

## APPENDIX

### 1080 Full HD Movie recording

Full HD movie recording (1980 x 1080) offers the best moving picture quality available in a pocket-sized camera today. With Full HD, footage is realistic, smooth, bright and clear. Movies become a fascinating window on real life when viewed on a big Full HD TV.

### 1080 30p / 60i Full HD

Some Olympus cameras give you a choice of 1080 Full HD formats: 30p or 60i, so you can record in the format best suited to what you intend to do with your video when you're done. Although the difference might be difficult to spot at first, with certain applications, choosing the right format can give your video that extra touch of class. The 1080 30p format (p for progressive) makes it easier to extract high-resolution still photos from your film on a computer. 1080 60i (i for interlaced) is the better choice for capturing silky smooth video, even when you're shooting fast-moving scenes. Its seamless quality makes 30p perfect for playing back on big-screen TVs.

### 3.0" Super Precision 1,030,000 dot HyperCrystal III LCD for TOUGH

Unique to TOUGH Series cameras, this exceptional LCD features 1,030,000 dot resolution that generates beautifully bright and clear images. It also has a special layer that reflects light from external sources, thus reducing reflection even in direct sunlight – for outstanding visibility in a variety of shooting situations. And of course it's super-tough. A triple-coated acrylic finish makes the LCD more scratch-resistant than ever before.

### 3D Mode (3D photo shooting)

Captures two shots of a scene from two different angles to create still photos that can be viewed with the added excitement and realism of 3D (on a 3D-compatible computer, TV or photo frame). There are two 3D settings: Manual and Automatic. In both settings, the camera indicates when it is time to pan. In Automatic, when the camera is panned horizontally after the first shot, it automatically takes the second shot at the ideal moment. Manual is for 3D experts – the user decides when to take the second shot.

### What's new:

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## **3D Photo (Red & Cyan photo shooting)**

Captures photos just like regular 3D Mode, but generates a red and cyan 3D anaglyph photo that can be viewed using supplied 3D glasses on any regular 2D display, including your camera's LCD. There's no need for a 3D-compatible computer, TV or photo frame.

## **AF tracking**

This system tracks a moving subject automatically and keeps it continually in focus – for optimally focused and exposed pictures. It even memorises the subject when it goes out of frame and resumes tracking when it reappears.

## **Art Filters / Magic Filters**

Make it possible to create special artistic effects in still images and/or movies directly in the camera. Unless indicated, Art Filters / Magic Filters always work with both movies and stills. All Olympus cameras feature between six and ten 10 filters from the list below.

### **Cross Process I:**

Produces unexpected effects by instantly changing colours and contrasts. The resulting green image can appear to come from another world. **Cross Process II** coats your shot with a powerful purple hue – to give even the most everyday images a surreal feel.

### **Miniature / Diorama:**

Gives images a miniature model feel by narrowing the depth of field and enhancing colour and contrast.

### **Dramatic (Tone):**

Boosts the contrast to give images a more dynamic atmosphere.

**Dramatic (Tone) II** is the black-and-white version of Dramatic Tone I and was invented by Olympus.

### **Drawing:**

Transforms images into line drawings to give the impression that subjects have been sketched by an artist.

### **Fish-Eye:**

Simulates the dramatic effect of a fish eye lens, lending a special perspective to the whole scene with a “wrap-around” effect.

### **Fragmented (photos only):**

Creates a collage of tiles, as if the original photo had been cut up and reassembled. Gives the shot a lively look and feel with a friendly, three-dimensional texture.

### **Gentle Sepia:**

Elegant filter that gives images a muted, soft tone but conserves their dark edges. It replaces colours by various shades of sepia. The contrast between light and dark gives pictures a touch of class.

### **Grainy Film:**

This effect recreates the powerful expression of grainy, high-contrast black and white pictures. The resulting strong presence and dramatic atmosphere make the subject stand out impressively.

