

SONY

DSC-TF1/R

Cyber-shot Digital Camera TF1

Bring on the water, cold and dirt with the rugged, little camera that's built to take everything—including great pics with 16.1 megapixels and a 4x optical zoom. Keep everything you shoot blur-free with Optical SteadyShot™ image stabilization and there's 720p HD movie mode to capture all of the action.



Key Features

Rugged for the Elements

This camera is just as much at home in the water as on a night on the town! The rugged and compact camera fits in your pocket or purse, yet is waterproof to a depth of 33 ft, shockproof from falls up to approximately 5 ft and dustproof thanks to its airtight construction. This durable camera can even withstand extreme weather conditions, as it is operable as low as 14 degree Fahrenheit⁵. Seamlessly shifting from underwater marvels to a night on the town, the TF1 always makes it easy to get the best shot!

16.1 Megapixel Plus 4x Zoom

A powerful 16.1 megapixel CCD image sensor helps you capture gorgeous images with superb contrast and clarity down to the finest detail. With 16.1 megapixels, you can create stunning, photo-quality prints up to A3+ (13x19") size, or crop your images and still come away with high resolution shots. The 4x zoom Sony® lens helps you get much closer to your subjects.

720p AVI Movie Mode

In 720p AVI (motion jpg) movie mode the camera shoots 1280 x 720 high definition movies at 30 fps.¹ Create high quality movies with full use of optical zoom in files small enough to transfer to compatible PC or Mac® computer. Once transferred to your computer and connected to the internet, you can effortlessly upload your media to popular photo and video-sharing websites such as Photobucket® and YouTube™.

Optical SteadyShot™ image Stabilization

Sony's Active Mode image stabilization gives you the freedom to shoot movies even while walking or running.

Sweep Panorama™ mode (up to 360°)

Reach beyond the traditional wide angle lens, and capture more breathtaking shots with Sweep Panorama™ mode. Simply press the shutter button and sweep the camera in the desired direction and the camera continuously shoots at a high speed, then seamlessly stitches the images together with automatic position adjustment to create one stunning panoramic image. Available in wide and up to 360° full circle, the camera can take a variety of panoramic shots. Now capturing wide landscapes is as easy as press and sweep.

Picture Effect for more expressive photos

Picture Effect adds a new level of expression to photos, making ordinary landscapes and portraits come to life by heightening mood and emphasizing certain attributes.

Beauty effects

Beauty Effects allows edits to skin tones, skin smoothing, shine removal, eye widening, and teeth whitening. Beauty Effects can be combined to further enhance the image.

Advanced Flash illuminates distant subjects

Advanced Flash allows you to shoot bright, beautifully lit photos. The built in flash reaches farther resulting in brighter subjects in dimly lit rooms or outdoors in the evening.

Intelligent Auto Mode

Unlike traditional auto mode, Intelligent Auto (iAuto) mode thinks for you, recognizing scenes, lighting conditions, faces, and adjusts settings resulting in clear images, faces with natural skin tone and less blur. Take advantage of all the technology without leaving Auto mode. Kids on the playground, landscape shots, a beautiful flower or an indoor birthday party; all result in clear images without leaving auto mode.

Face Detection technology

Face Detection technology detects up to eight individual faces and adjusts focus, exposure, and white balance to help deliver crisp, properly lit images of family and friends.

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Smile Shutter™ technology

Smile Shutter™ technology captures a smile the moment it happens. Simply press the Smile Shutter™ button and the camera does the rest. You can also select adult and child priority and indicate the degree of Smile Detection sensitivity. Intelligent Scene Recognition can now be used together with Smile Shutter™ mode when the Intelligent Auto mode is on. This means that beautiful smiles can be captured with settings optimized for the particular scene, even in difficult conditions such as twilight and backlighting.

2.7" (230K dots) Clear Photo™ LCD display

Generous 2.7" (230K dots) Clear Photo™ LCD display features sharp, natural color that makes it easy to compose shots, read menus, and view photos, even in bright sunlight.

