



Picture Control Utility 2 Help

Ver2.3.0-1

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Basic Operations of Picture Control Utility 2

▶ [What You Can Do with Picture Control Utility 2](#)

This section provides a brief introduction to what you can do with Picture Control Utility 2.

▶ [Basic Operations of the Picture Control Utility 2 Windows](#)

This section provides an introduction to the basic windows and operations of Picture Control Utility 2.

What You Can Do with Picture Control Utility 2

With Picture Control Utility 2, which can be installed as a standalone application for easy operation, you can perform the actions described below.

- **Changing and managing custom Picture Controls**
Picture Controls adjusted using Picture Control Utility 2 can be saved as custom Picture Controls. Once saved as files, custom Picture Controls can be shared with other computers or people, or can be exported to memory cards and imported into computers. In addition, custom Picture Controls adjusted on cameras can also be imported into Picture Control Utility 2.
- **Managing Picture Controls**
Picture Controls enable you to create exactly the sort of RAW images (NEF, NRW) that you want. Picture Control Utility 2 enables you to manage the Picture Controls.

There are three types of picture controls:

Nikon Picture Controls

Nikon Picture Control is a set of preset Picture Controls providing optimal values of brightness, contrast, and hue, etc., for balanced results.

The eight types of Nikon Picture Controls described below are available.

- **Auto**
This Picture Control is based on [Standard], and it provides automatic adjustment of the hue and tone.
- **Standard**
Standard processing for a balanced effect.
- **Neutral**
Minimal processing for a natural effect.
- **Vivid**
Pictures are enhanced for a vivid photoprint effect.
- **Monochrome**
Convert pictures to monochrome.
- **Portrait**
Pictures are processed to enhance the color and texture of human skin. For the D3 series, D300 series and D700, this is an optional Picture Control.
- **Landscape**
Pictures are enhanced with a sense of depth that enlivens a wide variety of landscapes. For the D3 series, D300 series and D700, this is an optional Picture Control.
- **Flat**

This Picture Control retains a wide range of tones, from highlights to shadows.

Optional Picture Controls

The Picture Controls described below are available as optional Nikon Picture Controls.

- D2XMODE1

This optional Picture Control creates colors similar to those created using [Color mode] in [Mode I] of the Nikon D2X / D2XS digital camera. Natural portrait skin tone and rich gradation will be reproduced without the need for processing.

- D2XMODE2

This optional Picture Control creates colors similar to those created using [Color mode] in [Mode II] of the Nikon D2X / D2XS digital camera. Textures are rich in color, and suited for extensive processing and retouching.

- D2XMODE3

This optional Picture Control creates colors similar to those created using [Color mode] in [Mode III] of the Nikon D2X / D2XS digital camera. Suited for nature and landscape images. Green of trees and blue skies are reproduced vividly without the need for processing.

- Set [Brightness] to [-1] in Picture Control Utility 2 to create brightness similar to the Nikon D2X / D2XS digital camera.
- Using [D2XMODE1], [D2XMODE2] or [D2XMODE3] does not guarantee reproduction of colors identical to those created using [Mode I], [Mode II] or [Mode III] of the Nikon D2X / D2XS digital camera.

Custom Picture Controls

Picture Controls that are created based on a Nikon Picture Control or optional Picture Control. You can change the image processing settings of these ready-made Picture Controls to create your original Picture Control using Picture Control Utility 2 or cameras supporting the Picture Control system. Custom Picture Controls can be saved as setting files and shared among compatible cameras and software.

Notes

- Adjustment by Picture Controls may not be applied to the image if you open the image with applications that are not compatible with the Picture Control system.
- To import/export custom Picture Controls to/from a camera, the camera needs to be equipped with the custom Picture Control creation function.
- The following types of Nikon digital single-lens reflex camera are not compatible with the Picture Control system:
D2 Series, D1 Series, D200, D100, D80, D70 Series, D60, D50 and D40 Series
- COOLPIX Picture Control is not supported.

Notes on using optional Picture Controls

There are two types of optional Picture Controls: those for the software and those for the camera.

- **Software-related optional Picture Controls**

These optional Picture Controls are installed and ready to use when the software is installed.

- **Camera-related optional Picture Controls**

These optional Picture Controls can be downloaded for use via the Internet. They can be used with the camera models listed below.

- **D2XMODE1 / D2XMODE2 / D2XMODE3:**

- D3, D3X, D300, and D700

- **Portrait / Landscape:**

- D3 series, D300 series, and D700

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Basic Operations of the Picture Control Utility 2 Windows

▶ [Using Palettes](#)

In Picture Control Utility 2, open palettes to import and edit Picture Control files. You can also change the width of the palettes or separate them and move them around freely.

▶ [Using Preview Images](#)

The center of the Picture Control Utility 2 window is the preview image area. You can use the preview operation tools to change how preview images are displayed.

▶ [Quitting Picture Control Utility 2](#)

This section describes how to quit Picture Control Utility 2.

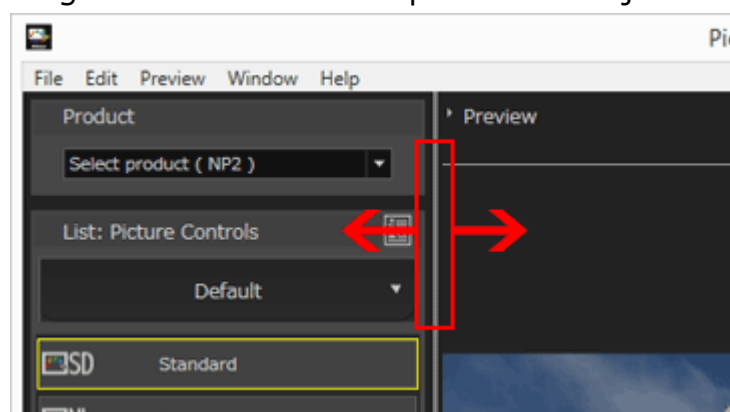
Using Palettes

In Picture Control Utility 2, display palettes to perform operations such as importing Picture Control files or adjusting images.

The palette on the left is the [Product]/[List: Picture Controls] palette, the one on the right is the [Adjustments]/[Custom Curve]/[Histogram] palette, and the one at the bottom is the [Share] palette.

Adjusting palette width

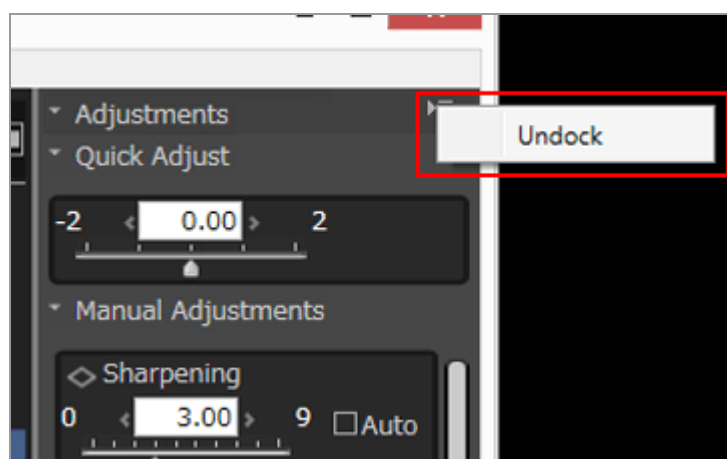
Drag the border between palettes to adjust the width of each palette.



Separating palettes


The [Adjustments], [Histogram], [Share], and [Custom Curve] palettes can each be displayed as a separate floating window.

1. Click the  button in the upper right of the palette to display the menu, and select [Undock].



The palette is separated from the main window.

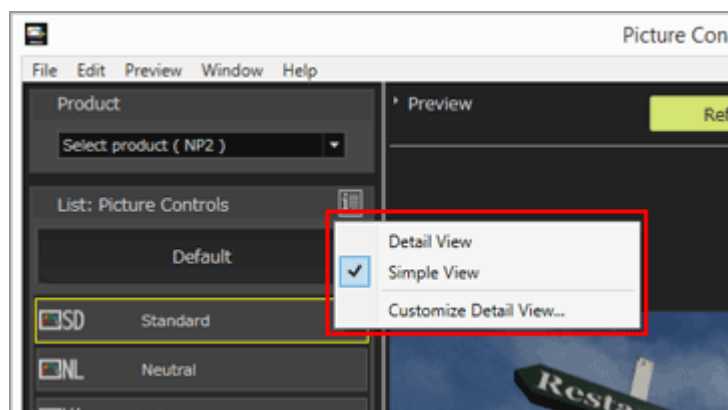
You can move the separated window to the desired position by dragging the title bar.

To dock the separated window in the main window again, click the  button in the right of the title bar to display the menu, and click [Dock].

Selecting the display style of the [List: Picture Controls] palette

The display items in [List: Picture Controls] can be changed.

1. Click  at the upper right to select the desired item.



The display items change.

You can select between [Detail View], [Simple View], and [Customize Detail View...].

If you select [Customize Detail View...], the [Preferences] window is displayed, allowing you to choose whether or not to display adjustment values or thumbnails. For details on [Preferences], refer to "[Preferences of Picture Control Utility 2](#)".

About the [Tutorial] dialog

The [Tutorial] dialog is displayed only when the Picture Control Utility 2 is launched for the first time.

To quit [Tutorial], click the [Close] button.

To display the [Tutorial] dialog again, select [Tutorial] in the [Window] menu.

Using Preview Images

[Applying adjustments](#)

[Displaying histograms](#)

[Changing display magnification](#)

[Displaying advanced functions for image preview](#)

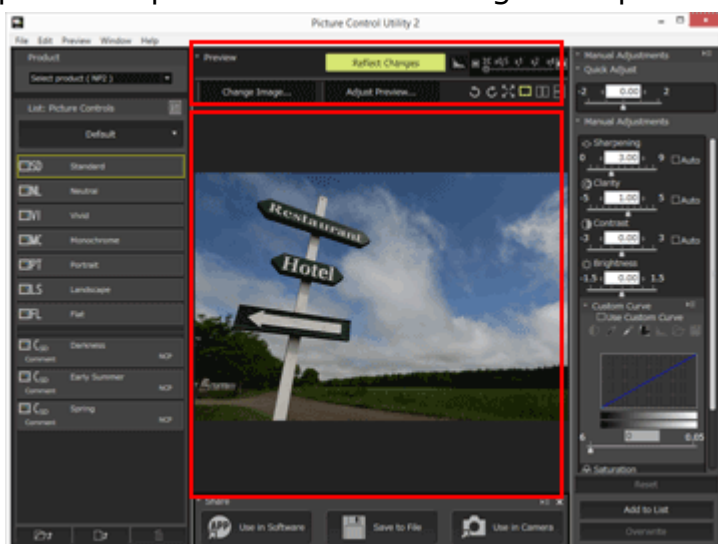
[Changing the preview image](#)

[Adjusting preview](#)

[Rotating](#)

[Changing the view mode](#)



The center of the Picture Control Utility 2 window is the preview image area. You can use the preview operation tools to change how preview images are displayed.