**Key Line:**

Enhances the lines around the edge of your image to make it look more like an illustration, with two different settings so you can adjust the level of detail. Key Line is a more subtle version of the common posterise filter, which doesn't preserve the dividing lines you need for the illustration effect.

**Light Tone:**

Brightens up the whole image to enhance detail, especially in darker areas where details would otherwise be hard to make out.

**Pale & Light Colour:**

Softens the light and reduces the contrast to create a pastel-coloured version of the original image.

**Pin Hole:**

Reduces peripheral brightness, like with an image seen through a pinhole. A unique colour tone results in a style that has an air of secrecy or portrays the feeling of being lost in another dimension or space.

**Pop Art:**

Enhances colours, making them stronger and more vivid, to create high-impact pictures that express the light-hearted feeling of the pop art style.

**Punk:**

Displays images primarily in contrasting pink and black to give them an edgy, punk-inspired feel.

**Reflection:**

Creates a spectacular horizontal reflection of the real image similar to a mirror image created by still water.

**Soft Focus:**

Creates a soft tone that gives pictures an ethereal, otherworldly atmosphere. It renders pictures as though they were veiled in heavenly light, without obscuring details such as hair or flower petals.

**Sparkle (photos only):**

Adds twinkling lights to objects.

**Watercolour:**

Another piece of artistic wizardry. This time images are turned into a watercolour painting surrounded by soft light.

Beauty Mode touches up the appearance of subjects even while the shot is being taken. This feature recognises faces and automatically makes skin on the face and adjacent areas appear smoother, brighter and more youthful.

### **Beauty Make-up Mode**

Lets you customise up to three people's faces before you take their picture. You can apply up to 18 effects (double the nine usually offered by rival systems), including eye liner, lipstick, eye brightening, cheek lift and soft focus. Changes show up almost instantaneously to make sure you don't miss a shot.

### **Built-in dot sight**

Another Olympus world's first, the built-in dot sight works as a framing assist to take the hard work out of keeping a moving object in focus. It's especially useful when shooting distant or moving subjects, letting you track your focus point while keeping an eye on the whole scene. The dot sight pops up out of the camera body and is suspended between the casing and the pop-up flash.

### **Conversion lenses**

#### **Fish-Eye lens converter:**

Offers a whole new level of creativity. It captures a distorted hemispherical image to generate dramatic shots with a wrap-around quality.

#### **Macro lens converter:**

Enables the user to capture fascinating close-ups from as little as 24cm away from the subject (depending on the lens). Perfect for unusual shots of the natural world.

#### **Wide-angle lens converter:**

Ideal for shooting in confined spaces, a wide-angle lens converter allows the user to capture a broader shot, for example to include more people at a party. What's more, it alters the proportions of close and distant subjects. Subjects nearer the lens appear much larger while subjects in the background shrink – creating a dynamic sense of depth.

### **Digital Image Stabilisation**

Helps to avoid image blur caused by camera shake or fast-moving subjects.

### **e-Portrait**

Recognises faces and automatically makes them and adjacent areas appear smoother, brighter and more youthful – before or after the shot is taken.

### **Echo Effect for Movies**

Creates a ghosting effect to add a dynamic extra dimension to your videos. You can create one-shot or multi-echo effects.

### **Eye-Fi™ card compatibility**

Lets users insert an Eye-Fi™ SD™ storage card and set it to automatically wirelessly transfer photos and HD movies to the sharing website and computer of their choice.

### **Face Detection technology**

A technology that searches for faces in a composition and recognises them as the main subject. It then automatically puts them in focus and optimally adjusts exposure to create an image that's sharp in the right places and ideally exposed. In compact cameras, Face Detection Technology can detect up to 12 faces while **Advanced Face Detection Technology** can detect up to 16 faces. In PEN cameras, Advanced Face Detection technology also comes with Eye Detection AF, which focuses on the pupil of the eye closest to the camera. It can even be set to distinguish between the left and right eye. Available for photos and videos.

