

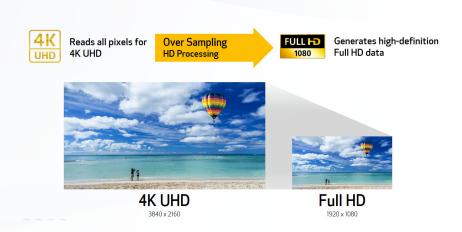
FEATURES AND BENEFITS

Canon's line of professional PTZ cameras are engineered to provide the highest level of image quality and compatibility for demanding professionals in a multitude of production applications.

>>> BROADCAST-QUALITY VIDEO

Drawing on over 80 years of imaging excellence, these cameras utilize genuine Canon lenses and a DIGIC DV6 imaging processor to provide 4K UHD video that can effortlessly match with Canon's Cinema EOS cameras to provide a uniform look to your broadcast or live stream. Common features of the 4K PTZ line of cameras include:

- · Fast and precise autofocus
- · Smooth on-air camera movements
- Oversampling HD processing for better looking HD video
- · Built-in image stabilization
- · Powerful low-light performance



Canon 4K Video System



Optical Zoom Lens



4K UHD CMOS Pro Image Sensor



DiG!C DV 6 Pro Image Processor

>>> FLEXIBLE CONNECTIVITY

The Canon PTZ camera lineup* offers a variety of IP connectivity possibilities, including support for Canon's XC Protocol, VISCA (IP), VISCA (serial), RTSP/RTP, RTMP/RTMPS, NU, RTMP, and NDI®|HX. Utilizing today's most popular live production protocols and streaming platforms, the cameras deliver stunning, high quality 4K video in real time, eliminating the wait for completed video files to download.

Canon's XC Protocol provides control, communication, and high quality video streaming within your favorite

application. This flexible IP makes it easy to control and adjust the orientation, zoom, and picture quality remotely for multiple cameras within the same system. It is also available in select models of Cinema EOS cameras, allowing productions to operate both sets of cameras using the same controller.

The cameras are also compatible with the Canon's RC-IP100 controller, the Remote Camera Control Application via IP* and selected third-party controllers, making integration with existing set-ups a breeze.

*CR-X500 does not support IP or any of the IP protocols listed. NU protocol supported via serial RS-422 only.



CANON 4K PTZ CAMERA LINEUP

INDOOR CAMERAS

CR-N300 REMOTE CAMERA





- · High Quality 4K 30P and FHD 60P Video Output
- 1/2.3" Type CMOS Sensor
- DIGIC DV 6 Image Processor
- Hybrid AF
- · PoE+ Single Cable IP operation
- Variable Pan speed of .2° 300°/second and variable Tilt speed of .2° - 170°/second
- Virtually Seamless Integration into Canon Imaging Workflow

OUTDOOR CAMERAS

CR-X300 REMOTE CAMERA





- · High Quality 4K 30P and FHD 60P Video Output
- 1/2.3" Type CMOS Sensor
- · DIGIC DV 6 Image Processor
- IR Mode
- Optical Image Stabilization
- PoE++ Single Cable IP operation
- IP65 Water and Dust Resistant
- Built-in Wiper
- Durable Aluminum Body
- Virtually Seamless Integration into Canon Imaging Workflow
- · Various Interfaces Supported for Multiple Environments

Optical Image Stabilization

- Easy Integration into IP Streaming
- Various Interfaces Supported for Multiple Environments

CR-N500 REMOTE CAMERA







- 1.0" Type CMOS Sensor
- DIGIC DV 6 Image Processor
- Canon Log 3, Wide DR Gamma Supported
- **Dual Pixel CMOS AF**
- **Dual Pixel Focus Guide**
- Face Detection & Tracking
- · PoE+ Single Cable IP operation
- Variable Pan and Tilt speed of .1° 100°/second
- · Optical Image Stabilization
- Virtually Seamless Integration into Canon Imaging Workflow
- Easy Integration into IP Streaming
- Various Interfaces Supported for Multiple Environments







- High Quality 4K 60P Video Output
- 1.0" Type CMOS Sensor
- · Dual Pixel CMOS AF
- Dual DIGIC DV 6 Image **Processors**
- Wide ±170° Pan/ +30 ~ -50° Tilt Coverage
- · Canon Log 3, Wide DR
- Gamma Supported IP65 Water and Dust Resistant
- Built-in Wiper
- Durable Aluminum Body
- · Virtually Seamless Integration into Canon Imaging Workflow
- · Various Interfaces Supported for Multiple Environments





RC-IP100 Remote Camera Controller

Canon's RC-IP100 Remote Camera Controller provides IP control for up to 99 supported Canon cameras. An additional Canon camera can be controlled through the serial port. 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.

