

SIGMA
DP2
Merrill

THE SIGMA DP2 MERRILL GENERATION



DSLR image quality goes compact with a next-generation high-fidelity sensor. In the DP2 Merrill, Sigma revolutionizes photography and cameras. All over again.

Inspired modern craftsmanship
Sensor designed in California
Camera made in Japan

*The Sigma DP Series. A path-breaking concept:
Compact cameras with the full-spec performance of a digital SLR.*

*Right-sized to go with you everywhere.
Image quality that stays beautiful in large blow-ups.
An all-new genre of camera delivering photographic excellence
that exceeds all expectations for its size.
Praised and embraced by demanding photographers around the globe.*

*Designed to inspire a fresh approach to creative photography.
Yet, until the DP Series there was no such thing as a DSLR-spec compact.
That it heralded the birth of a new category is testimony to its impact.
Today's high-performance compacts all follow in its footsteps.*

Revolutionary. All over again.

It was not Sigma's intention to do anything radical.

*Our goal has always been to achieve a purer,
more honest rendition of the visible world.
After all, truth is the essence of photography.
But the pursuit of this fundamental functionality resulted in
technology capable of capturing every nuance of light.
In a camera that answers the call of photographic artistry.*

*Next came Sigma's flagship digital SLR: The Sigma SD1 Merrill.
Bringing subjects to life with a three-dimensional feel that
mirrors the scene's original ambience.*

*Now the DP Merrill Series inherits the same philosophy of
capturing photographic truth and achieves it
by packing all the picture quality and camera technology of
the SD1 Merrill into compact dimensions.*

*Introducing cameras that open up new possibilities for
image quality and photographic expression: The DP Merrill Series.*





SIGMA
DP2
Merrill
 THE SIGMA DP2 MERRILL GENERATION



Life, creativity and the Sigma DP2 Merrill.

With its compact take-everywhere convenience wedded to genuine photographic excellence, the Sigma DP Series was designed for creative artists.

As the first of a new series, the Sigma DP2 Merrill retains this same concept while adopting Sigma's next-generation 46MP Foveon X3 Direct Image Sensor, the very same as in Sigma's flagship DSLR, the SD1 Merrill.

Sigma's full color capture system creates clear, sharp images with a uniquely three-dimensional feel. With its much higher pixel count, the new, larger 46MP next-generation sensor delivers image quality of

unprecedented visual impact.

But impressive resolution is just the beginning. Richly graduated tonality and honestly natural rendition will change the way you think about image quality. True-to-life ambience gives subjects a fresh realism that transcends conventional notions of "high resolution" to bring you new realms of artistic expression.

The lens on this camera frames your subjects with a "standard" focal length (equivalent to a 45mm lens on a 35mm SLR) that closely matches the perspective of the human eye. This is the optimum for expressing the world the way we usually perceive it.

For casual shots of everyday scenes, For unexpected happenings when traveling ... Here is the ideal creative tool for capturing once-in-a-lifetime moments that will become cherished photographic images.

At last, there is a camera that packs the most advanced technology into a compact body without any compromise in performance.

A camera that will be your faithful companion, transforming your unique vision into works of art wherever you roam.

The Sigma DP2 Merrill.
 For those who lead the creative life.

In the far northwest of
the African continent lies Morocco,
the land of the setting sun.

As I prepare to visit this fabled land,
I wonder what adventures and
discoveries lie ahead,
hidden in the vastness of its deserts or
the maze of its labyrinthine streets.
Though my journey has not yet begun,
my heart races ahead to Morocco.

SIGMA DP2 Merrill Meets

Morocco

Behind the mystique

Morocco is a jewel on the coast of
North Africa that beckons to
people of many lands.
It is a magical place distinguished by
the 1,200-year history of its
ancient medinas, majestic and
forbidding 4,000-meter mountains,
and the proud, free,
spirit of the Berber people.
It is a place of unique
colors and customs,
a crossroads of many cultures.

Eagerly, I packed my bags
and set out in search of adventure,
my Sigma DP2 Merrill in hand.

My 2,400-kilometer overland trip through
Morocco was planned as a journey of discovery,
a quest for the perfect photographic moment.
For my camera, I chose the Sigma DP2 Merrill
because I wanted to be able to move about and
interact with people freely, yet still enjoy
the amazing color-capturing power of
Sigma's new-generation sensor, and the rich
expression of its newly developed DP lens.
I would be ready for anything — from fantastically
detailed interior scenes, to chance encounters in
darkened lanes and long hours under the blazing sun.
With the Sigma DP2 Merrill at my side, I was ready to
record and reproduce the myriad impressions
and emotions my journey promised to bring.



