

# Adobe® Digital Negative Converter 6.7 Read Me

## **What is a Digital Negative (DNG)?**

Digital Negative (DNG) is an openly published raw file specification that stores the “raw” pixel data captured by the digital camera sensor before it has been converted to JPEG or TIFF along with standard EXIF metadata, date, time, camera used, and camera settings. This format is freely available for other software and hardware vendors to support.

## **What is the Adobe (DNG) Converter?**

The Adobe DNG Converter enables you to easily convert camera-specific raw files from the supported cameras listed below to a more universal DNG raw file.

## **What is a “raw” file?**

A raw file contains the “raw” data captured by the digital camera sensor before it has been converted to JPEG or TIFF. Cameras that create JPEG or TIFF files process (and in the case of JPEG files, compress) the sensor data. When working with raw files, the file is not compressed or processed in the camera—instead, our software gives the user complete control over the conversion settings. For example, white balance is not applied to the raw file but is stored with the file so the software can default to the originally intended setting. Other information contained in a DNG file includes standard EXIF metadata (just like in JPEG files), date, time, camera used, and camera settings.

## **Benefits of raw files**

Some of the benefits of shooting raw include:

- Smaller files than uncompressed TIFF
- Does not have the artifacts of compressed JPEGs
- Many key camera parameters, such as white balance, can be modified even after the image is captured
- You have complete control over conversion settings rather than letting the camera decide
- Access to 16-bit data for greater detail and fidelity
- Flexibility of converting a single file using multiple conversion settings

## **Why convert to DNG files?**

Unlike most manufacturer-specific raw formats, the Digital Negative is an openly published specification that not only is supported by Adobe, but is also freely available for other software and hardware vendors to support. Consequently, it can be a safer file format to use for long-term archival purposes. Archiving your file as a digital negative eliminates worries that the raw file will no longer be readable once the camera that created it becomes obsolete.

The Digital Negative specification allows for not only all of the pixel information stored in current raw formats, but also for all of the additional, proprietary metadata that many manufacturers include. The Adobe DNG Converter may in some cases ignore some of this proprietary metadata, and only include the basic information necessary for creating a high-quality image file. The original raw file, however, can also be embedded in the new DNG format to ensure proprietary metadata from the manufacturer is not lost.

## **New Supported Cameras**

Support for the following cameras has been added in this update.

Canon	EOS 1D X
Canon	EOS 5D Mark III
Canon	PowerShot G1 X
Canon	PowerShot S100V
Fuji	FinePix F505EXR
Fuji	FinePix F605EXR
Fuji	FinePix F770EXR
Fuji	FinePix F775EXR
Fuji	FinePix HS30EXR
Fuji	FinePix HS33EXR
Fuji	FinePix X-S1
Nikon	D4
Nikon	D800
Nikon	D800E
Olympus	E-M5
Pentax	K-01
Samsung	NX20
Samsung	NX210
Samsung	NX1000
Sony	Alpha NEX-VG20
Sony	SLT-A57

Below is a complete list of supported cameras and raw formats included in DNG Converter 6.7. The new cameras are highlighted in red.\*

### **Digital Negative (DNG) raw file format**

Learn more about the DNG raw file format at  
[www.adobe.com/dng](http://www.adobe.com/dng)

#### **Canon**

EOS 1D  
EOS 1Ds  
EOS 1D Mark II  
EOS 1D Mark II N  
EOS 1Ds Mark II  
EOS 1D Mark III  
EOS 1Ds Mark III  
EOS 1D Mark IV  
**EOS 1D X**  
EOS 5D  
EOS 5D Mark II  
**EOS 5D Mark III**  
EOS 10D  
EOS 20D  
EOS 20Da  
EOS 30D  
EOS 40D  
EOS 50D  
EOS 60D  
EOS 300D (Digital Rebel/Kiss Digital)  
EOS 350D (Digital Rebel XT/EOS Kiss Digital N)  
EOS 400D (Digital Rebel XTi/EOS Kiss Digital X)  
EOS 450D (Digital Rebel XSi/EOS Kiss X2)  
EOS 500D (Digital Rebel T1i/EOS Kiss X3 Digital)  
EOS 550D (Digital Rebel T2i/EOS Kiss X4 Digital)  
EOS 600D (Digital Rebel T3i/EOS Kiss X5 Digital)  
EOS 1100D (Digital Rebel T3/EOS Kiss X50 Digital)  
EOS 7D  
EOS 1000D (Digital Rebel XS/EOS Kiss F)  
EOS D30  
EOS D60  
PowerShot 600  
PowerShot A5  
PowerShot A50  
PowerShot S30  
PowerShot S40  
PowerShot S45