SPECIFICATIONS



	SPECIFICATION	CR-N300	CR-N500	CR-X300	CR-X500
	OPERATING CONDITION	Indoor Ou			
	IMAGE SENSOR	Type 1/2.3 (1/2.3 in.) single-plate CMOS sensor Total pixels: approx. 21.14 megapixels Effective pixels: approx. 8.29 megapixels (3840 x 2160)	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)	1/2.3" 4K UHD CMOS Pro Image Sensor Total pixels: approx. 21.14 megapixels Effective pixels: approx. 8.29 megapixels (3840 x 2160)	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=3.67 – 73.4 mm, F/1.8 – 2.8, 8-bladed circular aperture	f=8.3 – 124.5 mm, F/2.8 – 4.5, 9-bladed iris diaphragm	f=3.67 – 73.4 mm, F/1.8 – 2.8, 8-bladed circular aperture	f=8.3 – 124.5 mm, F/2.8 – 4.5, 9-bladed iris diaphragm
	Z00M	Optical: 20x Digital: 20x	Optical: 15x Digital: 20x	Optical: 20x Digital: 20x	Optical: 15x Advanced Zoom FHD: 30x
	ANGLE OF VIEW	4K UHD: Full HD: Horizontal: 65.6 (W) – 3.6° (T) Horizontal: 63.5 (W) – 3.4° (T) Vertical: 39.8° (W) – 2.0° (T) Vertical: 38.4° (W) – 1.9° (T)	Horizontal: 73.0 (W) – 5.7° (T) Vertical: 45.2° (W) – 3.2° (T)	4K UHD: Horizontal: 65.6 (W) – 3.6° (T) Horizontal: 63.5 (W) – 3.4° (T) Vertical: 39.8° (W) – 2.0° (T) Vertical: 38.4° (W) – 1.9° (T)	Horizontal: 73.0 (W) – 5.7° (T) Vertical: 45.2° (W) – 3.2° (T)
	SHUTTER SPEED	1/6 – 1/2000 sec.	1/3 – 1/2000 sec.	1/6 – 1/2000 sec.	Auto. Manual 1/3 – 1/1000 sec.
	IDIO	(specific values depend on the frame frequency and frame rate) (specific values depend on the frame frequency)		(specific values depend on the frame frequency)	,
	IRIS	Manual/Automatic aperture		0.0 ID 00 ID	Auto, Manual
R	GAIN	0.0 dB – 36 dB	-6.0 db ~ 33.0 db	0.0 dB – 36 dB	Auto, Manual O db ~ 33.0 dB
CAMERA	ND FILTER WHITE BALANCE	Built-in (1/8 at maximum, gradation ND), motor operated	Built-in (Off, 1/4, 1/16, 1/64), motor operated	ND filter: 1/8 at maximum Enhanced ND filter: 1/32	Built-in (Off, 1/4, 1/16, 1/64), motor operated
ت	WHITE DALANGE	AUTO (AWB), Set A, Set B, preset settings (daylight: 5,600 K*, tungsten lamp: 3,200 K*), color temperature setting (2,000 K – 15,000 K), Manual "Color temperatures are given for reference purposes only.			AUTO (AWB), Set
	FOCUS	Focus mode: Manual, Continuous AF, Face AF, Tracking AF type: Hybrid AF, Contrast AF	Focus mode: Manual, AF-boosted MF, Continuous AF, Face AF, Tracking AF type: Dual Pixel CMOS AF, Contrast AF	Focus Mode: Manual, Continuous AF, Face Detection AF, Tracking AF type: Hybrid AF, Contrast AF	Dual Pixel CMOS AF
	GAMMA	Normal 1 (Standard), Normal 3 (BT.709)	Normal1 (Standard), Normal2 (x4.0), Normal3 (BT.709), Normal4 (x5.0), Wide DR, Canon Log 3	Normal 1 (Standard), Normal 3 (BT.709)	Normal1: BT.709, Normal1: BT.2020, Wide DR: BT709, Wide DR: BT2020, PQ: BT2020, HLG: BT2020, Canon Log 3: BT709, Canon Log 3: BT2020
