easy to turn it into a mask.

To create a mask, revealing the selection:

- 1. Create a selection (See Making a selection on p. 62).
- 2. From the Layers tab, click D Add Layer Mask.



Normal	- Opacity: 100 🕨 %
Normal Dissolve	
Multiply	Ē
Burn	
Linear Burn	er
Darken	
Darker Colour	

Using blend modes

You can think of **blend modes** as different rules for putting pixels together to create a resulting colour. In PhotoPlus, you'll encounter blend modes on layers or effects. The colours of an upper layer blend with colours of the lower layer according to the upper layer's blend mode.

To set a tool's blend mode:

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• Select the tool and use the drop-down list on the tool's context toolbar.

To set a standard layer's blend mode:

• On the Layers tab, select the layer and choose from the blend mode's dropdown list.

Making Image Adjustments


Introduction to image adjustments

A major part of photo-editing is making corrections (i.e., **adjustments**) to your own near-perfect images. Whether you've been snapping with your digital camera or you've just scanned a photograph, at some point you may need to call on PhotoPlus's powerful photo-correction tools to fix some unforeseen problems.

For photo-correction, several methods can be adopted. You can use a combination of:

- **Image colour adjustments**: For applying colour adjustments to a selection or layers.
- **PhotoFix**: For making cumulative corrective adjustments from within a studio environment.
- **Retouch** brush-based tools: Red Eye, Smudge, Blur, Sharpen, Dodge/Burn (for exposure control), Sponge (for saturation control), Scratch Remover.

If you work with raw images you can make image adjustments on your unprocessed raw file (before interpolation). See Adjusting raw images on p. 38.

Overview: Adjusting image colours

PhotoPlus provides a number of different adjustment filters that you can apply to a selection or to an active standard layer. Typically, these adjustments are used to correct deficiencies in the original image.

The adjustment can be applied in one of several ways:

• via the **Adjustments tab**, as an **adjustment layer** (non-destructive).

- via **PhotoFix**, a studio environment for managing and applying cumulative adjustments (non-destructive).
- via Image>Adjust, on a filter layer (non-destructive).
- via Image>Adjust, on a standard layer (destructive).

Here's a summary of the available PhotoPlus image adjustments.

- Levels: Displays a histogram plot of lightness values in the image, from which you can adjust the tonal range by shifting dark, light, and gamma values.
- **Curves**: Displays lightness values in the image using a line graph, and lets you adjust points along the curve to fine-tune the tonal range.
- **Brightness/Contrast**: Brightness refers to overall lightness or darkness, while contrast describes the tonal range, or spread between lightest and darkest values.
- **Shadow/Highlight/Midtone**: Controls the extent of shadows, highlights, and contrast within the image.
- Hue/Saturation: Hue refers to the colour's tint—what most of us think of as rainbow or spectrum colours with name associations, like "blue" or "magenta". Saturation describes the colour's purity—a totally unsaturated image has only greys. Lightness is what we intuitively understand as relative darkness or lightness—ranging from full black at one end to full white at the other.
- **Colourize**: Lets you recolour an image using Hue, Saturation, and Lightness.
- Vibrance: Boosts low-saturation colours in your image, while high-saturation colours are less affected.

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- **Colour Balance**: Lets you adjust colour and tonal balance for general colour correction in the image.
- **Replace Colour**: Tags one or more ranges of the full colour spectrum that require adjustment in the image, then apply variations in hue, saturation, and/or brightness to just those colour regions (not to be confused with the simpler Replace Colour Tool).
- **Transfer Colour**: Lets you transfer colour from a source image, layer or selection to a target image, layer or selection.
- Selective Colour: Lets you add or subtract a certain percentage of cyan, magenta, yellow, and/or black ink for creating effects.
- **Channel Mixer**: Modifies a colour channel using a mix of the current colour channels.
- **Gradient Map**: Lets you remap greyscale (lightness) information in the image to a selected gradient.
- Lens Filter: Adjusts the colour balance for warming or cooling down your photos. It digitally mimics the placement of a filter on the front of your camera lens.
- Black and White: Used for greyscale conversion with controllable source channel input.
- Threshold: Creates a monochromatic (black and white) rendering. You can set the threshold, i.e. the lightness or grey value above which colours are inverted.
- **Equalize**: Evenly distributes the lightness levels between existing bottom (darkest) and top (lightest) values.
- **Invert**: Inverts the colours, giving the effect of a photographic negative.

- Clarity: Lets you sharpen up your photos using local contrast.
- **Posterize**: Produces a special effect by reducing the image to a limited number of colours.

Instead of the manual tonal adjustments above, the PhotoPlus **Image** menu lets you correct shadow/highlight values in an image automatically. **Adjust>AutoLevels** or **Adjust>AutoContrast** may do the job in one go; if not, you can use **Adjust>Levels** or **Adjust>Shadow/Highlight/Midtone**. (See PhotoPlus Help for details.)

Use the Histogram tab to display statistics and image colour values, helping you to evaluate the kinds of image adjustments that may be needed.

Using adjustment layers



Adjustment layers are

recommended for applying image adjustments experimentally and nondestructively to your image.

An adjustment layer is created by selecting an adjustment from the **Adjustments tab**. As its name suggests, an adjustment layer is considered a layer so it will appear in the Layers tab on creation.



The Adjustments tab lists available adjustments in a selectable adjustments list. After selection, the tab displays a Settings pane for that adjustment (and for any selected adjustment layer present in the Layers tab).

Unlike the other layer types, adjustment layers don't store content in the form of bitmap images, text, or shapes. Rather, an adjustment layer applies the adjustment to content on **all** layers below it (although you can restrict the effects of the adjustment by adding to a group or by clipping to the immediate layer below).

The layer is essentially a container in which only the adjustment's settings and its layer properties are stored.

Adjustment layers let you revisit the settings for a given adjustment as often as needed, while continuing to edit the image in other ways. If you later decide you don't even need an adjustment, you can simply remove it!

For more in-depth details on each adjustment, view the PhotoPlus help, click the Contents tab, and open the *Making Image Adjustments* book.

To create an adjustment layer:

- From the Adjustments tab, select an adjustment. You can choose a default adjustment or a named preset by expanding the adjustment entry (click).
- 2. In the **Layers** tab, the new adjustment layer is inserted above the active layer. The adjustment is applied to all underlying layers.



3. From the **Adjustments** tab, change the applied adjustment layer's settings to suit your requirements. For example, for a levels adjustment, you can drag the histogram pointers to alter levels.

To save an adjustment layer as a new preset:

- 1. Select and then modify an adjustment layer in the Adjustments tab.
- 2. Click 🛨 Add Preset.
- 3. From the dialog, name your custom adjustment layer, and click **OK**.

Custom adjustments will appear under the adjustment's type in the tab's adjustment list.

To modify an adjustment layer:

- 1. Click the adjustment layer's name in the Layers tab.
- 2. From the Adjustments tab, modify the applied adjustment layer's settings.

To hide/show an adjustment layer:

Click Hide/Show Layer on the Layers tab.

To reset an adjustment layer:

- 1. Click the adjustment layer's name in the **Layers** tab.
- 2. From the Adjustments tab, select Restore Default Settings.

Adjusting raw images

PhotoPlus's **Import Raw** dialog offers post-shoot adjustments to your raw file **without** affecting the original file. **White balance**, **exposure**, **highlight recovery**, **noise reduction**, and the removal of **chromatic aberration** are all possible. With an in-built histogram, it's easy to firstly check exposure levels and to spot any highlight clipping (suggesting image overexposure), and to secondly make adjustments using the human eye and the histogram in combination.



Opening 16-bit HD photos will automatically adopt a 16-bits/channel Colour mode to maintain high-quality colour or tonal detail.

To open a raw image:

Open PhotoPlus to display the initial Startup Assistant.
 - or -

Select Startup Assistant from the File menu (during your session).