Applying adjustments

You can click [Reflect Changes] to choose whether or not the adjustments made to the Picture Control are applied to the preview image.

Displaying histograms

Click  to display the histogram of the displayed image. Click  in the upper right of Histogram to change the details that are displayed.

- RGB: Displays the histograms of all RGB channels.
- R/G/B: Displays the [Histogram] of the selected R/G/B channel only.
- Brightness: Displays the [Histogram] of the brightness distribution only.

About [Histogram]

"Histogram" is a curve chart showing the distribution of brightness in an image. The horizontal axis shows image brightness, and the vertical axis shows the number of pixels. For bright images, the peak of the curve is located toward the right side of the chart, and for dark images, the peak of the curve is located toward the left side of the chart. If the curve does not drop to the bottom before reaching the far right side of the chart, the image has lost highlights. If it does not drop to the bottom before reaching the far left side, the image has lost shadows.

Changing display magnification

Drag the slider horizontally to magnify/reduce the preview image.

Set the slider to  to display the full image in the preview image area.

Displaying advanced functions for image preview

Click [Preview] to display/hide advanced functions. By displaying advanced functions, you can change, adjust, and rotate the preview image, and change the view mode.

Changing the preview image

Click [Change Image...] to change the image used for preview. Select the desired image via the file selection dialog.

Only RAW images in NEF format captured on a Nikon digital single-lens reflex camera, advanced camera with interchangeable lens, or COOLPIX A can be used as preview images.

- RAW images are displayed with the currently selected Picture Control applied.
- The Active D-Lighting setting configured on the camera is not applied to the preview image. In addition, images edited using Capture NX-D or ViewNX-i are displayed in their original state without the editing applied.

Adjusting preview

Click [Adjust Preview...] to adjust the preview image quality. Use the [Adjust Preview] window to make adjustments.

For details, refer to "[Editing Preview Images](#)".



Adjustments made using the [Adjust Preview] window will not be applied to the custom Picture Control that you are creating.




Rotating

Click  /  to rotate the displayed image in the corresponding direction 90 degrees.

Changing the view mode

Change the view mode of the preview window.

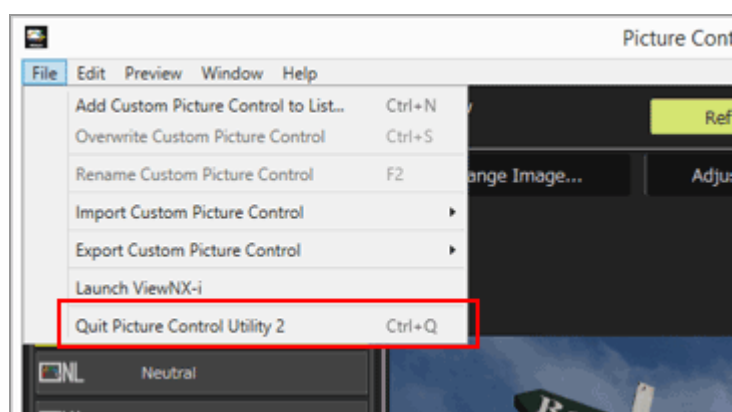
-  : Use the entire screen to display the enlarged preview image. To return to the original window, click the  button or press the Esc key.

-  /  : Vertically or horizontally align the adjusted preview image along with the image that uses the Picture Control selected in [Compare with] in the [Preview] menu.
-  : Return to single image display.

Quitting Picture Control Utility 2

You can quit Picture Control Utility 2. When you started Picture Control Utility 2 from another Nikon application, Picture Control Utility 2 does not end, even if the other application is closed.

1. Click **[Quit Picture Control Utility 2]** in the **[File]** menu (or the **[Picture Control Utility 2]** menu in Mac OS).



Picture Control Utility 2 ends. When Picture Control Utility 2 ends,  is removed from Taskbar in Windows.

Detailed Operations of Picture Control Utility 2

▶ **Creating/Editing Custom Picture Control**

This section describes the procedure for creating a custom Picture Control.

▶ **Importing Custom Picture Control**

Import custom Picture Controls created on compatible cameras or software into Picture Control Utility 2.

▶ **Exporting Custom Picture Control**

Export created custom Picture Controls to files. They can be used on compatible cameras or software.

▶ **Deleting Custom Picture Control**

Delete custom Picture Controls registered in Picture Control Utility 2.

▶ **Changing the Names and Comments of Custom Picture Controls**

Change the names and comments of custom Picture Controls registered in Picture Control Utility 2.

▶ **Menu List of Picture Control Utility 2**

This section lists the menu options available in Picture Control Utility 2.

Creating/Editing Custom Picture Control

You can create a new custom Picture Control. To create a new custom Picture Control, modify a Nikon Picture Control, optional Picture Control, or custom Picture Control.

[Selecting the product to use](#)

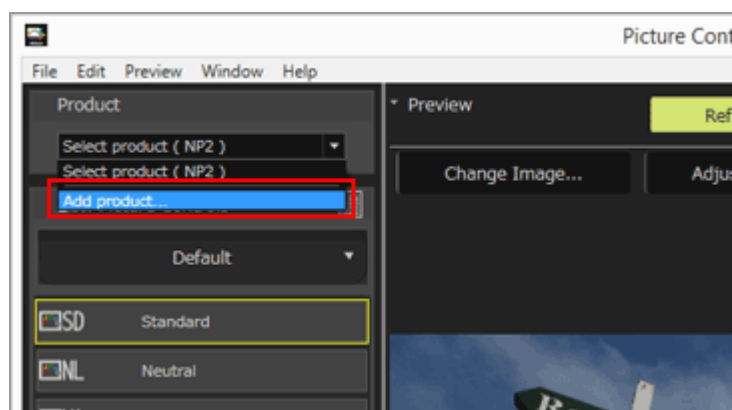
[Selecting the Picture Control](#)

[Adjusting](#)

[Saving](#)

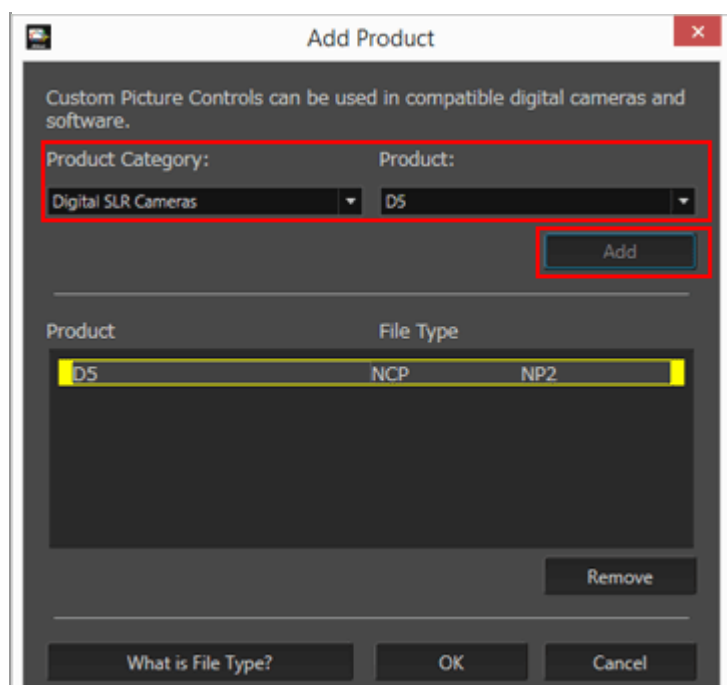
Selecting the product to use

1. Select [Add product...] in [Product].



The [Add Product] window is displayed.

2. Select the camera or application to use in [Product Category:] and [Product:], and click the [Add] button.



The product is added to the [Product] list.

3. Click [OK].

The [Add Product] window is closed.

4. Select the product to use from the [Product] list.

Types of Picture Controls

There are two types of Picture Controls: [NCP] and [NP2].

[NCP] is the Custom Picture Control file, which is introduced in D3 and D300.

The [NCP] features are as follows.

- [NCP] can be used on all the models that support Custom Picture Control.

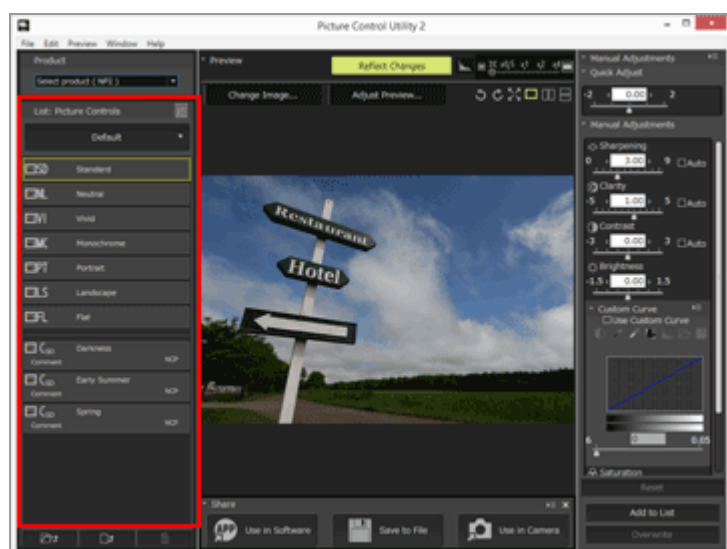
[NP2] is the Custom Picture Control file, the functions of which are reinforced from D810.

The [NP2] features are as follows.

- The [Flat] and [Auto] Picture Control settings are available. However, [Auto] can be selected only for camera models newer than the D7500.
- The [Clarity] item can be adjusted.
- Adjustments in units of 0.25 steps can be made, enabling you to make finer adjustments than ever.
- The range of options available for "brightness" has been widened to -1.5 to +1.5 from -1.0 to +1.0.

