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## THE CANON GROUP

Canon has been a leading name in imaging for over 80 years and a truly global brand with manufacturing facilities across Japan, the Americas, Europe, Asia and Oceania. The company's imaging technology reaches into areas such as satellite development, medical advancements, smart cities, astronomy and print and industrial equipment.

In addition to class-leading consumer, business and industrial imaging solutions, Canon deploys its expertise as a leading global brand to deliver exceptional after-sales service, either directly or via Canon Group companies.



## CANON GROUP COMPANIES

Highly specialist solutions providers are a key part of the Canon Group. These Canon Group Companies are dedicated to delivering leading innovations that complement the Canon system.



#### Milestone (Aquired 2014)

A world-leading provider of open platform IP video management software (VMS), dedicated to deliver platform software for integration into video solutions for security and beyond.

More information: milestonesys.com



#### Axis (Aquired 2015)

The market leader in network video and innovator in video surveillance, increasing the security of millions and meeting the need for a smarter, safer world.

More information: axis.com



#### Arcules (Launched 2017 as Arcus)

A video cloud IoT-as-a-service offering for enterprise businesses. Combining IoT and video data, to reinvent the video surveillance industry thanks to cloud and Al technologies.

More information: arcules.com



#### **BriefCam (Aquired 2018)**

The industry's leading provider of Video Synopsis® solutions. BriefCam's technology detects, tracks, extracts and identifies people, objects, their attributes and behaviour from video.

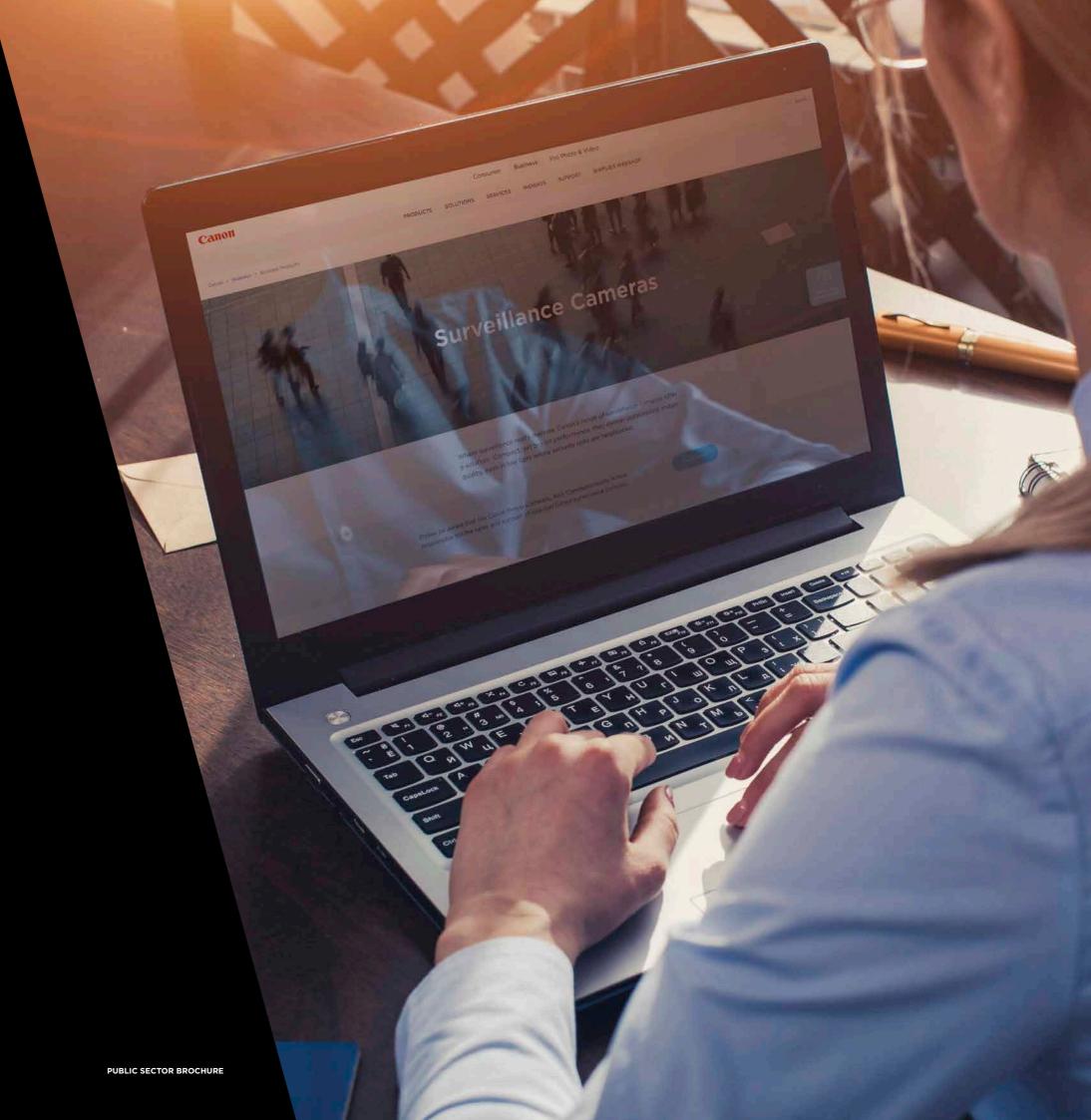
More information: briefcam.com

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## CANON'S PURPOSE

Behind Canon's 80-year history lies its corporate DNA: technology and the enterprising spirit that has endured since its foundation. The relentless drive to innovate through technology permeates the company and continues to provide customers with new advances.

With a respect for humanity, encompassing meritocracy and an emphasis on good health, Canon is committed to future generations of growth and technological advances.

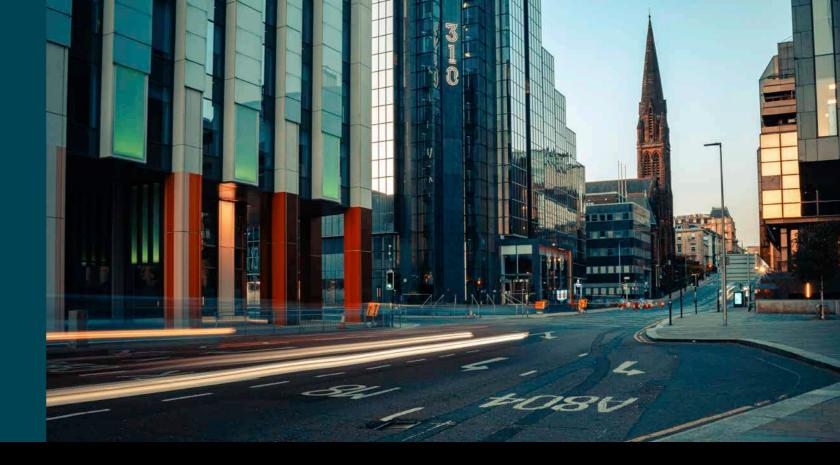


#### INTRODUCTION

# USE CASES WITHIN THE PUBLIC SECTOR

As a global leader in imaging, Canon is uniquely positioned to support the varied and challenging use cases within the Public Sector. From promoting news on social media, to forensic evidence gathering and observation, Canon offers the breadth of solutions for compelling, high-quality content.

Canon products and solutions deliver, often in the most arduous conditions, across a range of sectors and each with their own set of challenges.