### **FAST AF**

FAST AF (Frequency Acceleration Sensor Technology Autofocus) is Olympus' super-fast autofocus system and a breakthrough in autofocus technology. FAST AF is fed by a sophisticated sensor that supplies the necessary video signals at double the read-out speed (120fps) of previous sensors. The electrifying performance of FAST AF is enhanced by Full Time AF that ensures the camera constantly adjusts the focus, even before a photo or movie is taken. Not only does FAST AF guarantee lightning quick focussing, it also speeds up the AF system boot response following shutter release.

### **FlashAir™ compatibility**

When your SD card is FlashAir™-compatible, you can wirelessly transfer password-protected images to selected smartphones (or computers) and from there to your social network of choice. All you need is the free Olympus Image Share smartphone app that's available to download from the Internet. The seamless integration of your smartphone and camera makes it easier than ever to upload and share your images – because you control the process via the familiar smartphone interface that you use every day.

## **GPS & e.compass**

Automatically records the geographic location where your photos were taken so you can re-trace your steps in pictures on a digital map and easily sort through large numbers of pictures according to location. GPS & e.compass works in more than 180 countries and can identify more than 700,000 landmarks, displaying the information as text at the top of the image. For each photo, GPS & e.compass records latitude and longitude, plus the direction you are shooting in. What's more, it retrieves this data quickly – thanks to Assist GPS, your camera always connects to the satellite network in under 10 seconds.

## **Handheld Starlight Mode / Handheld Starlight Mode with Flash**

One of several features powered by Olympus' 16 Megapixel backlit MOS Sensor, Handheld Starlight Mode counteracts picture noise and camera shake so you can capture razor-sharp photos in poor light without using a tripod. You simply point your Olympus and shoot. Instead of recording just one image, the camera takes multiple images very quickly at different exposure settings then automatically merges them, selecting the most suitable gradation for each part of the photo and discarding the rest. The result is a perfectly exposed handheld composite photo that you couldn't normally shoot without supporting the camera on a base. Some Olympus cameras feature Handheld Starlight Mode with Flash, which also lights up subjects in the foreground of your shot and merges this part with the other images, as described above. This means you can shoot a beautifully lit person at night and still capture spectacular details in the background behind them.

## **HD Movie (720p High Definition)**

High Definition video (HD video) delivers a high-quality movie experience when played back on an HD TV. In HD Movie Mode, the camera captures HD video using the advanced AVI Motion JPEG or MPEG-4 AVC/H.264 movie compression format at a resolution of 1280 x 720 pixels.

## **HDR Backlight Adjustment**

What Shadow Adjustment Technology is to people shots, HDR Backlight Adjustment is to photos of inanimate objects. Driven by Olympus' powerful 16 Megapixel backlit CMOS Sensor, it helps you capture the scene just as you see it, no matter if you're shooting against the light. Instead of recording just one shot, your camera takes multiple images very quickly at different exposure settings then automatically merges them, selecting the most suitable gradation for each part of the photo and discarding the rest. In this way, HDR Backlight Adjustment effectively creates a collage of ideally exposed photos, blended seamlessly into one perfect shot.

## **High Sensitivity (HS) Sensor**

The High Sensitivity CCD Sensor is larger than the sensors usually found in compact cameras and its pixels are larger than those in comparable sensors, too. It provides outstanding image quality in any lighting conditions, including twilight, low light, dusk and dawn.

## **High-speed movie recording**

With adjustable frame-rate movie recording, you can capture high-speed action like sport and play it back in slow motion for a dramatic and fascinating perspective that reveals details and movements you simply wouldn't see at normal speed. Olympus cameras with high frame-rate movie recording can record slow-motion movies in Full HD resolution, thanks in part to iHS technologies that include a high-sensitivity sensor and powerful image processor. This gives your slow-motion videos a professional feel. Add background music, an HD TV, an audience of friends – and enjoy.