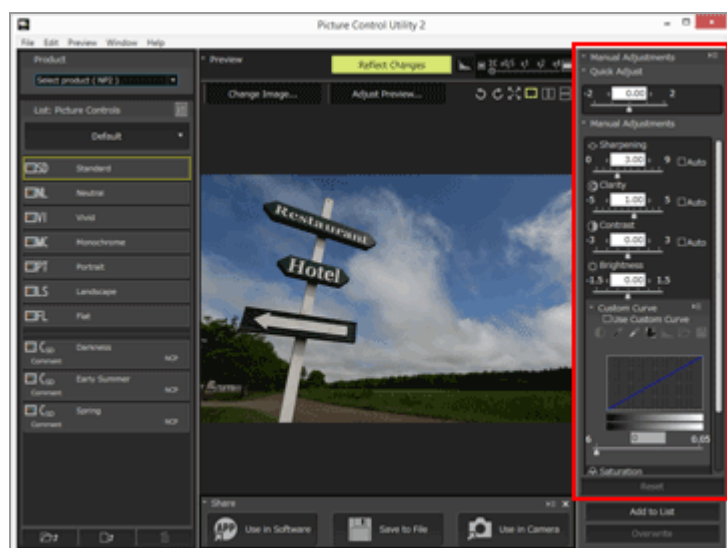
Selecting the Picture Control

1. In the [List: Picture Controls] list, select the Picture Control on which to base the new custom Picture Control.



Adjusting

1. Configure each item on the [Adjustments] palette.

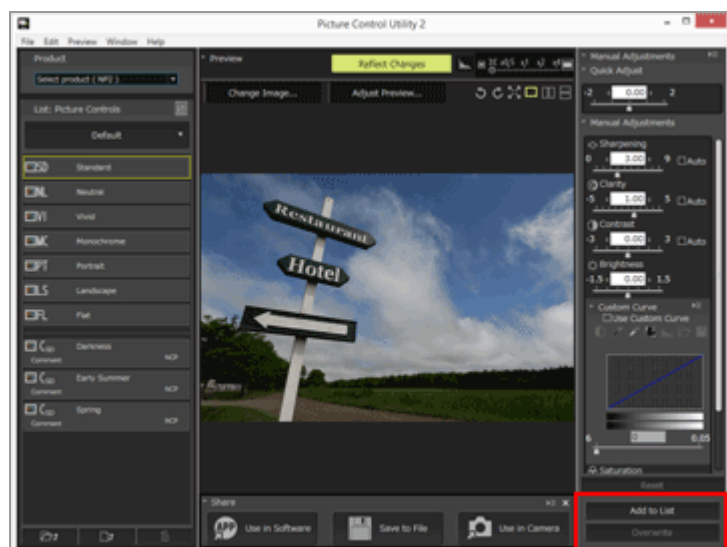


For settings for the items, refer to "[About Level Adjustment](#)".

If you turn on the [Reflect Changes] button in the preview operation tools, the settings will be applied instantly when you adjust them.

Saving

1. Click [Add to List] or [Overwrite].



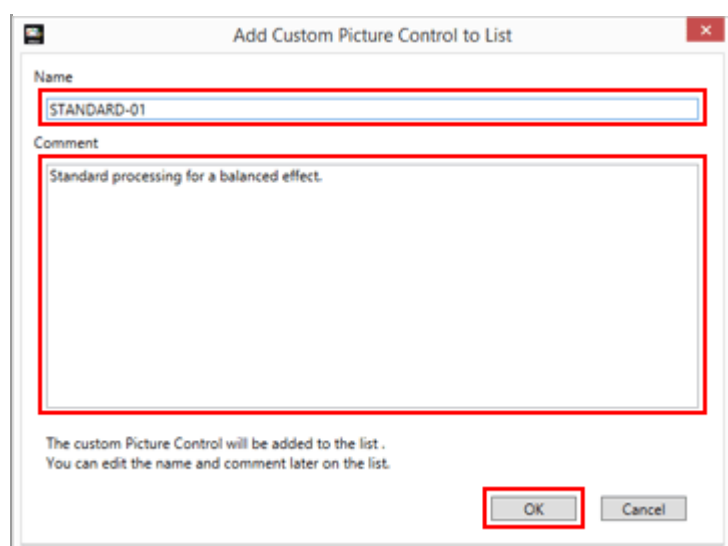
Use [Add to List] to save the newly configured settings to [List: Picture Controls] as a new custom Picture Control. Use [Overwrite] to overwrite the base custom Picture Control with the new settings.

Clicking [Add to List] will display the screen to name a new picture control. Follow to Step 2.

Clicking [Overwrite] will display the confirmation screen for overwriting. The selected custom picture control will be overwritten if you click [OK].

2. If you are creating a new custom Picture Control, enter a name and comment, and click [OK].

Custom Picture Control names can be up to 19 English one-byte characters and symbols.



The new custom Picture Control is created. It is added under optional Picture Controls on the [List: Picture Controls] palette, in the order it was created.

Available characters

Up to 256 single-byte or double-byte characters can be entered as a comment on a custom Picture control.

A string of up to 19 single-byte characters can be entered as a custom Picture Control name. The characters listed below are available.

Alphabet: A to Z (upper case or lower case)

Numbers: 0 to 9

Symbols: ! " # \$ % & ' () * + , - . / : ; < = > ? @ [¥] ^ _ ` { | } ~ single space

✓ Note

You cannot overwrite Nikon Picture Controls and optional Picture Controls. You can click [Overwrite] only when you have modified a custom Picture Control.

✓ [Flat] and [Auto] cannot be selected in [List: Picture Controls].

[Flat] and [Auto] cannot be selected when "(NCP)" is displayed at the end of the product name in [Product]. They can be selected only for products with "(NP2)" displayed at the end of the name.

[Auto] can be selected only for camera models newer than the D7500.

✓ Regarding [Auto]

- The range of adjustment is from -2 to +2.
- Adjustments are made in steps of 1.
- [Custom Curve] is not available.
- This item may not be available, depending on the camera used for shooting.

Regarding the models that support the Custom Picture Control file

NP2

- D810 and later D-SLR cameras only

NCP

- D3, D300, D610, D700, D90, D3X, D5300, D5000, D300S, D3S, D7100, D7000, D5200, D5100, D4, D800, D800E, D600, Df, D4S, D810 and later D-SLR cameras
- Nikon 1 series cameras, COOLPIX A

Regarding the software that can use Custom Picture Control

NP2

- Capture NX-D ver.1.0.0 or later, ViewNX 2 ver.2.10.0 or later, ViewNX-i ver.1.1.0 or later

NCP

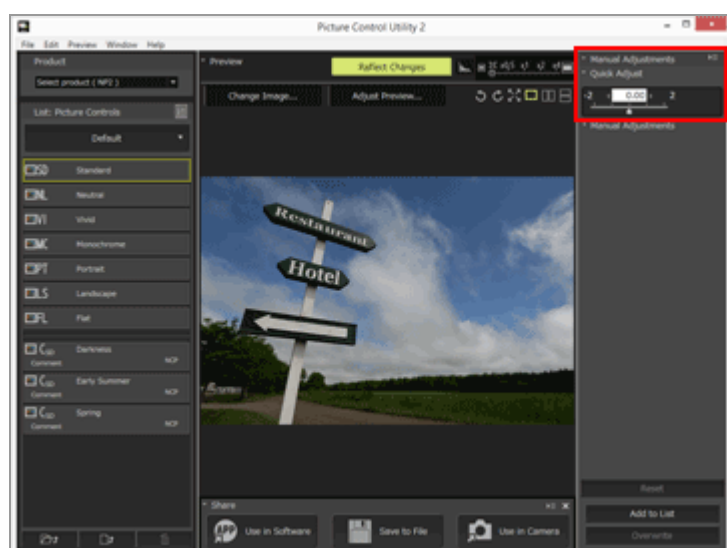
- Capture NX Series, ViewNX 2

About Level Adjustment

To create a new custom Picture Control, modify a Nikon Picture Control, optional Picture Control, or custom Picture Control.

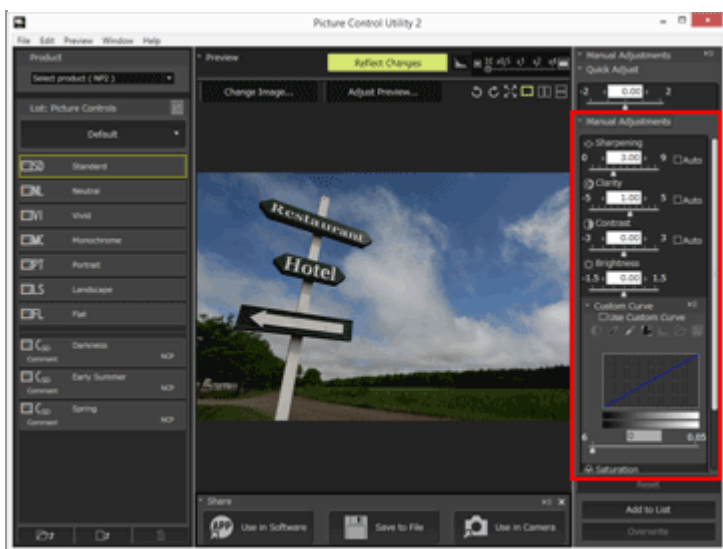
If you turn on the [Reflect Changes] button in the preview operation tools, the settings will be applied instantly when you adjust them.

1. Select one of Picture Controls listed in [List: Picture Controls] and drag the slider beside [Quick Adjust] horizontally.



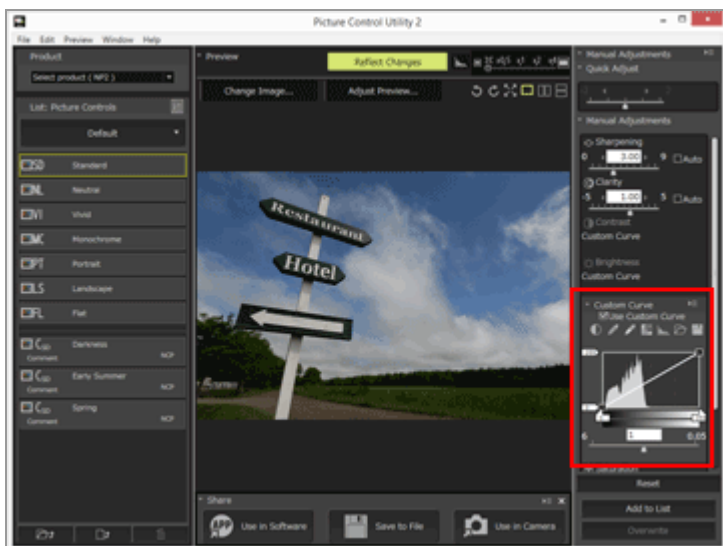
[Quick Adjust] adjusts contrast, brightness, saturation, hue, etc., for adequate and balanced values of an image.