#### **Media and Content Creation**

From news gathering, recruitment, press and PR, to content for social media, sharing content at the speed of light is the norm today. Thanks to Canon products and solutions, capturing the content that delivers the message is easier and faster than ever.

#### **Industry challenges**

- > Wide range of shooting subjects often in unpredictable situations.
- > Difficult weather conditions.
- > Instant delivery requirements and safe backup of data.
- > Silent shooting to maintain discretion.

#### The Canon solution

- > Huge range of cameras and lenses for any shooting scenario.
- > Weather sealed cameras and lenses.
- Ethernet or wireless connectivity via a bespoke app, plus dual card slots.
- > Silent shutter built in to mirrorless cameras.
- > Bespoke firmware options for highly specialised solutions.

Find out more on pages 10-25

#### **Forensic Photography**

Detailed and robust evidence is key to successful forensic imagery, as well as technical imagery for engineering.

There is a growing need for 360 and 3D content to support training initiatives, remotely and in person.

#### **Industry challenges**

- > Capture hard-to-see detail in low light.
- Shoot under UV or IR light in awkward conditions.
- > Capture maximum detail for identification.
- > Robust data admissible in the evidence chain.

#### The Canon solution

- High resolution cameras and lenses with up to 1.4x life size magnification, plus a range of Speedlite flashes.
- > Vari-angle screen, image stabilisation, and remote shooting cameras.
- > Bespoke firmware to adapt cameras for specialised applications.
- > C2PA (Content Provenance and Authenticity and CAI (content Authenticity Initiative) membership.

Find out more on pages 26-37

#### **Technical photography**

Detailed resolution and accurate colours support many areas of technical photography for engineering, wear analysis and fault finding.

#### Industry challenges

- Capture detail in low light and in awkward conditions.
- Capture maximum detail for identification.
- > Record location data.

#### The Canon solution

- > High resolution cameras and lenses with up to 1.4x life size magnification.
- > Vari-angle screen, image stabilisation, and remote shooting cameras.
- > Built-in GPS location data recording, or via a Canon app.

Find out more on pages 38-45

#### Surveillance and reconnaissance

Capturing high quality images and footage in conditions that are the opposite of ideal is where Canon's technology excels. Recording day or night, at close range or at long distance, presents unique challenges.

#### **Industry challenges**

- > Discreet, light and undetectable.
- > Capture both stills and video in low light and challenging conditions.
- > Rapid and accurate identification of subjects.
- Shooting over very long distances in any weather and low light.

#### The Canon solution

- > Smaller lighter, R-system cameras and lenses.
- Silent shutter, fast AF in low light, easy switch between stills and video.
- Bespoke firmware to control specific functions.
- Bright, non-flickering EVF.
- Wide range of telephoto and super telephoto weather-sealed lenses.
- > Range of products that deliver clear images in minimal light.

Find out more on pages 44-67

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## **DSLR**

With its optical viewfinder and comfortable handling, a DSLR is excellent for a wide range of subjects. Canon's EOS DSLR range offers fine handling and a huge range of EF and EF-S lenses.



## EOS 5D Mark IV

- > 30.3MP Full Frame
- > Stills and Video
- > Pro Level
- > NFC and Wi-Fi









## EOS 6D Mark II

- > 26.2 MP Full Frame > Stills and Video
- > GPS Tagging
- > Weather Resistant

26.2 MEGA.
PIXELS
CMOS
CMOS







#### **COMPACT**

An alternative to the DSLR, Canon's range of DSC or digital still compact cameras are small and lightweight with built-in lenses and simple operation, while still offering strong image quality.



## **ENTER MIRRORLESS**

Compact, lightweight, and designed for filmmakers and photographers, Canon's interchangeable lens mirrorless cameras offer high image quality, intuitive handling and exceptional lenses.

#### **MIRRORLESS**: KEY ADVANTAGES OVER DSLR

#### Lightweight and Compact

Without the prism and reflex mirror optical setup, mirrorless cameras are significantly smaller and lighter than a DSLR.

#### **Electronic Viewfinder**

Replacing the optical viewfinder of a DSLR, an electronic viewfinder provides an accurate real-time simulation of the final exposure. The EVF shows subjects clearly in the dark.

#### **Silent Shutter**

All EOS R System cameras support silent shooting, an advantage for photography in sensitive environments.

#### Compatible with EF/EF-S Lenses

The EOS R System offers integration with EF and EF-S DSLR lenses via the Mount Adapters EF-EOS R, and EOS accessories and Speedlite flashes.

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## THE EOS R SYSTEM

With CMOS sensors, 4K video recording, fast and accurate Dual Pixel autofocus, electronic viewfinders, built-in Wi-Fi and Bluetooth and support for the latest-generation RF lenses across the entire range, the EOS R System offers excellent photography and video performance in a growing range of lightweight, adaptable and easy-to-use camera bodies.

## EOS R5

- > 45MP CMOS sensor
- > 8K 30p Video
- > 20fps continuous shooting
- > Silent shutter mode
- EVF (Electronic Viewfinder)Low light AF down to EV -6







## EOS R6 Mark II

- > 24.2MP Sensor
- > 4K Video up to 60p
- > Up to 8 stops Image Stabilization
- > Up to 40fps continuous shooting speed
- > 100-102,400 ISO, expands to 204.800
- > EV -6.5 20 (at 23°C& ISO100)
- > Compact body with EVF



## EOS R3

- > 24.1MP Sensor
- > 6K 12-bit RAW video
- Eye-controlled AF
- > Up to 8 stops Image Stabilization
- 100-102,400 ISO, expands to 204.800
- EV -7.5 20 (at 23°C & ISO100)
- > 30fps continuous shooting speed
- > Weather resistant



## EOS R50

- > 45MP Sensor
- Video-first hybrid
- > Unlimited 8K Video
- > Active cooling
- > 50 minutes 8K recording
- > Shoots Cinema RAW Light
- > Customised controls



## EOS R8

- 24.2MP Sensor
- 6K RAW video
- > Guided UI
- 100-102,400 ISO, expands to 204,800
- > Light weight 461g body

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## **CINEMA EOS CAMERAS**

Dedicated professional video cameras for exceptional image quality and limitless creative control.



## EOS C300 Mark III

- > 4K Super 35mm sensor
- > DIGIC DV7 processor
- > 16+ stops of dynamic range
- > Up to ISO 102,400
- > EF or PL user interchangeable lens mount
- > 4K / 120fps
- > Dual Pixel CMOS AF



## **EOS** C70

- > 4K Super 35mm DGO sensor
- > RF Lens Mount
- > 4K 120P Slow Motion
- > High Dynamic Range
- > Dual Pixel CMOS AF
- > Compact carbon fibre polycarbonate body.



## EOS C500 Mark II

- > 5.9K Full frame sensor
- > EF or PL mount
- > 15+ stops of dynamic range
- Dual Pixel CMOS AF
- > XF-AVC 4K 4:2:2 10-bit
- > Cinema RAW Light
- > Configurable modular design

## **CINEMA LENSES**

## Canon's full frame cine-style lenses offer build quality and optical standards ideal for filmmakers.

Seven Cine Primes all offer a striking cinematic look, 11-blade diaphragm for attractive bokeh and excellent low light performance.

Cine Zoom and Compact Cine Zoom ranges offer the flexibility of wideangle and telephoto covering from 17mm to 1500mm.

Canon Cine lenses are available in both EF and PL mounts.