- 2. Select Open.
- In the Open dialog, select the folder and file name. To open multiple files, press the Shift or Ctrl key when selecting their names (for adjacent or non-adjacent files).
- 4. Click Open.
 - or -
- Drag and drop a raw file into PhotoPlus from Windows Explorer.

The image opens in the Import Raw dialog.

Import Raw performs some preprocessing to attempt to correct the levels on your photo. However, you may wish to make further, manual adjustments.

If opening multiple raw files, once you've adjusted the first image, the **Import Raw** dialog will load the next image automatically until all files are loaded.

To exit the Raw Image dialog:

• Click OK.

Once you've exited the Import Raw dialog, you photo will display in the usual PhotoPlus user interface. On saving (**File>Save** or **File>Save As**), you'll be prompted to save your work as a PhotoPlus picture (SPP). You may also wish to export your photo to a standard image format. (See

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Saving a file and Exporting to another file format on p. 18 and 112, respectively, for more information.)

Using the Import Raw dialog

The filters on the right of the dialog allow you to make common adjustments to your photo including white balance, lighting, highlight recovery, noise reduction, and removal of chromatic aberration.

To enable any filter:

• Click • Enable in the filter's title bar.

If needed, expand a filter to display its settings, by clicking the Expand/Collapse filter.

To set output format:

- On the **Output Format** section:
 - (Optional) From the **Bit Depth** drop-down list, select 8
 Bits/Channel to reduce the colour information within the image output.

By default, optimum raw colour information is preserved (i.e., 16 Bits/Channel).

• (Optional) From the **Colour Space** drop-down list, assign a colour space to your image which matches your intended colour **workspace**.

For professional work, AdobeRGB, ProPhoto, or WideGamut offer larger colour spaces (i.e more colours) than the standard RGB (sRGB) space (this is acceptable for most users), but you'll need to enable colour management and pick the same colour space as your chosen workspace. Most of the adjustments you can make to your photo in the Import Raw dialog are also available in PhotoFix. For more information, see Using PhotoFix on p. 43.

Lens correction

PhotoPlus lets you correct a range of lens distortions in your images within a single studio. Combinations of lens and tilt corrections can be made, along with a powerful image straightening.

To open the Lens Correction studio:

• With an image already open, select Lens Correction from the Effects menu.



You can carry out the following actions using various tools in the studio:

• View (and Move) a Grid: A customizable visual overlay to help you spot and correct distortion.

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- Straightening: use a horizon line to quickly straighten images.
- **Zoom**: Click and drag over your image to focus on an area in more detail. Shift-click to zoom out.
- **Pan**: Shift the view to navigate around a zoomed-in image.

Apply the following from the Lens Correction section:

- **Pincushion/Barrel Distortion**: Most commonly used to fix images that have a slight bulge due to lens flaws.
- **Red/Cyan** and **Blue/Yellow Fringe**: Correct colour halos sometimes found in areas of high contrast.
- Vignette Intensity and Vignette Midpoint: Compensate for darkness at the corners of images.
- Autoscale zooms the image to trim away transparent edges introduced by lens corrections.
- Save and Apply Settings: Quickly reapply your favourite or last-used adjustments to save time and effort.

And using the Tilt Correction section:

- Vertical Perspective: Corrects perspective distortion (about the X-axis) caused by camera tilt.
- **Horizontal Perspective**: As for Vertical Perspective but about the Y-axis.
- **Rotation**: Straightens your image if appearing slanted as a result of perspective distortion.
- Scale: Simulates a zoomed-in lens, with cropping of your image.

Using PhotoFix

PhotoFix provides an image **adjustment** environment within PhotoPlus which simplifies the often complicated process of image correction.



To launch PhotoFix:

• Click **PhotoFix** on the **Photo Studio** toolbar.



(A) Retouch tools, (B) Main toolbar, (C) Main Workspace, (D) Histogram,
 (E) Filters, (F) Favourites.

Adjustments overview

Here's a quick overview of all the adjustments hosted in PhotoFix, some tool-based and some available as filters. The tool-based adjustments are:

Red Eye	Spot Repair
Clone Selection	Crop/Straighten

Filters are made available from the **Filters** section.

Noise	White	Lighting	Curves	
Reduction	Balance			
HSL	Black and	Chromatic	Lens Distortion	
	White Film	Aberration		
	Long Vignotta	Unsharn Mask		
	Lens vignette	Unsharp Mask		

You'll also be able to apply adjustments selectively using both standard masking (see p. 45) and gradient masking (see PhotoPlus Help).

To apply an adjustment (from a favourites preset):

- 1. From the **Favourites tab**, scroll the tab to review the categorized adjustments; select a preset or custom thumbnail.
- 2. Click OK.

When applied, your image layer is **automatically** converted to a nondestructive filter layer with a PhotoFix adjustment entry nested under the filter layer entry.



To apply an adjustment (using custom settings):

- Review the available adjustments in the Filters section, before expanding the adjustment you want to apply by clicking
 Expand.
- Modify the adjustment using sliders, check boxes, graph adjustments, and drop-down lists. The image will be adjusted automatically to reflect the new settings in the preview window. The adjustment filter is enabled once a setting is changed, i.e. the
 Enable/disable filter option becomes enabled (
- 3. Click **OK**. A filter layer is created.

To reset (and disable) a modified adjustment:

Click Section Reset settings on the adjustment's pane.

To edit PhotoFix adjustments:

• Double-click the PhotoFix entry on the filter layer.

To apply a standard mask:

- 1. Select Create mask from the main toolbar. The Mask entry appears in the Filters section, opened by clicking Expand.
- 2. (Optional) Adjust the settings in the Mask pane.
- 3. Using the Cursor, paint the regions to be masked.
- 4. (Optional) Click the **Invert** option to invert your mask, i.e. areas that were masked become unmasked (and vice versa).
- 5. Apply your adjustment from the Filters section, which will make a change to your masked regions.
- 6. Click on Create mask again to deactivate masking.

Adding Image Effects



Overview: Applying special effects

Special effects such as **distort**, **blur**, **sharpen**, **edge**, **noise**, **render**, **stylistic**, and **artistic** offer you a diverse choice of creative opportunities in PhotoPlus.

Before going ahead and applying your effects, it's a good idea to review Using filter layers (see p. 48) before deciding on your approach, i.e. whether you work non-destructively or destructively.

Each effect can be applied in one of several ways:

- On a filter layer, via an Effects dialog or via the Filter Gallery (non-destructive).
- On a standard layer, via an Effects dialog or via the Filter Gallery (destructive).

As with image adjustments (see p. 32), you can use filter effects to improve the image, for example by sharpening, but more often the emphasis here is on the "creative" possibilities when effects are applied.

Using filter layers



If you apply a filter effect to a standard or background layer, the layer is permanently altered. However, if you want the flexibility of being able to edit your filters at any point in the future (and don't want to destroy the layer contents) you can **convert** your standard or background layer to a **Filter Layer** (e.g., Background Copy).

When applied, filters are created within **filter groups**, nested individually under the Filter Layer. When you double-click a filter you display its specific settings. You can apply a blend mode and opacity to each filter, and additionally filter masking to the filter group.

For added security, it's good practice to create a duplicate of any background layer you initially have.

To convert to a filter layer:

• In the Layers tab, right-click a standard or Background layer and choose **Convert to Filter Layer**.

The layer now shows the letter "F" indicating that it is now a filter layer, and ready to have a filter applied.

To add filters to the filter layer:



- 1. Select the filter layer.
- 2. Add an adjustment via the **Image** menu.

- or -

Add an effect via the **Effects** menu or via the Filter Gallery on p. 53.

Each filter, as it is applied, is created within a filter group nested under the selected filter layer.

Editing filters

Once a filter is applied, it's likely that you may want to edit it at a later date.

To edit a filter:

- 1. Double-click the filter entry, e.g. Gaussian Blur.
- 2. The filter can then be edited via dialog or Filter Gallery. Adjust the filter and click **OK**.