2. To fine-tune the image after adjusting it using [Quick Adjust], select [Manual Adjustments] and drag the slider of each item horizontally.



Checking [Auto] sets the most suitable value automatically.

3. Use a tone curve to make a detailed adjustment of brightness or contrast.



The tone curve allows for adjustment of either or both input (original color of the image) and output (color of the image that is finally produced).

For settings for the items, refer to "[Settings for level adjustment](#)". For details on tone curve, refer to "[About Custom Curve](#)".

✓ Note

- When [Neutral], [Monochrome], [Flat], or a custom Picture Control is used as a base Picture Control, [Quick Adjust] cannot be selected. Use [Manual Adjustments] for adjustment.
- [Custom Curve] is not available when the base Picture Control is [Auto].

Settings for level adjustment

Quick Adjust

Use this item to adjust the level of each item automatically. Drag the slider horizontally to adjust them. You can also enter a numeric value in the input box.

Manual Adjustments

Adjust the level of each item manually.

[Sharpening]

Adjust the sharpening of the outline. If you drag the slider to the left, the image outline blurs, and if you drag it to the right, it is sharpened. You can enter a numeric value in the input box.

[Auto]

Automatically adjusts sharpening.

[Clarity]

Adjust the level of clarity. Drag the slider to the left to decrease the clarity, and drag it to the right to increase the clarity. You can also enter a numeric value in the input box.

[Auto]

Automatically adjusts clarity.

[Contrast]

Adjust contrast. Adjust it by dragging the slider horizontally. You can also enter a numeric value in the input box. This option cannot be selected when [Use Custom Curve] is selected.

[Auto]

Automatically adjusts contrast.

[Brightness]

Adjust brightness. Adjust it by dragging the slider horizontally. You can also enter a numeric value in the input box. This option cannot be selected when [Use Custom Curve] is selected.

[Use Custom Curve]

Manually adjust saturation and hue. [Contrast] and [Brightness] cannot be selected when this item is selected.

[Saturation]

Adjust saturation. Drag the slider horizontally to adjust it. You can also enter a numeric value in the input box. This item cannot be selected when [Monochrome] is used as the base Picture Control.

[Auto]

Automatically adjusts saturation.

[Hue]

Adjust hue. Drag the slider horizontally to adjust it. You can also enter a numeric value in the input box. This item cannot be selected when [Monochrome] is used as the base Picture Control.

[Filter Effects]

Enabled only when [Monochrome] is selected for the Nikon Picture Control. Click to select filter effect.

Items selectable for Filter Effect

- Off
- Yellow
- Orange
- Red
- Green

[Toning]

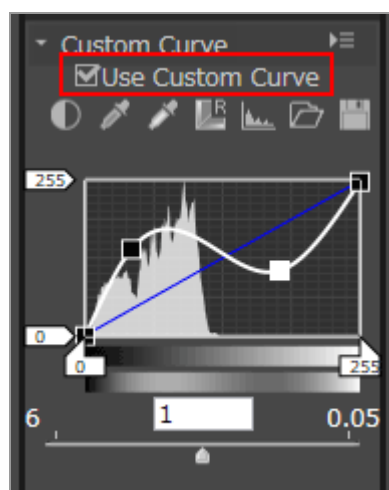
Enabled only when [Monochrome] is selected for the Nikon Picture Control. Click to select the tint, and drag the slider horizontally to adjust saturation. Saturation control is not available when [B&W] is selected. You can also enter a numeric value in the input box.

Items selectable for Toning

- B&W
- Sepia
- Cyanotype
- Red
- Yellow
- Green
- Blue Green
- Blue
- Purple Blue
- Red Purple

□ Custom Curve

When the [Use Custom Curve] is selected, adjust brightness and contrast using tone curve. For details of the custom curve, refer to "[About Custom Curve](#)".



(Tone Curve)

Adjust brightness and contrast by dragging an anchor point on the tone curve. Up to 20 anchor points can be added. To add an anchor point, drag the line to any point. To delete an anchor point, drag it outside [Custom Curve] or press the "Delete" key. For details on tone curves, refer to "[About Custom Curve](#)".

✓ Memo

If you edit the tone curve, the displayed histogram may have vertical lines. This is a phenomenon caused by quick display of the edited results. This kind of tone skipping phenomenon does not necessarily occur in the actual image.



Automatically adjusts contrast.



Changes the cursor to the dropper tool. If you click the black point of the image, you can adjust the tone.



Changes the cursor to the dropper tool. If you click the white point of the image, you can adjust the tone.



Resets the tone curve.



Displays the adjusted histogram. Another clicking displays the pre-adjustment histogram.



Loads an existing custom tone curve to Picture Control Utility 2. Files with the .ntc, .ncv, or .set extension can be loaded.



Saves the created custom tone curve to Picture Control Utility 2. The file is saved with the .ntc extension.

File extensions appended to custom tone curves

- .ntc: Custom tone curve created using Camera Control Pro 2 or Picture Control Utility 2
- .ncv: Custom tone curve created using Nikon Capture
- .set: Custom tone curve created using Capture NX or Capture NX 2

Settings related to saving and adding

[Reset]

When a Nikon Picture Control or optional Picture Control is selected, all adjusted items are returned to their original default values. When a custom Picture Control is selected, all items are reset to their previous values before adjustment.

[Add to List]

Registers the adjusted Picture Control with a new name. The registered Picture Control is added to the Picture Control list.

[Overwrite]

Overwrites the current Picture Control with the settings that you adjusted. This item cannot be selected when the Picture Control is created based on a Nikon Picture Control or optional Picture Control.

About Custom Curve

Outline of tone curve

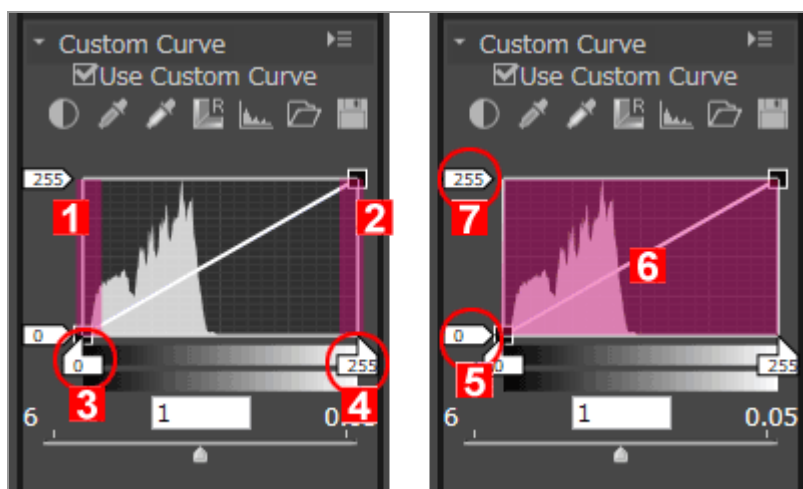
White and black points

Outline of tone curve

[Custom Curve] is a tone curve that shows the relationships between input (original image colors) and output (how the original image colors are reproduced in the final image). The default tone curve is set to a straight line. This means that the image is output with the original colors that were input.

The input image colors are placed on the horizontal axis. The shadow (dark part of an image) is reflected on the left; the highlight (bright part of an image) on the right; and the halftone in the center. On the horizontal axis, the leftmost end indicates the minimum value (0) and the rightmost end indicates the maximum value (255). The minimum value indicates the area of an input image that is completely black, and the maximum value indicates the area of an input image that is completely white.

The output image colors are placed on the vertical axis. The allowable minimum value (0) to be output is placed at the bottom, and the allowable maximum value (255) to be output at the top.



1. Shadow
2. Highlight
3. Input black point
4. Input white point
5. Output white point
6. Tone curve
7. Output black point

[Custom Curve] is represented by an input value between 0 and 255; however, it is actually obtained at 16-bit accuracy, resulting in 255 being processed as 65535. This enables you to sufficiently maintain the image quality of 12-bit RAW images.

White and black points

- ▶ **Input level**
- ▶ **Output level**
- ▶ **Tone curve**
- ▶ **Gamma correction**

The four corners of the tone curve are referred to as white and black points. The black point of an image indicates the darkest color tone (minimum value), and the white point indicates the brightest color tone (maximum value). The default black point for both the input and output values is set to 0. The darkest color tone value of the actual input image (original image) may be greater than 0. Changing the input value of a black point to the darkest color tone of the actual image will generate a steep inclination of a tone curve, resulting in enhanced contrast of the entire image without reducing the shadow accuracy. If the original image does not actually contain the color tone equivalent to the maximum value, reduce the white point value in order to adjust it to the brightest color tone of the actual image.

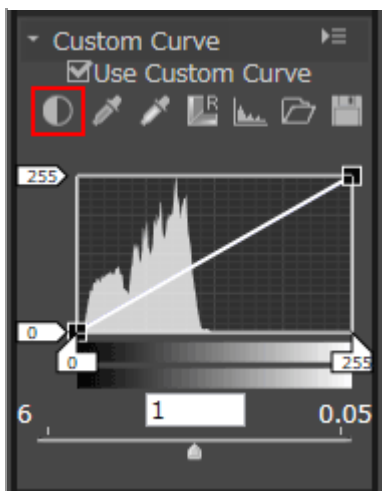
To obtain a desired effect, specify the white point and black point levels on the input (horizontal axis), and change those levels on the output (vertical axis) to fit the actual contrast between the brightest and darkest parts of the image. If the darkest color tone of the image is actually brighter than solid black, raise the output level of the black point to obtain a natural color tone.

Input level

The following methods are available for adjusting the input levels of the white and black points.

Automatic contrast adjustment

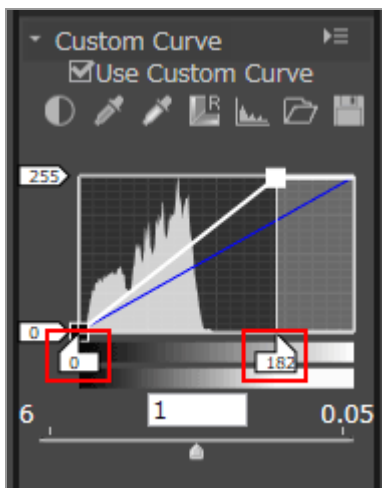
1. Click  .



The white and black points are specified automatically. The brightest part on an image is then set to white and the darkest part to black. Redistribute the tone, and adjust the contrast of the entire image.

Adjusting the white and black points with sliders

1. Drag the horizontal axis slider horizontally.



This slider is used to adjust the white and black points to a histogram.