#### CN-E

CN-E20mm T1.5 L F CN-E24mm T1.5 L F CN-E50mm T1.3 L F CN-E85mm T1.3 L F CN-E135mm T2.2 L F

#### CN-R

CN-R20mm T1.5 L F CN-R24mm T1.5 L F CN-R50mm T1.3 L F CN-R85mm T1.3 L F CN-R135mm T2.2 L F

#### **Cine Servo Zooms**

CN-E70-200mm T4.4 L IS CN-E18-80mm T4.4 L IS KAS S MOUNT ADAPTER EF-EOS R 0.71x

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## PROFESSIONAL CAMCORDER

Compact, professional fixed lens camcorders offer 4K broadcast quality that fits a seamless production workflow.



#### XF605

#### Professional handheld camcorder for production and broadcast

- 4K 1.0-Type CMOS sensor
- 15x L-series wide-angle zoom lens
- Dual Pixel CMOS AF
- Lightweight and compact
- 4:2:2 10-bit 4K HDR video
- Records to SD card
- 4K signal output via 12G-SDI or ethernet



#### XA75 / XA70

- Incredibly compact and easy to use
- 1.0 type CMOS sensor
- 4K UHD pro camcorder
- 15x optical zoom lens
- Dual Pixel CMOS AF
- 5-axis Optical Image Stabilizer
- Infrared mode
- 3G-SDI (XA75), HDMI out and UVC streaming
- Canon Log 3
- 4-channel audio
- Built in ND filters
- Dual SD card slots Smaller file sizes
- 3 second pre-record

- Infrared mode 3 second pre-record
- XF-AVC or MP4 recording

XA65 / XA60

Professional 4K camcorder

Palm sized and easy to use

1/2.3 inch CMOS sensor

20x optical zoom lens

5-axis Image Stabilizer

4K UHD recording

- 3G-SDI, HDMI out and UVC streaming
- Modern and legacy connectivity
- Dual SD card slots
- Smaller file sizes

## PTZ CAMERAS

Canon's PTZ range offers a remote production package with 4K image quality for both indoor and outdoor use. Get seamless remote control from the Canon RC-IP100 hardware controller for up to 100 cameras, or a PC or tablet running the free application to control up to 20 PTZ cameras.



#### **CR-N700**

- 1.0-type 4K sensor
- Dual Pixel CMOS AF
- 15x optical zoom (30x Advanced Zoom)
- Dual SDI, 1 x 12G-SDI plus 1 x 3G-SDI



#### CR-N300

- 4K UHD resolution
- 1/2.3-inch CMOS sensor
- 20x image stabilised optical zoom
- Wide range of streaming and control protocols



#### CR-X500

- Weatherproof for outdoor use
- IP-55 rated
- 1.0-type Type CMOS Sensor
- 4K UHD resolution
- 15x optical zoom
- Dual Pixel CMOS AF
- 12G-SDI



#### **CR-N500**

- 1.0-type 4K sensor
- Dual Pixel CMOS AF
- 15x optical zoom
- Image stabilisation



#### **CR-N100**

- 4K UHD resolution
- DIGIC DV6 Processor
- 20x optical zoom
- Hybrid Auto Focus
- Small and Compact Chassis



#### CR-X300

- 4K UHD resolution
- 1/2.3-inch Type CMOS Sensor
- 15x optical zoom
- Weatherproof
- Dual Pixel CMOS AF
- 6G-SDI



## **LENS RANGES**

Canon's craftmanship and optical excellence deliver superb quality imaging for an unrivalled range of applications, in a vast range of lenses for broadcast, cinema, film-making, as well as professional photography and imaging.

#### **BCTV LENSES**

The 32-strong range of ENG/EFP lenses covers 2/3", 1/2" and 1/3" cameras from wide to telephoto zoom, with many 4K UHD resolution lenses plus HDTV and SDTV.

16 Studio/Field broadcast lenses offer exceptional zoom range (up to 122x zoom on the UJ122x8.2B UHD Digisuper 122 lens), outstanding 4K Premium optics and peerless servo-assisted image stabilisation. Highly flexible and compact for their optical performance and zoom range.



#### **CJ12EX4.3B**

- > 2/3" 4K wide angle lens
- > 12x zoom
- > 4.3mm to 52mm (or 104mm using the built-in 2x extender)
- > Compact and lightweight



#### **CJ25EX7.6B**

- > 2/3" 4K and HDR general-purpose lens
- > 25x standard zoom
- > 7.6mm to 190mm (380mm with the built-in 2x extender)
- > Magnesium alloy body
- > Light and durable

## **RF LENSES**

Canon optics are designed and built to take full advantage of the full-frame EOS R mirrorless camera system. RF lenses are fast-focusing and bright, offering excellent handling and control.

Use existing Canon EF and EF-S lenses on EOS R system cameras, with full autofocus and metering capabilities, with the Canon Mount Adapter EF-EOS R.



#### RF 35MM F1.8 MACRO IS STM

- Wide angle prime
- > Macro capability
- > Fast f/1.8 max aperture



#### RF 50MM F1.2L USM

- Outstanding clarity and sharpness
- > Bright f/1.2 maximum aperture
- > Fast AF in low light
- > Weather resistant



#### RF 24-105MM F2.8L IS USM Z

- > Ideal for video and stills
- > Flexible zoom range
- and bright f/2.8 max aperture
- > 5.5-stop image stabilisation
- Weather resistant



#### RF 85MM F1.2L USM

- > Ideal portrait lens
- Exceptional performance
- Bright f/1.2 maximum aperture
- > Superb in low light
- > Weather resistant



#### RF 24-105MM F4L IS USM

- > L-series lens
- Flexible zoom range
- Nano USM autofocus
- 5-stop image stabilisation
- Weather resistant



#### RF 10-20MM F4L IS STM

- > Widest ever full frame zoom
- > Superb sharpness
- Minimal distortion
- > Peripheral Coordinated Control IS
- > Weather resistant

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#### **RF ZOOMS:** THE TRINITY

Three RF zoom lenses to cover the essentials. Each boasts a fast f/2.8 aperture, smooth and silent USM focusing, 5-stop image stabilisation (up to 8 stops when combined with in-body stabilisation) and weather-sealed build.



RF 15-35MM F2.8L IS USM

**ULTRA-WIDE ZOOM** 



RF 24-70MM F2.8L IS USM

STANDARD ZOOM



**RF 70-200MM F2.8L IS USM** 

TELEPHOTO ZOOM





#### **EF LENSES**

Designed for Canon's range of DSLR cameras, EF lenses offer wide maximum apertures, full-frame coverage and a variety of focal lengths.

Use on EOS R mirrorless camera bodies with Canon Mount Adapter EF-EOS R, which maintains autofocus and metering capabilities.



#### **EF 50MM F/1.2L USM**

- > Exceptional low light performance
- > Bright f/1.2 maximum aperture
- > Compact
- > Weather resistant



#### EF 85MM F/1.4L IS USM

- > Ideal portrait lens
- > Exceptional performance
- > Bright f/1.4 maximum aperture
- > Superb in low light
- > Image Stabilizer
- > Weather resistant



#### **MOUNT ADAPTER EF-EOS R**

Use existing EF lenses on EOS R mirrorless bodies with this standard mount adapter, maintaining full metering and autofocus functionality.

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## **SPEEDLITE FLASHES**

Supplement your lighting and take control with a Canon Speedlite flash.



