



LEICA S-E (TYP 006)

Technical data.



Camera type:	Digital medium-format single-lens reflex camera for use with Leica S-Lenses
Image sensor	
Type:	Low-noise CCD sensor with micro-lenses and micro-lens shift
Dimensions:	30 × 45 mm (Leica Pro Format)
Aspect ratio:	2:3
Resolution:	37.5 megapixels
Pixel pitch:	6 µm
Dynamic range:	12 stops
Colour depth:	16 bits per pixel
Colour spaces:	sRGB/Adobe RGB/ECI RGB 2.0
White balance:	Presets: daylight, cloudy, shade, incandescent, HMI, fluorescent warm, fluorescent cool, flash, grey card (determined from image), automatic, colour temperature (kelvin)
Low-pass filter/IR filter:	No/on sensor
Moire suppression:	In external image-processing software
Lenses	
Lens mount:	Leica S bayonet for Leica S-Lenses
Focal length:	Dependent on Leica S-Lens attached, conversion factor to 35 mm film equivalent 0.8×
Focusing	
Type:	Predictive AF with centre cross sensor defined by cross hairs on the focusing screen, focusing drive integrated in lenses
AF modes:	Selectable modes AFs (single) = focus priority, AFc (continuous) = predictive focus tracking, MF (manual), manual override of AF settings is possible at all times
AF memory:	Second resistance point hold on shutter release, lock for single exposure or constant by setting with five-way switch
Manual focus:	With lens focusing ring
Exposure setting	
Exposure metering:	Exposure metering through the lens (TTL)
Metering modes:	Multi-segment metering (five fields), centre-weighted integral metering, selective (spot) metering (3.5% of image frame)

AE lock:	Second resistance point hold on shutter release, lock for single exposure or constant by setting with five-way switch
Metering range (at f/2.5 and ISO 100):	Spot metering: EV 2.7–20, centre-weighted and multi-segment metering: EV 1.2–20
Exposure control:	Programme AE (with shift function) (P), shutter priority AE (T), aperture priority AE (A), manual metering (M)
Exposure compensation:	±3 EV in half-stop increments
Bracketing (AEB):	Three/five exposures (automatic/manual), half, one, two and three stop increments
ISO sensitivity:	ISO 100, ISO 200, ISO 400, ISO 800, ISO 1600, Auto ISO

Shutter

Type:	In-camera: microprocessor-controlled, metal blade, vertical focal plane shutter
Shutter speeds:	Manual setting (T and M modes): 6 s to 1/4000 s in half-stop increments, time exposure (B mode): up to max. 125 s, flash sync speed 1/125 s, automatic (A and P modes): continuous from 32 s to 1/4000 s
CS shutter option:	Optional central shutter in Leica S-Lenses (CS versions)
CS shutter speeds:	Manual setting (T and M modes): 6 s to 1/1000 s in half-stop increments, flash sync at all speeds, automatic (A and P modes): continuous from 8 s to 1/1000 s
Linear flash mode:	Faster sync speeds than 1/125 s are possible with the Leica SF58 flash unit and HSS-capable SCA3002 flash units
Continuous shooting:	Approx. 1.5 fps
Shutter release:	Three stages
Self-timer:	Choice of two- or 12-second delay
Mirror pre-release:	Yes

Viewfinder

Type:	High-eye-point pentaprism
Magnification:	0.87× (with 70 mm lens at infinity)
Viewfinder coverage:	Approx. 98%
Dioptre compensation:	–3 to +1 dioptres
Focusing screen:	Interchangeable

Displays

Top-deck display:	Full-colour, self-illuminating, top-deck panel (OLED)
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Monitor: 3" TFT LCD monitor with 921,600 pixels, 16 million colours, sRGB colour space, image field approx. 100%, maximum oblique viewing angle 170°

Protective cover: Anti-glare dirt-repellent protective glass cover in scratch-resistant Corning Gorilla Glass®

Flash

Mount: Hot shoe with centre and control contacts, LEMO® or standard flash connection sockets

Metering mode: TTL (multi-segment, selective, centre-weighted)

Compatibility: Full compatibility with Leica SF58 and flash units with SCA3002 adapters

