



Adobe Creative Suite family /

# Adobe Photoshop CS5 / Extend : Camera Raw

## Camera Raw Digital Negative (DNG)

The camera raw converter functionality in Adobe® Photoshop® software provides fast and easy access to the raw image formats produced by many leading professional and midrange digital cameras. By working with these "digital negatives," you can achieve the results you want with greater artistic control and flexibility while still maintaining the original raw files.

The Photoshop Camera Raw plug-in became the latest must-have tool for professional photographers when it was released in February 2003. This powerful plug-in has been frequently updated to support more cameras and include more features and is available as part of Adobe Photoshop CS5. Adobe Photoshop Lightroom® software is built upon the same powerful raw processing technology that is available in the Camera Raw plug-in.

The Photoshop Camera Raw plug-in (2.3 or later) now also supports raw files in Digital Negative (DNG) format. Find out more about the benefits of DNG, a raw file format made available to the public by Adobe.

- To learn more about camera raw, read these primers:
- [Understanding digital raw capture \(PDF, 1000k\)](#)
  - [Linear gamma \(PDF, 235k\)](#)



### Adobe Photoshop Lightroom 3

From raw processing to final presentation, Lightroom 3 handles your digital photographs in one intuitive application — whether you're adjusting one image, searching for ten, processing hundreds, or organizing thousands. Together with Photoshop CS5 for pixel-level retouching, panoramas, and compositing, Lightroom offers a complete photography solution.

### Jump to:

- [Digital camera raw file support](#)
- [Camera support for Photoshop CS5 and Lightroom 3](#)
- [Supported cameras for the Camera Raw plug-in and Lightroom](#)
- [DNG compatible native cameras](#)

**Photoshop CS5**  
Create powerful images with the professional standard



Upgrade from  
US \$199.00

Buy

Try

★ Add Lightroom for 30% off. Hurry — ends soon.

### Do even more with...

**CS5.5 Design Standard**  
Produce high-impact print designs and digital publications



Upgrade from  
US \$299.00

Buy

Try

★ Add Lightroom for 30% off. Hurry — ends soon.

Other ways to buy

**Adobe Store**  
For home and home office

## Digital camera raw file support

### Camera Raw 6.4.1

Mac OS  
Windows®

### Lightroom 3.4.1

Mac OS  
Windows®

## Camera support for Photoshop CS5 and Lightroom 3

Support for the following cameras has been added from Camera Raw 6.3 to 6.4 and Lightroom 3.3 to 3.4.

Canon EOS 600D (Rebel T3i / Kiss X5 Digital)	Kodak EasyShare Z990
Canon EOS 1100D (Rebel T3 / Kiss X50 Digital)	Nikon D5100
Fuji FinePix S200 EXR	Olympus E-PL1s
Fuji FinePix F550 EXR	Olympus E-PL2
Fuji FinePix HS20 EXR	Olympus XZ-1
Fuji FinePix X100	Samsung NX11
Hasselblad H4D-40	

## Supported cameras for the Camera Raw plug-in and Lightroom

Support for the following cameras is included in Camera Raw 6 and Lightroom 3. Camera Raw 6 is not compatible with Photoshop CS4.

### 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 5D  
EOS 5D Mark II  
EOS 7D

### Kodak

DCS 14n  
DCS Pro 14nx  
DCS 760  
DCS Pro SLR/n  
EasyShare P712  
EasyShare P850  
EasyShare P880  
EasyShare Z980  
EasyShare Z1015 IS  
EasyShare Z981  
EasyShare Z990

### Olympus

E-1  
E-3  
E-5  
E-10  
E-20  
E-30  
E-420  
E-450  
E-520  
E-600  
E-620

### Ricoh

GXR, GR LENS A12  
28mm F2.5

### Samsung

GX-1S  
GX-1L  
NX10  
NX100  
NX11  
TL350 (WB2000)  
TL500 (EX1)