## **Hybrid 5-axis Movie IS / 3-axis Photo IS**

Two technologies, two world's firsts. Hybrid 5-axis Movie IS is the first digital/mechanical hybrid image stabilisation system ever installed in a compact camera, while 3-axis Photo IS is the most potent IS for still photos in a digital compact. Most optical IS compensates for pitch (tipping) or side-to-side yaw (the way a skidding car rotates on a bend), but 3-axis Photo IS counteracts movement around the front-to-back optical (rotary) axis as well. This is vital with long exposures and handheld macro or and telephoto shots because these magnify unintentional movement disproportionately to cause blur. Hybrid 5-axis Movie IS is even more refined, affecting five different planes of movement. It adjusts mechanically for pitch, yaw and rotary shift; and digitally for vertical and horizontal shift along the extended plane of the lens surface. Hybrid 5-axis Movie IS is so stable that you can film blur-free on the move – and even zoom in and out as you walk along.

## **Hybrid Control Ring**

The ring surrounding the lens that gives you quick, intuitive access to the camera settings you think are most important while you're framing a shot, without having to take your eye off the subject to look at the LCD. Hybrid refers to analogue and digital. A regular control ring only lets you adjust one type of settings but with Olympus' hybrid version you can toggle between analogue and digital modes using the fn2 button next to the ring. In analogue mode, the ring lets you fine-tune zoom or focus with smooth, step-free transitions. In digital mode you can click through key program parameters like aperture, depth of focus, program shift flash and exposure compensation. The ring is completely customisable – because everyone reacts differently to different shooting situations, Olympus lets you assign the settings to the control ring that you use most often.

## **i-Auto Mode**

The “intelligent-Auto” mode uses automatic detection technology that enables the camera to automatically recognise up to six or eight (depending on the camera) of the most commonly shot scenes. This makes it possible to capture perfect photos without the need for manual settings. **Advanced i-Auto Mode** recognises a greater variety of scenes, including blue skies and sunsets, and automatically applies the correct settings to create the best possible shot for the conditions. In HD Movie Mode, Olympus’ Advanced i-Auto Mode is best-in-class, identifying a record number of different scenes. It is powerful enough to detect nuances within a single shot, for example backlight, and apply different settings to different areas of the scene. It’s never been easier to capture perfect pictures, be they sunsets, backlit portraits, city lights at night or underwater. **Live Guide** is an extension of Advanced i-Auto. In just three steps it lets anybody master the settings that make all the difference – motion and background blur, colour intensity, lighting temperature and brightness. In a typical situation, Live Guide helps you blur out the background to make a shot more dramatic and show off the foreground to the best effect. Instead of having to adjust depth of field using the lens or menu yourself, now you just move a slide bar up and down on the LCD. Live Guide automatically adjusts all the parameters and alters the picture to show what affect your changes would have on the end result. When you see the effect you want on the LCD, you stop scrolling and move on to the next setting – or just capture the shot.

## **i-Underwater Snapshot**

In i-Auto Mode, the camera detects when it is underwater and automatically activates i-Underwater Snapshot, adjusting the tricky settings required for top-quality underwater shooting. It’s perfect for portraits shot in shallow water and captures the subject and the background vividly.

## **[ib] software**

With [ib] Olympus offers an integrated photo browsing and organising software. Images can be organised by person thanks to incorporated face recognition technology, by place with a GPS-based mapping function or by event.

## **i-Enhance**

i-Enhance automatically enhances colours so that the image captured more closely resembles the intensity of the scene the way we remember it.

## **iHS (Intelligence, High Sensitivity and High Speed)**

iHS is a combination of advanced technologies that let you capture exactly the photos you want, no matter the shooting conditions. By dramatically improving low-light performance, speeding up camera response and

enhancing scene and subject recognition, iHS transforms results when you shoot fast-moving subjects, night scenes and other traditionally difficult shots for photographers. The key technologies behind iHS are the next-generation TruePic V and VI image processor and the backlit CMOS Sensor that delivers high sensitivity and low noise. These two technologies drive a number of advanced Olympus features that take all the work out of capturing difficult shots, from HDR Backlight Adjustment to Advanced Shadow Adjustment.