Drawn into the shadows

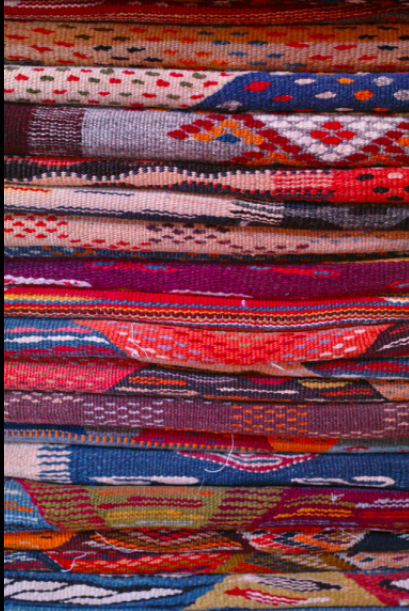
Walking the labyrinthine streets of the medina in Fez, I am surrounded by thick, high walls, unadorned save for their rich patina and color. Maze-like, the narrow lanes seem to confound at every turn, until at last I reach a solidly imposing wooden door. Beyond, I step into the spacious courtyard of a traditional Moroccan riad, its every surface a celebration of intricate mosaic tilework and architectural filigree.

I think of all the history this place has witnessed, all the untold hours of painstaking craftsmanship that have gone into its creation. And I wonder what stories have been handed down here, from generation to generation. Momentarily lost in reverie, I return to my senses, revived by a proffered cup of freshly brewed mint tea.

Slanting rays of light bring the geometric space to life, transforming the very air into a sculpture of light and shadow. As I frame each scene, I can see it change before my eyes. Chasing the light as it fades in the distance of a dark corridor, I know that the rich X3F data of the Sigma DP2 Merrill's RAW format will let me recapture the textured detail of its shadows.







A labyrinth of color

Before I left for Morocco, people warned me I would be enchanted by its colors.

Colors grow bold in the bright African light. At the end of the darkest alley, you can turn a corner and unexpectedly come upon a treasure chest of jewel-like iridescence, as though the city was a giant kaleidoscope where every turn brings a dazzling new explosion of color.

I was surprised to learn that the dyes used to produce these hues are all extracted from natural materials. But it makes sense, really — there is a strange harmony to this commotion of color. It is not something overpowering — it is an experience of light, color, and emotion that fills me with joy. Now, at last, I know what it means to be truly enchanted by color.