#### **Nikon**

1 V1  
1 J1  
D1  
D1H  
D1X  
**D4**  
D70  
D100  
D200  
D2H  
D2Hs  
D3  
D3X  
D3s  
D300  
D300s  
D3000  
D3100  
D40  
D40x  
D50  
D5000  
D5100  
D60  
D70s  
D700  
D7000  
D80  
**D800**  
**D800E**  
D90  
D2X  
D2Xs  
Coolpix 5000  
Coolpix 5400  
Coolpix 5700  
Coolpix 8700

PowerShot S50  
PowerShot S60  
PowerShot S70  
PowerShot S90  
PowerShot S95  
PowerShot S100  
**PowerShot S100V**  
PowerShot G1  
**PowerShot G1 X**  
PowerShot G2  
PowerShot G3  
PowerShot G5  
PowerShot G6  
PowerShot G9  
PowerShot G10  
PowerShot G11  
PowerShot G12  
PowerShot Pro70  
PowerShot Pro90 IS  
PowerShot Pro1  
PowerShot SX1 IS

#### **Casio**

EXILIM EX-F1 (DNG)  
EXILIM EX-FH20 (DNG)  
EXILIM EX-FH25 (DNG)  
EXILIM EX-FH100 (DNG)

#### **Contax**

N Digital

#### **Epson**

R-D1  
R-D1s  
R-D1x

#### **Fujifilm**

FinePix E900  
FinePix E900  
**FinePix F505EXR**  
FinePix F550EXR  
**FinePix F605EXR**  
FinePix F700  
**FinePix F770EXR**  
**FinePix F775EXR**  
FinePix HS10  
FinePix HS20EXR  
**FinePix HS30EXR**  
**FinePix HS33EXR**  
FinePix IS-1  
FinePix IS Pro  
FinePix S100FS  
FinePix S2 Pro  
FinePix S20 Pro  
FinePix S200EXR  
FinePix S3 Pro  
FinePix S5 Pro  
FinePix S5000 Z  
FinePix S5200/5600  
FinePix S6000fd/S6500fd  
FinePix S7000 Z  
FinePix S9000/9500  
FinePix S9100/9600  
FinePix X10  
FinePix X100  
**FinePix X-S1**

#### **Hasselblad**

H2D (DNG)  
CF-22  
CF-22MS  
CF-39  
CF-39MS  
CFH-22  
CFH-39

Coolpix 8400  
Coolpix 8800  
Coolpix P6000  
Coolpix P7000  
Coolpix P7100

#### **Olympus**

E-10  
E-1  
E-20  
E-3  
E-30  
E-420  
E-450  
E-5  
E-520  
E-600  
E-620  
**E-M5**  
E-P1  
E-P2  
E-P3  
E-PL1  
E-PL1s  
E-PL2  
E-PL3  
E-PM1  
EVOLT E-300  
EVOLT E-330  
EVOLT E-400  
EVOLT E-410  
EVOLT E-500  
EVOLT E-510  
C-5050 Zoom  
C-5060 Zoom  
C-7070 Wide Zoom  
C-8080 Wide Zoom  
SP-310  
SP-320  
SP-350  
SP-500 UZ  
SP-510 UZ  
SP-550 UZ  
SP-560 UZ  
SP-565 UZ  
SP-570 UZ  
XZ-1