## 430EXIII-RT

- Easy to use
- Lightweight build
  Covers 20-200mm focal length
- Off-camera operation
- Weather sealed
- Intuitive controls
- Compatible with EOS DSLR and EOS R System



### **SPEEDLITE EL-1**

- Active cooling prevents overheating
- Ultra-fast recycle times
- Uses rechargeable Li-ion battery
- All-weather build
- Wireless operation
- Compatible with EOS DSLR and EOS R System

### **SPEEDLITE** EL-5

- Guide number 60m
- Fast 0.1-1.2 sec recycle times
- Multi-Function foot interface
- Rechargeable Li-ion battery
- Wide range of power levels
- Accurate battery level indicator Weather-resistant construction
- With conventional hot-shoe
- Compatible with EOS DSLR and EOS R System





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Compact, lightweight, and designed for filmmakers and photographers, Canon's interchangeable lens mirrorless cameras offer high image quality, intuitive handling and exceptional lenses.

#### **MIRRORLESS: KEY ADVANTAGES OVER DSLR**

Lightweight and Compact

Without the prism and reflex mirror optical setup, mirrorless cameras are significantly smaller and lighter than a DSLR.

Electronic Viewfinder

Replacing the optical viewfinder of a DSLR, an electronic viewfinder provides an accurate real-time simulation of the final exposure. The EVF shows subjects clearly in the dark.

Silent Shutter

All EOS R System cameras support silent shooting, an advantage for photography in sensitive environments.

Compatible with EF/EF-S Lenses

The EOS R System offers integration with EF and EF-S DSLR lenses via the Mount Adapters EF-EOS R, and EOS accessories and Speedlite flashes.





## EOS R5

- > 45MP CMOS sensor
- > 8K 30p Video
- > 20fps continuous shooting
- > Silent shutter mode
- > EVF (Electronic Viewfinder)
- > Low light AF down to EV -6



## **EOS R7**

- > 32.5MP APS-C sensor
- > 4K 60p video
- > 30 fps continuous shooting
- > Light weight 612g body

## EOS R3

- > 24.1MP Sensor
- 6K 12-bit RAW video
- Eye-controlled AF
- > Up to 8 stops Image Stabilization
- > 100-102,400 ISO , expands to 204,800
- EV -7.5 20 (at 23°C & ISO100)
- > 30fps continuous shooting speed
- > Weather resistant



## EOS R6 Mark II

- > 20.1MP Sensor
- > 4K Video up to 60p
- > Up to 8 stops Image Stabilization
- > Up to 40fps continuous shooting speed
- > 100-102,400 ISO, expands to 204,800
- > EV -6.5 20 (at 23°C& ISO100)
- Compact body with EVF



## **EOS R10**

- > 24.2MP APS-C sensor
- > 4K 60p video
- 23 fps continuous shooting
- Light weight 429g body
- > Easy to use
- > Affordable

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## **RF LENSES**

Optimised for the full-frame EOS R mirrorless camera system, Canon RF lenses are fast-focusing and bright, offering high levels of intuitive control.

Canon EF lenses are compatible with EOS R cameras when using the Mount Adapter EF-EOS R, which maintains full autofocus and metering functionality.



#### RF 50MM F1.2L USM

- > Outstanding clarity and sharpness > Bright f/1.2 maximum aperture
- > Fast AF in low light
- > Weather resistant



RF 85MM F1.2L USM

- > Ideal portrait lens
- > Exceptional performance
- Fast f/1.2 maximum aperture
- > Superb in low light
- > Weather resistant



RF-S 18-45MM 4.5-6.3 IS STM

- > For APS-C-sized sensor cameras
- > Compact and light
- > 4-stop Image Stabilizer



#### RF 100mm F2.8L Macro IS USM

- Class-leading 1.4x magnification
- > 26cm close focussing
- > Automatic focus bracketing
- > Up to 5-stop image stabilisation



**RF 24-70MM F2.8L IS USM** 

- > Versatile zoom range
- > Fast f/2.8 maximum aperture
- > Weather resistant
- > 21cm close focussing
- > 5-stop image stabilisation



RF-S 18-150MM F3.5-6.3 IS STM

- > For APS-C-sized sensor cameras
- > Wide 8.3x zoom range
- > Powerful reach in one lens
- > 4.5-stop Image Stabilizer

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## INTRODUCTION TO EOS VR SYSTEM

The workflow is efficient and fast: when a photo or video is captured on an EOS R5 C or an EOS R5 equipped with this lens, a single file containing two separate images – each taken from a slightly different perspective – is created.

When this file is opened in the Canon EOS VR Utility, the two images can be combined into a detailed, lifelike 3D image which can be viewed using a VR headset.

It's a simple, portable setup to capture crime scenes and other environments to later explore in immersive, highly detailed VR. Ideal for creating training programmes and simulations, and forensic work.

Combined with an EOS R5 C or an EOS R5 body and the Canon EOS VR Utility, the revolutionary RF5.2mm F2.8 L Dual Fisheye lens creates a highly detailed virtual replica of your location.



#### **RF 5.2MM F2.8L DUAL FISHEYE**

- f/2.8 aperture for exceptional low light performance
- Dual EMD units for precise control and synchronisation
- Works with Canon EOS R5 body for full-frame 8K video capture





## EOS 7D Mark II

- 20.2MP APS-C sensor
- 150,000-pixel metering sensor
- 10 fps continuous shooting
- Weather resistant
- GPS location tagging

## **DSLR CAMERAS**

With its optical viewfinder and comfortable handling, a DSLR is excellent for a wide range of subjects. Canon's EOS DSLR range offers fine handling and a huge range of EF and EF-S lenses.



EOS 5D Mark IV

- Pro level
- Stills and video
- 30.3MP full frame
- NFC and Wi-Fi
- GPS & IPTC metadata



## **EOS** 900

- 32.5MP APS-C sensor
- 45 cross type AF points
- 220,000-pixel RGB+IR metering sensor
- 10fps continuous shooting 1,300-shot battery life (according to CIPA standards)



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## FORENSIC LENSES & FLASHES

Canon's EF lens range is vast: there's an EF lens for every job. Newer RF lenses, designed for EOS R mirrorless cameras, have quieter USM focusing and control rings which can be "declicked" for smooth, silent aperture control, ideal for shooting video as well as stills.

Both EF and RF lenses offer image stabilisation, useful when shooting handheld or from a moving vehicle. When fitted to EOS R cameras with their own built-in image stabilisation, this effect is boosted even further. EF lenses are fully compatible with EOS R mirrorless cameras via an adapter.

L series lenses, available across both our EF and RF ranges, offer excellent optics and large apertures for better low light performance, and are robust, weather-sealed and built for reliable operation in the field.

#### **EF LENS RANGE**



#### **EF 50MM F/1.2L USM**

- > Exceptional low light performance
- > Bright f/1.2 maximum aperture
- > Ring-type USM (Ultra Sonic Motor)
- > Compact
- > Weather resistant



#### EF 100mm f/2.8L Macro IS USM

- Incredibly detailed close-up photos
- > 1:1 magnification macro
- > Focus on subjects as close as 0.3m
- > Fast, silent USM autofocus
- > Up to 4-stop image stabilisation
- Weather sealed
- Use EF lenses on RF mount camera via Mount Adapter EF-EOS R

#### **EF MACRO LENS RANGE**



#### Macro Ring Lite MR-14EX II

- > Uniform lighting for small close-up photography subjects
- Easy to use
- > Ring flash head with dual tubes
- > Adjust each tube individually
- > 6-stop brightness range



#### **Macro Twin Lite MT-26EX RT**

- > Twin flash with fast recycling
- High-brightness white LEDsOptical and Radio Wireless control
- > Creative lighting options



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## PRINTERS & SOFTWARE

#### **PRINTER RANGE**

From professional A2 printers to portable models for instant prints in the field, Canon's printer range caters for the needs of the forensics team.