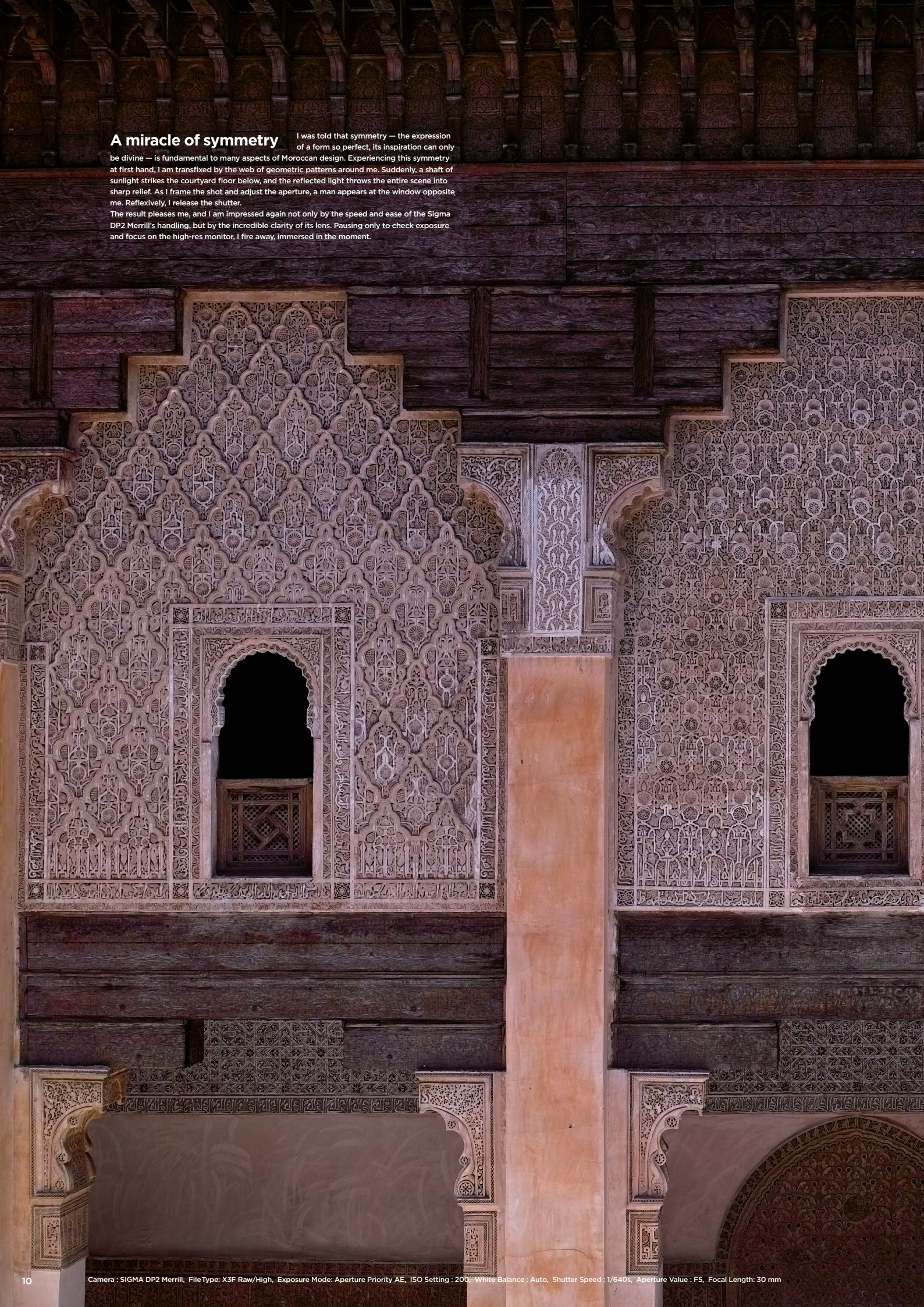
With the Sigma DP2 Merrill's full color capture system, I know every possible detail of color and light will be recorded, and that the truth will be revealed in the final image. So I will be able to relive the moment once again, seeing the interplay of light and shadow, smelling the scented air, and hearing the whispers of a storied past.



A miracle of symmetry

I was told that symmetry — the expression of a form so perfect, its inspiration can only be divine — is fundamental to many aspects of Moroccan design. Experiencing this symmetry at first hand, I am transfixed by the web of geometric patterns around me. Suddenly, a shaft of sunlight strikes the courtyard floor below, and the reflected light throws the entire scene into sharp relief. As I frame the shot and adjust the aperture, a man appears at the window opposite me. Reflexively, I release the shutter.

The result pleases me, and I am impressed again not only by the speed and ease of the Sigma DP2 Merrill's handling, but by the incredible clarity of its lens. Pausing only to check exposure and focus on the high-res monitor, I fire away, immersed in the moment.







I remember them all. There was Idir, who was kind to his camels, and Hamid, who searched far and wide for tender grass for his lambs. There was the Berber matriarch Aicha, swathed in red, and Najat, who made traditional Moroccan fans. Abdellatif could not hear, but was an expert bridle and harness maker, and Abdel-allah, who was 73, could still climb a palm tree better than anyone at the oasis. Youthful Youssif, who looked after his mother, was a little nervous about having his picture taken for the first time. The lovely sisters Iman and Siham were gracious, proud protectors of their riad's heritage of hospitality. The young Berber girl Khadija, daughter of Aicha, seemed quite serious, but I did capture a shy smile from Mouhamid, a great lover of Moroccan glass.



A rich tapestry of life

I was fortunate in being able to meet and talk with many people on my travels through Morocco, and was always impressed by their hospitality, and with the warm handshake they would give me when we parted. I was also fortunate in having a Sigma DP2 Merrill with me to record their clear, confident gaze and the proud spirit that animates it.

For me, the excitement of travel does not end with my journey or fade with time.

On the contrary, it grows — my travel-heightened senses somehow able to make surprising new discoveries in the ordinary ebb and flow of everyday life.

In fact, it never ceases to amaze me how the streets that I have always walked, and the familiar faces and places of home always seem new and fresh in the afterglow of travel.

Inspiring me to again pick up my camera, and begin another journey of creative discovery.

