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Dorland Intrinsically Safe Digital Smart-Camera with circuit protection control

Ex Camera R8

Beijing Dorland System Control Technology Co., Ltd. has recently launched the Intrinsically Safe Digital Smart-Camera with circuit protection control Ex Camera R8, which uses a 24-105mm lens and a new RF mount independently developed by Canon. The optical design is more flexible and easy to achieve high image quality. Approximately 4.4x zoom, covering commonly used focal lengths for daily photography, making it easy to take close-up shots and achieve personalized photo effects. The IS image stabilizer equipped with a maximum shutter speed equivalent to about 5 levels provides strong support for shooting.

In addition, it is also suitable for outdoor construction, pipeline inspection, etc. It can be used in conjunction with various applications such as OA office systems, inspection positioning systems, data collection systems, etc. Especially suitable for harsh environments with hazardous explosions, such as petroleum, chemical, pharmaceutical, oil depots, tank farms, and other hazardous areas with flammable and explosive gases, facilitating timely communication between users, production, and scheduling.

Ex-Marking: Ex ib IIC T4 Gb
Certificate No.: SYEx25.1159

Feature:

- Full frame 4.4x standard zoom lens, RF24-105mm F4-7.1 IS STM
- The lens is equipped with a strong and effective optical hand shake compensation mechanism, with a hand shake compensation effect of about 5 levels
- WiFi 4K video, high-speed continuous shooting, 5-axis stabilization
- Support rotating screen and flipping screen
- Up to approximately 24.2 million effective pixels, with new sharpness processing and resolution surpassing EOS RP
- 3-inch LCD display screen
- Up to 40 frames per second high-speed continuous shooting
- Second generation full pixel dual core autofocus
- Supporting APP, supporting installation on IOS and Android systems
- Detectable subjects include "people," "animals," "airplanes," "trains," "motorcycles," and "racing cars

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Certificate parameters		
Ex-Marking		Ex ib IIC T4 Gb
Certificate NO.		SYEx25.1159
Specification parameters		
Type	Type	Single lens mirrorless digital camera with autofocus/auto exposure
	Recording media	Single card slot, SD/SDHC/SDMC memory card (compatible with UHS-II memory card)
	Image sensor size	Approximately 36 x 24 millimeters
RF24-105mm F4-7.1 IS STM Lens	Focal length	24-105mm
	Lens structure	11 groups of 13 pieces
	Aperture blades	7 pieces (circular aperture)
	Minimum aperture	22-40 (adjusted in units of 113 levels), 22-38 (adjusted in units of 1/2 levels)
	The closest focusing distance	Wide angle end: about 0.2 meters (about 0.13 meters when manually focusing), telephoto end: about 0.34 meters
	Maximum magnification	Auto focus: about 0.4 times (at 105mm), manual focus: about 0.5 times (at 24mm)
	Drive system	STM+lead screw type unit
	Hand shake compensation effect	Level 5 (based on CIPA testing standards, 105mm focal length end, when using EOS R)
	Filter diameter	67 millimeters
	Maximum diameter and length	Approximately 76.6x88.8mm
	Weight	About 395 grams
	Standard Accessories	Lens cover E-67 II, lens back cover RF
Image sensor	Type	CMOS image sensor (supporting full pixel dual core CMOS AF)
	Effective pixels	Approximately 24.2 million pixels
		Round to 100000 places
	aspect ratio	‘3:2
	Dust removal function	Automatically add dust removal data

