

## SIGMA DP1 Merrill

Compact digital camera with a 46MP APS-C size image sensor

- 46 megapixel Foveon X3 Direct Image Sensor
- Dual TRUE II Image Processing Engine
- Exclusively designed high performance lens
- Lens mounted manual focus ring



Sigma Imaging (UK) Ltd is pleased to announce that the new SIGMA DP1 Merrill will be available in the UK from mid-September with a suggested retail price of £799.99. This high image quality compact digital camera features a 46 megapixel (4800x3200x3 layers) Foveon X3 direct image sensor. The full-colour Foveon X3 direct image sensor ensures outstanding resolution and natural rendering with rich gradation as well as a three-dimensional feel. A focus ring and custom Quick Set (QS) mode also improve the user interface.

### 46 megapixel, 23.5x15.7mm full-colour Foveon X3 Merrill sensor

The 23.5x15.7mm full-colour Foveon X3 direct image sensor featured in the SIGMA DP2 Merrill, incorporates 46 effective megapixels (4,800x3,200x3 layers) and 44 recording megapixels (4,704x3,136x3 layers). The Foveon X3 direct image sensor captures all primary RGB colours at each and every pixel location with 3 layers, ensuring the capture of full and complete colour. Since colour moiré is not generated, the use of a low-pass filter is not required, meaning light and colour are captured with a three-dimensional feel.

### Dual TRUE II image processing engine

The dual "TRUE (Three-layer Responsive Ultimate Engine) II" image processing engine dedicated to Foveon X3 direct image sensors improves the processing speed and overall quality of the final image. By incorporating two TRUE II processors, Sigma's unique image-processing algorithm provides high resolution power and reproduces high definition images with richly graduated tones as well as a three-dimensional feel.

### Exclusively designed high performance 19mm F2.8 lens

The high-performance, wide angle 19mm F2.8 lens has the equivalent angle of view as a 28mm (35mm equivalent focal length) lens and has been designed exclusively for the SIGMA DP1 Merrill to maximize the sensor performance. One FLD ("F" Low Dispersion) glass element, which has the performance equal to fluorite glass, two glass mold aspherical lenses and one high refractive index lens provide excellent correction for all types of aberrations. The superior telecentric optical design improves image quality throughout the frame by passing on information about subjects to the sensor. The Super Multi-Layer Coating reduces flare and ghosting, ensuring sharp, high contrast image quality even under severe conditions such as taking photos against or towards the sun.

### Advanced User Interface

The custom quick set menu and the metallic command dial are incorporated to improve usability. The diaphragm, shutter speed and menu can be changed quickly using the command dial. The Quick Set (QS) menu which consists of the most commonly used functions can be easily displayed by pressing the QS button. It allows photographers to change the menu content and the order depending on their preferences.

### Capable of 7 frames continuous shooting

A large volume buffer memory enables the camera to capture up to 7 RAW images per sequence in continuous shooting mode. Using the high speed data transfer and processing, the SIGMA DP1 Merrill features a continuous shooting speed of up to 4 frames per second. In addition, depending on the situation, it is possible to capture up to 5 frames per second and up to 14 images per sequence in continuous shooting mode in Medium and Low image quality mode.

### Easy to use autofocus

The SIGMA DP1 Merrill features a "9 point select mode" which can select the desired focusing point from 9 different frames and "Free move mode" which can move the desired point as you like. In addition, it is possible to select the size of the focus frame from three types; Spot, Regular and Large. The new AF+MF mode adjusts the focus manually after verifying the AF by rotating the focus ring.

### **Manual Focus**

Manual Focus is available for use when autofocus or focus lock is not desired. It is possible to use the focus ring for focusing just like an SLR camera. It is also possible to magnify the display to ensure precise focusing.

### **RAW+JPEG format recording**

The SIGMA DP1 Merrill features a RAW data recording mode for retaining full image capture detail of the utmost quality captured through the direct image sensor, plus a JPEG recording format for convenience. The RAW data format provides pure data for high-resolution images, and uses lossless compression for more compact, yet uncompromised, data files. The RAW data format of the camera keeps brightness and colour data in a 1:1 ratio without relying on interpolation. When the image is processed in SIGMA Photo Pro, it will preserve the balance of the natural data for the best photos with the best image quality. It is also possible to record RAW data and JPEG data simultaneously to provide more convenience.

### **SIGMA Photo Pro (supplied)**

The supplied image processing software, "SIGMA Photo Pro", converts RAW data quickly and easily. It renders the full, 46 megapixel data. While looking at the captured images, it is possible to achieve the desired photographic expression by moving the sliders. It incorporates functions such as a loupe, exposure picker, print, JPEG conversion, and batch white balance settings, highlight correction, noise reduction and aberration correction mode.

### **Portable compact and lightweight body**

The SIGMA DP1 Merrill has compact dimensions of 121.5mm (W) × 66.7mm (H) × 59.2mm (D), and weighs just 360g. The supplied neck strap provides perfect mobility for candid photography.

### **SD card**

The SIGMA DP1 Merrill adopts the SD Card (SDXC compatible) which is compact and easy to carry.

### **Large, highly visible 3.0" TFT colour LCD Monitor**

The SIGMA DP1 Merrill features a 3.0 inch TFT colour monitor which ensures great visibility even outside in the daytime. This approximately 920,000 pixel resolution LCD monitor benefits from a wide viewing angle, making it easy to capture detail and to check focusing and composition.