#### **SELPHY CP1300**

Create quality, durable prints from compatible smart devices, cameras and more with this portable Wi-Fi photo printer.



#### **CANON PRO PRINTER RANGE**

- > PIXMA PRO-200
- imagePROGRAF PRO-300
- > imagePROGRAF PRO-1000



#### **PIXMA TR150**

Portable, rugged, battery-powered model for printing on the move. Prints wirelessly from PC, laptop or smart device in up to A4 size.

#### **CCAPI AND SDK**

Canon offers a full API package for software developers, allowing them to create software for controlling a wide range of EOS and PowerShot cameras for applications such as 3D photogrammetry (see below) and remote event recording. The package combines the EOS Digital SDK and the Camera Control API.

The EOS Digital SDK (EDSDK) enables software developers to produce dedicated programs for wired control of over 50 Canon EOS and PowerShot cameras, which must be connected to a Windows or macOS computer via USB.

The Camera Control API (CCAPI) is based on HTTP technology and allows control via IP and Wi-Fi, making it more platform agnostic than EDSDK (it will work with iOS, Android and Linux devices as well as PCs). It currently works with 13 EOS and PowerShot cameras.

#### **3D PHOTOGRAMMETRY**

3D photogrammetry is a highly effective method of recreating crime scenes for forensic analysis, using hundreds or thousands of still images taken from different angles and positions to create a 3D representation for detailed analysis.

Using Canon's EOS Digital SDK and a computer to control a rig of EOS cameras and lenses, capture data quickly and reliably to recreate a digital replica. Use this data to re-create a physical object with a 3D printer.

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## OVERT OPERATIONS: TECHNICAL PHOTOGRAPHY

Canon's wide range of cameras covers PowerShot point-and-shoots to palm-sized professional camcorders, as well as DSLRs like the EOS-1D X Mark III and our newer EOS R mirrorless cameras.

Mirrorless offers high image quality and the flexibility of interchangeable lenses in a smaller, lighter body with a silent shutter.



## EOS R5

- 45MP CMOS sensor
- 8K 30p Video
- 20fps continuous shooting
- Silent shutter mode
- EVF (Electronic Viewfinder)Low light AF down to EV -6



## EOS R6 Mark II

- > 20.1MP Sensor
- > 4K Video up to 60p
- > Up to 8 stops Image Stabilization
- > Up to 40fps continuous shooting speed
- > 100-102,400 ISO, expands to 204,800
- > EV -6.5 20 (at 23°C& ISO100)
- Compact body with EVF



#### RF 100mm F2.8L Macro IS USM

- > Class-leading 1.4x magnification
- > 26cm close focussing
- > Automatic focus bracketing (built into EOS R3, R5, R6 and RP bodies)
- > Up to 5-stop image stabilisation



#### **RF 24-70MM F2.8L IS USM**

- > Versatile zoom range
- > Fast f/2.8 maximum aperture
- > Weather resistant
- > 21cm close focussing
- > 5-stop image stabilisation



#### **RF 15-35MM F2.8L IS USM**

- > Versatile wide angle zoom
- > Fast f/2.8 maximum aperture
- > Weather resistant
- 5-stop image stabilisation



#### RF 24MM F1.8 MACRO IS STM

- > 24mm focal length
- > Fast f/1.8 maximum aperture
- > Macro capabilities with 14cm minimum focus
- > 5-stop Optical Image Stabilizer
- > Lens and focus control ring



#### RF 50MM F1.2L USM

- > Useful standard lens focal length
- Bright f/1.2 maximum aperture
- > Weather resistant
- 40cm close focusing
- Remarkable low light performance

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#### PowerShot G1 X Mark III

- > Premium pocket-sized camera
- > Excellent low light performance
- > DSLR-quality APS-C image sensor
- > Multi-purpose
- > 3x optical zoom lens
- > Simple controls
- > Vari-angle screen



#### EF 100mm F/2.8L Macro IS USM

- > Incredibly detailed close-up photos
- > 1:1 magnification macro
- > Focus on subjects as close as 0.3m
- > Fast, silent USM autofocus
- > Up to 4-stop image stabilisation
- > Weather sealed
- > Use EF lenses on RF mount cameras via Mount Adapter EF-EOS R



#### **EOS-1D X Mark III**

- > Fast and responsive
- > Superb performance
- > 20fps continuous shooting
- > 5.5K RAW video footage
- > Weather-sealed
- > Optical viewfinder



## **EF 24-70MM F/2.8L II USM**

- > Versatile standard zoom range
- > Professional optical performance corner to corner
- > Durable weather resistant construction
- > Constant f/2.8 maximum aperture

#### FLASH AND PRO CAMCORDER

#### SPEEDLITE EL-1

- > Active cooling prevents overheating
- > Ultra-fast recycle times
- > Uses rechargeable Li-ion battery
- > All-weather build
- > Wireless operation
- > Compatible with EOS DSLR and EOS R System





#### XA75 / XA70

- > Incredibly compact and easy to use
- 1.0 type CMOS sensor
- > 4K UHD pro camcorder
- > 15x optical zoom lens
- > Dual Pixel CMOS AF
- > 5-axis Optical Image Stabilizer
- > Infrared mode
- 3 second pre-record
- > 3G-SDI (XA75), HDMI out and
- **UVC** streaming
- > Canon Log 3
- > 4-channel audio
- > Built in ND filters
- > Dual SD card slots
- > Smaller file sizes



#### XA65 / XA60

- > Professional 4K camcorder
- > Palm sized and easy to use
- > Professional 4K camcorder
- > 1/2.3 inch CMOS sensor
- > 4K UHD recording
- > 20x optical zoom lens
- > 5-axis Image Stabilizer
- > Infrared mode
- > 3 second pre-record
- > XF-AVC or MP4 recording
- > 3G-SDI, HDMI out and UVC streaming
- Modern and legacy connectivity



#### Macro Ring Lite MR-14EX II

- > Uniform lighting for small close-up photography subjects
- Easy to use
- > Ring flash head with dual tubes
- > Adjust each tube individually
- > 6-stop brightness range



#### **Macro Twin Lite MT-26EX RT**

- > Twin flash with fast recycling
- > High-brightness white LEDs
- > Optical and Radio Wireless control
- > Creative lighting options

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#### ME20F-SH/ME20F-SHN Full HD colour or infrared video in almost total darkness

- Maximum ISO in excess of 4,000,000
- Full-frame 2.26MP CMOS sensor
- Support EF and Cine Servo lenses
- Remote operation via ethernet (ME20F-SHN)

#### **HIGH SENSITIVITY**



#### ML-100 EF/ML-105 EF

- Durable and dust, water and shock resistant
- IP-54 rated
- 76 x 76 x 112mm (ML-105EF) Light weight 775g (ML-105EF)
- Full-frame 2.07MP CMOS sensor
- Maximum ISO in excess of 4,000,000
- EF or M58 mount
- SDI or CoaXPress video variations

## **SURVEILLANCE CAMERAS**

DSLR and mirrorless interchangeable lens cameras offer flexibility; all-in-one PowerShot compact or superzooms offer convenience; professional camcorders offer ease of use; multi-purpose cameras offer incredible low light capabilities.