Recording system	Record format	Compatible with Camera File System Design Rule 2.0 and Exif 2.31
		※ Supports time difference information
	image type	JPEG (8-bit), HEIF (10 bit), RAW (14 bit, Canon original), can simultaneously record RAW+JPEG or RAW+HEIF
	Record pixels	L (large): about 24 million pixels (6000 × 4000), M (medium): about 10.6 million pixels (3984 × 2656), S1 (small 1): about 5.9 million pixels (2976 × 1984), S2 (small 2): about 3.8 million pixels (2400 × 1600), RAW/C-RAW: about 24 million pixels (6000 × 4000)
		Round to 100000 places
	Full pixel dual core RAW	possess
	Recording function	Photos and short films
	Create/Select Folder	possess
	filename	Preset code
	File Number	Continuous numbering, automatic reset, manual reset
Image processing during shooting	photo style	Automatic, standard, portrait, scenery, exquisite details, neutral, reliable settings, monochrome, user-defined 1-3
	white balance	Automatic (atmosphere priority), automatic (white priority), preset (daylight, shadow, cloudy, tungsten filament lamp, white fluorescent lamp, flash), user-defined, color temperature (about 2500-10000K), with white balance correction and white balance surround exposure functions
		※ Supports transmission of flash color temperature information
	White balance correction	Blue/amber direction: ± 9 level, magenta/green direction: ± 9 level
	White balance surround exposure	Adjust in units of 1 level between ± 3 levels
	Automatic image brightness correction	Automatic brightness optimization
	noise reduction	Can be applied to long-term exposure and high ISO sensitivity shooting
	Highlight Tone Priority	possess
	Lens aberration correction	Peripheral light correction, distortion correction, focus breathing correction, digital lens optimization, color difference correction, diffraction correction

		※ Some lens distortion correction cannot be turned off
Viewfinder	type	OLED color electronic viewfinder
	Monitor size and number of points	About 10 millimeters, about 2.36 million points
	Field of view	Vertical/horizontal direction is approximately 100%
	magnification	About 0.70 times (-1m-1, aspect ratio 3:2, using a 50mm lens to focus on infinity)
	Eye point	Approximately 22 millimeters (-1 m-1 from the end of the eyepiece lens)
	Range of dioptre adjustment	About -4.0 to+1.0m-1 (dpt)
	brightness adjustment	Automatic/Manual (Level 5)
	Color tone adjustment	lack
	Fine tuning of color tone	Blue/amber direction: ± 2 levels, magenta/green direction: ± 2 levels
	Depth of Field Preview	possess
	Optical viewfinder for simulating view assistance	possess
Autofocus	Autofocus type	Dual Pixel CMOS AF Phase Difference Detection Method
	Auto focus area	Fixed point autofocus, single point autofocus, extended autofocus area (up, down, left, right), extended autofocus area (around), flexible area autofocus 1, flexible area autofocus 2, flexible area autofocus 3, entire area autofocus
	Available autofocus points	Up to 4897
	The available autofocus area during automatic selection	Maximum 1053 zones
	Touch and drag autofocus	possess
	zoom in	Can be confirmed with approximately 5x and 10x magnification

	Focusing coverage range	When a subject is detected: approximately 100% in length and 100% in width; when no subject is detected: approximately 90% in length and 100% in width
		※ Depending on the settings of the lens and aspect ratio, the focus coverage may vary
	Manual Focus (MF)	Equipped with manual focus peak value display and focus guide
	[Still Image Shooting]	
	Auto focus operation	Single autofocus, servo autofocus, artificial intelligence autofocus
	Subject detection	Capable of (automatic, human, animal, vehicle)
	Eye detection	Capable of detecting people and animals, automatic, right eye, left eye
	Preview autofocus (continuous autofocus)	possess
	Focus brightness range	EV-6.5~21 (using F1.2 lens, central autofocus point, 23 ℃) ISO 100、Single autofocus)
		Excluding RF lenses coated with DS (Smooth Defocus) coating
	Auto focus configuration tool	CASE1～4、CASE AUTO
	Servo autofocus characteristics	Tracking sensitivity, acceleration/deceleration tracking
	Autofocus assist light	possess
	[Short film shooting]	
	Focus brightness range	EV-4.5~21 (using F1.2 lens, central autofocus point, 23 ℃) ISO 100、Single autofocus, Full HD 29.97 frames per second
		Excluding RF lenses coated with DS (Smooth Defocus) coating
	Movie Servo AF	possess
	Short film servo autofocus feature	Tracking sensitivity, autofocus speed
Exposure control	Metering Mode	Real time metering using an image sensor, 384 partition (24 × 16) metering
	Metering mode	Still image shooting: evaluation metering (linked with all autofocus points), local metering (about 5.9% of the screen center area), spot metering (about 3% of the screen center area), center focus average