#### **Panasonic**

DMC-FX150  
DMC-FZ8  
DMC-FZ18  
DMC-FZ28  
DMC-FZ30  
DMC-FZ35  
DMC-FZ38  
DMC-FZ40 (FZ45)  
DMC-FZ50  
DMC-FZ100  
DMC-FZ150  
DMC-G1  
DMC-G2  
DMC-G3  
DMC-G10  
DMC-GF1  
DMC-GH1  
DMC-GF2  
DMC-GF3  
DMC-GH2  
DMC-GX1  
DMC-L1  
DMC-L10  
DMC-LC1  
DMC-LX1  
DMC-LX2  
DMC-LX3

CFV  
503CWD  
H2D-22  
H2D-39  
H3D-22  
H3D-31  
H3D-39  
H3DII-22  
H3DII-31  
H3DII-39  
H3DII-39MS  
H3DII-50  
H4D-40  
H4D-60

#### **Kodak**

DCS Pro 14n  
DCS Pro 14nx  
DCS Pro SLR/n  
DCS720x  
DCS760  
EasyShare P712  
EasyShare P850  
EasyShare P880  
EasyShare Z1015 IS  
EasyShare Z980  
EasyShare Z981  
EasyShare Z990

#### **Konica Minolta**

DiIMAGE A1  
DiIMAGE A2  
DiIMAGE A200  
DiIMAGE 5  
DiIMAGE 7  
DiIMAGE 7i  
DiIMAGE 7Hi  
Maxxum 7D / DYNAX 7D  
ALPHA SWEET DIGITAL (Japan)  
ALPHA-5 DIGITAL (China)  
MAXXUM 5D (USA)  
DYNAX 5D (Europe)

#### **Leaf**

AFi II 6  
AFi II 7  
Valeo 6  
Valeo 11  
Valeo 22  
Valeo 17  
Aptus-II 5  
Aptus-II 8  
Aptus-II 10R  
Aptus-II 12  
Aptus-II 12R  
Aptus 17  
Aptus 22  
Aptus 54s  
Aptus 65  
Aptus 65s  
Aptus 75  
Aptus 75s  
Aptus AFi II 6  
Aptus AFi II 7

#### **Leica**

DIGILUX 2  
DIGILUX 3  
D-LUX 2  
D-LUX 3  
D-LUX 4  
Digital-Modul-R (DNG)  
M8 (DNG)  
M9 (DNG)

DMC-LX5

#### **Pentax**

\*ist D  
\*ist DL  
\*ist DL2  
\*ist DS  
\*ist DS2  
645D  
K-01  
K10D  
K100D  
K100D Super  
K110D  
K20D  
K200D  
K2000 (K-m)  
K-5  
K-7  
K-r  
K-x  
Q

#### **Phase One**

H 20  
H 25  
IQ 140  
IQ 160  
IQ 180  
P 20  
P 20 +  
P 21  
P 21 +  
P 25  
P 25 +  
P 30  
P 30 +  
P 40 +  
P 45  
P 45 +  
P 65 +

#### **Ricoh**

GR Digital (DNG)  
GR Digital II (DNG)  
GR Digital III (DNG)  
GR Digital IV (DNG)  
GX100 (DNG)  
GX200 (DNG)  
GXR, A12 (DNG)  
GXR, S10 24-72mm F2.5-4.4 VC (DNG)  
GXR, GR A12 50mm F2.5 MACRO (DNG)  
GXR, GR LENS A12 28mm F2.5 (DNG)  
GXR, GXR P10 (DNG)

#### **Samsung**

Pro 815 (DNG)  
GX-1S  
GX-1L  
GX-10 (DNG)  
GX-20 (DNG)  
NX 5  
NX10  
NX11  
NX20  
NX100  
NX200  
NX210  
NX1000  
TL350 (WB2000)  
TL500 (EX1)

#### **Sigma**

DP1  
DP1s  
DP2

S2 (DNG)  
V-LUX 1  
V-LUX 3  
X1 (DNG)

