

# DNG Function Introduction

CyberViewX Windows 5.20.50 or Older

# Introduction to DNG

- DNG stands for Digital Negative Image. DNG is an open-source, royalty-free, highly compatible, and continuously evolving raw image format designed for photo editing, particularly well-suited for editing using Adobe software.



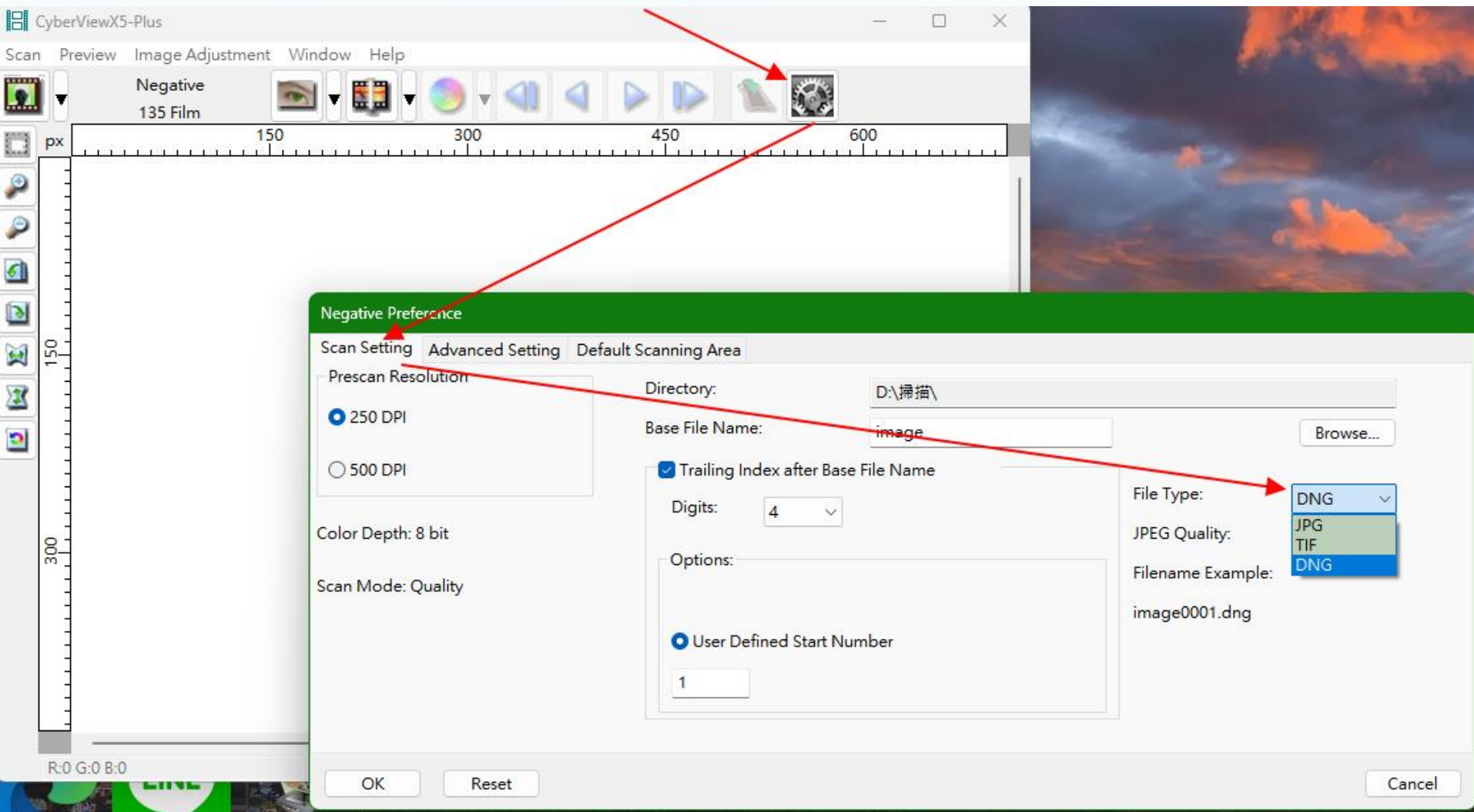
# Introduction to DNG

- DNG files are compatible with Adobe programs like Photoshop and Lightroom. If you have a large number of photos to edit, using DNG is a good practice, thanks to built-in shortcuts and streamlined workflows within the files.
- The United States Library of Congress uses DNG files for this purpose. Another practical archiving feature is that DNG files can self-check for any damage.