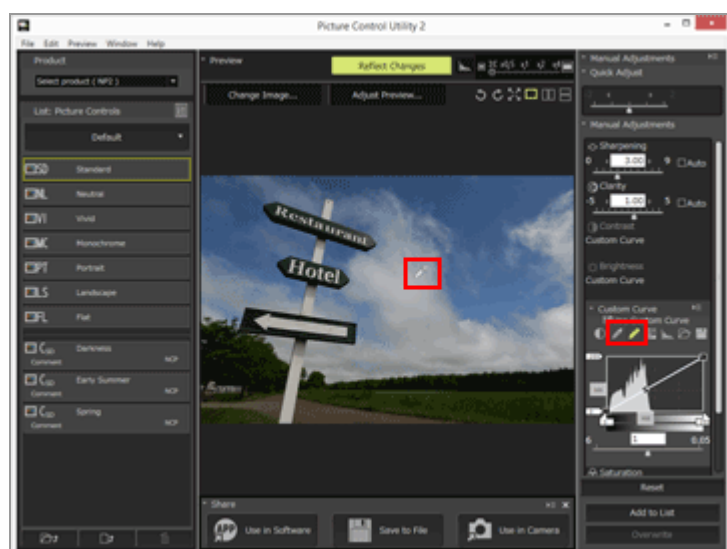


- Drag the white point input slider  and the black point input slider  horizontally.
- Setting the black point input slider  to the lowest input value shown in the histogram will result in the minimum output value that matches the tone of the darkest part of the image. This will generate a steep inclination of a tone curve, resulting in enhanced contrast without damaging the shadow details.
- In the same way, setting the white point input slider  to the highest input value shown in the histogram will result in the maximum output value that matches the tone of the brightest part of the image. This will enhance the contrast without damaging highlight details.



Image sampling with dropper tool

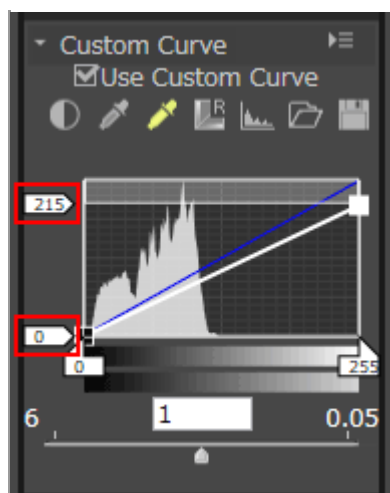
1. Click  to specify the white point of an image or click  to specify the black point of an image.



- To specify the white and black points, you can also use the actual image for sampling. This function is useful because it enables you to select the darkest part within the details of the image and to specify the value of the black point. This enables you to eliminate unnecessary details that are darker than the specified black point value in the final image. It also enables you to select the brightest part of important details in the final image and match it to the value of the white point.
- To specify a white point, click , check that the cursor has changed into the dropper tool, and click on the brightest part of the image.
- In the same way, to specify a black point, click , check that the cursor has changed into the dropper tool, and click on the darkest part of the image.

Output level

Drag the white point output slider  and black point output slider  vertically to specify the white point and black point output levels.



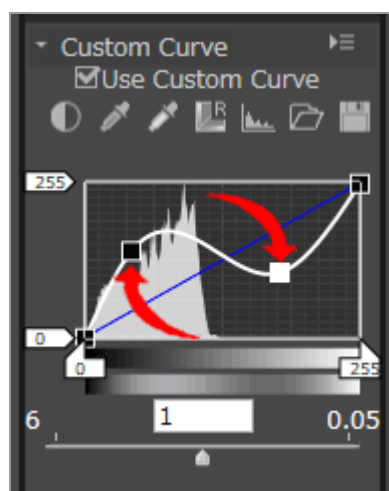
Tone curve

The tone curve shows the curve relationship between input (original image colors) and output (how the original image colors are reproduced in the final image). Editing the tone curve enables you to adjust the input and output values. The default tone curve is set to a straight line. This means that the image is output with the original colors that were input.

Reshaping the tone curve changes the relationships between the input and output, enabling you to finely adjust the brightness and contrast in a specific tonal range. For example, setting a steep inclination of the tone curve in a specific tonal range will increase the accuracy of the relevant part to be enhanced. Also, changing the tone curve to set the output value to be higher than the input value in a specific tonal range will result in a brighter tone. Also, changing the tone curve to set the input value to a lower output value will result in a darker tone.

Add a new anchor point

1. Drag any position of the line and add an anchor point.



Up to 20 anchor points can be added. The added anchor points can be moved again by dragging them.

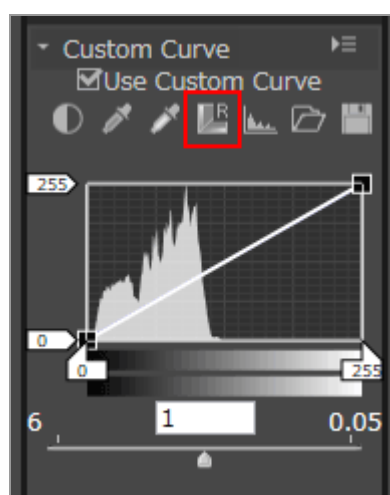
Delete an anchor point

1. Click the anchor point to delete, and drag it outside the tone curve.

You can also use the "Delete" key to delete an anchor point.

Reset a tone curve

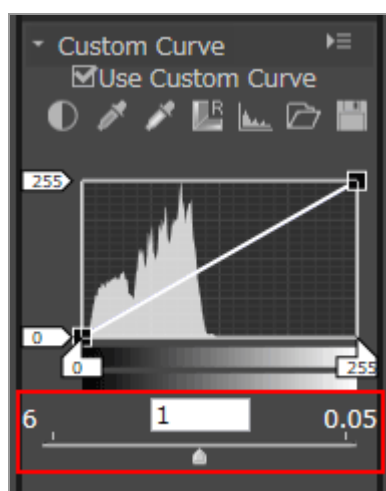
1. Click  .



The tone curve is reset and returns to the default straight line.

Gamma correction

Drag the slider horizontally to change the gamma value. Dragging it to the left makes the halftone of the image brighter and dragging to the right makes the halftone darker.



Editing Preview Images

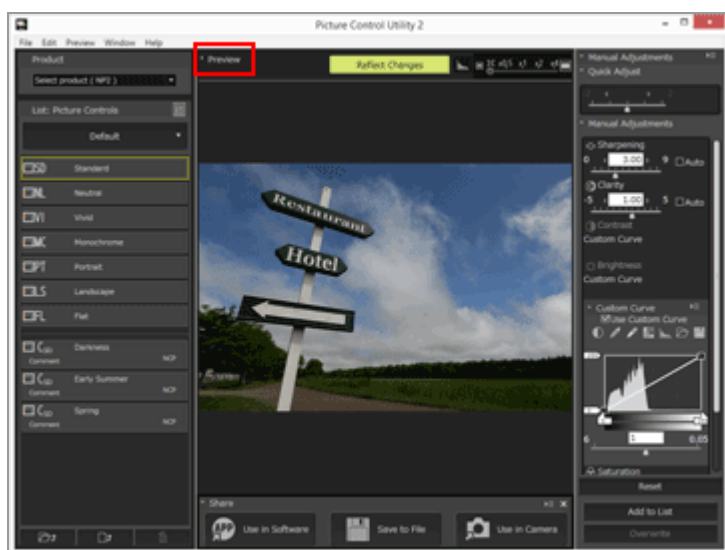
Adjusting exposure compensation

Adjusting white balance

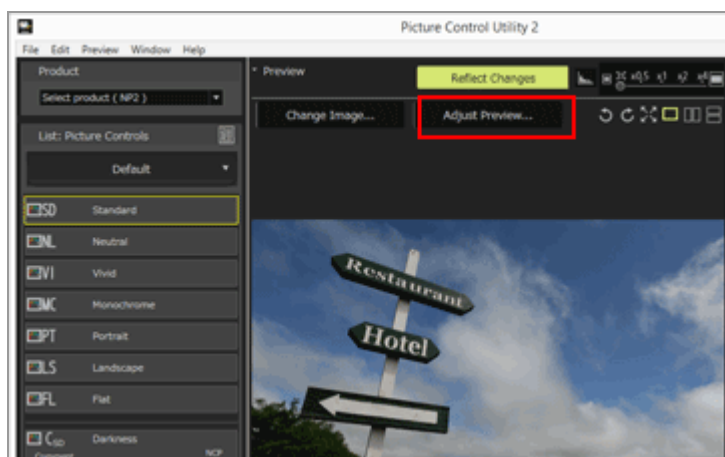
Adjusting Active D-Lighting

You can adjust the exposure, white balance, and Active D-Lighting setting on the preview image.

1. Click [Preview].



2. Click [Adjust Preview...].



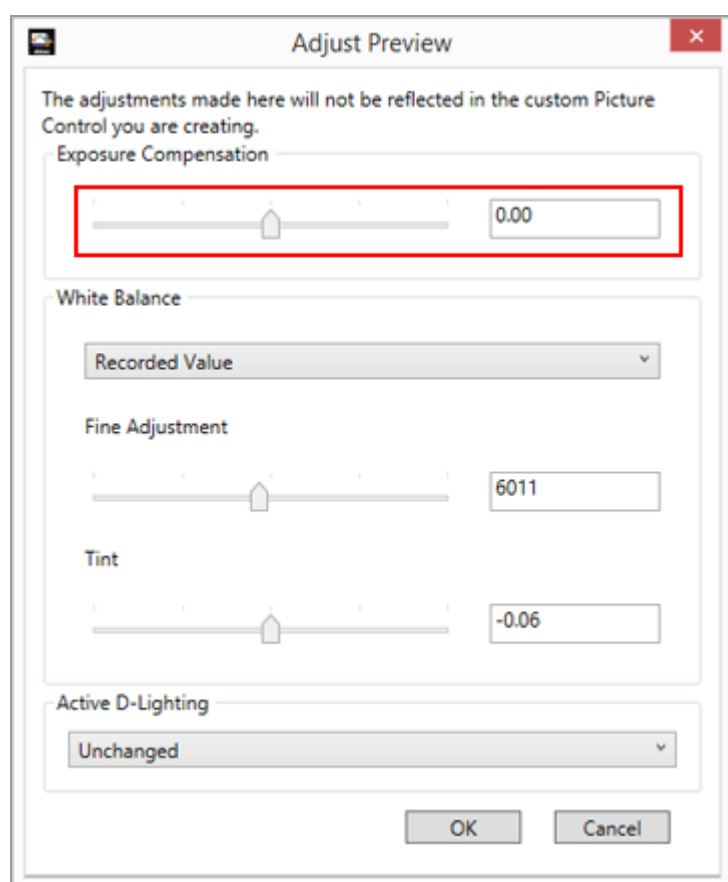
The [Adjust Preview] window is displayed.

