

# CR-N300



## IDEAL FOR

### Corporates



### TV Studio and Broadcast



### Higher Education



## KEY FEATURES AND TECHNOLOGY

### Razor Sharp 4K Imagery

A 1/2.3-type CMOS Sensor and DIGIC DV6 processor combine to deliver exceptional 4K UHD imagery (up to 30p), or outstanding Full HD footage thanks to over sampled HD processing. These technologies provide an image quality with superior levels of detail fit for any production.

### Flexible connectivity for your workflow

The CR-N300 features a whole host of connections to ensure the ultimate flexibility in workflows. Featuring a HDMI port which can achieve 4K UHD, 4:2:2 10-bit. The camera also boasts a 3G-SDI port, USB Port, 3.5mm Audio Input and a PoE+ LAN Port.

### 20x Optical zoom for incredible flexibility

Capture all the detail you need, thanks to Canon's advanced 4K optics which feature a flexible 20x optical zoom covering a broad focal range of 29.3-601mm (35mm equivalent), ensuring great flexibility. Equipped with image stabilisation, for minimal image disruption when moving.

### Smooth, precise control

The CR-N300 is equipped with a high-precision drive mechanism, enabling the Pan and Tilt movement to be finely adjusted at variable speeds using controllers such as RC-IP100, Remote Camera Control Application or a tablet via Wi-Fi, to capture the perfect shot.

### IP Streaming and Control to transform your productions

The CR-N300 boasts a comprehensive range of IP control and streaming protocols<sup>1</sup> up to 4K UHD 30p allowing for greater control for your production needs. Featuring major protocols such as NDI | HX<sup>1</sup>, RTMP, RTP/RTSP, RTMPS, SRT, FreeD, Canon's XC Protocol and Standard Communication, it will fit into most new or most existing systems, making it an extremely flexible option.

### Accurate 4K Auto Tracking<sup>2</sup>

Unlock the potential to automatically track the main speaker with face detection as they move on stage. Achieve your ideal tracking setup with multiple adjustments, such as composition size, tracking sensitivity, exclusion zones, priority display area and more.

### Hybrid AF for precise focus

The CR-N300 combines high-precision contrast AF with high-speed phase-detection AF, ensuring rapid and accurate focusing of the subject, even in low light conditions. Equipped with a bespoke external sensor which measures the distance to the subject and compares the point of focus with that determined by the Contrast AF system. This Hybrid AF system is particularly effective in low light situations and provides fast, accurate and reliable Autofocus with greater accuracy than Contrast AF alone.

### Small and compact for easy installation

The CR-N300 is small and discreet at 154 x 178 x 164 mm (W x H x D) and weighs just 2.2kg making it ideal to be installed in environments where space is at a premium.

<sup>1</sup> NDI is a trademark or registered trademark in the United States and other countries

<sup>2</sup> Free Auto Tracking App RA-AT001 (Lite) available via new FW1.5.0 or later. Paid license is necessary for full functionality of auto tracking

# CR-N500

## IDEAL FOR

### Live Events



### TV Studio and Broadcast



### Virtual Production



## KEY FEATURES AND TECHNOLOGY

### Powerful 4K imagery

The 1.0-type CMOS Sensor and DIGIC DV6 processor work in unison to deliver exceptional 4K UHD/30p image quality as well as upscaled Full HD/60p images thanks to over sampled HD processing.

### Excellent imagery in low light

The CR-N500 produces high quality imagery with low noise, even with a minimum illumination of 1.5 lux. The large 1.0- type CMOS sensor and the DIGIC DV6 processor ensure the image quality retains its integrity even in the most challenging of lighting conditions.

### Smooth and precise control

The CR-N500 is equipped with a high-precision drive mechanism enabling fine adjustments of the Pan and Tilt movement and speed ensuring the perfect shot. Compatible with the RC-IP100 and Remote Camera Control Application, the CR-N500 is also compatible with selected third-party controllers.

### Stabilised 15x Optical Zoom to get closer

Canon's advanced 4K optics make sure greater detail is captured, and flexibility assured, with a 15x optical zoom (25.5-382.5mm 35mm equivalent), providing a wide angle to telephoto field of view. Canon's advanced four-axis image stabilisation ensures high quality image capture

### Dual Pixel CMOS AF keeps it sharp

The CR-N500 features Canon's renowned Dual Pixel CMOS Auto Focus system which provides extremely quick and accurate focus via multiple modes.

### HDR Imagery, with versatile image quality adjustments

Achieve stunning HDR imagery with Canon Log 3 and Wide Dynamic Range Support. Both technologies ensure the best HDR imagery can be achieved for applications where postproduction or a quick turnaround is required. The in-built image adjustment settings also ensure flexible and bespoke imagery to colour match with other cameras.