**Mamiya**

ZD  
DM22  
DM28  
DM33  
DM40  
DM56  
M18  
M22  
M31

SD9  
SD10  
SD14

**Sony**

A100  
A200  
A230  
A290  
A300  
A330  
A350  
A380  
A390  
A450  
A500  
A550  
A560  
A580  
A700  
A850  
A900  
Alpha NEX-C3  
Alpha NEX-3  
Alpha NEX-5  
Alpha NEX-5N  
Alpha NEX-7  
Alpha NEX-VG20  
DSC-F828  
DSC-R1  
DSC-V3  
SLT-A33  
SLT-A35  
SLT-A55V  
SLT-A57  
SLT-A65  
SLT-A77

\*Adobe is often able to provide preliminary support for raw files from new camera models not listed above. The Camera Raw plug-in will read these images but profiling and testing is not complete. If you have any problems with this update, please refer to the support Web site at <http://www.adobe.com/support/>.

Note: Hasselblad support is for the 3FR file format as well as FFF files generated from the Hasselblad Phocus software.

## **How to Use the Adobe DNG Converter**

1. Exit the DNG Converter
2. Open the download file and double-click Adobe DNG Converter and follow the on-screen instructions.
3. The DNG Converter is now available in your Programs(Windows) or Applications(Mac) directory
4. Launch the Adobe DNG Converter by double-clicking on the icon.
  - You can also drag and drop individual images or a folder of images directly onto the Adobe DNG Converter icon. This will automatically launch the converter.
5. Select the folder of images you would like to convert to DNG.
6. Select the location you would like the new DNG files to be saved.
7. Select the name you would like to use for the new DNG files.
  - If you select “Document Name,” the existing name of the file will be used with the new DNG extension added.
  - You can choose to add serial numbers or letters to the name. An example of the name will appear after “Name Example.”
  - Begin numbering: Enter the starting serial number if you would like it to be different than one.
  - File Extension: The file extension is automatically set to DNG. You can choose the extension to be either upper or lower case.
8. Preferences are set to apply lossless compression and preserve the mosaic format by default. You can change those preferences by clicking on “Change Preference...” then setting custom compatibility options. Below is a description of the alternative settings.
  - Linear (demosaiced) – The image data is stored in an interpolated(“demosaiced”) format. This can be useful if a camera’s particular mosaic pattern is not supported by a DNG reader. The default “mosaic” format maximizes the amount of data preserved. Mosaic image data can be converted to linear data but the reverse is not possible.
  - Uncompressed – No compression will be applied to the raw image data.
9. Click on “Convert”
10. A dialog will appear showing the status of the conversion.

## **Technical Support**

If you have any problems with the Adobe DNG Converter, please post them on the Adobe User to User Forum at: <http://www.adobe.com/support/forums/main.html>

## **Release Notes**

DNG Converter 5.4 and subsequent updates include new DNG Compatibility conversion options. These choices help address the additional options available with the new DNG 1.3 Specification (<http://www.adobe.com/dng>)

- Camera Raw 2.4 and later: The DNG file will be readable by Camera Raw 2.4 (Photoshop CS) and later, and Lightroom 1.0 and later
- Camera Raw 4.1 and later: The DNG file will be readable by Camera Raw 4.1 (Photoshop CS3) and later, and Lightroom 1.1 and later. The DNG file will often be readable by earlier versions, depending on the camera model
- Camera Raw 4.6 and later: The DNG file will be readable by Camera Raw 4.6 (Photoshop CS3) and later, and Lightroom 2.1 and later. The DNG file will often be readable by earlier versions, depending on the camera model
- Camera Raw 5.4 and later: The DNG file will be readable by Camera Raw 5.4 (Photoshop CS4) and later, and Lightroom 2.4 and later. The DNG file will often be readable by earlier versions, depending on the camera model
- Custom:
  - Backward Version Option: DNG 1.1, DNG 1.3 (default 1.3)
  - Checkbox: Linear (demosaiced) (default unchecked)
  - Checkbox: Uncompressed (default unchecked)

This version of the DNG Converter is now provided with an installation utility. The installation utility is designed to place the DNG Converter application in the Application(Mac) or Programs(Win) directory and install a set of color profiles required for the DNG Converter to function properly. These profiles are copied to a common resource location.

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May 1, 2012