Adjustments made using the [Adjust Preview] window will not be applied to the custom Picture Control that you are creating.

Adjusting exposure compensation

You can adjust the exposure compensation.

1. Drag the [Exposure Compensation] slider to specify the value.



The exposure of the image is adjusted.

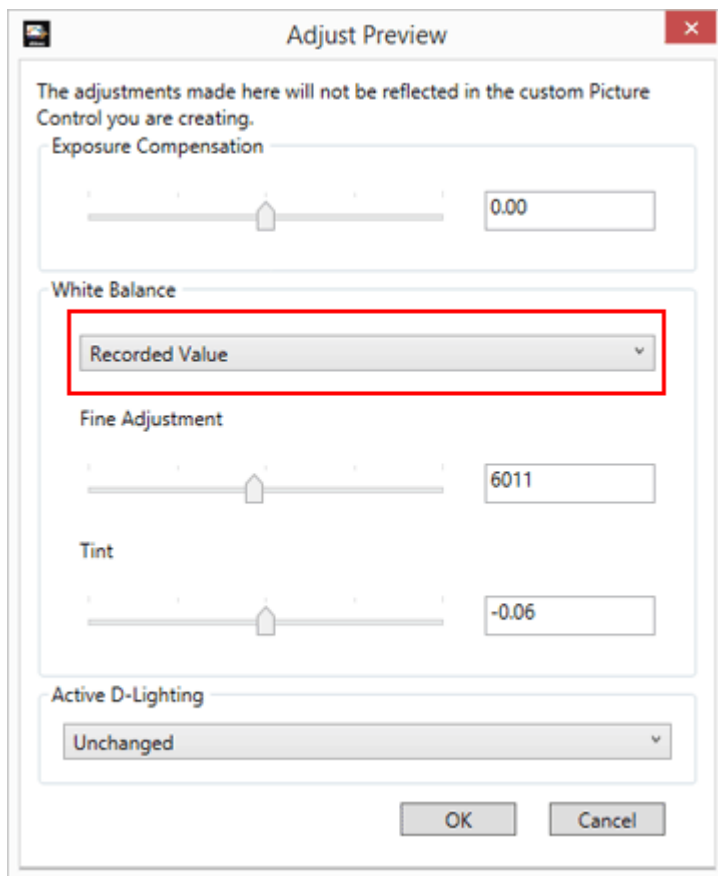
The allowable range of exposure compensation level is -5.0EV to +5.0EV, in 0.01EV steps.

You can also specify the value by entering a numeric value (down to the second decimal place) in the input box.

Adjusting white balance

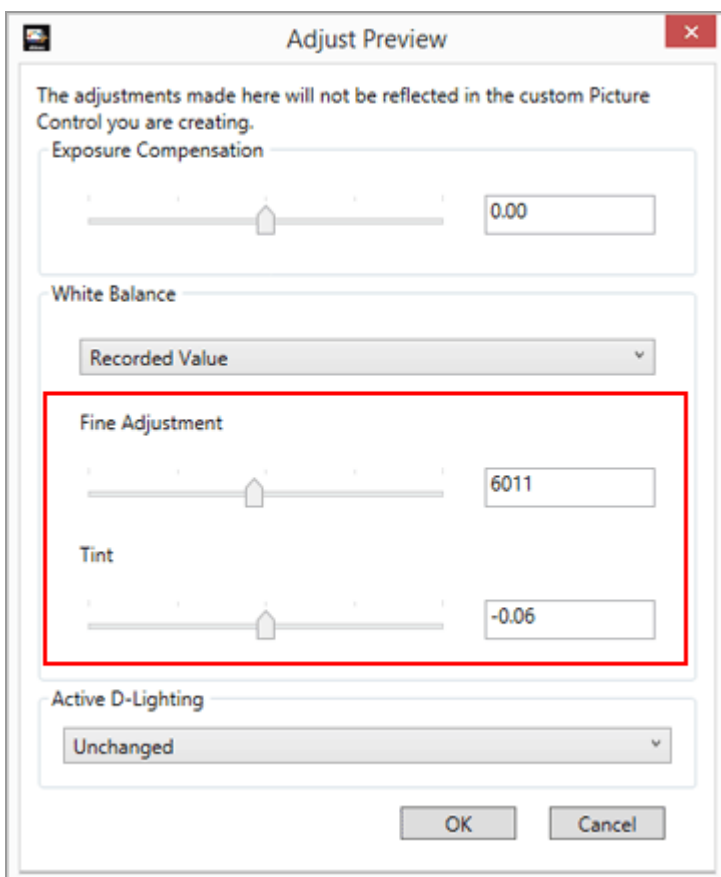
You can adjust the white balance of an image.

1. Click ▾ of [White Balance], and select the desired item.



The white balance is adjusted based on the selected item.

2. Drag the [Fine Adjustment] or [Tint] slider to specify the fine adjustment values.



White Balance is adjusted based on the specified values.

- Drag the [Fine Adjustment] slider to adjust the color temperature. The available values vary depending on the selected white balance.
- To adjust tint, drag the [Tint] slider. You can set a value from -12 to 12. Setting a positive value makes magenta lighter (green deeper), and setting a negative value makes green lighter (magenta deeper).
- You can also specify the value by entering a numeric value in the input box.

Items selectable for White Balance and values for Color Temperature

- **Recorded Value**

White balance is set to the value recorded.

- **Calculate Automatically**

White balance is adjusted automatically based on the RAW image with Picture Control Utility 2.

- When adjusting color temperature using [Fine Adjustment], the default value and the available range are automatically set.

- **Auto0**

Tone is automatically adjusted with an emphasis on white color expression.

This item may not be available, depending on the camera used for shooting.

- **Auto1**

Suited to most shooting situations.

This item may not be available, depending on the camera used for shooting.

- **Auto2**

Picture Control Utility 2 automatically adjusts the color tone to keep the warmth of the light bulb color, based on the RAW image taken under incandescent lighting.

This item may not be available, depending on the camera used for shooting.

- **Incandescent**

Suited to photos taken under incandescent lighting.

Color temperature: 3000K

Available color temperature range: 2610K - 3533K

- **Standard Fluorescent**

Suited to standard fluorescent lighting.

Color temperature: 4200K

Available color temperature range: 3472K - 5319K

- **High Color Rendering Fluorescent**

Suited to high color rendering fluorescent lighting.

Color temperature: 4200K

Available color temperature range: 3472K - 5319K

- **Direct sunlight**

Suited to images taken in direct sun light.

Color temperature: 5200K

Available color temperature range: 2500K - 7042K

- **Shade**

Suited to images taken in the shade on sunny days.

Color temperature: 8000K

Available color temperature range: 5714K - 9090K

- **Cloudy**

Suited to images taken under overcast skies.

Color temperature: 6000K

Available color temperature range: 4629K - 8620K

- **Flash**

Suited to images taken with Nikon Speedlights.

Color temperature: 5400K

Available color temperature range: 4255K - 7407K

- **FL-G1**

Suited to images taken using a Nikon Speedlight with a filter for fluorescent light (FL-G1, SZ-3FL) attached.

Color temperature: 5464K

Available color temperature range: 4301K - 7553K

- **FL-G2**

Suited to images taken using a Nikon Speedlight with a filter for fluorescent light (FL-G2) attached.

Color temperature: 5988K

Available color temperature range: 4610K - 8562K

- **TN-A1**

Suited to images taken using a Nikon Speedlight with a filter for incandescent/tungsten light (TN-A1, SZ-3TN) attached.

Color temperature: 2445K

Available color temperature range: 2180K - 2789K

- **TN-A2**

Suited to images taken using a Nikon Speedlight with a filter for incandescent/tungsten light (TN-A2) attached.

Color temperature: 5000K

Available color temperature range: 4000K - 6622K

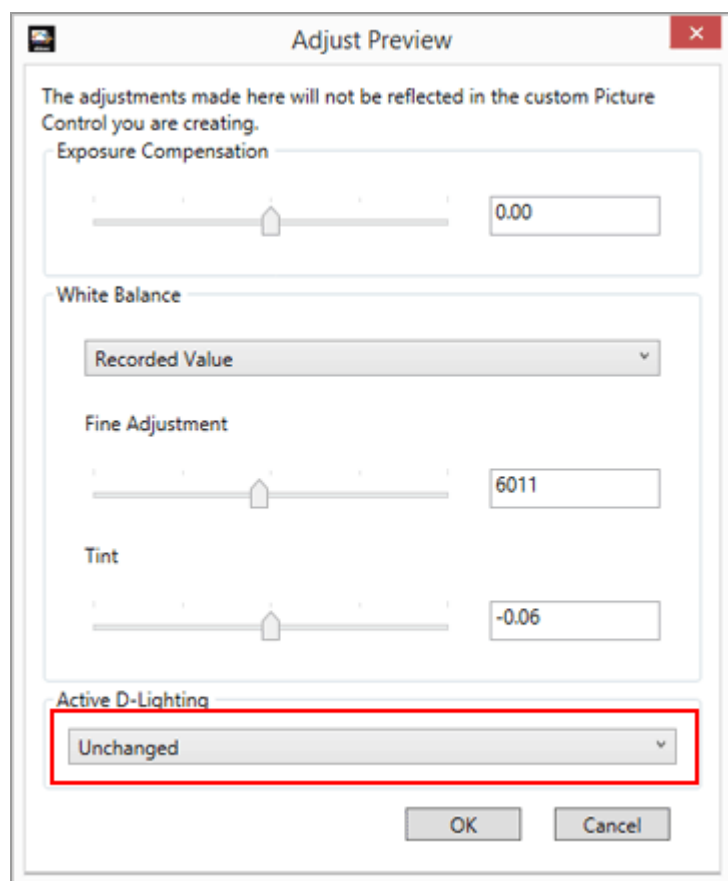
- **Underwater**

Suited to images taken underwater.

[Underwater] is available only for RAW images taken with cameras that support [Underwater].

You can adjust the Active D-Lighting setting.

1. Click  of [Active D-Lighting] to select the desired setting.



Active D-Lighting is adjusted based on the selected setting.

If you do not want to apply the [Active D-Lighting] setting, select [OFF].

Notes

You may not be able to apply the Active D-Lighting setting, depending on the camera used for shooting.