To see more photos of Morocco, visit the Sigma DP2 Merrill website at www.sigma-dp.com

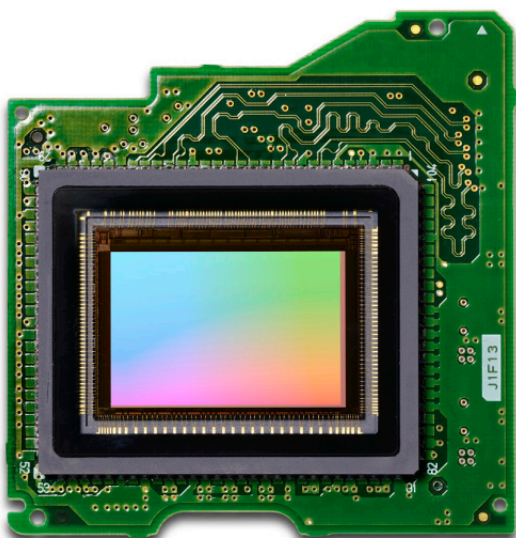
TheSobri



It's as if a veil has been lifted.

Texture that's indescribably lifelike.
 Rich tonal gradation.
 Honestly natural image quality rendered by
 our next-generation 46-megapixel sensor.

*Faithfully reproduce
 the scenes that move you.
 Capture unanticipated events
 in vivid detail.
 Experience the magic of
 images coming to life.
 Say hello to the fresh future
 of photography.*



Next-generation Foveon sensor for 'emotional image quality' with a dramatically boosted pixel count.

The Sigma DP2 Merrill is equipped with the same 46MP Foveon X3 Direct Image Sensor as in the SD1 Merrill DSLR.

Compared to the previous Foveon sensor, this new generation has an expanded area matching the APS-C format (50% greater equivalent focal length). It also has a narrower pixel pitch, thereby dramatically raising the total pixel count.

In fact, we have achieved an extraordinary 46MP (4,800 x 3,200 x 3) effective pixels, triple the previous number.

This provides luminance resolution equivalent to that of a 30MP CFA sensor as measured on the standard B&W resolution chart used in conventional digital camera resolution testing.

Medium-format sensor image quality exhibits rich depth and expanded range of expression

With its much higher pixel count, the new Foveon X3 Direct Image Sensor realizes medium-format image generation capability, while retaining the "emotional image quality" unique to our full color capture system.

Sigma's Dual TRUE II image processing engine was specially developed to process vast volumes of data at blazing speed, generating richly detailed images of amazing depth, which can be enjoyed even in large print formats.

Eye-opening sharpness. Natural edge definition. Finely graduated tonality ... Here is a camera that redefines "high image quality" and invites you into a fresh dimension of visual experience.

The 'Merrill' name
 Dick Merrill (1949-2008), co-developer of the revolutionary Foveon image capture system, was both a brilliant engineer and talented photographer. As an expression of Sigma's passion for photography and in honor of Dick Merrill's ability to realize artistic ideals through technology, we have named this next-generation sensor the "Merrill."

A fresh way of seeing. And shooting.

Unique sensor technology.
Foveon X3 full-color capture system.

*Express precisely what you see, think and feel.
The texture of light. The ambience of reality.
With a sensor born of the unwavering quest for pure,
unadulterated photographic truth.*

Technology that works just like film.
Foveon X3 Direct Image Sensor.

The Foveon X3 Direct Image Sensor featured in Sigma digital cameras uses three layers of photodiodes to gather the entire red, green and blue color information of light, forming the world's one and only full color capture system. Downstream processing of color and luminance information is minimized to preserve the most delicate nuances of texture in this pioneering format.

Taking advantage of the characteristics of silicon, this image sensor absorbs different light wavelengths at different levels, using a structure similar to color film. Full RGB light information is captured at each pixel location.

This ideal system lets Sigma cameras faithfully record the actual color image coming through the lens.

Beginning with our first digital camera in 2002, all Sigma cameras have used this same sensor format. The name "Foveon" is taken from the fovea centralis, the central portion of the human retina that has the most acute vision, reflecting our pursuit of the ideal visual experience.

Faithfully records light's pure richness without added color interpolation or low-pass filtering

The image sensor in most conventional digital cameras uses an RGB color filter array (CFA) over a monochrome sensor. Each photosite receives just one of the RGB colors, so downstream interpolation processing is required to create a full-color image.

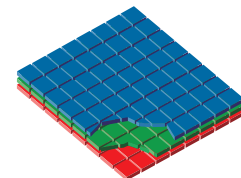
False colors (moiré) appear in this conventional system because of interference between details in the subject. An optical low-pass filter is therefore required to clean up the image, but at the expense of apparent sharpness.