# Pros of using DNG's

- Smaller file sizes.
  - At times, it's not even up to 20% of the Raw file.
- Speeds up processing between [Lightroom](#) and [Photoshop](#).
- Unifies different camera raw files to one generic file format.
  - Almost all built-in image viewing software in various systems can preview this format.
- Edit settings are held within the DNG file and not on a separate XMP file.
  - Furthermore, these write operations are lossless, and the original state can be restored with a single click at any time.
- Can be editing in any raw processing program.

# Location of DNG Function Settings



The image shows the CyberViewX5-Plus software interface. The main window displays a scan of a negative film with a ruler and various adjustment tools. A red arrow points from the gear icon in the top toolbar to the 'Negative Preference' dialog box. The dialog box has three tabs: 'Scan Setting', 'Advanced Setting', and 'Default Scanning Area'. The 'Scan Setting' tab is active, showing options for 'Prescan Resolution' (250 DPI selected, 500 DPI unselected), 'Color Depth: 8 bit', and 'Scan Mode: Quality'. The 'Advanced Setting' tab is also visible, showing 'Directory: D:\扫描\'', 'Base File Name: image', 'Trailing Index after Base File Name' (checked), 'Digits: 4', 'Options:' (empty), and 'User Defined Start Number' (1). The 'Default Scanning Area' tab shows 'File Type: DNG' (selected from a dropdown menu), 'JPEG Quality:', and 'Filename Example: image0001.dng'. The dialog box has 'OK', 'Reset', and 'Cancel' buttons at the bottom.

# DNG Function Scan Results Image(Positive Film)

DNG

TIF



# DNG Function Scan Results Image(Negative Film)

DNG



TIF



# DNG Function Scan Results Image(B & W)

DNG



TIF





# Supported Models

**PrimeFilm XA Plus**



**PowerSlide X Plus**



# If using Lightroom for editing, what are the differences between the DNG and TIF formats?

- **File Handling**

- **DNG**

Lightroom provides excellent native support for DNG files, as DNG is Adobe's proprietary format. It can read DNG metadata, including camera models, shooting settings, and more, allowing for better handling and editing of these files.

- **TIF**

TIF files can also be edited in Lightroom, but they may not have the same level of metadata support. Lightroom may not read as much shooting information from TIF files.

# If using Lightroom for editing, what are the differences between the DNG and TIF formats?

- **Editing Flexibility**

- **DNG**

- DNG files typically retain more of the original image information, allowing for a broader range of adjustments and edits, such as white balance, exposure, shadow/highlight processing, and more. This makes DNG files more flexible for post-processing in Lightroom.

- **TIF**

- TIF files are typically lossless, but some image information may be locked, limiting the extent of adjustments. The level of flexibility depends on how the TIF files were created.

# If using Lightroom for editing, what are the differences between the DNG and TIF formats?

- File Size

- DNG

- DNG files are usually relatively smaller, as they can use lossy compression. This can save storage space but may have some impact on image quality.

- TIF

- TIF files are generally larger because they are a lossless format, preserving all image information. This provides an advantage in image quality but may require more storage space.

# If using Lightroom for editing, what are the differences between the DNG and TIF formats?



In summary, whether you choose DNG or TIF, Lightroom is capable of image editing. However, DNG may offer better support and greater editing flexibility in Lightroom, especially in retaining original shooting information and adjustments. Your choice should also depend on your specific needs and workflow.