Ideal tools for short range surveillance.

#### **POWERSHOT RANGE**



## PowerShot ZOOM

- Discreet, lightweight pocket-sized superzoom
- 100mm and 400mm plus 2x digital zoom to 800mm
- Full HD video footage
- 12MP sensor
- Optical 4-axis image stabilisation
- USB-C charging

#### Additional firmware provides:

- Enhanced low light capabilities
- Extended video recording time
- Time-stamped images



#### PowerShot SX70 HS

- Fixed-lens superzoom camera
- 65x optical zoom (35mm equivalent: 21-1356mm)
- 130x digital ZoomPlus feature
- 20.3MP stills
- 4K UHD video
- DSLR-style handling
- 10fps continuous stills shooting
- RAW capture
- Long operation set up with special firmware

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#### **CAMERA BODIES**



### EOS R3

- 24.1MP Sensor
- 6K 12-bit RAW video
- Eye-controlled AF
- Up to 8 stops Image Stabilization
- 100-102,400 ISO , expands to 204,800
- EV -7.5 20 (at 23°C & ISO100) 30fps continuous shooting speed
- Weather resistant



## EOS R50

- Video-first hybrid
- 45MP Sensor for exceptional detail
- Unlimited 8K Video
- Active cooling
- Battery supports 50 minutes 8K recording Shoots Cinema RAW Light
- Customised controls
- Light and compact
- Weather sealed



## **EOS R10**

- 24.2MP APS-C sensor
- 4K 60p video
- 23 fps continuous shooting
- Light weight 429g body
- Easy to use



## EOS R6 Mark II

- 20.1MP Sensor
- 4K Video up to 60p
- Up to 8 stops Image Stabilization
- Up to 40fps continuous shooting speed
- 100-102,400 ISO, expands to 204,800
- EV -6.5 20 (at 23°C& ISO100)



## EOS R7

- 32.5MP APS-C sensor
- 4K 60p video
- 30 fps continuous shooting
- Light weight 612g body



## EOS-1DX Mark III

- Fastest DSLR, super robust,
- Dust & weather proof
- Customised Firmware
- Low light capabilities
- Long lasting battery
- Optical viewfinder

#### **PRO CAMCORDERS**



#### XA75 / XA70

- Incredibly compact and easy to use
- 1.0 type CMOS sensor
- 4K UHD pro camcorder
- 15x optical zoom lens
- **Dual Pixel CMOS AF**
- 5-axis Optical Image Stabilizer
- Infrared mode
- 3 second pre-record
- 3G-SDI (XA75), HDMI out and **UVC** streaming
- Canon Log 3
- 4-channel audio
- Built in ND filters
- Dual SD card slots
- Smaller file sizes



#### XA65 / XA60

- Professional 4K camcorder
- Palm sized and easy to use
- 1/2.3 inch CMOS sensor
- 4K UHD recording
- 20x optical zoom lens
- 5-axis Image Stabilizer
- Infrared mode
- 3 second pre-record
- XF-AVC or MP4 recording
- 3G-SDI, HDMI out and UVC streaming
- Modern and legacy connectivity
- Dual SD card slots
- Smaller file sizes

#### **PTZ RANGE**



### CR-X500

- Weatherproof for outdoor use
- IP-55 rated
- 1.0-type Type CMOS Sensor
- 4K UHD resolution
- 15x optical zoom
- Dual Pixel CMOS AF
- 12G-SDI



### CR-X300

- Weatherproof for outdoor use
- IP-65 rated
- Compact, lightweight, portable
- 1/2.3-inch Type CMOS Sensor
- 4K UHD capture
- 20x optical zoom
- Hybrid AF
- 6G-SDI
- Multiple protocol support
- 4K, 30.00P output, 4:2:2, 10-bit via SDI/HDMI
- 4K 30.00P output 4:2:0, 8-bit via LAN (IP)
- Built in ND filters, IR Cut filter

# SHORT RANGE SURVEILLANCE LENSES INTRODUCTION Canon offers photo and video equipment ideal for covert surveillance of distances up to 1.5km during day or night. Camera size is a key factor, due to the nature of the activities, and working in all lighting conditions and without hands-on control.



## RF & EF LENSES

Canon's EF lens range is vast: there's an EF lens for every job. Newer RF lenses, designed for EOS R mirrorless cameras, have quieter USM focusing and control rings which can be "declicked" for smooth, silent aperture control, ideal for shooting video as well as stills.

Both EF and RF lenses offer image stabilisation, useful when shooting handheld or from a moving vehicle. When fitted to EOS R cameras with their own built-in image stabilisation, this effect is boosted even further. EF lenses are fully compatible with EOS R mirrorless cameras via an adapter.

L series lenses, available across both our EF and RF ranges, offer excellent optics and large apertures for better low light performance, and are robust, weather-sealed and built for reliable operation in the field.



#### **RF LENS RANGE**

Canon optics are designed and built to take full advantage of the full-frame EOS R mirrorless camera system. RF lenses are fast-focusing and bright, offering excellent handling and control.

#### RF 100-500MM F4.5-7.1L IS USM

- > Powerful 100-500mm zoom range
- > Ideal for fast moving subjects
- > Compact, light and versatile
- > Excellent sharpness and contrast
- > 5-stop image stabilisation
- L-series quality and robust weather sealed construction





#### **RF 70-200MM F2.8L IS USM**

#### TELEPHOTO ZOOM

- > High performance f/2.8 telephoto zoom
- Superb optical quality
- > Durable L-series weather resistant construction
- > 9-blade aperture
- > 5-stop image stabilisation



#### RF 50MM F1.8 STM

- Standard lens with field of view similar to the human eye
- Compact, lightweight and inexpensive
- Sharp, detailed image quality even in low-light conditions
- > STM motor for near-silent autofocus
- Bright f/1.8 aperture

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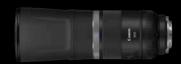
#### RF 800MM F5.6L IS USM

- > Ultimate super telephoto lenses
- > Uncompromised image quality and reach
- Light weight for handheld use (under 4kg mounted to EOS R3)
- Use with 1.4x and 2x Extenders
- Heat shield coating
- L-series quality and robust weather-sealed construction



#### RF 1200MM F8L IS USM

- > Ultimate super telephoto lenses
- > Uncompromised image quality and reach
- Light weight for handheld use (under 4kg mounted to EOS R3)
- Use with 1.4x and 2x Extenders
- > Heat shield coating
- > L-series quality and robust weather-sealed construction



#### RF 600MM FII IS STM

- > Powerful magnification
- > Built in Image Stabilizer
- > 5-stop IS
- > Light weight

#### **RF 800MM F11 IS STM**

- > Powerful magnification
- > Built in Image Stabilizer
- > 4-stop IS
- > Light weight



#### **EXTENDER RF 1.4X**

- > Add 1.4x magnification
- > Maintains performance
- > Comparable weather sealing to
- > L-series lenses

#### **EXTENDER RF 2X III**

- > Add 2x magnification
- > Maintains performance
- > Comparable weather sealing to
- > L-series lenses

Designed for: RF 100-500mm F4.5-7.1L IS USM, RF 400mm F2.8L IS USM, RF 600mm F4L IS USM, RF 600mm F11 IS STM, RF 800mm F1.00mm F8L IS USM and RF 1200mm F8L IS USM



#### MOUNT ADAPTER EF-EOS R

Use existing EF lenses on EOS R mirrorless bodies with this standard mount adapter, maintaining full metering and autofocus functionality.