In contrast, Sigma's sensor technology needs no color filter, so it doesn't sacrifice fine detail. The resulting high-definition image captures the full information focused by the lens on the sensor.

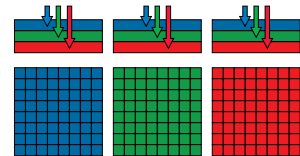
People are amazed at the almost uncanny atmospheric detail preserved by the high resolution of Sigma cameras.

The secret is simply that our unique system neither adds anything to the image nor takes anything away.

The Sigma SP2 Merrill's Foveon X3 Direct Image Sensor utilizes the characteristics of silicon to absorb shorter wavelengths (blue) near its surface and longer wavelengths (green, then red) at deeper levels. This three-layer full color capture system can record the full color information at each pixel location, enabling richly detailed, vividly colorful images, without the compromises of color interpolation required by conventional sensors.

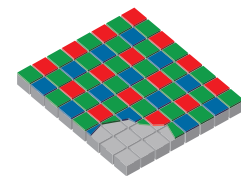


Foveon X3 Direct Image Sensor

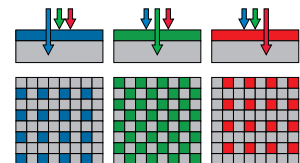


R: 100%, G: 100%, B: 100%

Full color capture system has three layers of photo detectors, enabling it to capture 100% of RGB color information directly.