		metering. Short film shooting: using an image sensor for center focus average metering or evaluation metering
		※ Automatically set according to the focusing method
	Light metering brightness range	Still image shooting: EV-3~20 (23 ℃ ISO 100）； Short film shooting: EV-1~20 (23 ℃ ISO 100）
	Shooting Mode	Still image shooting: scene intelligent automatic, hybrid automatic, special scene modes (portrait, group photo, scenery, panoramic shooting, sports, children, pan, macro, food, night portrait, handheld night view, HDR backlight control, silent shutter), creative filter modes (granular black and white, soft focus, fisheye effect, watercolor effect, toy camera effect, miniature landscape effect, HDR standard painting style) HDR bold painting style, HDR oil painting style, HDR relief painting style, flexible priority automatic exposure, program automatic exposure, shutter priority automatic exposure, aperture priority automatic exposure, manual exposure, B-door exposure, custom shooting modes (C1, C2) Short film shooting: scene intelligent automatic, HDR short film, creative filter short film (dreamy, nostalgic, nostalgic, black and white distinct, miniature landscape), short film automatic exposure, shutter priority automatic exposure, aperture priority automatic exposure, manual exposure, custom shooting modes (C1, C2)
	ISO sensitivity (recommended exposure index)	Still image shooting: manually set within the ISO 100-102400 range (in 1/3 or whole level units), expandable to L (equivalent to ISO 50), H (equivalent to ISO 204800)
		When highlight color priority is enabled, it is ISO 200-102400. Unable to set extended ISO sensitivity during HDR mode or HDR PQ shooting for short film shooting: manually set within the ISO 100-25600 range (in 1/3 units), expandable to H (equivalent to ISO 32000-102400)
		When highlight color priority is enabled, it is ISO 200-25600. When opening Canon Log 3, manually set it within the range of ISO 800 to 25600 (in 1/3 units), which can be extended to L (equivalent to ISO 100 to 640) and H (equivalent to ISO 32000 to 102400).
		When shooting HDR short films, HDR PQ short films, creative filter short films, and digital zoom, the extended ISO sensitivity cannot be set.
	ISO sensitivity setting	Still image shooting: ISO sensitivity range, automatic range, minimum shutter speed Short film shooting: ISO sensitivity range, automatic upper limit
	Exposure compensation	Manual: Adjust in units of 1/2 or 1/3 between ± 3 levels, Auto Exposure: Adjust in units of 1/2 or 1/3 between ± 3 levels (can be combined with manual exposure compensation)
	Automatic	Automatic exposure lock

	exposure lock	
	Anti flicker shooting	Available for capturing still images
	High frequency anti flicker shooting	possess
Multiple exposures	Multiple exposure times	2-9 exposures
	Multiple exposure control	Addition, averaging, brightness, darkness
HDR shooting (HDR PQ)	Record format	Still image: HEIF, short film: MP4
	bit depth	10 people
	Color sampling method	YCbCr 4:2:2
	HDR specifications	ITU-R BT.2100（PQ）
Shutter	type	Electronic control focal plane shutter/rolling shutter, using image sensor
	Shutter mode	Electronic front curtain shutter, electronic shutter
	Shutter speed	Electronic front curtain shutter: 1/4000~30 seconds, B door; Electronic shutter: 1/16000 seconds, 1/8000 to 30 seconds, B-gate (shutter speed of 1/16000 seconds is limited to Tv and M modes only, with a maximum shutter speed of 1/8000 seconds for high-speed continuous shooting+, RAW continuous shooting, HDR mode, focusing surround or changing aperture to maintain exposure), electronic front curtain shutter flash synchronization speed: 1/200 seconds, electronic shutter cannot perform flash synchronization
		The setting range during short film shooting varies
	Silent Shutter Shutter	possess
Hand shake compensation mechanism	Anti shake of the body	lack
	Automatic horizontal calibration	lack