#### RF-S 18-150MM F3.5-6.3 IS STM

- Designed for APS-C-sized sensor cameras
- Wide 8.3x zoom rangePowerful reach in one lens
- > 4.5-stop Image Stabilizer



## **RF 100-300MM F2.8L IS USM**

- > Versatile telephoto power
- Blazingly fast, responsive and precise
- > Incredible image quality
- Creative control when you need it most

#### **EF LENS RANGE**

Designed for Canon's extensive range of DSLR and multi-purpose cameras, Canon EF lenses offer wide maximum apertures, full-frame coverage and a variety of focal lengths.



#### EF 100-400MM F/4.5-5.6L IS II USM

- > Compact and versatile
- > All-weather super-telephoto zoom
- > Sharp, high-contrast results
- > Fast and near-silent USM autofocus
- > 4-stop image stabilisation

#### **EF TELEPHOTO LENS RANGE: PRIME**

Fixed focal length lenses with robust L-series construction, near-silent focusing and excellent image quality.



#### EF 800MM F/5.6L IS USM

- > Extreme super-telephoto lens
- > Uncompromised image quality
- > All-weather L-series construction
- > 4-stop image stabilisation
- > 4.5kg weight

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#### **CANON RF TELEPHOTO LENS RANGE: PRIME**

High-quality fixed focal length super telephoto lenses with image stabilisation and quiet (or silent) focusing motors.





**RF 400MM** F2.8L IS USM

**RF 600MM** F4L IS USM



RF 1200MM F8L IS USM





**RF 600MM** F11 IS STM

**RF 800MM** F11 IS STM

#### **CANON RF TELEPHOTO LENS RANGE: ZOOM**

Compact, lightweight and versatile zooms with super-telephoto power.









**RF 100-300MM** F2.8 IS USM

**RF 100-400MM F5.6-8 IS USM** 

**RF 100-500MM** F4.5-7.1L IS USM

**RF 100-500MM** F4.5-7.1L IS USM

#### **EXTENDERS**

Give compatible lenses 1.4x or 2x extra magnification while maintaining high performance.





**EXTENDER RF 1.4X** 

**EXTENDER** RF 2X

#### **CANON EF TELEPHOTO LENS RANGE: PRIME**

Fixed focal length lenses with robust L-series construction, near-silent focusing and excellent image quality.





**EF 400MM** F/5.6L USM









EF 800MM F/5.6L IS USM

**EF 500MM** F/4L IS II USM

**EF 600MM** F/4L IS III USM

#### **CANON EF TELEPHOTO LENS RANGE: ZOOM**

L-series telephoto zooms for flexibility and wide focal length range.





**EF 100-400MM** F/4.5-5.6L IS II USM F/4L IS USM

EF 200-400MM

#### **EXTENDERS**

Give L-series lenses 1.4x or 2x extra reach while maintaining high performance.





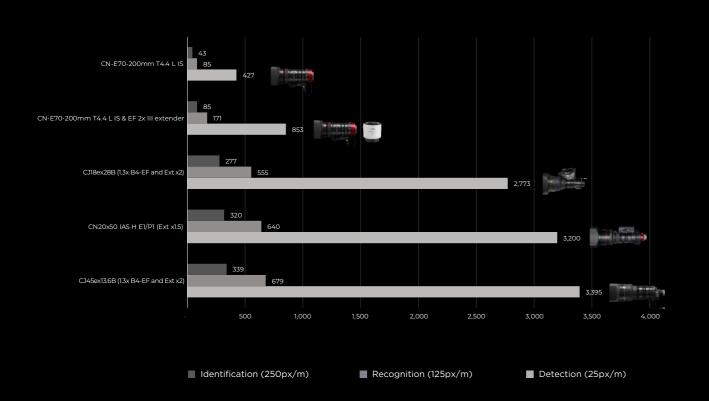
**EXTENDER EF** 1.4X III

**EXTENDER EF** 2X III

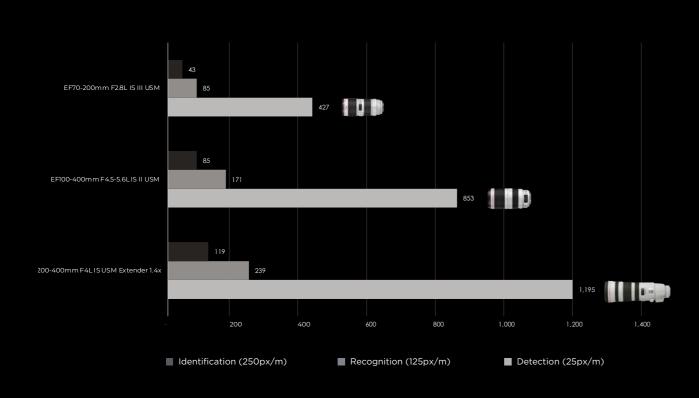
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### **LENS MAGNIFICATION CHART**

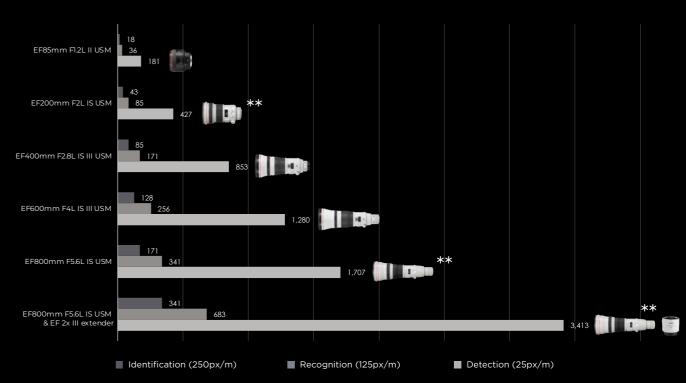
#### MOTORISED ZOOM LENS WITH ME20F-SH / SHN AT FULL HD 1920 X 1080



#### EF ZOOM LENS WITH ME20F-SH / SHN AT FULL HD 1920 X 1080

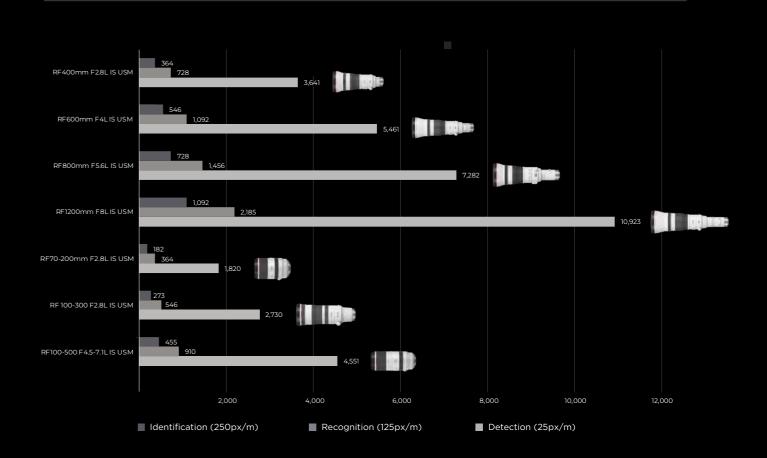


#### EF PRIME LENS WITH ME20F-SH / SHN AT FULL HD 1920X1080



\* All EF lenses, when connected to EOS R cameras require an EOS R-RF Adapter \*\* Discontinued

#### **RF LENS WITH EOS R5: 45MP STILLS**



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## **BROADCAST LENS RANGE**

Lightweight and compact B4 mount ultra-telephoto zoom lenses designed for broadcast video cameras with 2/3" sensors. Also fit to EOS DSLR and R camera bodies using optional mount adapters.