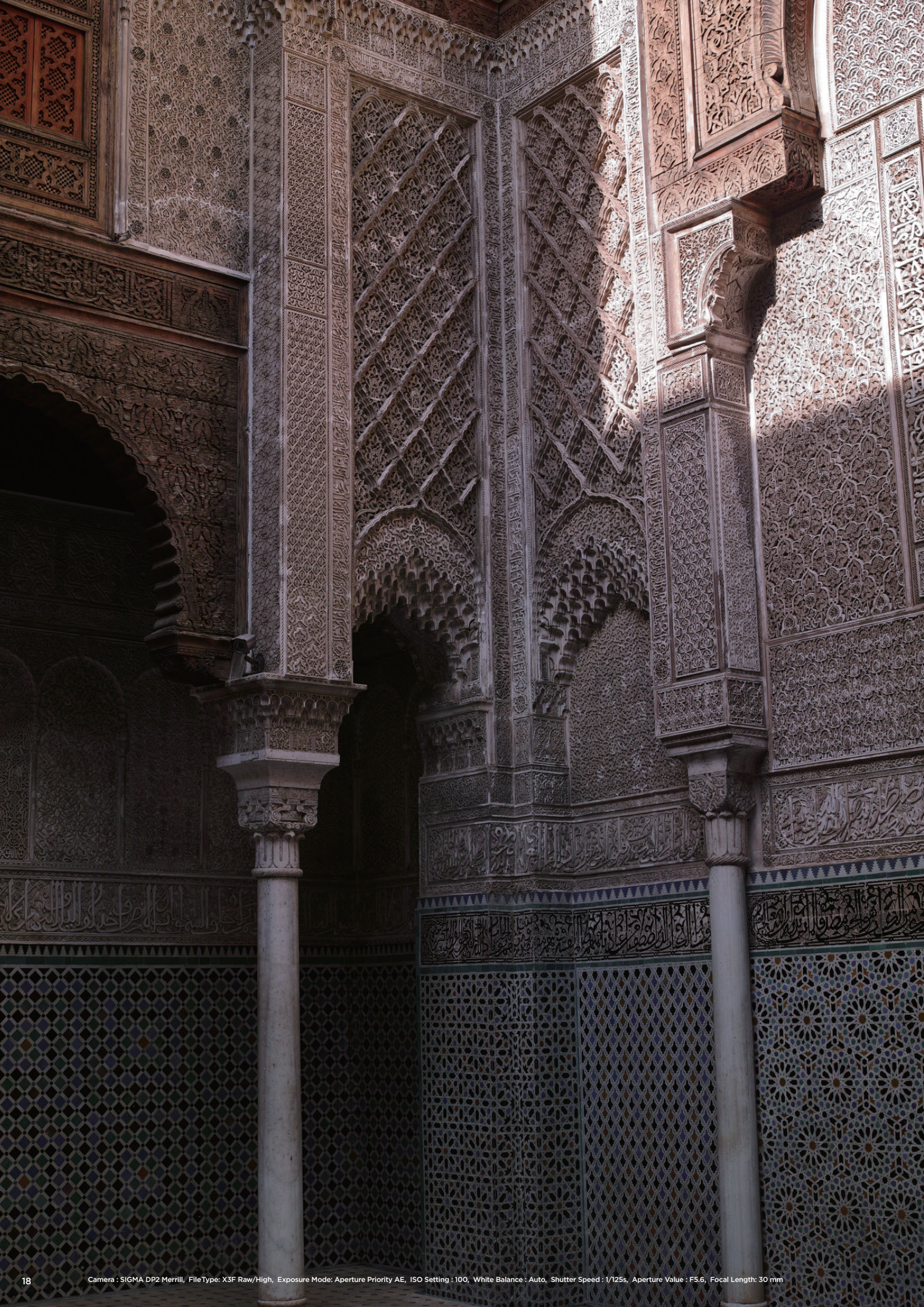
Conventional color filter array sensor



R: 25%, G: 50%, B: 25%

With a conventional digital camera's sensor, 50% of the photosites are dedicated to green, and 25% each gather red and blue color information via a color filter array.



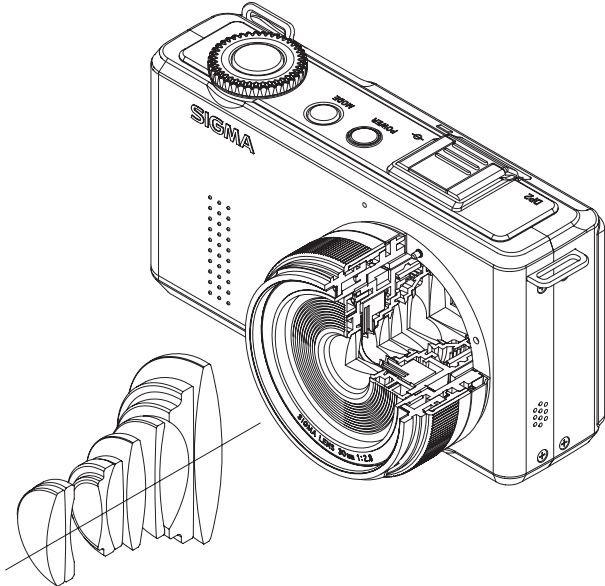


A world of beauty awaits.

Dedicated new DP lens optimized for the next-generation sensor.

We designed our new 'standard' lens to render the visible world as sharply, clearly and vividly as possible.

Its resolving power is simply overwhelming.



Perfect pair: Next-generation sensor and newly developed high-performance DP lens

The Sigma DP Series single-handedly triggered today's trend of fixed-lens high-end digital compact cameras. With Sigma's half century of lens making experience and expertise, the DP Series could offer specially developed lenses that won the acclaim of photography enthusiasts.

For the DP2 Merrill, we designed a new dedicated lens that is perfectly matched to the next-generation Foveon X3 Direct Image sensor with its larger APS-C area (equivalent to 50% greater focal length). The "standard"

focal length (equivalent to a 45mm lens on a 35mm SLR) of this lens gives a perspective that closely approximates the characteristics of the human eye. Developed to maximize the "pure image quality" of the full color capture system, this new lens renders scenes with astounding naturalness and clarity.

A lens that delivers profoundly natural images

Advanced optical architecture and precision manufacturing combine in a lens designed to faithfully deliver light information to the sensor unsullied by aberration.

The lens on the Sigma DP2 Merrill creates consistently crisp, high-contrast images with accurately rendered ultra-fine detail. Outstanding image surface characteristics provide excellent sharpness in the plane of focus while gently transitioning to beautiful bokeh in other areas.

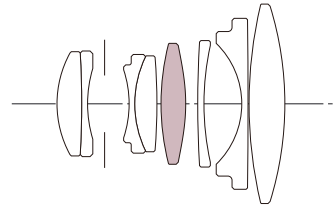
The best lens. The best sensor. Hallmarks of Sigma, the lens expert.

The best lens and the best sensor. These are the pillars that support Sigma's photographic philosophy in action. After all, designing and manufacturing lenses is our core competency.

This new DP lens achieves excellence in every parameter of performance, from its MTF curves to distortion and bokeh. It is truly a pinnacle of the lens maker's art.

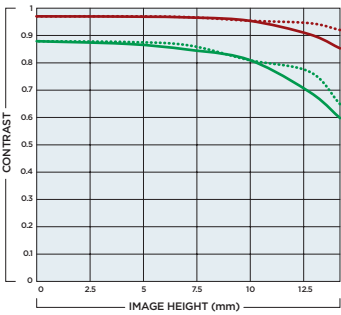
Lens construction

The construction of the special-design lens



To maximize image quality while minimizing lens barrel length, Sigma combined one glass molded aspherical element with three high-refraction glass elements. The result is a short lens with flat MTF curves, exhibiting virtually ideal optical characteristics in a "standard" focal length.