### Education Store

Students, educators, and staff

### Business Store

Small and medium businesses

### Enterprise purchasing

Volume licensing options

Call 800-585-0774

EOS 10D	DCS 720x	E-P1	<b>Sigma</b>
EOS 20D		E-P2	DP1
EOS 20Da	<b>Konica Minolta</b>	E-PL1	DP1s
EOS 30D	DiMAGE A1	E-PL1s	DP2
EOS 40D	DiMAGE A2	E-PL2	SD9
EOS 50D	DiMAGE A200	EVOLT E-300	SD10
EOS 60D	DiMAGE 5	EVOLT E-330	SD14
EOS D30	DiMAGE 7	EVOLT E-400	
EOS D60	DiMAGE 7i	EVOLT E-410	<b>Sony</b>
EOS 300D (Digital Rebel/Kiss Digital)	DiMAGE 7Hi	EVOLT E-500	A100
EOS 350D (Digital Rebel XT/EOS Kiss Digital N)	Maxxum 7D / DYNAX 7D	EVOLT E-510	A200
EOS 400D (Digital Rebel XTi/EOS Kiss Digital X)	ALPHA SWEET DIGITAL (Japan)	C-5050 Zoom	A230
EOS 450D (Digital Rebel XSi/EOS Kiss X2)	ALPHA-5 DIGITAL (China)	C-5060 Zoom	A290
EOS 500D (Digital Rebel T1i/EOS Kiss X3 Digital)	MAXXUM 5D (USA)	C-7070 Wide Zoom	A300
EOS 550D (Digital Rebel T2i/EOS Kiss X4 Digital)	DYNAX 5D (Europe)	C-8080 Wide Zoom	A330
EOS 600D (Rebel T3i / Kiss X5 Digital)	<b>Leaf</b>	SP-310	A350
EOS 1000D (Digital Rebel XS/EOS Kiss F)	AFi II 6	SP-320	A380
EOS 1100D (Rebel T3 / Kiss X50 Digital)	AFi II 7	SP-350	A390
PowerShot 600	Aptus II 5	SP-500 UZ	A500
PowerShot A5	Aptus II 6	SP-510 UZ	A450
PowerShot A50	Aptus II 6	SP-550 UZ	A550
PowerShot S30	Aptus II 7	SP-560 UZ	A560
PowerShot S40	Aptus 17	SP-565 UZ	A580
PowerShot S45	Aptus 22	SP-570 UZ	A700
PowerShot S50	Aptus 54s	XZ-1	A850
PowerShot S60	Aptus 65	<b>Panasonic</b>	A900
PowerShot S70	Aptus 65s	DMC-FX150	Alpha NEX-3
PowerShot S90	Aptus 75	DMC-FZ8	Alpha NEX-5
PowerShot S95	Aptus 75s	DMC-FZ18	DSC-F828
PowerShot G1	Valeo 6	DMC-FZ28	DSC-R1
PowerShot G2	Valeo 11	DMC-FZ28	DSC-V3
PowerShot G3	Valeo 17	DMC-FZ30	SLT-A33
PowerShot G5	Valeo 22	DMC-FZ40 (FZ45)	SLT-A55V
PowerShot G6		DMC-FZ35	
PowerShot G9	<b>Leica</b>	DMC-FZ38	
PowerShot G10	DIGILUX 2	DMC-FZ50	
	DIGILUX 3	DMC-FZ100	
	D-LUX 2	DMC-G1	
	D-LUX 3	DMC-G10	
	V-LUX 1	DMC-G2	
	D-LUX 4	DMC-GF1	
	<b>Mamiya</b>	DMC-GF2	
	DM22	DMC-GH2	
	DM28	DMC-L1	
		DMC-LC1	