#### CJ18EX28B IASE S

- > Compact, durable and lightweight (2.76kg)
- > Professional broadcast zoom lens
- > 4K resolving power
- > 18x zoom with built-in 2x extender
- Covers a 28-500mm focal range (56-1000mm with extender)
- > f/2.8 maximum aperture



#### CJ45EX13.6B IASE-V H

- > Small, slim and lightweight (5.64kg)
- > Professional broadcast zoom lens
- > 4K resolving power
- > 45x zoom, with built-in 2x extender
- > Covers a 13.6-612mm focal range (27-1224mm with extender)
- > f/2.8 maximum aperture

## **CINE LENS RANGE**

Cine-Servo zoom lenses offering exceptional range and image quality and designed for movie making and broadcast TV; attach to EF mount DSLRs and tiny multi-purpose cameras for surveillance applications.



#### CN20X50 IAS H E1

- > Versatile ultra-telephoto 20x zoom lens
- > 50-1000mm focal range (75-1500mm with built-in 1.5x extender)
- Superb optical accuracy for 4K recording
- > EF mount
- Detachable servo drive unit
- > Weighs 6.6kg

#### **CN8X15 IAS S E1/P1**

- > 4K and 8K resolution
- Exceptional optical quality
- > T2.95 T3.95 wide maximum aperture
- > 10x zoom lens with a focal range of 15-120mm (or 22.5- 180mm with built-in 1.5x extender)
- > Weighs 3.06kg
- > Detachable servo drive unit
- > Lens metadata
- > EF or PL mount



#### **CN10X25 IAS S E1**

- > 4K and 8K resolution
- > Exceptional optical quality
- > 10x zoom lens with a focal range of 25-250mm (or 37.5- 375mm with built-in 1.5x extender)
- > Weighs 3.06kg
- > Detachable servo drive unit
- Supports full EF mount communication

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## ADDITIONAL SURVEILLANCE PRODUCTS



Pair a Canon ME20F-SHN multi-purpose camera with an EF mount CN20x50 IAS H E1 lens to create a compact and versatile Full HD surveillance solution with excellent range and shoot in almost total darkness.

Control and monitor remotely via the ME20F-SHN's Ethernet network capabilities, and record off-site, thanks to an IP-based solution using robust, reliable Canon technology throughout.

The simple connection with Milestone XProtect provides robust remote surveillance solution with full camera & lens control.

#### ME20F-SHN

- > Full HD colour or infrared video in almost total darkness
- Maximum ISO in excess of 4,000,000
- > Full-frame 2.26MP CMOS sensor
- > Support EF and Cine Servo lenses
- > Remote operation via ethernet (ME20F-SHN)



## **BINOCULARS**

Canon binoculars offer comfortable viewing over long periods, thanks to image stabilisation in every model, and a wide choice of magnification, weather proofing and portability.

#### **BINOCULAR RANGE**



#### **10X42L IS WP**

- > 10-times magnification
- > L-series optics
- > Bright 4.2mm exit pupil
- > JIS Grade 7 waterproofing
- > Image Stabilizer



#### 18X50 IS AW

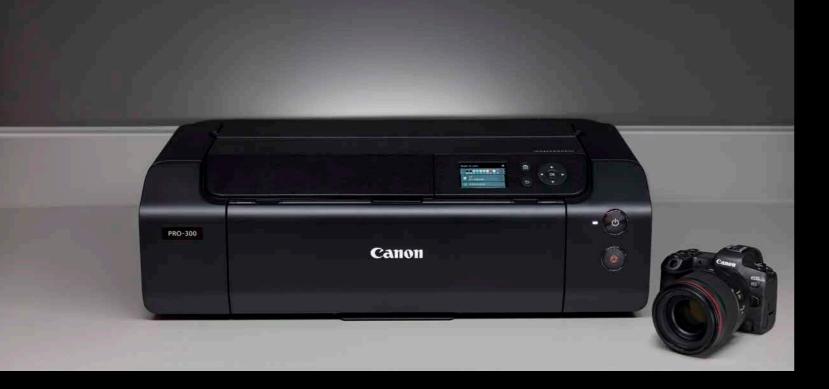
- > High-power 18x magnification
- > Image Stabilizer
- JIS Grade4 weather proofing
- > Bright 50mm objective lens



#### 12X32 IS

- > Powerful 12x magnification
- > More compact size
- > 2 levels of Image Stabilizer
- AA batteries for up to 10 hours of continuous powered stabilisation

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## PRO PRINTER RANGE

Ensure consistency from input to output with the Canon Pro range of professional photo printers. Ideal for clear, detailed, large prints of stills shot on Canon cameras.



#### imagePROGRAF PRO-1000

Gallery quality, A2 desktop printer with class-leading colour and fidelity.



#### imagePROGRAF PRO-300

A desktop imagePROGRAF professional printer for A3+ prints with easy workflow.



#### **PIXMA PRO-200**

Affordable, fast, compact 8-ink dye-based printer with simple controls, for high-quality A3+ prints.

## REMOTE HEAD RANGE



## ROBOTIC CAMERA SYSTEM CR-S700R

- > Pan, tilt and zoom remote control solution
- > Compatible with EOS-1D X Mark III and EOS R3
- Operating footprint approximately 26cm radius (excluding camera and lens)
- > Ideal for installation in tight spaces
- Control remotely and monitor via Ethernet or IP (using a CR-G100 module)
- Control via an optional joystick or gaming controller
- Control and monitor multiple CR- S700R remote heads from one computer

## **PEOPLE-COUNTING RANGE**



- Quickly and accurately count large numbers of people in a predefined area
- > Ideal for real-time response or statistical data
- > Uses easy to deploy security cameras and proprietary AI technology
- > Ideal for wide open spaces such as live events, public transport and urban areas
- > Count thousands of people in seconds
- > Available for Windows and Milestone XProtect software

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## SPECIAL FIRMWARE INTRODUCTION Special, non-standard firmware updates add features, improve performance and enhance security for your Canon products. **SPECIAL FIRMWARE FOR EOS R CAMERAS** "Communication Removal Service" for the Canon EOS Callott 5D Mark IV, EOS-1D X Mark III, EOS R3 and EOS R5. This firmware update permanently disables the camera's Wi-Fi/Bluetooth /LAN/GPS hardware and removes the wireless communication tab from the UI display. Ideal for covert operations that require a more secure and private camera difficult to detect, track or steal information from. EOS **POWERSHOT ZOOM FIRMWARE UPDATE** Increase the camera's sensitivity from ISO 3200 to ISO 12800. Imaging performance can be enhanced to improve evidence-gathering and surveillance. This update boosts low-light performance, adds a date and time stamp for easier cataloguing of evidence, and increases the maximum video recording time from 9 minutes 59 seconds to 29 minutes 59 seconds.



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