Importing Custom Picture Control

- ▶ Importing from a file
- ▶ Importing from a memory card

You can import custom Picture Controls created in compatible cameras or software to Picture Control Utility 2.

Importing from a file

1. Click  at the bottom of the [List: Picture Controls] palette.



The file selection window is displayed.

You can also display the file selection window by going to the [File] menu and selecting [Import Custom Picture Control], then [From File...].

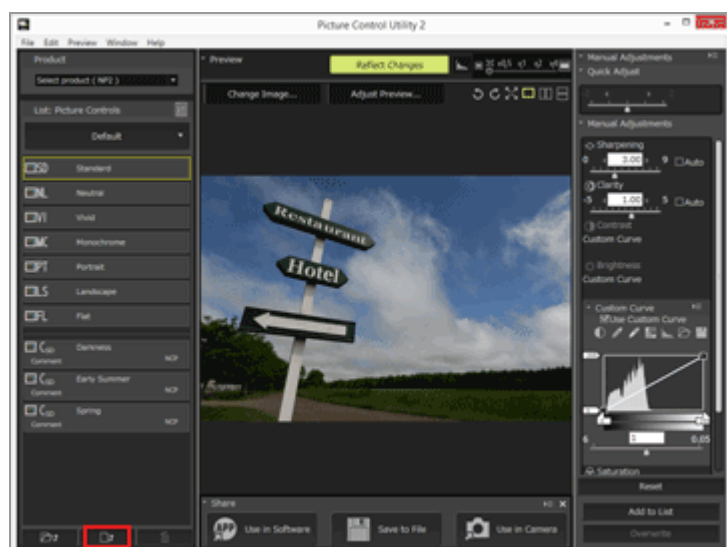
2. Select the Picture Control to import, and click [Open].

The Picture Control is imported.

You can also import Picture Controls by clicking a Picture Control file or dragging and dropping it onto the [List: Picture Controls] palette.

Importing from a memory card

1. Click  at the bottom of the [List: Picture Controls] palette.



The Picture Control selection window is displayed.

You can also display the Picture Control selection window by going to the [File] menu and selecting [Import Custom Picture Control], then [From Memory Card...].

2. Select custom Picture Controls to be imported, and click [OK].

You can select multiple custom Picture Controls at a time. The selected custom Picture Controls are imported and displayed in the [List: Picture Controls] list.

When multiple memory cards are connected

If more than one memory card is used, a screen for selecting the desired source (memory card) appears. Select a memory card containing custom Picture Controls to be imported, and click [OK].

Notes

- Memory cards used for importing or exporting custom Picture Controls should be formatted in a compatible camera in advance.
- Use a memory card reader, or select the [Mass Storage] for [USB] option in your camera and then connect it to your PC.
- Picture Control Utility 2 can store up to 150 Picture Controls including optional Picture Controls and custom Picture Controls.

✓ About custom Picture Controls created based on an optional Picture Control:

To import and use a Picture Control, the optional Picture Control that was used to create it needs to be installed in Picture Control Utility 2. For details on downloading/installing optional Picture Controls, refer to the instructions on the homepage.

✓ Regarding Custom Picture Control created based on [D2XMODE1], [D2XMODE2], or [D2XMODE3]

- When a camera or application with "(NP2)" displayed at the end of its name is selected in [Product], and custom Picture Controls created based on [D2XMODE1], [D2XMODE2], or [D2XMODE3] are imported, these custom Picture Controls will not be listed in [List: Picture Controls].

In this case, select a camera or application that supports D2XMODE and check [Preferences] in [D2XMODE] to display them in [List: Picture Controls].

- [D2XMODE1], [D2XMODE2], or [D2XMODE3], or Custom Picture Controls created based on them can only be applied to the images shot on the models that support D2XMODE.

Models that support D2XMODE:

D3, D3X, D300, D700

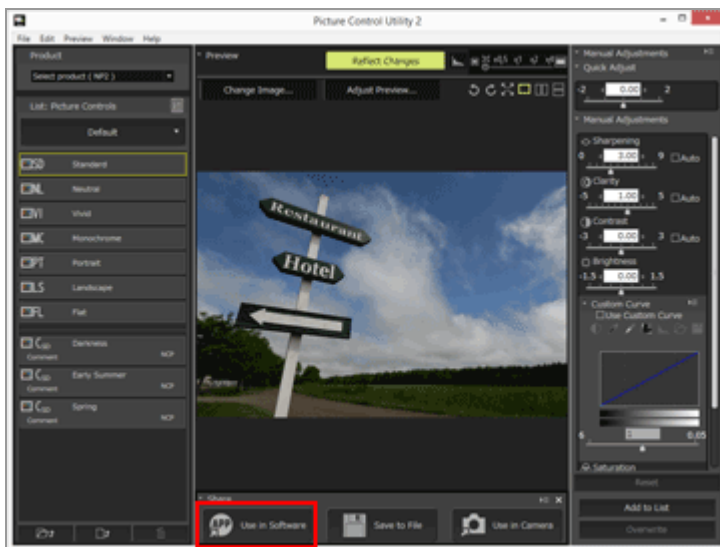
Exporting Custom Picture Control

- ▶ Use in Software
- ▶ Save to File
- ▶ Save to Card

You can export custom Picture Controls that you create to files for use in compatible cameras or software.

Use in Software

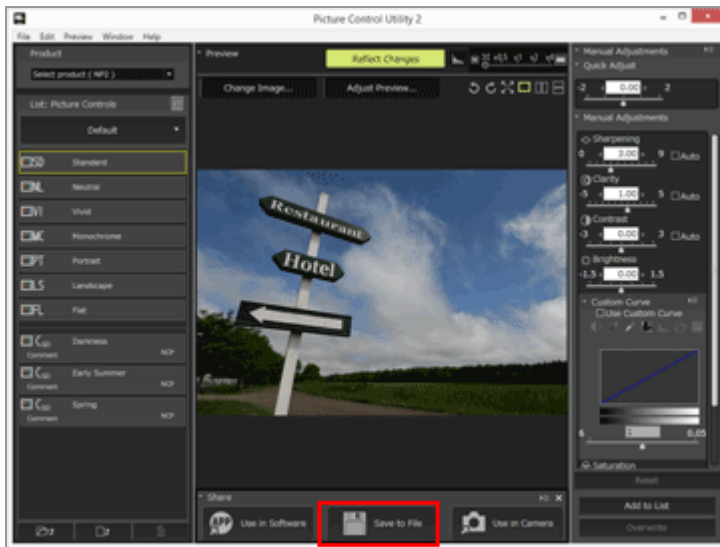
1. Select the custom Picture Control to export, and click [Use in Software] on the [Share] palette.



Nikon applications installed on your computer are displayed. Select the desired application to launch it.

Save to File

1. Select the custom Picture Control to export, and click [Save to File] on the [Share] palette.



The export destination selection window is displayed.

You can also display the export destination selection window by going to the [File] menu and selecting [Export Custom Picture Control], then [To File...].

- **Save to:**

Select the export destination folder. Click  to display the folder selection window.

- **File Name:**

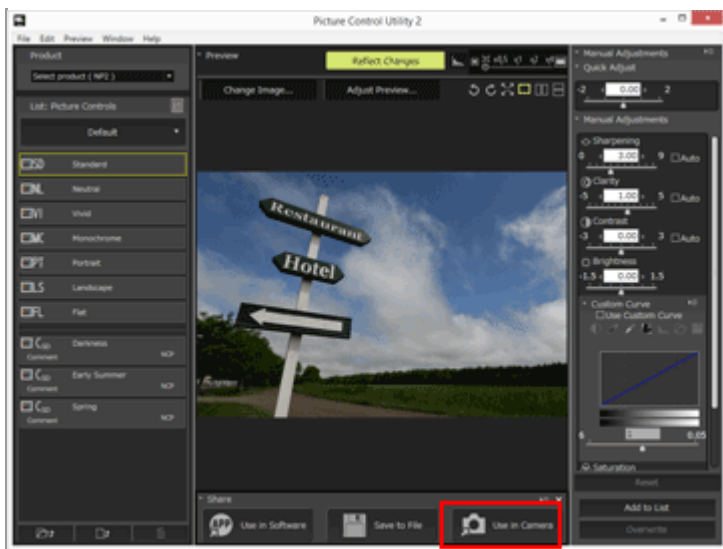
Change the file name. When multiple custom Picture Controls are selected, names are automatically assigned and cannot be changed.

- **Comment:**

Enter comments.

Save to Card

1. Select a custom Picture Control to export, and click [Save to Card] on the [Share] palette.



The custom Picture Control is saved to the memory card.

You can also save a custom Picture Control to a memory card by going to the [File] menu and selecting [Export Custom Picture Control], then [To Memory Card...].

When multiple memory cards are connected

If more than one memory card is used, a screen for selecting the desired destination (memory card) appears. Select a memory card to be exported, and click [OK].

✓ Notes

- Memory cards used for importing or exporting custom Picture Controls should be formatted in a compatible camera in advance.
- Use a memory card reader, or select the [Mass Storage] for [USB] option in your camera and then connect it to your PC.
- The number of Picture Controls that can be saved in a memory card is up to 198 (NP2: from 01 to 99, NCP: from 01 to 99).

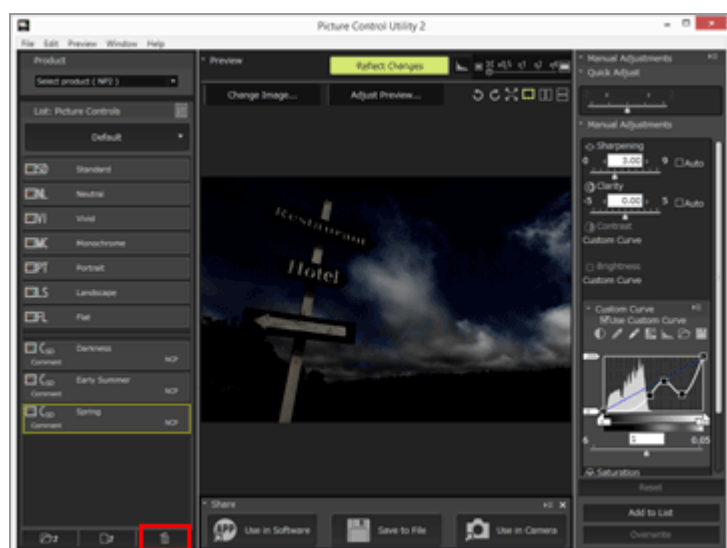
✓ About custom Picture Controls created based on an optional Picture Control:

The base optional Picture Controls also must be installed in the cameras or software of the export destination to use it there. For details on the download and installation of optional Picture Controls, refer to the instructions on the homepage.