### **Hot Shoe**

The SIGMA DP1 Merrill is equipped with a hot shoe, allowing use of the dedicated external flashgun EF-140 DG (optional) as well as SIGMA electronic flashguns for SD series such as EF-610 DG Super (optional) and EF-610 DG ST (optional).

### **Dedicated lens hood**

The dedicated bayonet lens hood (LH1-01) can be attached to block out extraneous light.

\* Lens hood sold separately

### **Movie Mode**

Movies can be recorded with VGA (640×480) size. The number of shooting frames per second is 30 frames.

[Accessories]

### **LH1-01 Lens Hood**

The dedicated bayonet lens hood (LH1-01) can be attached to block out extraneous light.

### **VF-11 Viewfinder**

This precision-made optical viewfinder mounts on the camera's hot shoe. It allows framing of the image without using the LCD monitor.

### **EF-140 DG Electronic Flash**

A compact flashgun designed exclusively for the DP series cameras and featuring a Guide Number of 14. This flashgun extends the camera's photographic possibilities with such features as fill-in flash and full-flash for night photography.

### **SAC-5 AC Adapter**

when using your camera for an extended period of time or connecting the camera to a computer. AC Adapter SAC-5 is used together with DC connector DC-11. DC connector DC-11 is supplied with AC Adapter SAC-5.

## Specifications

Image Sensor	Foveon X3 Direct Image Sensor (CMOS)					
Image Sensor Size	23.5×15.7mm					
Number of Pixels	Total Pixels: 48MP					
	Effective Pixels: 46MP (4,800×3,200 x 3)					
Aspect Ratio	3:2					
Focal Length	19mm					
35mm Equivalent Focal Length	Approx.28mm					
Lens F number	F2.8~F16					
Number of Diaphragm Blades	9 Blades					
Lens Construction	9 Elements in 8 Groups					
Shooting Range	20 cm~∞, 1m~∞ (LIMIT mode)					
Maximum Magnification	1:8.4					
Storage Media	SD Card, SDHC Card, SDXC Card, Multi Media Card					
File Format	Lossless compression RAW data (12-bit, High, Medium, Low), JPEG (High, Medium, Low), RAW+JPEG,					
	RAW	High	4,704×3,136×3 (Approx.45 MB)			
		Medium	3,264×2,176×3 (Approx.24 MB)			
		Low	2,336×1,568×3 (Approx.12 MB)			
	File Size	High	Fine	4,704×3,136 (Approx.10 MB)		
			Normal	4,704×3,136 (Approx.5.6 MB)		
		Basic	4,704×3,136 (Approx.4.2 MB)			
			Fine	3,264×2,176 (Approx.5 MB)		
		JPEG	Medium	Normal	3,264×2,176 (Approx.2.7 MB)	
			Low	Basic	3,264×2,176 (Approx.2 MB)	
		Fine		2,336×1,568 (Approx.2.5 MB)		
		Normal	2,336×1,568 (Approx.1.4 MB)			
		Basic	2,336×1,568 (Approx. 1 MB)			
Movie	VGA : 640×480 (Image area 640×426)					
ISO Sensitivity	ISO 100~ISO 6400 (1/3 steps for appropriate sensitivity)					
	AUTO: High limit, low limit setting is possible between ISO 100~ISO 6400. When using with flash, it changes depending on the low limit setting.					
White Balance	8 types (Auto, Daylight, Shade, Overcast, Incandescent, Fluorescent, Flash, Custom)					
Color Mode	7 types (Standard, Vivid, Neutral, Portrait, Landscape, B&W, Sepia)					
Auto Focus Type	Contrast Detection Type					
AF Point	9 points select mode, Free move mode (It is possible to change the size of Focus Frame to Spot, Regular)					
Focus Lock	Shutter release halfway-down position (AF lock can be done by AE lock button from menu setting)					
Manual Focus	Focus Ring Type					
Metering Systems	Evaluative Metering, Center-Weighted Average Metering, Spot Metering					
Exposure Control System	(P) Program AE (Program Shift is possible), (S) Shutter Speed Priority AE, (A) Aperture Priority AE, (M)					
Exposure Compensation	±3EV (1/3 stop increments)					
AE Lock	AE lock button					
Auto Bracketing	Appropriate, under, over; 1/3EV steps up to ±3EV for appropriate exposure					
Shutter Speed	1/2000* - 30sec. (*Depending on the aperture value, shutter speed changes)					
Drive Modes	Single, Continuous, Self Timer (2sec. /10sec.) Interval timer, Unlimited Shooting					
LCD Monitor Type	TFT color LCD monitor					
Monitor Size	3.0 inches					
LCD Pixels	Approx. 920,000 Pixels					
LCD Monitor Language	English/ Japanese/ German/ French/ Spanish/Italian/ Chinese(Simplified)/ Korean/ Russian/ Chinese(Traditional)/ Nederlands/ Polski/ Português/ Dansk/ Svenska/ Norsk/ Suomi					
Interfaces	USB (USB2.0), Video Out (NTSC/PAL), Audio Out (Monaural)					
Power	Li-ion Battery BP-41, AC Adapter SAC-5 (with DC Connector CN-11) (Optional)					
Battery Life	Approx. 97 (+25°C)					
Dimensions	121.5mm/4.8"(W),66.7mm/2.6"(H), 64.3mm/2.5"(D)					
Weight	360g/12.7oz(without battery and card)					

### For further information please contact:

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