X synchronisation: 1/125 s, 1/1000 s (lens CS), sync at all slower speeds, choice of first or second curtain sync; FPS flash sync at faster shutter speeds (1/180 s to 1/4000 s) possible with suitably equipped flash units (HSS mode)

Flash reflector angle: Automatic adaptation to focal length of lens attached with Leica SF58 flash unit or system-compatible flash units with motorised zoom reflector

Exposure

Exposure modes: Single frame, continuous, self-timer 2 s (with mirror pre-release), self-timer 12 s (with mirror pre-release)

Data recording

Image file formats: DNG (5000 × 7500 pixels, 37.5 megapixels, approx. 72 MB per image), lossless compressed DNG (7500 × 5000 pixels, approx. 42 MB per image), JPEG (7500 × 5000 pixels, in three resolutions, 37.5, 9.3, 2.3 megapixels, approx. 1–16 MB per image, depending on resolution and image content)

Maximum burst rate: 1.5 fps

Buffer memory: DNG max. 28 images, DNG compressed max. 32 images, JPEG no limit

Simultaneous capture option for DNG and JPG: Yes

Storage options: SD card (SD cards to 2 GB max., SDHC card to 32 GB max., SDXC card), CompactFlash card (UDMA7), external transfer to PC hard disk

Other functions

Menu languages:	English, German, French, Italian, Spanish, Russian, Japanese, traditional Chinese, simplified Chinese, Korean
Firmware update:	User upload option
GPS:	Selectable (may not be available in all countries due to local legislation); forced deactivation possible, positioning data is recorded in the Exif data of image files
Date/time:	User setting option, automatic date, time and time zone synchronisation with activated GPS module
Levelling:	Determination by acceleration sensor, accuracy and display sensitivity <math><1^\circ</math> at 0–40°C (32–104°F) ambient temperature

Interfaces

PC:	ISO hot shoe, LEMO [®] USB 2.0 HiSpeed
Other:	HDMI type C socket, remote release, X-flash sync, SCA3002, LEMO [®] flash connection socket, interface for Leica multifunctional handgrip S
Supported operating systems:	Windows XP [®] , Windows Vista [®] , Windows 7 [®] , Apple Macintosh Mac OS X [®] 10.5 and higher

Power supply

Battery:	Rechargeable lithium-ion battery, nominal voltage 7.4 V, capacity 2 100 mAh
Battery-independent power supply:	With Leica AC adapter S (optional accessory)
Power-saving option (sleep function):	Four settings: 2 min., 5 min., 10 min. and off
Power supply and battery charger:	Rapid charger S (with integrated US mains plug, interchangeable plugs for EU, UK and Australia and car adapter) Inputs: 100–240 V AC, 50/60 Hz, automatic toggle, or 12/24 V DC; output: 7.4 V DC, 1250 mA

Body

Body construction:	Full-metal chassis in die-cast magnesium alloy with high-grip plastic coating, anthracite grey magnesium alloy top deck, baseplate in fibreglass-reinforced polycarbonate
Operating conditions:	0 to +45 °C (32 to 113 °F), 15–80% relative humidity
Dimensions (W × H × D):	160 × 80 × 120 mm
Weight:	Approx. 1260 g (body only, with battery)
Dust-proof/splash-proof:	Yes/yes
Tripod bushes:	1/4" and 3/8" with anti-twist locking pins

Package

Package contents:	S body, rapid charger S (with integrated US mains plug, interchangeable plugs for EU, UK and Australia and car adapter), rechargeable lithium-ion battery, carrying strap, bayonet body cap, eyepiece cap
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Accessories (optional)

Flash:	Leica SF58, Leica SF58 diffuser
Other:	Leica multifunctional handgrip S, Leica hand strap S, professional charger S, Leica AC adapter S, Leica case S, Leica HDMI cable, Leica grid focusing screen S, Leica microprism focusing screen S, Leica standard focusing screen S, Leica remote-release cable S, Leica S-Adapter C/H/V/M645/P67, LEMO [®] USB cable, LEMO [®] flash sync cable

Service packages

Packages:	Leica Protection Plan Body (optional) Leica Protection Plan Lens (optional), Leica Protection Plan Vario Lens (optional), Leica Protection Plan CS Lens (optional)
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