Using filter masks

In an identical way to layer masks (see p. 28) you can apply a **mask** to a filter layer. However, masks can additionally be used for selective filter control for image correction or artistic reasons. These are called **filter masks**, which limit the influence of any applied filter(s) to that masked region only. Filter masks are applied either automatically (from a selection existing before applying a filter) or manually (after you've applied the filter) to a **filter group** (but never to an individual filter).



See Using masks (see p. 28) for more details on masking and masking controls.

To create a filter mask (from a selection):

- Make a selection on which your mask will be based, e.g. a brush selection around the subject of interest. By default the area outside the selection is masked (i.e. not affected by the filter), while the selection area retains the applied filter. If you want to do the opposite, choose **Invert** from the **Select** menu.
- 2. In the Layers tab, select the filter layer to which you wish to apply a filter.
- Add an adjustment via the Image menu.
 or -

Add an effect via the Effects menu or via the Filter Gallery.

The filter is created within an automatically created filter group, which applies a mask automatically.



4. (Optional) Fine-tune the filter by double-clicking the filter entry and editing the settings.

To create a filter mask (by mask painting):

- 1. With no selections present, in the Layers tab, select the filter layer to which you wish to apply a filter.
- Add an adjustment via the Image menu.
 or -

Add an effect via the **Effects** menu or via the Filter Gallery.

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- 3. Right-click the created filter group and select **Add Mask** from the flyout menu and then one of the following from the submenu:
 - Reveal All for a transparent mask
 - Hide All for an opaque mask.

A mask thumbnail appears to the left of the filter name.



4. Paint or draw on your image using a suitable greyscale value set as your foreground colour. The mask thumbnail updates accordingly.

To disable (enable) a mask:

• Right-click the filter group and select **Disable Mask** (or **Enable Mask**) from the flyout menu.

To delete a mask:

• Right-click the filter group and select **Delete Mask** from the flyout menu.

Using the Filter Gallery

The Filter Gallery offers a one-stop studio environment for applying **single** or **multiple** filter effects. The gallery hosts sets of filter thumbnails which are categorized into different effect categories (e.g., Distort, Blur, Sharpen, Edge, Artistic, Noise, Render, etc.).



The Filter Gallery offers the following key features:

- Application of individual or multiple filter effects simultaneously.
- Preview window with zoom and pan support.
- Optional **Before** and **After** views arranged as tiles or splitscreen, both horizontally and vertically.
- Apply filters permanently to a standard layer or on a Filter Layer (see p. 48). The latter allows you to protect your image layer, as well as manage your filters at a later date.

To view the Filter Gallery:

Click Filter Gallery on the Photo Studio toolbar.

For some effects hosted on the **Effects** menu, the Filter Gallery will automatically be launched with the effect already applied.

To add a filter in the Filter Gallery:

 Expand your chosen effect category by clicking the
 Expand button (click □ to collapse).



2. Click on an effect thumbnail to apply it to your image.



The applied filter is shown in a **Filters** stack in the lower-right corner of the Filter Gallery. The properties of any selected effect will be displayed in the expanded area under the effect name—you can alter and experiment with these at any time. The filter shows on a light background to indicate selection. Use the **Undo** button to undo recent changes to the filter (or the **Redo** button to re-apply the changes).

3. Adjust sliders (or enter input values) until your filter suits your requirements.

With the **Replace selected** option checked (default), adding a new filter will replace any selected filter in your filter stack.

To add multiple filters:

• Uncheck **Replace selected**, then add one or more additional effects as described above.

Any filter can be temporarily disabled, reset, or deleted once applied.

To disable: Click	, then click	to enable again.
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To reset: Click **S**. Any changes to settings are reverted back to the filter's defaults.

To delete: Click Click The filter is removed from the stack.

The effect's properties are expanded by default but can be collapsed to make more of the Filters stack visible.

To collapse/expand filter properties:

 To collapse, click the [™] button preceding the filter effect name. To expand again, click the [™] button.

To replace a filter:

- Ensure **Replace selected** is checked.
- Select the filter you wish to replace by clicking anywhere in the filter's pane. On selection, the selected filter shows a darker background, e.g, Glass.

Filters
▽ 🗐 Glass
Refraction: 🗸
Smoothness:
Invert:
🖓 🔳 Gaussian
Radius: 🗇
🗸 🔳 Ripple Distort

• Select a replacement filter from an effect category. Your selected filter is replaced in the stack with no change made to the existing stack order.

Filters can be moved around the filter list to change the order in which they are applied to the photo.

To reorder filters:

• Drag and drop your filter into any position in the stack. A dotted line indicates the new position in which the entry will be placed on mouse release.

Applying 2D layer effects

Layer effects can be applied to the contents of standard layers, text layers, or shape layers. Standard or "2D" layer effects like shadow, glow, bevel, and emboss are particularly well adapted to text, while 3D layer effects (p. 58) create the impression of a textured surface.

Unlike image adjustments and **Effects** menu manipulations, layer effects don't directly change image pixels—they work like mathematical "lenses" that transform how a layer's bitmap appears. Since the settings are

independent, you can adjust them ad infinitum until you get the result you want!



To apply a 2D effect:

- 1. From the Layers tab, select a layer and click Add Layer Effects..
- 2. In the dialog, apply an effect by checking its check box in the list at left. You can apply multiple effects to the layer.



3. To adjust the properties of a specific effect, select its name and adjust the dialog controls. Adjust the sliders, drop-down list, or

enter specific values to vary each effect. Options differ from one effect to another.

4. Click **OK** to apply the effect or **Cancel** to abandon changes.

Applying 3D layer effects

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scale: -			0	_	100

3D layer effects are just as easy to apply, but they're a bit more complex than their 2D cousins (see p. 56). Actually, there's an easy way to get started with them: simply display the **Layer Effects tab**, then select a gallery thumbnail.

If hidden, make this tab visible via Window>Studio Tabs.

To apply a layer effect to the active layer:

- From the Layer Effects tab, select a category, then click a gallery thumbnail.
- To make the effect smaller or larger, drag the Scale slider.

If you want to have complete flexibility when creating 3D effects, you can click **Add Layer Effects** on the Layers tab. The dialog is shared for both 2D and 3D effects—simply check the 3D Effects box and enable other 3D check boxes as appropriate.

For more information about creating 3D filter effects, see PhotoPlus Help.

Using Warp Studio

The **Warp Studio** is an exciting feature in PhotoPlus that lets you move your image's pixels around using a variety of brush-based tools. You can deform the image's pixels in equally subtle and dramatic ways, as if your image had a liquid surface.



The tools are also supported by a masking feature, which paints protected regions that act as a barrier against warping effects. You can even include already selected regions, layer masks, and layer transparency in Warp Studio. For more subtle warps, a mesh grid can be applied over your image to easily indicate areas of change.

For both features, see PhotoPlus Help for more information.

Warp tool overview

The vertical toolbar on the left of the Warp Studio offers all your warping tools.





The **Elastic Warp Tool** shifts pixels in the direction of brush motion, hence the appearance of pulling or elasticity.





The **Pinch** and **Punch Tools** apply, respectively, a concave or convex spherical distortion under the brush.





The **O O Twirl Tools** produce a "spin art" effect liquid paint on a surface revolving either clockwise or anti-clockwise.





Creating warp effects

To launch Warp Studio:

- 1. Select an image to be warped.
- Select Warp Studio from the Photo Studio toolbar. Warp Studio is launched.

Manipulating Images



Making a selection



In any photo editing program, the selection tools and techniques are as significant as any of the basic brush tools or commands. The basic principle is simple: quite often you'll want to perform an operation on just a portion of the image. To do this you must define an active selection area.

The wide range of selection options in PhotoPlus lets you:

- Define just about any selection shape, using various drawing and painting techniques.
- Modify the extent or properties of the selection
- Carry out various manipulations on the selected pixels, including cut, copy, paste, rotate, adjust colours, apply special effects, etc.