	IMAGE STABILIZER	Optical-shift Optical		Optical-shift (Standard IS, Powered IS)	Optical-shift
	MIN. SUBJECT ILLUMINATION	Approx. 1.5 lux (shutter speed 1/30 sec., frame frequency 59.94 Hz, (P (Programmed AE) Shooting Mode), (Auto Slow Shutter On)	3840x2160: Approx. 1.5 lux (shutter speed 1/30 sec., frame frequency 29.97P, Gain 33.0 dB) 1920x1080: Approx. 3 lux (shutter speed 1/60 sec., frame frequency 59.94P, Gain 33.0 dB)	Approx. 3.0 lux (shutter speed 1/60 sec, frame frequency 59.94Hz (P (Program AE) shooting mode), auto slow shutter "Off")	Approx. 3 lux (shutter speed 1/60 sec., Frame Rate 59.94P, Gain 33.0 dB)
	PAN, TILT, ZOOM OPERATION	Pan Range: Horizontal ±170° Speed: 0.2° – 300°/sec. Tilt Range: Vertical -30° – +100° Speed: 0.2° – 180°/sec.	Pan Range: Horizontal ±170° Speed: 0.1° – 100°/sec. Tilt Range: Vertical -30° – +90° Speed: 0.1° – 100°/sec.	Pan Range: Horizontal ±180° Speed: 0.3° – 60°/sec. Tilt Range: Vertical -40° – +215° Speed: 0.3° – 60°/sec.	Pan Range: Horizontal ±170° Speed: 0.5° – ~25°/sec. Tilt Range: Vertical -50° – +30° Speed: 0.3° – ~20°/sec.
VIDEO OUTPUT FORMAT	SDI		23.98P (4.2.2 10 bit) 1280x720 : 59.94P, 50.00P (4.2.2 10 bit)	3840x2160: 29.97P, 25.00P, 23.98P (4:2:2 10 bit) 1920x1080: 59.94P/59.94i, 50.00P/50.00i/25.00P, 29.97P/23.98P (4:2:2 10 bit) 1280x720: 59.94P, 50.00P (4:2:2 10 bit)	3840x2160 : 59.94P (4:2:2 10 bit) 1920x1080 : 59.94P/59.94i, 50.00P/50.00i/25.00P, 29.97P/23.98P (4:2:2 10 bit)
	HDMI	"Same video format required for SDI and HDMI (cannot select different formats for SDI and HDMI) "When 3840 x 2160 is selected for HDMI, video will not be outputted to SDI 3840x2160: 29.97P, 25.00P, 23.98P (4:2:2 10 bit) 1920x1080: 59.94P/59.94i, 50.00P/50.00i/25.00P, 29.97P/23.98P (4:2:2 10 bit) 1280x720: 59.94P, 50.00P (4:2:2 10 bit)			
	IIIIIII	*Same video format required for SDI and HDMI (cannot select different formats for SDI and HDMI) *When 3840 x 2160 is selected for HDMI, video will not be outputted to SDI. Frame frequency 59.94 Hz Frame frequency 29.97 Hz Frame frequency 50.00 Hz Frame frequency 25.00 Hz Frame frequency 23.98 Hz			
	IP	1920 x 1080: 59.94fps, 29.97fps, 14.99fps, 5.00fps (4:20 8 bit) 1920 x 1080: 29.97fps, 14.99fps, 5.00fps (4:20 8 bit) 1280 x 720: 59.94fps, 29.97fps, 14.99fps, 5.00fps (4:20 8 bit) 1280 x 720: 29.97fps, 14.99fps, 5.00fps (4:20 8 bit) 5.00fps (4:20 8 bit) 640 x 360: 29.97fps, 14.99fps, 5.00fps (4:20 8 bit) 640 x 360: 29.97fps, 5.00fps (4:20 8 bit) 640 x 360: 29.97fps, 14.99fps, 5.00fps (4:20 8 bit) 640 x 360: 29.97fps, 14.99fps, 5.00fps (4:20 8 bit) 640 x 360: 29.97fps, 14.99fps, 