Sigma Lens 30mm F2.8 / MTF Chart



Spatial Frequency	Sagittal Line	Meridional Line
10 lp	— (solid red)	⋯ (dotted red)
30 lp	— (solid green)	⋯ (dotted green)

The MTF chart gives the results at the wide-open aperture.

Photo finishing like a pro.

Artistically 'develop' your photos with Sigma's creative software.

Now you can give your creativity free rein. Pressing the shutter release is just the beginning.

In the digital darkroom you fully realize your vision. This is where photographic expression reaches its apogee.

x3f RAW image format files are your digital negatives

A photograph starts with pressing the shutter and ends with manipulating the image to reproduce what you saw in your mind's eye.

You work with the full dynamic range, broad color spectrum and delicate gradations of shadow and light contained in the photo data file. This rich palette lets you finish the photo as you like.

We encourage you to take advantage of the x3f RAW format because it preserves the complete original image information gathered by Sigma's X3 full color capture system technology.

More convenient and flexible than ever: SIGMA Photo Pro

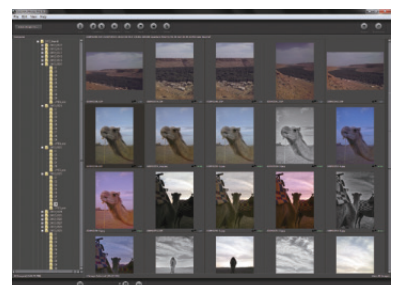
SIGMA Photo Pro software is designed for the creative photographer who wishes to personally control the image finishing process. It allows you to "develop" the image data you shot in RAW mode. Ever since we made our first digital camera,

we have continued to refine our RAW data processing technology. The result, we believe, is the finest digital darkroom software available today. It has precisely the functions you really need — no more, no less. Even if you are new to RAW file formats, the intuitive interface makes it easy to use.

To bring out the full potential of the 46MP image data captured by the next-generation Foveon X3 Direct Image Sensor, a new transverse aberration correction function has been added. Processing speed has also been accelerated for operational convenience.

For image correction, the Adjustment Controls Palette offers seven parameters: exposure, contrast, shadows, highlights, color saturation, sharpness, and the X3 Fill Light feature.

Together with the highlight correction, noise reduction, transverse aberration correction and other parameters, these versatile tools let you craft original masterpieces of photographic art.



Adjustment of exposure only



Subject and desert become one in the afterglow of a sunset



Creating an atmosphere of quiet just before dawn



Monochrome emphasizes texture and three-dimensionality



SIGMA
DP2
Merrill
THE SIGMA DP2 MERRILL GENERATION



Manual focus ring on lens

Lets you keep a steady grip on the camera while focusing, like using an SLR.

**Inspiration in
the palm of your hand.**

**High-end digital SLR quality
housed in a compact body**

*A compact camera
you can hold in one hand.
Built to get you the shots you want
— when you want them.*

*Speedily. Effortlessly. Repeatedly.
True high-end performance
that's always at the ready.*

**Designed with the same philosophy as an SLR,
optimized in every area for exacting performance**

Along with the next-generation Foveon X3 Direct Image Sensor, virtually every aspect of the Sigma DP2 Merrill has received a thorough upgrade.

We have optimized the lenses, body and user interface to bring out the larger sensor's maximum potential. Although the sensor is larger, the body is as compact as ever.

In line with our philosophy of providing SLR-like control, we have provided this camera with a user interface that will be familiar to photographers who have handled Sigma SD series models.

Similarly, a new focusing ring on the lens lets you manually adjust focus with your left hand while keeping your right on the shutter release.



Command dial for intuitive control
Quickly change menus and adjust settings for aperture, shutter speed and other parameters.

Handy mode button for 'scene' switching
Located next to the command dial for easy access and quick selection.



3" LCD for high viewability
High-definition 920,000 pixel wide-viewing-angle LCD monitor assists framing and focusing.

QS (quick set) button for favorite functions
Instantly recall ISO sensitivity, white balance and other frequently used functions.



LENS HOOD : LH2-01

ELECTRONIC FLASH : EF-140 DG

VIEW FINDER : VF-21

CLOSE-UP LENS : AML-2

ACCESSORIES

SIGMA DP2 Merrill

LENS HOOD: LH2-01

This lens hood to block out extraneous light.