Selection basics

Although the techniques for using the various selection methods differ, the end result is always the same: a portion of the active layer has been "roped off" from the rest of the image. The boundary is visible as a broken line or **marquee** around the selected region (see above).

Whenever there's a selection, certain tools and commands operate **only** on the pixels inside the selection—as opposed to a condition where nothing is selected, in which case those functions generally affect the entire active layer.

To cancel the selection (select nothing):

• From the **Select** menu, click **Deselect** (or press **Ctrl+D**)

Selection tool options

PhotoPlus offers a very wide range of other selection methods, and a variety of commands for modifying the extent or properties of the selected pixels—all available from the Tools toolbar. Note that the selection tools work on Background and standard layers, but not on text layers or shape layers.

Selection Rectangle Selection Tool—drag out a Tools flyout rectangular selection area of your chosen size (use the **Ctrl** key to constrain to a square area). Ellipse Selection Tool—drag out an ellipse selection area (use Ctrl key to constrain to a circle). QuickShape Selection Tools flyout provides different variable shapes, including pie, star, arrow, heart, spiral, wave, and so on. The shapes can be further "morphed" into other custom QuickShapes by dragging node handles around the QuickShape. Freehand Selection Tool—lets you draw a Tools flyout freehand (irregular) line which is closed automatically to create an irregularly shaped selection area.

Polygon Selection Tool—lets you draw a series of straight-line segments (double-click to close the polygon).

Magnetic Selection Tool—lets you trace around an object edge creating a selection line that snaps to the edge as you drag.

Magic Wand Tool—lets you select a region based on the colour similarity of adjacent pixels—simply click a starting pixel, setting a Tolerance from the context toolbar. It works much like the fill tool, but the result is a selected region rather than a region flooded with a colour. (For a dialog-based selection method, use the Colour Range command as detailed below.)

Smart Selection Brush—lets you create your selection as a series of brush strokes.

Paint to Select mode—lets you use standard painting or editing tools as selection tools.

Text Selection Tool—lets you create a selection in the form of text. Click with the tool to display the Text cursor. Type your text, format as needed, and click **OK**. (See Creating and editing text on p. 95.)

Directly from toolbar

From the **Select** menu



For any selection tool, the Context toolbar includes combination buttons (**New**, **Add**, **Subtract**, and **Intersect**) that determine the effect of each new selection operation.

Changing image and canvas size

You probably know that image dimensions are given in **pixels** ("dots of paint" that comprise a screen image). In PhotoPlus there are options to change the **image size** and to change the **canvas size**, but what's the difference and how do you perform each resize?

Changing image size

Changing the image size means scaling the whole image (or just a selected region) up or down. Resizing is actually a kind of distortion because the image content is being stretched or squashed.



The Image Size dialog lets you specify a new size for the whole image, in terms of its screen dimensions and/or printed dimensions.

To resize the image for on-screen display:

1. From the **Image** menu, select **Image Size**.

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- 2. Select a preferred scale (either "pixels" or "percent") in the dropdown list.
- Select a Resampling method. As a rule, use Nearest Pixel for hardedge images, Bilinear Interpolation when shrinking photos, Bicubic Interpolation when enlarging photos, and Lanczos3 Window when best quality results are expected.
- 4. Enter new Width, Height or Resolution values.
- 5. Click OK.

To resize the image for print:

- 1. From the Image menu, select Image Size.
- 2. Uncheck Resize layers.
- 3. Enter new Width, Height or Resolution values.
- 4. Click OK.

Changing canvas size

Changing the canvas size just involves adding or taking away pixels around the edges of the image. It's like adding to the neutral border around a mounted photo, or taking a pair of scissors and cropping the photo to a smaller size. In either case, the remaining image pixels are undisturbed so there's no distortion.



You will change the canvas size when:

- you want to add a border to your image (without changing the size of the image itself).
- you crop an image.

To change canvas size:

- 1. From the Image menu, select Canvas Size.
- 2. Enter **New Width** and/or **New Height** values (the current values are also shown for comparison).
- 3. In the Anchor box, click to position the image thumbnail with respect to edges where pixels should be added or subtracted.



4. Click OK.

If you want to extend the canvas from all sides of the image, click the centre anchor point.

If the canvas size is increased, the new canvas area is filled (on the Background layer) with the current background colour and (on standard layers) with transparency.
Straightening photos

As an image adjustment, the **Straighten Tool** can be used to align a crooked image back to horizontal (e.g., restoring proper horizontal alignment in a scanned image that wasn't aligned correctly on the scanner). Use the tool to trace a new horizon against a line in the image—the image automatically orients itself to the drawn horizon.



Before (horizon line drawn by dragging)



After

You can straighten using one of two methods: As a separate tool used directly on your image (below) (destructive) or via the PhotoFix (non-destructive) studio environment (see p. 43).

To straighten (via Straighten Tool):

- On the Tools Toolbar, expand the Crop Tools flyout and click the Straighten Tool.
- 2. On the context toolbar, choose an option from the **Canvas** dropdown list. This lets you decide how your straightened image will be displayed:
 - **Crop** Crops and adjusts the straightened image so that it displays on the largest possible canvas size, without displaying any border.

- **Expand to Fit** Increases the canvas size to display the entire straightened image. The border area is filled with the current background colour.
- **Original Size** Displays the straightened image within the original canvas dimensions. The border area is filled with the current background colour.
- 3. (Optional) Uncheck **Rotate All Layers** to restrict the operation to the active layer only. Otherwise all layers are rotated.
- 4. Using the Straighten cursor, drag a horizon from one end of the image's line to the other (the length of the horizon is not important) then release. The image orients itself to the new line.

Cropping an image

Cropping is the electronic equivalent of taking a pair of scissors to a photograph, except of course with a pair of scissors there is no second chance! Cropping deletes all of the pixels outside the crop selection area, and then resizes the image canvas so that only the area inside the crop selection remains. Use it to focus on an area of interest—either for practical reasons or to improve photo composition.



Before



After (Rectangular Crop)

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PhotoPlus allows you to crop unconstrained, to a standard or custom print size or to fixed pixel dimensions.

Cropping with the Crop Tool affects all image layers. Everything outside the designated region is eliminated. If there's a marquee-based selection, it is ignored and deselected during cropping.

Unconstrained cropping

Unconstrained cropping gives you the flexibility to cut your photo to any rectangular (or square) size you wish. The crop area will display in green to indicate you are in unconstrained mode.

To crop unconstrained:

- From the Tools toolbar, from the Crop Tools flyout, select the Crop Tool.
- 2. Ensure the **Unconstrained** option is set in the Context toolbar's **Crop Dimensions** drop-down list.
- 3. Drag out a rectangle to create an unconstrained rectangle, then fine-tune the areas dimensions if needed by dragging the edges. Alternatively, you can adjust the dimensions using the settings on the Context toolbar.
- 4. (Optional) Reposition the crop area by dragging inside the crop area.
- 5. To crop to the designated size, double-click inside the crop area.

Constrained cropping

Constrained cropping allows you to control the size of your crop precisely. When resizing the crop area on the page, the width and height will change simultaneously to honour the settings you originally chose. The crop area will display in blue to indicate you are in constrained mode.

Cropping for print

One typical use for constrained cropping is in preparing your image for printing to an industry standard (or custom) size.

Cropping for print will ensure your resulting image will print at the exact size you have specified, regardless of the number of pixels and original resolution of the uncropped image.

To crop to a specific print size:

- From the Tools toolbar, from the Crop Tools flyout, select the Crop Tool.
- 2. For print sizes, choose a **pre-defined** print size (expressed in inches or centimetres) from the **Crop Dimensions** drop-down list in the Context toolbar.

- or -

If you need to set a **custom** size, on the Context toolbar:

- Select **inches** or **cm** from the **Units of measurement** drop-down list.
- Type values into the **Crop Width** and **Crop Height** input boxes.
- 3. (Optional) Click Swap to switch the height and width values.
- 4. Do one of the following:
 - Click once on the image to set the crop to the print size set above.