5.00fps (4:20 8 bit) 640 x 360: 29.97fps, 14.99fps, 5.00fps (4:20 8 bit) 640 x 360: 29.97fps, 14.99fps, 5.00fps (4:20 8 bit) 640 x 360: 29.97fps, 14.99fps, 5.00fps (4:20 8 bit) 640 x 360: 29.97fps, 14.99fps, 5.00fps (4:20 8 bit) 640 x 360: 29.97fps, 14.99fps, 5.00fps (4:20 8 bit) 640 x 360: 29.97fps, 14.99fps, 5.00fps (4:20 8 bit) 640 x 360: 29.97fps, 14.99fps, 5.00fps (4:20 8 bit) 640 x 360: 29.97fps, 14.99fps, 5.00fps (4:20 8 bit) 640 x 360: 29.97fps, 14.99fps, 5.00fps (4:20 8 bit) 640 x 360: 29.97fps, 14.99fps, 5.00fps (4:20 8 bit) 640 x 360: 29.97fps, 14.99fps, 5.00fps (4:20 8 bit) 640 x 360: 29.97fps, 14.99fps, 5.00fps (4:20 8 bit) 640 x 360: 29.97fps, 14.99fps, 5.00fps (4:20 8 bit) 640 x 360: 29.97fps, 14.99fps, 5.00fps (4:20 8 bit) 640 x 360: 29.97fps, 14.99fps, 5.00fps (4:20 8 bit) 640 x 360: 29.97fps, 14.99fps, 5.00fps (4:20 8 bit) 640 x 360: 29.97fps, 14.99fps, 5.00fps (4:20 8 bit) 640 x 360: 29.97fps, 14.99fps, 5.00fps (4:20 8 bit) 640 x 360: 29.97fps, 14.99fps, 5.00fps (4:20 8 bit) 640 x 360: 29.97fps, 14.99fps, 5.00fps (4:20 8 bit) 640 x 360: 29.97fps, 14.99fps, 5.00fps (4:20 8 bit) 640 x 360: 29.97fps, 14.99fps, 5.00fps (4:20 8 bit) 640 x 360: 29.97fps, 14.99fps, 5.00fps (4:20 8 bit) 640 x 360: 29.97fps, 14.99fps, 5.00fps (4:20 8 bit) 640 x 360: 29.97fps, 14.99fps, 5.00fps (4:20 8 bit) 640 x 360: 29.97fps, 14.99fps, 5.00fps (4:20 8 bit) 640 x 360: 29.97fps, 14.99fps (4:20 8 bit) 640 x 360: 29.97fps (4:20 8 bit) 640 x 360: 29.	2:20 8 bit) 25.00 fps. 12.50 fps. 500 fps 12.50 fps. 9:7 fps. (4:20 8 bit) 1920 2:40 8 bit) 1280 x 720 : 50.00 fps. 12.50 fps. 1,14.99 fps. 25.00 fps. 12.50 fps. 500 fps 1250 fps. 1,4.99 fps. 640 x 360 : 50.00 fps. 25.00 fps. 640 x 360 : 60.00 fps.	x 2160: 25.00fps, 5.00fps (4:2:0 8 bit) x 720: 25.00fps, 5.00fps (4:2:0 8 bit) x 720: 25.00fps, 5: 5.00fps (4:2:0 8 bit) x 720: 25.00fps, 1280 x 720: 23.98fps, 11.99fps, 5: 5.90fps (4:2:0 8 bit) 1280 x 720: 23.98fps, 11.99fps, 5: 99fps (4:2:0 8 bit) 640 x 360: 23.98fps, 11.99fps, 5: 99fps (4:2:0 8 bit) 640 x 360: 23.98fps, 11.99fps, 640 x 360: 23.98fps, 11.99fps, 640 x 360: 23.98fps, 11.99fps,	
	USB	Motion JPEG: 1920x1080, 1280 x 720, 640 x 360			
		59.94 Hz: 12.00 fps, 5.00 fps 50.00 Hz: 12.50 fps, 5.00 fps			
	SUPPORTED PROTOCOLS		 DI® HX, RTMP/RTMPS, Standard (VISCA) Communication (Serial),	Standard (VISCA) Communication (IP)	Control: Canon NU Protocol
	SUPPORTED PROTOCOLS COMMUNICATION CONTROL	Protocol: XC Protocol, RTSP/RTP, ND		Standard (VISCA) Communication (IP) LAN. Serial	Control: Canon NU Protocol
	COMMUNICATION CONTROL		LAN, Wi-Fi, Serial, IR	, , , ,	Control: Canon NU Protocol