Drive system	Drive mode	Single shot, high-speed continuous shooting+, high-speed continuous shooting, low-speed continuous shooting, selfie timer: 10 seconds, selfie timer: 2 seconds, selfie timer: continuous shooting
	Burst speed	High speed continuous shooting+: up to about 40 frames per second (electronic shutter), up to about 6 frames per second (electronic front curtain shutter) High speed continuous shooting: up to about 20 frames per second (electronic shutter), up to about 6 frames per second (electronic front curtain shutter) Low speed continuous shooting: up to about 5 frames per second (electronic shutter), up to about 3 frames per second (electronic front curtain shutter)
		When using the flash, automatic exposure, flash exposure, and white balance are fixed as the first image. When enabling full pixel dual core RAW, only low-speed continuous shooting can be used. The maximum continuous shooting speed may be reduced due to factors such as shutter speed, aperture value, aperture status during continuous shooting, flash shooting, detection of flickering light sources in the environment, battery type, battery level, temperature, use of built-in WiFi, subject, lighting conditions (such as shooting in dim scenes), lens type, and internal cache full (temporarily unable to shoot).
		If the camera detects flickering light sources in the shooting environment, even if the anti flicker function is turned off, the continuous shooting speed of the camera will decrease.
	Maximum number of photos taken	Electronic front curtain shutter (high-speed continuous shooting+):
		JPEG large: about 1000 images (over 1000 images);
		HEIF large: about 1000 sheets (over 1000 sheets);
		RAW: Approximately 85 images (approximately 1000 images);
		C-RAW: Approximately 1000 sheets (over 1000 sheets);
		RAW+JPEG large: about 70 images (about 570 images);
		C-RAW+JPEG large: about 180 images (about 1000 images);
		RAW+HEIF large: about 69 sheets (about 87 sheets);
		C-RAW+HEIF large: about 140 sheets (about 170 sheets)
		Electronic shutter (high-speed continuous shooting+):
		JPEG large: about 120 images (more than 120 images);
		HEIF large: about 120 sheets (more than 120 sheets);
		RAW: Approximately 51 images (approximately 56 images);
		C-RAW: Approximately 98 sheets (over 100 sheets);
		RAW+JPEG large: about 50 images (about 54 images);
		C-RAW+JPEG large: about 89 images (about 100 images);
		RAW+HEIF large: about 35 sheets (about 42 sheets);

		C-RAW+HEIF large: about 89 sheets (about 100 sheets)
		The values are based on measurements taken using a 32GB SD memory card with UHS-I specifications that comply with Canon testing standards. The values in parentheses were measured based on Canon's UHS-II 32GB SD memory card testing standards. HDR PQ is turned off for RAW, JPEG, and RAW+JPEG, and turned on for HEIF and RAW+HEIF.
		Test conditions: Single use autofocus and high-speed continuous shooting with electronic front curtain shutter ISO 100、 Standard photo style.
		The maximum number of photos taken varies depending on the shooting conditions (aspect ratio, JPEG/HEIF image quality, subject, memory card brand, ISO sensitivity, photo style, customization function, etc.).
Fill light (optional)	Feature	Color rendering index: ≥ 85%
		Three levels of white temperature
		Color temperature: 5600K
		Comes with three double deer AAA Blue Knight zinc manganese batteries (DC1.5V, 400mAh)
Short film shooting function	Record format	MP4
	Short film format	H. 265/HEVC (Canon Log 3 on, or HDR PQ on); H. 264/PEG-4 AVC (Canon Log 3 level, HDR PQ level)
	Video signal recording dynamics	Full Dynamic 0-255 (Canon Log 3 off, HDR PQ off), Full Dynamic 0-1023 (HDR PQ on), Full Dynamic 128-1020 (Canon Log 3 on)
	Color sampling method	YCbCr 4:2:0/8-bit (Canon Log 3 off, HDR PQ off), YCbCr 4:2:2/10 bit (Canon Log 3 on or HDR PQ on)
	Color Space	Rec.ITU-R BT.709 (Canon Log off, HDR PQ off), Rec.ITU-R BT.2100 (HDR PQ on), Rec.709/Rec.2020/Cinema Gamut (Canon Log 3 on)
	Audio format	IPB: AAC (via C.Fn4: audio compression)/linear PCM, IPB (lightweight): AAC
	Record size	4K UHD (3840 × 2160), Full HD (1920 × 1080)
	Frame rate	In NTSC system: 179.82P/119.88P/59.94P/29.97P/23.98P, in PAL system: 150P/100P/50P/25P
		179.82P/150P/119.88P/100P is a full HD high frame rate short film
	Compression method	ALL-I (for editing), IPB, IPB (light)