VIEWFINDER: VF-21

This compact optical viewfinder mounts on the camera's hot shoe.

ELECTRONIC FLASH: EF-140 DG

Compact flashgun designed exclusively for the DP series. With a guide number of 14, it extends your shooting range. Ideal for night scenes and daylight sync.

CLOSE-UP LENS: AML-2

Mount this lens for easy close-up photography. The exclusive design delivers outstanding image quality from the center of the screen right to the edges.

SIGMA DP2 Merrill | PRINCIPAL SPECIFICATIONS

IMAGE SENSOR

Format	Foveon X3® direct image sensor CMOS
Image Sensor Size	23.5 x 15.7mm
Number of Pixels	Total Pixels: 48 MP Effective Pixels: 46 MP (4,800 x 3,200 x 3)
Aspect Ratio	3:2

LENS

Focal Length	30mm
35mm Equivalent Focal Length	Approx.45mm
Lens F number	F2.8 - F16
Number of Diaphragm Blades	9 Blades
Lens Construction	8 Elements in 6 Groups
Shooting Range	28cm - ∞, 100cm - ∞ (LIMIT mode)
Maximum Magnification Shooting	1 : 7.6

RECORDING SYSTEM

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, Movie(AVI)

File Size	RAW	High	:	4,704 X 3,136 X 3	Approx. 45 MB	
		Medium	:	3,264 X 2,176 X 3	Approx. 24 MB	
		Low	:	2,336 X 1,568 X 3	Approx. 12 MB	
	JPEG	High	:	Fine 4,704 X 3,136	Approx. 10 MB	
			:	Normal 4,704 X 3,136	Approx. 5.6 MB	
			:	Basic 4,704 X 3,136	Approx. 4.2 MB	
		Medium	Fine	:	3,264 X 2,176	Approx. 5 MB
			:	Normal 3,264 X 2,176	Approx. 2.7 MB	
			:	Basic 3,264 X 2,176	Approx. 2 MB	
		Low	Fine	:	2,336 X 1,568	Approx. 2.5 MB
			:	Normal 2,336 X 1,568	Approx. 1.4 MB	
			:	Basic 2,336 X 1,568	Approx. 1 MB	

Movie	VGA : VGA : 640 x 480 (Image area 640 x 426)
--------------	--

ISO SENSITIVITY

ISO Sensitivity	AUTO (ISO200 - ISO800) ISO100, 200, 400, 800, 1600, 3200, 6400
------------------------	---

WHITE BALANCE

Settings	8 types (Auto, Daylight, Shade, Overcast, Incandescent, Fluorescent, Flash, Custom)
-----------------	---

COLOR MODE

Settings	7 types (Standard, Vivid, Neutral, Portrait, Landscape, B&W, Sepia)
-----------------	---

MENU

LCD Monitor Language	English / Japanese / German / French / Spanish / Italian / Chinese(Simplified) / Korean / Russian / Chinese(Traditional) / Nederlands / Polski / Português / Dansk / Svenska / Norsk / Suomi
-----------------------------	--

AUTOFOCUS

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 and Large.)
Focus Lock	Shutter release halfway-down position (AF lock can be done by AE lock button from menu setting)
Manual Focus	Focus Ring Type

EXPOSURE CONTROL

Metering System	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] Manual
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

Shutter Speed	1/2000* - 30sec. (*Depending on the aperture value, shutter speed changes)
----------------------	---

DRIVE MODE

Drive Mode	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

INTERFACE

PC/IF	USB (USB2.0)
AUDIO/VIDEO	Video Out (NTSC/PAL), Audio Out (Monaural)

POWER SOURCE

Power	Li-ion Battery BP-41, AC Adapter SAC-5 (with DC Connector CN-11) (Optional)
--------------	--

DIMENSIONS AND WEIGHT

Dimensions	121.5mm/4.8"(W), 66.7mm/2.6"(H), 59.2mm/2.3"(D)
Weight	355g/12.5oz(without battery and card)

The appearance, specifications and other aspects of this product are subject to change without notice for improvement purposes.

To see more information, visit the Sigma DP2 Merrill website at

www.SIGMA-DP.com

SIGMA

SIGMA CORPORATION 2-4-16, Kurigi, Asao-ku, Kawasaki-shi, Kanagawa, 215-8530 Japan Tel: +81-44-989-7437 Fax: +81-44-989-7448 www.sigma-photo.co.jp

Note : To help with the correct and safe of this product, please read the manual carefully first.

Copyright © 2012 Sigma Corporation All Rights Reserved.