## **Image stabilisation**

Built-in image stabilisation (IS) scores over lens-based IS by correcting blur irrespective of the lens attached to your camera. The Olympus range features various types of built-in image stabilisation, ranging from image sensor-based to 3-axis systems, and even the world's first 5-axis system.

### **Built-in digital image stabilisation**

Built directly into the camera, this feature can stabilise the image any attached lens and help improve the image quality of photos that would otherwise be affected by the blur caused by camera shake or fast-moving subjects. First a gyro sensor detects the precise direction of the camera shake, then the image sensor shifts to compensate for the unwanted movement.

### **Lens Shift Image Stabilization**

The Lens Shift IS mechanism uses a floating element inside the lens to compensate for camera shake (yaw and pitch) and reduce the risk of blurred images in difficult lighting conditions, or when shooting with high zoom ranges. Unlike sensor-shift IS, the image is corrected in the lens before it enters the camera.

### **Dual Image Stabilisation**

Providing two-fold protection, Dual IS combines high ISO values with a CCD-based mechanical image stabiliser, where a built-in gyro sensor detects camera movement and adjusts the CCD accordingly.

### **3-axis VCM Image Stabilisation**

3-axis IS is a powerful IS for still photos in a digital compact. Most optical IS systems compensate for pitch (tipping) or side-to-side yaw (the way a skidding car rotates on a bend), but 3-axis Photo IS counteracts movement around the front-to-back optical (rotary) axis as well.

## **Hybrid 5-axis Movie Image Stabilisation**

Hybrid 5-axis Movie IS is the first digital/mechanical hybrid image stabilisation system ever installed in a compact camera, and affects five different planes of movement. It adjusts mechanically for pitch, yaw and rotary shift; and digitally for vertical and horizontal shift along the extended plane of the lens surface. Hybrid 5-axis Movie IS is so stable that you can film blur-free on the move – and even zoom in and out as you walk along.

## **5-axis Image Stabilisation System (O-MD)**

A world-first in interchangeable lens cameras, this sophisticated mechanism eliminates blur altogether, from photos and videos alike. It is especially effective with telephoto shots, macros and long exposures, where even the slightest hand tremors can have a disastrous effect on the quality of the image captured. What's more, you can see 5-axis IS take effect before you fully depress the shutter button. It gives you a crisp view of your subject in the electronic viewfinder system (EVF), making it easier to frame. 5-axis IS is built into the body of your Olympus camera to ensure sharp, blur-free images irrespective of the lens attached.

## **In-camera Panorama**

Both let you create an impressive super-wide angle, wrap-around photo simply by panning the camera across the scene. Three frames are taken and combined by the camera. As soon as the target marks and pointers overlap, the camera automatically releases the shutter. Smart Panorama goes one better, letting you pan vertically, too.

## **Interval Shooting**

Enables you to set the camera to automatically shoot up to 999 (depending on the model) consecutive still photos at set time intervals. It's ideal for capturing rare wildlife when your presence would disturb the animal, or time-lapse photography, for example, of a sunrise. The choice of time interval varies from camera to camera – from 1 second to fully 24 hours.

## **Live Bulb/Live Time**

During long-exposure shooting, this clever feature displays the image you are shooting on the rear-panel monitor or the electronic viewfinder (EVF), and updates it at set intervals. This gives you a big advantage over comparable rival technologies, which normally show a blank screen while you are taking the shot. You can watch the image as it's created and stop the exposure if need be – to make sure you get exactly the result you want.

## **Live Composite Mode**

Particularly useful for inexperienced photographers, Live Composite Mode helps users capture impressive shots of starscapes and other dark scenes that contain bright objects in motion. Once this feature is enabled, the camera takes a selected number of shots with identical exposure time and settings. When the camera stitches the images together, it automatically detects any moving objects and changes in brightness and alters these to produce a seamless final image. The result is similar to a long exposure shot, but without any overexposed areas.