	Bit rate/memory card performance (write/read speed)	When shooting 8-bit videos (Canon Log 3 off, HDR PQ off): 4K UHD (59.94P/50P)/IPB: approximately 230Mbps/UHS speed level U3 or faster; 4K UHD (59.94P/50P)/IPB (light): approximately 120Mbps/UHS speed level U3 or faster; 4K UHD (29.97P/25P/23.98P)/IPB: Approximately 120Mbps/UHS speed level U3 or faster; 4K UHD (29.97P/25P/23.98P)/IPB (light): about 60Mbps/speed level C10 or faster; 4K UHD Delay Short Film (29.97P/25P)/ALL-I: Approximately 470Mbps/Memory card with a speed higher than 60MB per second; Full HD (179.82P/150P)/IPB: Approximately 180Mbps/UHS speed level U3 or faster; Full HD (179.82P/150P)/IPB (light): approximately 105Mbps/UHS speed level U3 or faster; Full HD (119.88P/100P)/IPB: Approximately 120Mbps/UHS speed level U3 or faster; Full HD (119.88P/100P)/IPB (light): about 70Mbps/speed level C10 or faster; Full HD (59.94P/50P)/IPB: approximately 60Mbps/speed level C10 or faster; Full HD (59.94P/50P)/IPB (light): approximately 35Mbps/speed level C6 or faster; Full HD (29.97P/25P/23.98P)/IPB: approximately 30Mbps/speed level C6 or faster; Full HD (29.97P/25P/23.98P)/IPB (light): approximately 12Mbps/speed level C4 or faster; Full HD Delay Short Film (29.97P/25P)/ALL-I: Approximately 90Mbps/Memory card with a speed higher than 30MB per second;
	Time code	possess
	Recording	Built in stereo microphone, with external stereo microphone terminal, adjustable recording level, wind noise suppression function, attenuator function, audio noise reduction
	Earphones	Equipped with headphone terminals, adjustable headphone volume and monitoring capabilities
	Short film digital IS	possess
	Canon Log	Canon Log 3
	Still image shooting	Not available during short film shooting
	HDMI output	Supports 4K output, automatic/1080P optional
	Shutter type	Roller shutter, using image sensor
	Shutter speed	P/Av mode: 1/8000~1/25 seconds Tv/M mode: 1/8000~1/8 seconds
		The lower limit of shutter speed varies depending on the frame rate
LCD monitor	Type	TFT color LCD monitor
	Monitor size and number of points	About 75 millimeters (3:2), about 1.62 million points
	Field of view	Vertical/horizontal approximately 100% (when recording image quality is L and aspect ratio is 3:2)

	Angle adjustment	Opening angle: about 0-175 °, rotation angle: about 0-90 ° forward/about 0-180 ° backward
	Brightness adjustment	Manual (Level 7)
	Color tone adjustment	lack
	Display performance	Energy saving and smooth operation
	Interface language	29 types (including Simplified Chinese)
	Touch screen	capacitive
Playback	Image display format	No shooting information, basic information, detailed information, index display (4/9/36/100 images)
	Highlight warning	Overexposed highlight areas flicker
	Automatic focus point display	possess
	Grid line display	3 types
	zoom in	About 1.5 to 10 times (adjustable at level 15)
	image retrieval	Can set search criteria (rating, date, folder, protection, file type)
	Image browsing method	1 image, 10 images, specified number of images, shooting date, folder, short film, still image, protection, rating, first image of the scene
	image rotation	possess
	Image Protection	possess
	rating	possess
	Short film replay	possess
	Short film editing	possess
	4K single frame capture	The captured frames can be saved as JPEG images (frames captured from HDR PQ short films can be saved as HEIF images)
		The image quality of captured frames may differ from that of directly captured still images
	slide show	possess
	HEIF image to JPEG image conversion	possess
	RAW image processing	Capable of (RAW)