PhotoPlus will use the document's current resolution (dpi) to determine what portion of the image is included in the crop area.

• Drag out your crop area to create your constrained rectangle or square.

Once cropped, the resolution (dpi) of your document will update to honour the print size set above.

- 5. (Optional) Reposition the crop area by dragging inside the crop area.
- 6. To crop to the designated size, double-click inside the crop area.

Cropping to pixel dimensions

Constrained cropping is extremely useful when you are preparing your images to display on a website or electronic device. Unlike cropping for print, the most important thing to consider is the number of pixels in the resulting image.

PhotoPlus also provides a unique, constrained pixel crop which honours the original size, number of pixels, and resolution of your original image. This is known as the **Document** preset. Using this preset will **always** resample your image.

To crop to pixel dimensions:

- From the Tools toolbar, from the Crop Tools flyout, select the Crop Tool.
- 2. Choose **Document** or another **pre-defined** size (expressed in pixels) from the **Crop Dimensions** drop-down list in the Context toolbar.

- or -

If you need to set a **custom** size, on the Context toolbar:

- Select **pixels** from the **Units of measurement** dropdown list.
- Type values into the **Crop Width** and **Crop Height** input boxes.
- 3. Do one of the following:
 - Click once on the image to set the crop area at the pixel dimensions set in the steps above.
 - Drag out your crop area to create your constrained rectangle or square (if custom).

Once cropped, PhotoPlus will resample your image to ensure your document's resolution (dpi) is honoured while still giving you the pixel dimensions set in the steps above.

- 4. (Optional) Reposition the crop area by dragging inside the crop area.
- 5. To crop to the designated size, double-click inside the crop area.

Cropping to an aspect ratio

Instead of cropping to physical dimensions or set pixels, you can crop to a constrained aspect ratio. Select a **pre-defined** aspect ratio from the **Crop Dimensions** drop-down list in the Context toolbar. See PhotoPlus help for more information.

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Non-destructive and Destructive (or permanent) cropping

By default, the Crop Tool in PhotoPlus is "non-destructive", as the context toolbar's **Destructive** option is unchecked. This means that at any point, you can remove or adjust the original crop applied to a photo.

To undo a non-destructive crop:

• From the Image menu, click Reveal All.

Using rule of thirds



Use the **Thirds grid** check box on the Context toolbar for improving photo composition. A grid is superimposed on top of your photo when the check box is selected.

Moving and resizing the grid allows the main subject of your photo to be offset within the photo.

Position a main item of interest in the photo where any two lines intersect within the crop grid (four intersections are possible). This is known as the "rule of thirds" which will help you find the most balanced composition where your eyes are drawn to the main subject.

Double-click to crop the photo to the outer grid dimensions.

Cropping to a selection



You can also crop an image to any **selection area**, no matter what shape, as defined with one of the selection tools.

If the Rectangle or Ellipse Selection Tool is used, you can make your selection a **Fixed Size**, defined in pixels, from the tool's Context toolbar.

To crop the image to the selection:

- 1. Make your selection.
- 2. Choose Crop to Selection from the Image menu.

Trimming images

The Trim feature lets you remove unwanted transparent areas at the edge of your image. This clips your canvas to the outer border of your image, intelligently trimming all edges of your image simultaneously.





Before (image on layer showing unwanted transparent area)

After

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To trim an image:

• From the **Image** menu, select **Trim**.

Flipping and rotating

Flipping and rotating are standard manipulations that you can carry out on the whole image, the active layer, a path, or just on a selection. Flips are used to change the direction of a subject's gaze, fix composition, and so on, whereas rotation is an orientation tool for general purpose use.



Flip Horizontal



Rotate 15° anti-clockwise



Flip Vertical



Rotate 10° clockwise

To flip:

- 1. From the **Image** menu, select either **Flip Horizontally** or **Flip Vertically**.
- 2. Choose Image, Layer, Selection or Path from the submenu.

To rotate:

- 1. From the Image menu, select Rotate.
- From the flyout menu, select an option based on the object (Image, Layer, or Selection), rotation angle (90° or 180°), and the direction (Clockwise or Anti-clockwise) required.
- 3. You can also select **Custom**, to display a **Rotate** dialog, from which you can do all of the above but instead set your own custom angle, even down to fractional degrees.

Using Cutout Studio

Cutout Studio offers a powerful integrated solution for cutting out part of an image on an active Background or standard layer. In doing so, you can separate subjects of interest from their backgrounds, either by retaining the subject of interest (usually people, objects, etc.) or removing a simple uniform background (e.g., sky, studio backdrop).



A checkerboard pattern on the second image's background on preview is used to indicate areas to be discarded.

To launch Cutout Studio:

- 1. Select an image to be cut out.
- 2. Select **Cutout Studio** from the Photo Studio toolbar.

Selecting areas to keep or discard

A pair of brushes for keeping and discarding is used to "paint" areas on your active layer. The tools are called **Keep Brush** and **Discard Brush**, and are either used independently or, more typically, in combination with each other.

To select areas for keeping/discarding:

- In Cutout Studio, click either Keep Brush Tool or Discard Brush Tool from the left of the Studio workspace.
- 2. (Optional) Pick a Brush size suitable for the area to be worked on.



- 5. (Optional) Set a Grow tolerance value to automatically expand the selected area under the cursor (by detecting colours similar to those within the current selection). The greater the value the more the selected area will grow.
- 6. Using the circular cursor, click and drag across the area to be retained or discarded (depending on Keep or Discard Brush Tool selection).
- 7. Click **OK** to create your cutout.

Painting, Drawing and Text



Painting and brushes



The **Paintbrush Tool** and **Pencil Tool** on the Tools toolbar are the basic tools for painting and drawing freehand lines on the active layer. They work on Background and standard layers, but not on text layers or shape layers.

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The **Brush Tip tab** hosts a comprehensive collection of brush presets grouped into various categories. Note that each sample clearly shows the brush tip and stroke; the number indicates the brush diameter.

You can also create your own brush from within the tab.

If a more bespoke brush tip is required, you can also customize your own brush tip and save it in its own user-defined category. (See Creating your own brush tips in PhotoPlus Help for details.)

To use the Paintbrush or Pencil tool:

- 1. From the **Tools** toolbar's **Brush Tools** flyout, select the **Paintbrush Tool** or **Pencil Tool**.
- 2. Choose a brush tip preset on the **Brush Tip** tab. If you've picked a Basic brush, set a brush colour (i.e. the foreground colour) from the Colour tab before painting.

- 3. (Optional) Change the brush tip's attributes, if necessary, on the Context toolbar.
- 4. Drag the cursor on the active layer, holding the left mouse button down to paint in the foreground colour.

Brush options

The Brush Options dialog, accessible by double-clicking the brush sample on the context toolbar, lets you customize a brush or define properties for a new one. As you vary the settings, you can see the effect of each change in the preview window at the bottom of the dialog.

Available settings may vary, depending on the brush you've got selected.

Painting using pen tablets

Brush strokes can be applied directly to the page by using your mouse or, if available, a pen tablet; the latter method is ideally suited for applying pressure-sensitive strokes to your project. PhotoPlus supports pressure sensitivity, with tablet calibration and key assignment possible directly from within the program (via Pressure Studio).

Erasing

Sometimes the rubber end of the pencil can be just as important to an artist as the pointed one. The Eraser Tools flyout on the Tools toolbar provides ways of enhancing an image by "painting" with transparency rather than with colour.



Use the **Standard Eraser** for replacing colours in an image either with the background colour or with transparency (on Background or other standard layers, respectively).



Use the **Background Eraser** for erasing pixels similar to a sampled reference colour underlying the cursor crosshair—great for painting out unwanted background colours.



Use the **Flood Eraser** for filling a region with transparency, erasing pixels similar to the colour under the cursor when you first click.