Specifications

Camera	
Camera Type	Rugged compact digital camera
Imaging Sensor	
Imaging Sensor	1/2.3" Super HAD CCD Sensor
Pixel Gross	16.4MP
Effective Picture Resolution	16.1MP
Recording	
Media Type	optional Memory Stick Micro, Memory Stick Micro (Mark 2), microSD Memory Card, microSDHC Memory Card
Still Image Mode	JPEG
Still Image Max Effective Resolution	Approx. 16.1 Megapixels
Still Image Size 16:9	12M (4,608 x 2,592) / 2M (1,920 x 1,080)
Still Image Size 4:3	16M (4608 x 3456) / 10M (3648 x 2735) / 5M (2592 x 1944) / 4M (2304 x 1728) (Only when "Advanced Flash" is enabled) / VGA (640 x 480) / 12M (4608 x 2592)
Panorama Still Image Size	Sweep Panorama: 360 (11,520 x 1,080) / Wide (7,152 x 1,080 / 4,912 x 1,920) / Standard (4,912 x 1,080 / 3,424 x 1,920)
Video Format	AVI (Motion JPEG)
Video Mode	720 (1280 x 720) / VGA (640 x 480) / QVGA (320 x 240)
Microphone/Speaker	Mono / mono
Optics/Lens	
Lens Type	Sony
Aperture	f 3.6 - 4.7
Optical Zoom	4x
Digital Zoom	5x
Smart Zoom® Technology	10M: Approx. 5x / 5M: Approx. 7.1x / VGA: Approx. 28x / 2M: (16:9) Approx. 9.6x
Focal Length (35mm equivalent)	Still 4:3: 25-100mm / Movie 16:9: 27-108mm / 25-100mm / Still 16:9: 27-108mm
Lens Construction	12 elements in 10 groups (including 6 aspheric elements)
Minimum Focus Distance	iAuto: AF (W: Approx. 1cm (0.39") to Infinity, T: Approx. 50cm (1.64') to Infinity) / Program Auto: AF (W: Approx. 8cm (0.26') to Infinity, T: Approx. 50cm (1.64') to Infinity)
Aspheric Elements	6
Viewfinder	
Type	None
LCD Display	
LCD Type	2.7" Clear Photo™ LCD (460K dots)
Brightness Control	Auto / Manual / Sunny Weather
Grid Display	Yes (Off / On)
Focus Control	
AF Modes	Multi Point AF / Center Weighted AF / Tracking Focus / Face Tracking Focus
AF Illuminator	Auto / Off

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Exposure System	
Metering Modes	Multi Pattern / Center Weighted / Spot
Exposure Compensation	Plus / Minus 2.0EV, 1 / 3EV step
Scene Mode(s)	High Sensitivity / Soft snap / Soft Skin / Landscape / Night Portrait / Night Scene / Handheld Twilight / Gourmet / Beach / Snow / Underwater / Pet mode
D-Range Optimizer	Standard / Plus / Off
ISO	Auto / 100 / 200 / 400 / 800 / 1600 / 3200
White Balance Mode	Auto / Daylight / Cloudy / Fluorescent Cool White / Fluorescent Daylight / Incandescent / Flash / Underwater 1, 2
Drive System	
Self-timer	Off / 10sec. / 2sec. / portrait1 / portrait2
Shutter Speeds	iAuto (2- 1/2000) / Program Auto (2 - 1/2000)
Burst Mode	Approx 1 fps at 16.1MP (Maximum 100 shots)
Flash	
Flash Modes	Auto / Flash On / Slow Synchro / Flash Off / Advanced Flash
Flash Coverage	ISO Auto: Approx. 0.5m - 3.9m (Approx. 1feet 7 3/4 inches to 12feet 9 5/8 inches) (W) / Approx. 0.5m - 3.0 m (1feet 7 3/4 inches to 9feet 10 1/8 inches)(T), ISO3200: up to Approx. 8.0 m (Approx. 26feet 9inch)(W) / Approx. 6.0 m(20feet 3/4inches) (T)
Convenience Features	
Red-Eye Reduction	Auto / On / Off
Erase/Protect	Erase: Single / Select / Folder, Protect: Single / Select
Power Save Mode	Standard / Max / Off
Advanced Features	
Sweep Panorama	Sweep Panorama / Underwater Sweep Panorama / Sweep Panorama (360)
Face Detection	8 Faces
Smile Shutter™ technology	Yes
Image Stabilization	Optical SteadyShot™ Image Stabilization
In-Camera Editing	Trimming / Unsharp Masking
Intelligent Auto	Yes
Shooting Tips	Yes
Waterproof	Yes
Dustproof	Yes
Freezeproof	Yes
Shockproof	Yes
Tracking Focus	Off / Auto
Priority Setting (for Face Detection)	(Auto / Off / Child Priority / Adult Priority)
Interface	
Memory Card Slot	MS Micro, Memory Stick Micro (Mark 2) and Micro SD/Micro SDHC Compatible
SD Output	Composite
USB Port(s)	Multi (AV/USB), Hi-Speed USB (USB2.0)
Weights and Measurements	
Dimensions (Approx.)	W x H x D: 4 1/8" x 2 1/2" x 29/32" (102.4mm x 62.0mm x 22.7mm)
Weight (Approx.)	5.4oz. (152g)
Weight(Approx) (Main unit only)	3.5 oz. (98g)
Power	
Battery Type	LITHIUM ION NP-BN 3.6V
Battery Capacity	typical: 2.3Wh (630mAh), minimum: 2.2Wh (600mAh)
Power Consumption (In Operation)	Approx. 1.3W
Power Requirements	AC 100V to 240V, 50/60 Hz, 70mAh



Accessories

Supplied Accessories

Battery (NP-BN)
AC Adaptor (ACUP10C)
Multi USB Cable
Wrist Strap
Instruction Manual

1. Records in 29 minute segments

2. Dustproof certified to IEC 60529 IP5X standard, shock-proof certified to MIL-STD-810F Method 516.5 Shock, can operate in temperatures between 14 degrees Fahrenheit (-10 degrees Celsius) and 104-degrees Fahrenheit (40 degrees Celsius).

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