## **Macro Arm Light**

Not one light, but two bright LEDs – each on the end of its own fully flexible metal arm and powered by the camera. Both arms extend out up to 17cm from a sleek and slender unit mounted on the Accessory Port. For macro shots or attractive close-ups of small items for sale in online auctions, the Macro Arm Light is ideal for getting the lighting just right.

## **Micro Four Thirds Standard**

Micro Four Thirds was developed to maximise the performance potential of digital imaging technology. It allows users to enjoy the same high image quality as with the Four Thirds Standard's 4/3-type image sensor in a much more compact camera body. The Micro Four Thirds Standard allows the development and creation of ultra-compact digital camera systems with interchangeable lenses that are unlike anything seen before. It also incorporates a greater number of lens-mount electronic contacts to support new features and expanded system functionality in the future.

## **Multi-motion Movie IS (Image Stabilisation)**

When you're walking and capturing videos at the same time, blur can be a big problem. Not with Multi-motion Movie IS. This advanced image stabilisation technology counteracts blurring even with slow-moving subjects, long shots and pans. It's ideal for making dynamic, spontaneous movies when you're on the move – and invariably don't have a tripod.

## **Multi Aspect**

Lets photographers choose from a number of different aspect ratios so they can frame scenes individually and add expression to shots. The ratio selected shows up on the camera's LCD or electronic viewfinder. Depending on the camera, this feature offers some or all of the following ratios: 4:3, 3:2, 16:9 and 6:6.

## **Multi Exposure**

With this feature, RAW images can be overlapped to create one single picture while shooting or in Editing Mode.

## **Multi Recording**

The powerful TruePic VI image processor allows you to simultaneously capture high-resolution photographs while you are recording a Full HD movie. Unlike some rival versions of this technology, next-generation Multi Recording (2013 onwards) doesn't have to digitally pad out the images to achieve the desired resolution, giving you Full HD movies and full-sized photos up to 16 Megapixels – with absolutely no loss of image quality.

## **OLED**

Organic light-emitting diode displays emit light directly and offer significant advantages over LCDs: better power efficiency, deeper black levels, increased contrast, more realistic colours, wider viewing angles and improved brightness.

## **Olympus Image Share**

Free, downloadable Olympus software that enables you to easily edit and share your images wirelessly in social networks via your familiar smartphone and/or computer interface. Olympus Image Share interacts seamlessly with your existing network devices. See FlashAir™.

## **PENPAL**

A sleek Communication Unit for storing up to 2600 images and transferring them via wireless Bluetooth® to other Bluetooth®-enabled devices, such as a mobile phone, PC or even another PENPAL-equipped camera. From there it's easy to share them with friends in online communities or via e-mail.

## **Pet Detection**

Automatically detects dog or cat faces (two different modes) and works together with the Auto Release to capture the photo the moment the dog or cat turns to face the camera.

## **Photo Story**

The perfect feature when you want to share groups of photos with friends but don't have the time to arrange them on a computer. Photo Story lets you shoot stills straight into a choice of attractive, pre-prepared, collage-style layouts with different graphic arrangements and picture formats. For even more creative flexibility, you can apply an array of Magic Filters to the photos before you store them in the layout.

## **Photo with Movie Clip**

Make a VGA movie immediately before and after you take a photo, without having to pause to switch shooting modes. Essentially you get a still photo comprised of one frame of the movie, on top of the film. If you adjust the length of the video before you press the shutter release, you can choose between seven, five and or three seconds in length.

## **Photo Surfing**

By selecting this option in the Playback menu, users can opt to browse pictures by date, scene, person, place, or image collection.

## **Scene Mode**

Offers a choice of different scenes to suit the subject being captured, for example, landscape, night, beach and snow or pet. The camera automatically adjusts a host of parameters to achieve the best possible result for the chosen scene.