In general, you can set tool properties for each tool including brush characteristics, opacity, tolerance, flow, and choose a brush tip. The Eraser tools work on Background and standard layers, but not on text layers or shape layers.

To erase with the Standard Eraser:

- Select Standard Eraser from the Tools toolbar's Eraser Tools flyout.
- 2. (Optional) Change attributes, especially brush **Size** and **Opacity**, on the Context toolbar.

For erasing with an airbrush effect or hard-edged brush, check the **Airbrush** or **Hard Edge** option.

For tablet users, pressure sensitivity can be switched on via Brush Options (click **Brush** thumbnail); ensure the **Controller** dropdown list is set to "Pressure" on selected attributes.

3. Drag with the tool on the active layer. On the Background layer, erased pixels expose the current background colour. On other layers, they expose transparency.

To erase with the Background Eraser:

- Select Sel
- 2. (Optional) Change properties on the Context toolbar:
 - For tablet users, pressure sensitivity can be switched on via Brush Options (click **Brush** thumbnail); ensure the **Controller** drop-down list is set to "Pressure" on selected attributes.
 - The **Tolerance** setting determines the breadth of the colour range to be erased.
 - You also have the option of protecting the current foreground colour from erasure (**Protect foreground**).
- 3. Drag with the tool on the active layer to erase pixels similar to a sampled reference colour directly under the brush tip.

If you use the tool on the Background layer, it's promoted to a standard layer.

To erase with the Flood Eraser:

- 1. Select **Flood Eraser** from the **Tools** toolbar's **Eraser Tools** flyout.
- 2. (Optional) Change properties on the Context toolbar.
- 3. Click (or click and drag) with the tool on the active layer to erase pixels close in colour (based on the Tolerance range) to the colour under the cursor when you first click. If you use the tool on the Background layer, it's promoted to a standard layer.

Erasing using pen tablets

For tablet users, PhotoPlus supports pressure sensitivity, with tablet calibration and key assignment possible directly from within the program (via Pressure Studio).

Filling a region

Filling regions or layers is an alternative to brushing on colours or patterns. Making a selection prior to applying a fill, and setting appropriate options, can spell the difference between a humdrum effect and a spectacular one.

The Fill Tools flyout on the Tools toolbar includes two tools for filling regions with colour and/or transparency: Flood Fill and Gradient Fill. In addition, you can use the Edit>Fill command to apply either a colour or pattern fill. As with paint tools, if there is a selection, the Fill tools only affect pixels within the selected region. If you're operating on a shape or text layer, the Gradient Fill tool can be used to adjust the interior of the object(s) on the layer.

Flood and pattern fills

The Flood Fill Tool works on Background and standard layers, replacing an existing colour region with the foreground colour.

To use the Flood Fill Tool:

- 1. Select the **Flood Fill Tool** from the **Tools** toolbar's **Fill Tools** flyout.
- 2. Set tolerance and layer fill options on the context toolbar.
- 3. Click with the tool where you want to start the fill.

The **Edit>Fill** command lets you flood-fill a region on a standard layer using any colour, not just the foreground colour.

Fill	
Type: Colour 🗸	ОК
Foreground	Cancel
Background	
O Custom:	
Blend Options	
Mode: Normal 🔻	
Opacity: 100 🚔 %	
Preserve Transparency	

To use the Fill command:

- From the Edit menu, select Fill. The Fill dialog appears.
- For a flood fill, set the **Type** to Colour.
- Choose whether the fill colour is to be the current **Foreground** colour, **Background** colour or a **Custom** colour.

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- Specify the blend mode and opacity of the fill.
 If you check **Preserve Transparency**, transparent areas will resist the flood colour; otherwise, everything in the selection or layer will be equally washed with the fill.
- For a Pattern fill, set the **Type** to **Pattern** to fill a region with any pattern stored in the Patterns dialog. Click the pattern sample to bring up the gallery of pattern thumbnails.

Gradient Fill Tool

Whereas solid fills use a single colour, all gradient fills in PhotoPlus utilize at least two "key" colours, with a spread of hues in between each key colour, creating a "spectrum" effect. You can fine-tune the actual spread of colour between pairs of key colours. Likewise, a gradient fill in PhotoPlus can have either **solid transparency**—one level of opacity, e.g., 50% or 100%, across its entire range—or **variable transparency**, with at least two "key" opacity levels and a spread of values in between.

The **Gradient Fill Tool** lets you apply variable colour and/or transparency fills directly to a layer.



Applying a gradient fill on any kind of layer entails selecting one of the fill types, editing the fill colours and/or transparency in a Gradient dialog, then applying the fill.

To apply a gradient fill:

- 1. Select Gradient Fill Tool from the Tools toolbar's Fill Tools flyout.
- 2. Select a fill type from the context toolbar.

Radial	•
Linear	
Radial	
Conical	
Square	

3. To choose a preset or to edit the fill's colours and/or transparency values, click the colour sample on the context toolbar.

The Gradient dialog appears, where you can select a preset fill from the default or a pre-defined gallery (select a category e.g., Natural, Pastels, from the drop-down list).

4. Once you've defined the fill, click with the tool where you want to start the fill and drag to the point where you want it to end.

See PhotoPlus Help for details on how to edit gradient fills.

To change a text or shape layer's fill type, or edit its colour(s):

- Double-click the text/shape layer.
 or -
- Choose the **Gradient Fill Tool** and use the context toolbar.

Either option lets you choose a fill type, and/or click the colour (or gradient) sample to edit the fill.

Cloning a region

When retouching you can remove unwanted objects from an image by extending another area of the image over it. This is possible using the **Clone Tool** which acts like two magic brushes locked together. While you trace or "pick up" an image region with one brush, the other draws ("puts down") an exact duplicate somewhere else even in another image.

For corrective work, you can pick up wanted pixels and put them down over unwanted pixels.



A canal scene spoilt by power cables and pylons





The same scene with unwanted objects cloned out

The tool acts on the active Background or standard layer, and can even clone **all** layers (including Text layers or Shape layers).

To clone a region:

- 1. From the **Tools** toolbar's **Clone Tools** flyout, select the **Clone Tool**.
- 2. Change properties, if necessary, on the Context toolbar.
- 3. To define the pickup origin, Alt-click with the tool.
- 4. Click again where you want to start the copy, then click to paint the copy onto the new location. Repeat as needed. A crosshair marks the pickup point, which moves relative to your brush movements.

Drawing and editing lines and shapes

For drawing and editing lines and shapes, the **Tools** toolbar includes the following drawing tool flyouts:



The **QuickShape Tools** flyout featuring an assortment of tools for creating rectangles, ellipses, and other shapes.



The **Line Tools** flyout features straight lines, plus freehand pen and curved pen lines.

Overview

Each of the drawing tools has its own creation and editing rules, as detailed below:

- Unlike painted regions you create on raster (bitmap) layers, both QuickShapes and lines are vector objects that occupy shape layers, marked with an symbol on the Layers tab.
- A QuickShape or straight line can be drawn directly as a **shape layer**, **path** or as a filled **bitmap**. Buttons on the Context toolbar allow you to decide how your lines/shapes are to be drawn, i.e.
 - **Shape Layer**—create your QuickShape or line on a new shape layer or add to an existing shape layer.
 - Paths—add your shape or line directly as a path
rather than as a shape layer. See PhotoPlus Help.
 - **Fill Bitmaps**—creates a filled bitmap of the shape or straight line on any selected raster layer (e.g., the Background layer).

Creating additional shapes

Shape layers can store more than one shape, and it's up to you where additional shapes are created. The context toolbar displays a series of **combination buttons** which determine the layer on which the shape will be placed and the relationship the new shape will have on any existing shapes on the same layer.

New—adds the shape to a new shape layer.

Add—adds the shape to the currently selected layer.

Subtract—removes overlap region when a new shape is added over existing shapes on the currently selected layer. The new shape itself is not included.