PowerShot G11	DM33	DMC-L10
PowerShot G12	DM40	DMC-LX1
PowerShot Pro70	DM56	DMC-LX2
PowerShot Pro90 IS	M18	DMC-LX3
PowerShot Pro1	M22	DMC-LX5
PowerShot SX1 IS	M31	DMC-GH1
	ZD	
<b>Contax</b>		<b>Pentax</b>
N Digital	<b>Nikon†</b>	*ist D
	D1	*ist DL
<b>Epson</b>	D1H	*ist DL2
R-D1	D1X	*ist DS
R-D1s	D100	*ist DS2
R-D1x	D200	K10D (PEF)
	D2H	K100D
<b>Fujifilm</b>	D2Hs	K100D Super
FinePix E900	D2X	K110D
FinePix F700	D2Xs	K20D (PEF)
FinePix HS10	D3	K200D (PEF)
FinePix IS-1	D3s	K2000 (K-m)
FinePix IS Pro	D3X	K-5 (PEF)
FinePix S100FS	D300	K-7 (PEF)
FinePix S2 Pro	D300s	K-r
FinePix S20 Pro	D3000	K-x (PEF)
FinePix S3 Pro	D3100	645D (PEF)
FinePix S5 Pro	D40	
FinePix S5000 Z	D40X	<b>Phase One</b>
FinePix S5200/5600	D50	H 20
FinePix S6000fd/S6500fd	D5000	H 25
FinePix S7000 Z	D5100	P 20
FinePix S9000/9500	D60	P 20+
FinePix S9100/9600	D70	P 21
FinePix S200 EXR	D700	P 21+
FinePix F550 EXR	D7000	P 25
FinePix HS20 EXR	D70s	P 25+
FinePix X100	D80	P 30
	D90	P 30+
<b>Hasselblad (3FR only)</b>	Coolpix 5000	P 45
Hasselblad CF-22	Coolpix 5400	P 45+
Hasselblad CF-22MS	Coolpix 5700	
Hasselblad CF-39	Coolpix 8400	
Hasselblad CF-39MS	Coolpix 8700	
Hasselblad CFH-22	Coolpix 8800	
Hasselblad CFH-39	Coolpix P6000	
Hasselblad CFV	Coolpix P7000	

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

## DNG compatible native cameras

The following cameras can natively capture DNG format raw files and thus are compatible with Camera Raw version 2.4 and later.

<b>Casio</b>	<b>Pentax</b>	<b>Ricoh</b>	<b>Samsung</b>
EXILIM EX-F1	K10D	GR Digital	GX-10
EXILIM EX-FH20	K20D	GR Digital II	GX-20
EXILIM EX-FH25	K200D	GR Digital III	Pro 815
EXILIM EX-FH100	K-5	GX100	
<b>Hasselblad</b>	K-7	GX200	
H2D	K-x	GXR, S10 24-72mm F2.5-4.4 VC	
<b>Leica</b>	645D	GXR, GR A12 50mm F2.5 MACRO	
Digital-Modul-R		GXR, GR LENS A12 28mm F2.5	
M8		GXR, GXR P10	
M9			
S2			
X1			

\* The DNG raw file format is supported in previous versions of Lightroom and Camera Raw. This update improves the color and noise profiles for these models.

† The file encryption found in some Nikon raw formats has caused some users to question the level of cooperation between Nikon and Adobe in providing solutions for raw processing. [Get more information](#) about Nikon's and Adobe's joint commitment to the common needs of customers.

Note: Adobe is often able to provide preliminary support for raw files from new camera models not listed above. Camera Raw and Lightroom will open and edit these files, but profiling and testing is not complete.

**Learning**

More

MAX 2011  
Getting started  
Tutorials on Adobe TV  
Photoshop performance  
(PDF, 656k)   
Training and books  
Training providers  
Seminars and events  
User groups

**Help**



More

Help and support  
Windows updates  
Mac updates

**Resources**

Photoshop family  
Photoshop.com  
Compare Photoshop  
editions  
Complete photography  
solution  
Camera Raw support  
DNG support  
Photoshop Marketplace  
Photoshop Exchange  
Photoshop blog  
For companies

**Page tools**

 Share on Facebook  
 Share on Twitter  
 Share on LinkedIn  
 Print

 [Choose your region](#)

 [Ad Choices](#) [Careers](#) [Permissions and trademarks](#) [EULAs](#) [Report piracy](#) [Contact Adobe](#) [Security](#)

Copyright © 2011 Adobe Systems Incorporated. All rights reserved.  
Use of this website signifies your agreement to the [Terms of Use](#) and [Online Privacy Policy](#) (updated 07-14-2009).

