



## CR-X500 REMOTE CAMERA

# ALL-WEATHER 4K AT YOUR FINGERTIPS



### High-Quality 4K 60P Image

Canon 15x Optical  
4K UHD Zoom Lens

Smooth Pan, Tilt and  
Zoom Operation

Seamless Integration into  
Canon Imaging Workflow

IP-55 Water and Dust  
Resistance

Built-in Wiper

Easy Integration

The CR-X500 4K UHD PTZ Camera is a successor to Canon's well-established BU-47H HD PTZ camera. Targeted to bring exceptional image quality at 4K resolution for outdoor use by broadcasters, cable networks, sports stadiums and for weather and traffic monitoring, this camera is IP-55 rated for dust and water resistance and is equipped with powerful features and functions.

The CR-X500 PTZ produces incredible 4K image quality with the combination of a 1" CMOS sensor, Dual DIGIC DV 6 image processors and 15x Optical 4K UHD Zoom lens. These core components provide the image-processing power and speed that enables 4K UHD video at up to 60P over 12G-SDI and precise focus with Dual Pixel CMOS AF.

### HIGH QUALITY 4K 60P IMAGE

The CR-X500 features a Canon 1.0-inch 4K CMOS image sensor capable of 4K UHD video capture at 60P, making it a versatile addition to any 4K workflow.

The CR-X500's 1.0-inch sensor allows for larger photosites compared to smaller-sized sensors, resulting in improved images with less noise in low-light situations. The larger sensor also exhibits a shallower depth of field at large apertures, providing greater depth of field control and more creative options. The CR-X500's Dual DIGIC DV 6 Imaging Processors further enhance the high sensitivity (3.0 lux\*) and low noise performance of the camera.

The CR-X500 PTZ camera incorporates dual Canon DIGIC DV 6 Image Processors, which are essential in providing high-quality imagery, advanced performance and convenient operability. This advanced core technology component provides the image-processing power and speed that enables features such as 4K UHD video acquisition, precise Dual Pixel CMOS AF and Advanced Zoom function.

\*When camera set to: (3840 × 2160 : shutter speed 1/30 sec., Frame Rate 29.97P, Gain 33.0 dB).

### CANON 15X OPTICAL 4K UHD ZOOM LENS

The CR-X500 features a 15x Optical 4K UHD Zoom lens with a 35mm equivalent range for 25.5mm – 382.5mm. This zoom range helps to capture wide angle environment shots to telephoto detail subject shots.

The lens group zoom system makes the 4K UHD lens compact and slim while providing support for the CMOS sensor.

Aspheric lens elements are utilized to achieve 4K image quality while correcting various aberrations over the entire zoom range.

The CR-X500 is equipped with a built-in ND filter mechanism that allows the user to select from three densities: 1/4, 1/16 or 1/64. With the built-in ND filter, users can achieve rich video expression by controlling aperture values.

# CR-X500

## REMOTE CAMERA



SPECIFICATION	PARAMETER
COLOR	White
OPERATING CONDITION	Outdoor
IMAGE SENSOR	Type 1.0 (1.0 in.) single-plate CMOS sensor Total pixels: approx. 13.40 megapixels Effective pixels: approx. 8.29 megapixels (3840 x 2160)
LENS	f=8.3 – 124.5 mm, F/2.8 – 4.5, 15x optical zoom, 9-bladed iris diaphragm 35mm equivalent focal length: approx. 25.5 (W) – 382.5 mm (T)
ZOOM	Optical: 15x Advanced Zoom FHD: 30x
LENS CONFIGURATION	18 elements in 14 groups (including 2 aspheric elements)
IMAGE STABILIZER	Optical-shift
SHUTTER SPEED	Auto, Manual 1/3 – 1/1000 sec.
IRIS	Auto, Manual
GAIN	Auto, Manual 0 db ~ 33.0 dB
ND FILTER	Built-in (Off, 1/4, 1/16, 1/64), motor operated
COLOR SAMPLING	4:2:2, 10-bit
WHITE BALANCE	AUTO (AWB), Set
FOCUS	Dual Pixel CMOS AF
GAMMA	Normal1: BT.709, Normal1: BT.2020, Wide DR: BT.709, Wide DR: BT.2020, PQ: BT.2020, HLG: BT.2020, Canon Log 3: BT.709, Canon Log 3: BT.2020
IMAGE QUALITY ADJUSTMENT	Master Pedestal, R-Gain, B-Gain, R-Black, B-Black, Gamma, Color Matrix, Knee, Skin Detail, Sharpness, Black Gamma, Noise Reduction
MIN. SUBJECT ILLUMINATION	Approx. 3 lux (shutter speed 1/60 sec., Frame Rate 5994P, Gain 33.0 dB)

CAMERA

SPECIFICATION	PARAMETER	
PAN AND TILT	PAN AND TILT	Pan operation range: Horizontal ±170° Pan operation speed: 0.5° ~ 25°/sec. Tilt operation range: Vertical -50° ~ +30° Tilt operation speed: 0.3° ~ 20°/sec.
	PAN, TILT, ZOOM OPERATION	Simultaneous
	REPEATABILITY	± 7'
	TURNING RADIUS	Pan: 620mm dia., Tilt: 430mm dia.
OUTPUT FORMAT	SDI	3840x2160: 5994P (4:2:2 10 bit) 1920 x 1080: 5994P/5994i, 50.00P/50.00i/25.00P, 2997P/23.98P (4:2:2 10 bit)
	SUPPORTED CONTROL PROTOCOLS	Canon NU Protocol
INTERFACE	CONTROL TERMINAL	RS-422 Serial
	12G-SDI OUT TERMINAL	BNC jack (output only) x 1
	GEN-LOCK TERMINAL	BNC jack x 1
	AUX TERMINAL	Yes
ENVIRONMENTAL	DUSTPROOF WATERPROOF RATING	IP55
	WIPER	Yes
	PAINT	Salt-resistant
	NOISE	NC55 or less
	WIND RESISTANCE	Normal Operation: 0-25m/s Operation Possible: 25-35m/s Non-Destructive: 35-60m/s
	OPERATING ENVIRONMENT	Temperature: +5°F – +104°F (-15°C – +40°C) Humidity: 10% – 90% (without condensation)
OTHER	POWER SOURCE	External: DC 10.5-15 V, 90W
	DIMENSIONS (W X H X D)	Approx. 13.27 x 15.35 x 15.2 in. (337 x 390 x 386 mm) (excluding protrusions)
	WEIGHT	Approx. 37.48 lbs. (170 kg)
	SUPPORTED CONTROLLERS	Hardware: RC-IP100

## RC-IP100 REMOTE CAMERA CONTROLLER



Canon's RC-IP100 Remote Camera Controller provides control for a Canon camera through the serial port. Additionally, up to 99 supported Canon cameras can be operated via IP control. The controller is equipped with a 7" interactive touch screen and a joystick in order to pan, tilt, zoom and change camera function settings remotely. The smooth precision of the joystick allows operators to capture on-air movements with confidence.

*RC-IP100 Remote Camera Controller sold separately.*

For more info: [pro.usa.canon.com](http://pro.usa.canon.com)

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