### IP Streaming and Control to transform your production

A comprehensive range of IP control and streaming protocols<sup>1</sup> up to 4K UHD 30p (such as NDI | HX<sup>2</sup>, RTMP, RTP/ RTSP, RTMPS,SRT, FreeD, Canon's XC Protocol and Standard Communication) are included, making the CR-N500 an ideal solution for new or existing systems.

### Extensive Connectors for ease of use

The CR-N500 features a host of connections to ensure the ultimate flexibility, including a 3G-SDI video output, full-sized HDMI port (supporting 4K UHD 30p at 4:2:2 10-bit), professional XLR audio inputs, as well as a PoE+ LAN port to allow for easy system integration.

### Accurate 4K Auto Tracking<sup>3</sup>

Unlock the potential to track the main speaker with face detection as they move around the stage, automatically. Capable of multiple adjustments, settings such as composition size, tracking sensitivity, exclusion zones, priority display area and more mean the ideal tracking set-up can be easily achieved.

<sup>1</sup> Supports 4K UHD signal over IP at 29.97p, 4:2:0 8-bit. Supports 4K UHD signal over HDMI at 29.97p, 4:2:2 10-bit

<sup>2</sup> NDI is a trademark or registered trademark in the United States and other countries

<sup>3</sup> Free Auto Tracking App RA-AT001(Lite) available via new FW, 1.5.0 or later. Paid license is necessary for full functionality of auto tracking

# RANGE COMPARISON



**CR-N100**



**CR-N300**



**CR-N500**



**CR-N700**

	A high quality 4K PTZ camera with advanced autofocus, 20x optical zoom and multiple IP protocols.	Equipped with 4K UHD resolution, a 20x optical zoom, Hybrid Auto Focus, numerous IP streaming and control protocols, you can engage your audience in new ways.	With a 15x optical zoom, 4K UHD shooting capabilities and Dual Pixel Auto Focus, the CR-N500 allows for precise control and seamless IP streaming with exceptional results	Exceptional 4K60P professional PTZ camera with 12G-SDI connectivity and class-leading auto focus with intelligent head detection and eye tracking.
<b>Sensor Size</b>	1/2.3-Type CMOS	1/2.3-Type CMOS	1.0-Type CMOS	1.0-Type CMOS
<b>Maximum Resolution</b>	4K UHD 30P 4:2:2 10-bit <sup>1</sup>	4K UHD 30P 4:2:2 10-bit <sup>1</sup>	4K UHD 30P 4:2:2 10-bit <sup>1</sup>	4K UHD 60P 4:2:2 10-bit <sup>2</sup>
<b>Optical Zoom</b>	20x Optical	20x Optical	15x Optical	15x Optical
<b>Focussing System</b>	Hybrid AF/ Face Detection	Hybrid AF/ Face Detection	Dual Pixel CMOS AF/ Face Detection	Dual Pixel CMOS AF / iTR AF X/ Eye AF
<b>Protocol support</b>	NDI HX, SRT, XC Protocol, RTSP/RTP, RTMP/RTMPS, Standard Communication	NDI HX, SRT, FreeD, XC Protocol, RTSP/RTP, RTMP/RTMPS, Standard Communication	NDI HX, SRT, FreeD, XC Protocol, RTSP/RTP, RTMP/RTMPS, Standard Communication	NDI HX, SRT, FreeD, XC Protocol, RTSP/RTP, RTMP/RTMPS, Standard Communication
<b>Video Output I/F</b>	HDMI/USB-C/IP	3G-SDI/HDMI/ USB-C/IP	3G-SDI/HDMI/IP	12G-SDI/3G-SDI/HDMI/IP
<b>Mic input I/F</b>	3.5mm mini jack	3.5mm mini jack	XLR/3.5mm mini jack	XLR/3.5mm mini jack

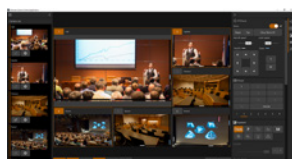
<sup>1</sup>HDMI output  
<sup>2</sup>12G-SDI and HDMI output

## RELATED PRODUCTS



**RC-IP100**

A high quality controller with a multi-function joystick and intuitive touchscreen for easy control of up to 100 connected cameras.



**Remote camera control application**

Free to download Canon software to control and adjust settings on up to 20 PTZ cameras from your PC or tablet.



**RC-IP1000**

Control and monitor up to 200 cameras using this professional PTZ controller with a 7-inch multi-function touchscreen, an ergonomic joystick and zoom rocker plus buttons and dials for precise control.



**Multi Camera Management Application**

A PC application that allows multiple cameras and controllers to be set up, monitored, and managed from a single software application.