Intersect—includes the intersection area only when a new shape is added onto existing selected shapes on the currently selected layer.

Exclude—excludes the intersection area when a new shape is added onto existing selected shapes on the currently selected layer.

You can also alter a shape layer's **Opacity** using the Layers tab.

Creating and editing QuickShapes

QuickShapes in PhotoPlus let you instantly add all kinds of pre-designed shapes to your image, then adjust and vary them using control handles for shape variations!



The **QuickShape Tools** flyout lets you choose from a wide variety of commonly used shapes, including boxes, ovals, arrows, polygons, stars, and more. Each shape has its own built-in "intelligent" properties, which you can use to customize the basic shape.

To create a QuickShape:

- 1. Click the **QuickShapes** flyout on the **Tools** Toolbar and select a shape from the flyout menu.
- 2. Ensure Shape Layers is selected on the context toolbar.
- 3. If you want to create the shape on its own layer, make sure the **New** button on the Context toolbar is selected. If you want to create multiple shapes on the same layer, select one of the other combination buttons on the Context toolbar to specify how the multiple shapes will interact (see p. 90).
- 4. For shapes on a new layer only, select a foreground colour on the Colour tab for the QuickShape. Multiple shapes on the layer will adopt the layer's current colour.
- 5. Drag out the shape on the image. It displays as an outline; hold down the **Ctrl** key while drawing to constrain the aspect ratio.

If you switch to the **Node Edit Tool**, you can adjust the shape. The number of displayed "edit" control handles varies according to the shape; for example, the rectangle has just one control, the polygon has two.

The Node Edit Tool is automatically selected once you draw a QuickShape, to allow you to customize it.



Using the middle Quick Pentagon shape as an example:

- Dragging the top control handle to the right will morph the shape to a hexagon, heptagon, octagon, and so on.
- Dragging the side control handle downwards will rotate the shape anti-clockwise.

To edit a QuickShape:

- 1. Click its layer name in the Layers tab to select it.
- 2. From the Node Tools flyout, use either:
 - The Node Edit Tool (Tools toolbar) to click on the shape and readjust any of the shape's handles.
 or -
 - The Shape Edit Tool to select, move, resize, and deform individual shapes.

(If you only have one shape on a layer, you can also use the **Move Tool** and **Deform Tool**.) To resize without constraint, you can drag any shape's handle; to constrain the shape's proportions, hold down the **Shift** key while dragging. To deform the shape, drag a node while the **Ctrl** key is pressed.

Creating and editing lines

Lines can be drawn by using dedicated tools from the **Tools** toolbar's Line Tools flyout.



The **Pen Tool** produces complex curves (and shapes) in a highly controlled way.



The **Freehand Pen Tool**, as its name implies, lets you draw freehand lines. PhotoPlus will compose the line with line segments and nodes (each new segment starting from another's end node), which is attached back to the start point to create a closed shape.



The **Line Tool** produces an anti-aliased straight line in PhotoPlus, which is just a very thin shape. The line can be of varying **Weight** (thickness).

Each tool's supporting context toolbar lets you create the line on a shape layer or as a path. The Line Tool can also be used to create a filled bitmap directly. Additionally, combination buttons let you add the line to its own layer (or path), and can also be used to control how the new line interacts with existing shapes on the layer.

To edit a line:

- 1. Click its layer name to select it for editing.
- To move, resize, scale, skew, or rotate the line, choose the Shape Edit Tool. This deform tool works by manipulation of the bounding box around the line—drag on a corner or edge.
- 3. To reshape the line, choose the **Node Edit Tool**. The line consists of **line segments** and **nodes** (points where the line segments meet). You can drag one or more individual nodes, or click and drag directly on a line segment.

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When you select a node, control handles for the adjacent line segments appear; each segment in the line has a control handle at either end. Any node can be one of several node types: **sharp**, **smooth**, or **symmetric**. Depending on node type, the node's control handles behave a bit differently; the node type determines the slope and curvature of each adjoining segment, and can be chosen from the context toolbar, i.e.



To edit a node:

- 1. Select it with the **Node Edit Tool**.
- 2. Drag its control handle(s) to fine-tune the curve.

To add a node, double-click on a line segment. To remove a selected node, press the **Delete** key.

🖣 Use the 🧹 Straighten Line button to make a line segment straight.

Creating and editing text



PhotoPlus makes use of two text tools, i.e.

- The **T** Text Tool, for entering solid text on a new layer. Use for eye-catching or subtle captioning (opposite) and titling equally.
- The **T** Text Selection Tool, for creating a selection in the shape of text (for filling with unusual fills).

To create new solid text:

- 1. **T** Click the **Text Tools** flyout on the **Tools** toolbar and choose the standard **Text Tool**.
- Click on your image with the text cursor to set where you want to insert text. Then set text attributes on the Text Context toolbar.
 - or -

Drag across the page to size your text according to requirements.

3. Type your text. The text appears on a new transparent Text Layer shown in the Layers tab. You can now use the Move Tool or other tools and commands to manipulate it, just like the contents of any layer.

To edit existing text:

- With the text layer to be edited as the active layer, choose the standard **Text Tool** and move the mouse pointer over the text until it changes to the (I-beam) cursor.
- 2. Click on or drag to select areas of text—this lets you insert or overwrite selected text, respectively. Equally, you can set new text attributes to be adopted by the selected text area—all made from the Text Context toolbar.

To change text's solid colour:

- 1. Select all or part of any text.
- 2. Click the colour swatch on the Context toolbar to display the Colour Selector dialog. (See Choosing colours on p. 100.)
- 3. Select your new colour and click **OK**.

To swap to a gradient colour:

This applies a gradient fill to all of your text on the layer and not to selected text.

- 1. On the Layers tab, right-click the Text layer and choose Edit Fill.
- 2. Change the **Fill Type** from **Solid** to one of Linear, Radial, Conical, or Square.
- 3. Click on the **Fill** gradient swatch and select a preset gradient fill or create your own gradient from the dialog.

To convert any text layer to a standard layer:

• Right-click on the layer name and choose **Rasterize** from the menu.

To create a text selection:

- 1. **T** Click the **Text Tools** flyout (**Tools** toolbar) and choose the **Text Selection Tool**.
- 2. Click at the location on the image where you want to begin the selection.

- or -

Drag across the page to size your text selection. Release the mouse button to set the point size.

- 3. (Optional) On the Text context toolbar, set the selection text attributes to be adopted by the new selection.
- 4. Type your text directly onto the page.
- 5. When you're done, click the OK button on the Context toolbar. A selection marquee appears around the text's outline.
- 6. You can now cut, copy, move, modify, and of course fill the selection.

Colour and Greyscale



Choosing colours



Foreground and background colours

At any given time, PhotoPlus allows you to work with just two colours—a **foreground** colour and a **background** colour. These are always visible as two swatches on the Colour tab indicated opposite.

The foreground colour is set to green (RGB 63:173:73) and the background colour to black.

The Colour tab makes it possible to set the working colour model before colour selection: **RGB** (Red, Green, Blue); **CMYK** (Cyan, Magenta, Yellow, Black); **HSB** sliders (Hue, Saturation, Brightness); **HSL** sliders (Hue, Saturation, Lightness); **HSL Colour Wheel**; **HSL Colour Box**; **Greyscale**; or **Lab**.

To set the model:

Choose an option from the RGB
 drop-down list.

Defining colours

Now, a few things to remember about how these colours are used:

• When you draw a selection, shape, or use the paintbrush tools, you could apply the foreground colour.



 However, the black text in the design could be created after swapping foreground and background colours using the tab's
 button. Loading the foreground and background colour with two frequently used colours is a great way to boost productivity when painting and drawing.

To define foreground and background colour:

1. Select the Colour Pickup Tool on the Tools toolbar.

As you move the cursor around your photo, a swatch appears displaying the colour under the cursor.