Deleting Custom Picture Control

You can delete custom Picture Controls stored in your Picture Control Utility 2.

1. Select the custom Picture Control to delete, and click  at the bottom of the [List: Picture Controls] palette.



The selected custom Picture Control is deleted.

You can also delete the desired Picture Control by right-clicking it (or clicking it while holding down the Control key in Mac OS) on the [List: Picture Controls] palette and selecting [Remove].

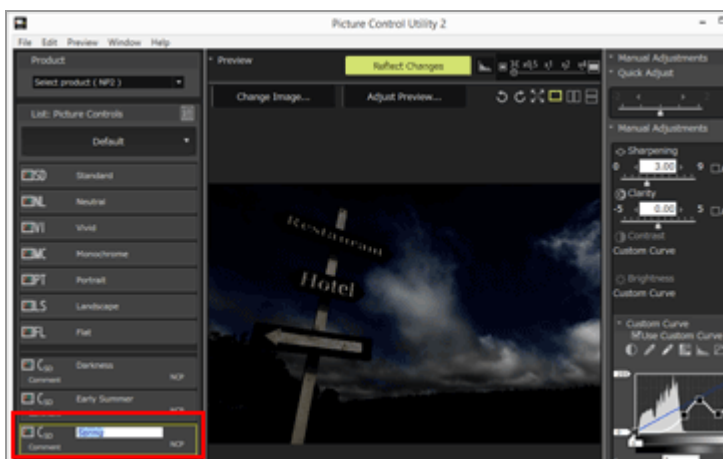
Note

You cannot delete Nikon Picture Controls or optional Picture Controls.

Changing the Names and Comments of Custom Picture Controls

You can change the names and comments of custom Picture Controls stored in Picture Control Utility 2.

1. Select a custom Picture Control to edit, and click the name or comment field.



The name or comment becomes editable.

You can also edit the name or comment of the desired Picture Control by right-clicking it (or clicking it while holding down the Control key in Mac OS) and selecting [Rename] or [Edit Comment].

2. Enter a name or comment, and click outside the name or comment field.

The name or comment of the custom Picture Control changes.

Available characters

Up to 256 single-byte or double-byte characters can be entered as a comment on a custom Picture control.

A string of up to 19 single-byte characters can be entered as a custom Picture Control name. The characters listed below are available.

Alphabet: A to Z (upper case or lower case)

Numbers: 0 to 9

Symbols: ! " # \$ % & ' () * + , - . / : ; < = > ? @ [¥] ^ _ ` { | } ~ single space

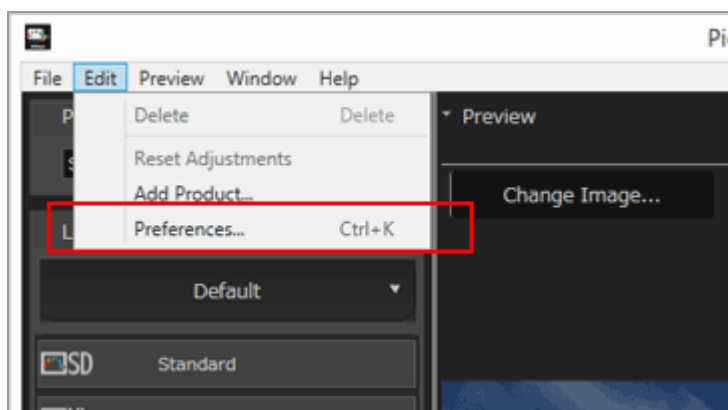
Note

You cannot rename Nikon Picture Controls or optional Picture Controls.

Preferences of Picture Control Utility 2

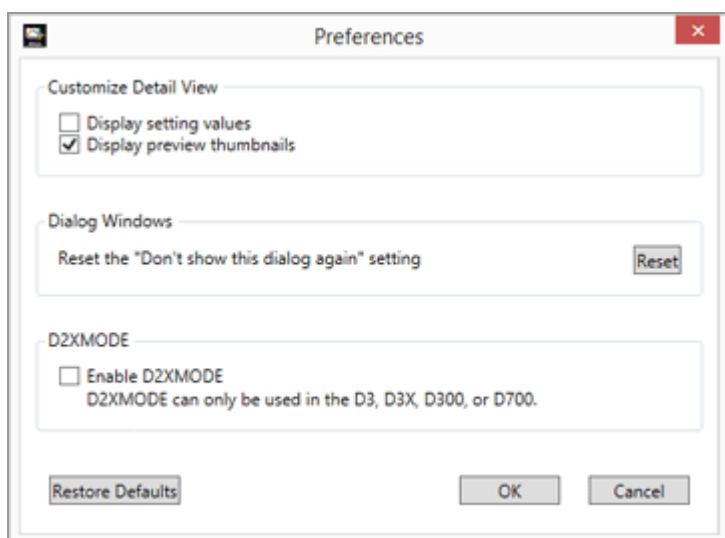
Preferences

1. Select [Preferences...] in the [Edit] menu (or [Preferences...] in the [Picture Control Utility 2] menu in Mac OS).



The [Preferences] window is displayed.

2. Select the item to change, and configure the setting.



3. Click [OK].

The setting is applied.

Setting items

The settings listed below are available in the [Preferences] window.

Customize Detail View

Set the items that are displayed when [Detail View] is selected for the Picture Control list.

Display setting values

Check this item to display adjustment values for [Sharpening], [Clarity], [Contrast], [Brightness], [Saturation], [Hue], and [Filter Effects], and whether tone curve is used or not.

Display preview thumbnails

Check this item to display preview thumbnails.

Dialog Windows

Display the window that was previously set to not to be shown again.

Reset the "Don't show this dialog again" setting

Click [Reset] to disable the "Don't show this dialog again" setting.

D2XMODE

Select whether or not the [D2XMODE1]/[D2XMODE2]/[D2XMODE3] optional Picture Controls and custom Picture Controls created based on D2XMODE are displayed in [List: Picture Controls].

When this item is checked, [D2XMODE1]/[D2XMODE2]/[D2XMODE3] and the custom Picture Controls created based on D2XMODE are displayed in [List: Picture Controls].

However, these Picture Controls cannot be used on camera models other than those that support D2XMODE (D3, D3X, D300, D700) even if you check this item.

Menu List of Picture Control Utility 2

The available menu list of Picture Control Utility 2.

[\[File\] menu](#)

[\[Edit\] menu](#)

[\[Preview\] menu](#)

[\[Window\] menu](#)


[\[Help\] menu](#)

[\[Picture Control Utility 2\] menu \(Mac OS only\)](#)

[File] menu

[Add Custom Picture Control to List...]

Assigns the created custom Picture Control a name and adds it to the Picture Control list.

 Ctrl+N (Windows) / Command+N (Mac OS)

 [Creating/Editing Custom Picture Control](#)

[Overwrite Custom Picture Control]

Overwrites the custom Picture Control in the Picture Control list with the one that you created.

 Ctrl+S (Windows) / Command+S (Mac OS)

 [Creating/Editing Custom Picture Control](#)

[Rename Custom Picture Control]

Renames Picture Controls.

 F2

 [Changing the Names and Comments of Custom Picture Controls](#)

[Import Custom Picture Control]

Imports Picture Controls into the Picture Control list.

 [Importing Custom Picture Control](#)

[Export Custom Picture Control]

Saves the created custom Picture Control.

 [Exporting Custom Picture Control](#)

[Launch Capture NX-D]


Launches Capture NX-D. This item is displayed only when Capture NX-D is installed.

[Launch ViewNX-i]

Launches ViewNX-i. This item is displayed only when ViewNX-i is installed.

[Quit Picture Control Utility 2] (Windows only)

Exits from Picture Control Utility 2.

 Ctrl+Q(Windows)

 [Quitting Picture Control Utility 2](#)

[Edit] menu


[Cut] (Mac OS only)

This function cuts the text being edited.

 Command + X (Mac OS)

[Copy] (Mac OS only)

Copies selected text when editing text.

 Command + C (Mac OS)

[Paste] (Mac OS only)

Copies selected text when editing text.

 Command + V (Mac OS)

[Delete]

Delete custom Picture Controls registered in Picture Control Utility 2.

 Delete

[Reset Adjustments]

Restores all setting items to their previous values before adjustment.

 [About Level Adjustment](#)

[Add Product...]

Displays the [Add product...] window.

 [Creating/Editing Custom Picture Control](#)

[Preferences...] (Windows only)

Displays the [Preferences] window.

 Ctrl+K (Windows)

 [Preferences of Picture Control Utility 2](#)

[Preview] menu

[Change Preview Image...]

Changes the RAW image (NEF) used as the preview image.

 [Preferences of Picture Control Utility 2](#)

[Use Default Sample]

Restores the default preview image.


[Rotate 90°CW]

Rotates the preview image clockwise 90 degrees.

 Ctrl+R (Windows) / Command+R (Mac OS)

[Rotate 90°CCW]

Rotates the preview image counterclockwise 90 degrees.

 Ctrl+Shift+R (Windows) / Command+Shift+R (Mac OS)

[Rotate 180°]

Rotates the preview image 180 degrees.

[Full Screen]

Displays the preview image in full screen.

 Ctrl+F (Windows) / Command+F (Mac OS)

[Compare Before/After Horizontally]

Aligns images horizontally.

[Compare Before/After Vertically]

Aligns images vertically.

[Compare with]

Select the Picture Controls to compare when [Compare Before/After Horizontally] or [Compare Before/After Vertically] is selected.

[Zoom]

Changes the display magnification for the preview image.

[Window] menu

[Histogram]

Displays the histogram of the preview image.

 [Using Palettes](#)

[Share]

Displays the [Share] palette.

 [Using Palettes](#)

[Reset Layout]

Restores the default palette layout and sizes.

[Tutorial]

Displays the [Tutorial] window.

[Help] menu

[Picture Control Utility 2 Help]

Displays this Help.

 F1 (Windows)

[Check for Updates...]

Checks for updates.

[About Picture Control Utility 2] (Windows only)

Displays the Picture Control Utility 2 version information window.


[Picture Control Utility 2] menu (Mac OS only)

[About Picture Control Utility 2]

Display the Picture Control Utility 2 version information window. Click anywhere on the screen to close the window.

[Preferences...]

Displays the [Preferences] window.

 Command+, (Mac OS)

 [Preferences of Picture Control Utility 2](#)

[Quit Picture Control Utility 2]

Exits from Picture Control Utility 2.

 Command+Q (Mac OS)

 [Quitting Picture Control Utility 2](#)