## **Shadow Adjustment Technology (SAT)**

A technology designed to improve exposure for pictures with dark areas. Using a sensor that works much like the human eye, dark parts of a composition (e.g., a shadow under a tree) are identified and the camera then adjusts the exposure settings accordingly for those areas. The result is a more realistic and detailed picture. **Advanced Shadow Adjustment Technology** harnesses the power of TruePic processors to adjust brightness and gradation, reducing picture noise in dark areas to create a natural looking photo.

## **Super Macro Zoom**

Pick this feature on the mode dial and effectively boost zoom magnification with no discernible loss of image quality – when shooting just 1cm from spectacular subjects like flowers and insects. Unlike comparable macro modes with a fixed focal length, Olympus' system lets you set focal lengths from 30 to 200mm\*. This means you can capture breathtaking microscopic detail with professional-looking effects like background blur.

## **Super-resolution Zoom**

A clever technology that effectively increases the power of your camera's optical zoom, with virtually no loss of image quality. Unlike digital zooms, which trade off image resolution and sharpness against zooming power, Olympus' Super-resolution zoom digitally extends the range of the optical zoom and uses frequency range analysis to counteract fuzzy edges. For example, it can boost a 12.5x optical zoom to 25x but still retain the clear outlines and low noise of an optically zoomed image.

## **Supersonic Wave Filter**

Dust entering digital cameras with interchangeable lenses can affect image quality. The Supersonic Wave Filter is a transparent filter located between the camera's shutter and sensor. It shakes off settled dust particles by generating a series of ultrasonic vibrations. Olympus was the first to incorporate dust protection.

## **Telephoto Macro**

This feature is ideal for taking macro shots in fabulous detail from upwards of 40cm from your subject – using a zoom setting equivalent to 600mm. At this distance, lens shadow is not a risk and there is much less chance of startling sensitive subjects like insects, or even people. You can capture a full range of shots using professional-looking angles and effects, from defocusing the background with a shallow depth of field to flash photography that freezes fast-moving objects.

## **TruePic image processing**

Exclusive to Olympus digital cameras, TruePic image processors are the engines that supply the power for a host of sophisticated imaging technologies. They automatically enhance important aspects of image quality, including colour reproduction (range, saturation and brightness) and picture sharpness (reduced image noise, improved edge reproduction), as well as ensuring fast data processing.

The TruePic range is constantly evolving. Thanks to the continuing innovation of Olympus engineers, TruePic delivers more power and quality with every new generation.

### **TruePic V image processor**

With the TruePic V Olympus released the first processor to support HD Movie recording and high sensitivity shooting at up to ISO 6400.

### **TruePic VI image processor**

Like the processors used in computers, TruePicVI is essentially two separate processors, with one half dedicated purely to image reproduction. It enables the camera to capture and process images faster, with higher quality and extremely high light sensitivity of up to ISO 12800. The extra power of TruePic VI supports Olympus' super-fast autofocus system FAST AF (Frequency Acceleration Technology Autofocus). It is also crucial for 1080i Full HD movies and additional on-camera Magic Filters, Art Filters and Art Filter Effects. What's more, it shortens recovery time and noticeably reduces noise. Colour range, saturation and detail are more impressive than ever before.

## **TruePic VII image processor**

This state-of-the-art image processing engine is especially designed for the latest generation of Olympus cameras and puts professional imaging potential in Olympus owners' hands. TruePic VII incorporates Fine Detail Technology II that adapts processing to the characteristics of individual lenses and aperture settings – for radiant, accurate stills and Full HD movies. TruePic VII has the processing power to get the very best out of high performance optics as well as Olympus' 16-Megapixel Live MOS sensor.

## **ZUIKO DIGITAL lens**

ZUIKO DIGITAL lenses, first developed for Olympus cameras in 1936, provide precision and quality for professionals and amateurs alike. The design of ZUIKO DIGITAL lenses exploits the full potential of the camera's digital image sensors, resulting in clear photos with strong colours and sharp contrasts, right to the edges of the image.

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