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- (Optional) On the Context toolbar, set the Sample Size (pickup region) as a single "Point Sample", "3 x 3 Average" or "5 x 5 Average" area. The last two options let you sample an "averaged" colour over a square pixel region, ideal for sampling halftone images, i.e. when point sampling is not suitable.
- 3. Left-click with the tool anywhere on an image to "pick up" the colour at that point as the new foreground colour. Right-click to define a new background colour.

- or -

1. On the Colour tab, click and drag the mouse pointer (dropper cursor) around the **Colour Spectrum**. As you move the dropper cursor around the spectrum, the tab's active colour swatch updates to the colour at the cursor position.



2. Left-click in the spectrum to set a new foreground colour, and right-click to set a new background colour.

- or -

• On the Colour tab, use the slider(s) or enter numeric values in the boxes to define a specific colour. The selected swatch updates instantly.

Adding colour samplers

If you'd like to keep a handy reference of important colours used in your image, you can add samplers to those locations. The sampler is just a marker that reports the pixel's colour values beneath it.

As you add one or more samplers, their colour values will be displayed in the **Info tab** for easy referral. Samplers are numbered on the page and in the tab.



To create a new sampler:

- 1. Select the Colour Pickup Tool on the Tools toolbar.
- 2. At your desired location, **Shift**-click on the page to add the sampler (numbered 1, 2, 3, etc).

The new sampler's colour values will be displayed in the Info tab.

To move a sampler:

• **Shift**-click on the hovered over sampler and drag to a new position.

To delete a sampler:

• **Ctrl**-click on the hovered over sampler.
Colour modes

PhotoPlus operates in several colour modes to let you work in standard and higher levels of colour or tonal detail—these are 8 Bits/Channel RGB (or 8 Bits/Channel Greyscale), the more detailed 16 Bits/Channel RGB (or 16 Bits/Channel Greyscale), and Lab 8 Bits/Channel or 16 Bits/Channel mode for professional yet natural edits.

As a rule of thumb, use RGB 8 Bits/Channel for general editing, then consider RGB 16 Bits/Channel or Lab mode for deep colour or professional edits.

If you already have 16-bit images, you'll probably want to benefit from that deep colour or tonal information throughout your project, from opening, through editing, to saving your high quality images.

	Choose	Then select
When creating a new image	New Image (Startup Assistant) or File>New	Colour Mode: RGB, Lab or Greyscale Bit Depth: 8 or 16 bits per channel
At any time	Image>Colour Mode	RGB 8 Bits/Channel RGB 16 Bits/Channel Lab 8 Bits/Channel Lab 16 Bits/Channel Greyscale 8 Bits/Channel Greyscale 16 Bits/Channel
Importing raw images	from the Bit Depth drop-down list (Output Format)	8 Bits/Channel 16 Bits/Channel
When outputting HDR Merge results	File>HDR Merge.	Output 16-bits per channel

PhotoPlus also lets you manually choose modes:

If you don't need to work at the highest level of colour or detail (Lab or RGB 16 Bits/channel), you can use RGB 8-bit mode, which results in smaller file sizes and allows you to use PhotoPlus's full range of special filter effects.

To switch from Lab or RGB 16 Bits/Channel to RGB 8 Bits/Channel working:

• From the **Image** menu, select **Colour Mode**, and select an 8 Bits/Channel option from the submenu.

To check which mode is currently set, the Title bar shows the mode after the file name, zoom, and image size.

Printing and Exporting



Printing

For basic printing primarily to desktop printers, **Print Studio** offers an exciting, comprehensive, and versatile printing solution for your photos.



A - Print Mode, B - Print Mode Options, C - Page Layout, D - Templates, E -Open Images

The easy-to-use studio environment lets you select from a variety of print templates, each designed for either single or multi-image printing. Multi-image printing in PhotoPlus lets you make the most of expensive photo-quality printing paper by "grouping" several images onto a single output sheet using a **print layout** or **contact sheet** template (shown above).

• Single Image templates

Use for basic desktop printing of an individual image, with supporting Layout options (custom or standard print sizes, positioning, tiling, and image-to-cell fitting).

• Print Layout templates

Use for multi-image standard print sizes (in portrait/landscape orientation), passport sizes, and mixed print sizes.

• Contact Sheet templates

Use for multi-image template-driven thumbnail prints—great for creating labels!

For any mode, you can also create your own custom template from an existing template.

Currently open documents will be used for printing, although you can add more directly within Print Studio.

To print (using templates):

- Click Print Studio on the Standard toolbar. The Print Studio appears.
- (Optional) To open additional images for printing, click Add Images. Select a photo for addition then click Open. The images are added as a thumbnail to the gallery.
- 3. From the right-hand templates list, select a template category, e.g. Single Images (Portrait).

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- 4. To insert a particular template into the central page layout region, simply click its gallery thumbnail.
- 5. Depending on print mode, decide on which image(s) are to be used for printing, i.e.
 - For **Single Image** templates, you can select a different image from the lower image gallery.
 - For **Print Layout** templates, right-click a gallery thumbnail and select **Fill Layout with Image**. All occupied or empty cells in your layout are filled with the selected image. Alternatively, to fill an individual cell, drag a replacement image from the lower image gallery onto the "target" cell..
 - For **Contact Sheet** templates, use the **Distribution** option in **Image Options** to control image replacement.
- 6. (Optional) From the left-hand pane, click the button to expand **Image Options** for sizing and rotating images (see below) in cells:
 - Enable **Fit image to cell** to make the image fit within the cell boundaries.
 - Enable **Fill cell with image** to scale the image to fit all of the cell.

- Check **Rotate for best fit** to make portrait images fit cells of landscape orientation (and vice versa) to make maximum use of cell space.
- (Optional) Check Border to add a border of a configurable width (use input box) and Colour (click the swatch to select colour from a dialog).
- 8. (Optional) To caption your images, check Label. Then, from the drop-down list, select either the Date, image Filename, or Sequence number to appear under each image. For a combination of label formats, click Modify, add tokens to assemble a sample name, then click OK and the drop-down list automatically changes to Custom.
- 9. Click **Print**, or click **Close** to save settings (without printing).

If you want to create your own layouts instead of templates you can switch print modes and customize settings for that mode.

To print using your own layouts:

- Click Print Studio on the Standard toolbar. The Print Studio appears.
- 2. From the **Mode** drop-down list, select Single Image, Print Layout, or Contact Sheet.
- 3. In the Layout section, set a custom or standard print size.
- 4. (Optional) Follow image sizing and rotating instructions described above.

Exporting to another file format

In many situations, you'll want to save a file to one of the standard graphics formats. In PhotoPlus, this is known as **exporting**.

Portable Network Graphics (PNG)
Windows Bitmap (BMP)
Graphic Interchange Format (GIF)
JPEG 2000 (J2K)
JPEG File (JPG)
JPEG-XR (JXR)
Portable Network Graphics (PNG)
Photoshop (PSD)
Tagged Image File Format (TIF)
Autotraced Metafile (WMF)

Exporting converts your image to a specified graphic file format (opposite) other than the native PhotoPlus (SPP) format. This flattens it, removing layer information.

Only SPP and Photoshop PSD formats preserves image information, such as multiple layers, masks, or image map data.



View and Zoom

The Export dialog consists of a right-hand preview display (single, dual, or quad) and a left-hand settings region. Dual and quad previews let you test and compare between different export formats in each pane—simply select a preview pane and then test various quality settings, change format-specific options or resize before going ahead with your optimized file's export!

Exporting images

To export an image:

- 1. From the **File** menu, select **Export**.
- 2. In the Export dialog, use the **Options** tab to specify the **Export Area**, resampling method, file **Format**, and format-specific options such as bit depth, dithering, palette, and compression.
- 3. Review your optimized image, and when you're happy with it, click **Export**.
- 4. From the Save As dialog, choose a folder and enter a file name. The export format and custom settings will be remembered for future exports. Click **Save**.

Printing and Exporting

Additional Information



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	community!

Additional Serif information

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Additional Information





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