	within the camera	
	adjust size	possess
	cut	possess
	DPOF	Compatible with version 1.1
Network function	**[WiFi]**	
	standard	IEEE 802.11b/g/n
	transmission method	DS-SS modulation (IEEE 802.11b), OFDM modulation (IEEE 802.11g/n)
	Transmission frequency (central frequency)	2.4GHz: frequency 2412-2462MHz/channel 1-11ch
	connection method	Camera access point mode, infrastructure (supports WiFi protection settings)
	Safety	Authentication methods: open, shared key WPA、WPA2、WPA3-Personal, Encryption: WEP, TKIP, and AES
	Connectable devices/services	Smartphone, computer, Canon image upload
	[Bluetooth]	
	standard	Compliant with Bluetooth specification version 4.2 (Bluetooth low-power technology)
	transmission method	GFSK modulation
	Connectable devices	Smartphones, wireless remote controls
Custom Function	Custom Function	21 types
	Custom Speed Control	possess
	Save camera settings	lack
	Custom shooting mode	Register in C1 and C2 modes
	My menu	Can register on 5 pages
	Copyright Information	Can input and include this information
	IPTC Information	Lack

Interface	Digital terminal	SuperSpeed Plus USB（USB 3.2 Gen 2）, Interface type: Type-C, used for computer, smartphone communication, and charging or powering the camera's internal battery through the USB power adapter PD-E2
	HDMI output terminal	HDMI Mini Terminal (D-type)
	External microphone input	3.5mm diameter stereo micro jack, connected to Canon directional stereo microphone DM-E100 or commercially available external microphone
	Earphone terminal	3.5mm diameter stereo micro jack
	Remote control terminal	Used for shutter line RS-60E3
	wireless remote control	Wireless remote control BR-E1 (Bluetooth connection)
Power	Battery	Battery LP-E17 (1 piece)
		Host: 720mAh, 7.6V
		※ AC power can be used through household power socket accessories
		※ The lithium battery LP-E17 inside the camera can be charged or powered through the USB power adapter PD-E2
	Battery Information	Type of power supply, remaining battery capacity, charging performance
	Battery shooting capability	Using an electronic viewfinder: At 23 ℃, there are approximately 220 images in the power mode and 150 images in the smooth mode; Using the LCD monitor on the back: At 23 ℃, there are approximately 370 cards in battery mode and 290 cards in smooth mode
		※ Use a fully charged new battery LP-E17 and do not use multifunctional boot accessories
	Short film shooting time	Shoot 4K for about 40 minutes and Full HD for about 2 hours at 23 ℃
		Using a fully charged new battery LP-E17, without servo focusing or cutting
Appearance	Dimensions	Approximately 132.5 × 86.1 × 70 millimeters
	Weight	Approximately 461 grams (including battery and memory card)/Approximately 414 grams (body only)
Operating environment	Working temperature range	-20℃～+50℃
	Working humidity range	85% or less

Explosion-proof electrical apparatus

Conformity certificate of Explosion-proof

Certificate No. SYEx25.1159

Manufacturer	Beijing Dorland System Control Technology Co., Ltd.
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Factory	Beijing Dorland System Control Technology Co., Ltd.
Address	11-A1, 10th Floor, Building 2, Yard 1, Wangzhuang Road, Haidian District, Beijing
Name of product	Intrinsically Safe Digital Smart-Camera with circuit protection control
Type specification	Ex Camera R8
Ex-marking	Ex ib IIC T4 Gb
Product standards	Q/DL 001-2025 Drawing No. Ex Camera R8-00
Note	1. The host is powered by two 523036 lithium batteries (DC3.8V, 720mAh) connected in series, and the batteries are integrated with the protective board; The fill light is powered by three sonluk AAA Blue Knight zinc manganese batteries (DC1.5V, 400mAh) connected in series, and the batteries are integrated with the circuit seal. 2. It is strictly prohibited to charge, disassemble, or use sockets in hazardous areas. 3. Rated voltage:DC7.6V.

According to the above examination of product designs drawings and technical documents, and sample inspection, it has been confirmed that the following standards are met:

GB/T 3836.1-2021 Explosive atmospheres-Part 1: Equipment - General Requirements
GB/T 3836.4-2021 Explosive atmospheres-Part 4: Equipment protection by intrinsic safety "i"

Approved by 由锋

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Note: This certificate is valid only for products which are in agreement with the review and approval documents and samples.