		Protocol: XC Protocol, RTSP/RTP, ND LAN, Wi-Fi, Serial, IR, USB 3G-SDI, BNC jack (output only) x 1, 0.8 Vp-p/75 Ω, unbala		, , , ,	Control: Canon NU Protocol 12G-SDI, BNC jack (output only) x1
	COMMUNICATION CONTROL NETWORK TERMINAL	Protocol: XC Protocol, RTSP/RTP, ND LAN, Wi-Fi, Serial, IR, USB 3G-SDI, BNC jack (output only) x 1, 0.8 Vp-p/75 Ω, unbala	LAN, Wi-Fi, Serial, IR LAN x 1, RJ45, 1000Base-T anced SMPTE 424, SMPTE 425, SMPTE ST 299-2 compliant	LAN, Serial 6G-SDI, BNC jack (output only) x 1, 0,8 Vp-p/75 \(\sigma\), unbalanced SMPTE 2081, 424, 425, ST 299-2 compliant Embedded audio, Time code (VITC/LTC)	
<u> </u>	COMMUNICATION CONTROL NETWORK TERMINAL SDI OUT TERMINAL	Protocol: XC Protocol, RTSP/RTP, ND LAN, Wi-Fi, Serial, IR, USB 3G-SDI, BNC jack (output only) x 1, 0.8 Vp-p/75 Ω, unbala	LAN, Wi-Fi, Serial, IR LAN x 1, RJ45, 1000Base-T anced SMPTE 424, SMPTE 425, SMPTE ST 299-2 compliant ime code (VITC/LTC)	LAN, Serial 6G-SDI, BNC jack (output only) x 1, 0,8 Vp-p/75 \(\sigma\), unbalanced SMPTE 2081, 424, 425, ST 299-2 compliant Embedded audio, Time code (VITC/LTC)	12G-SDI, BNC jack (output only) x 1
FACE	COMMUNICATION CONTROL NETWORK TERMINAL SDI OUT TERMINAL GEN-LOCK TERMINAL	Protocol: XC Protocol, RTSP/RTP, ND LAN, Wi-Fi, Serial, IR, USB 3G-SDI, BNC jack (output only) x 1, 0.8 Vp-p/75 Ω, unbala	LAN, Wi-Fi, Serial, IR LAN x 1, RJ45, 1000Base-T anced SMPTE 424, SMPTE 425, SMPTE ST 299-2 compliant ime code (VITC/LTC) BNC jack x 1, 1.0 Vp	LAN, Serial 6G-SDI, BNC jack (output only) x 1, 0,8 Vp-p/75 \(\sigma\), unbalanced SMPTE 2081, 424, 425, ST 299-2 compliant Embedded audio, Time code (VITC/LTC)	12G-SDI, BNC jack (output only) x 1
INTERFACE	COMMUNICATION CONTROL NETWORK TERMINAL SDI OUT TERMINAL GEN-LOCK TERMINAL HDMI OUT TERMINAL	Protocol: XC Protocol, RTSP/RTP, ND LAN, Wi-Fi, Serial, IR, USB 3G-SDI, BNC jack (output only) x 1, 0.8 Vp-p/75 Ω, unbala Embedded audio, Tii 93.5 mm stereo mini jack (unbalanced, plug-in power suppo scale -18 dB)/1 kc2 or more/Att: 20 dB · Sensitivity (LINE)-1	LAN, Wi-Fi, Serial, IR LAN x 1, RJ45, 1000Base-T anced SMPTE 424, SMPTE 425, SMPTE ST 299-2 compliant ime code (VITC/LTC) BNC jack x 1, 1.0 Vp HDMI connector x 1, output only	LAN, Serial 6G-SDI, BNC jack (output only) x 1, 0,8 Vp-p/75 \(\sigma\), unbalanced SMPTE 2081, 424, 425, ST 299-2 compliant Embedded audio, Time code (VITC/LTC)	12G-SDI, BNC jack (output only) x 1 BNC jack x 1
INTERFACE	COMMUNICATION CONTROL NETWORK TERMINAL SDI OUT TERMINAL GEN-LOCK TERMINAL HDMI OUT TERMINAL RS-422 TERMINAL	Protocol: XC Protocol, RTSP/RTP, ND LAN, Wi-Fi, Serial, IR, USB 3G-SDI, BNC jack (output only) x 1, 0.8 Vp-p/75 Ω, unbala Embedded audio, Tii 93.5 mm stereo mini jack (unbalanced, plug-in power suppo scale -18 dB)/1 kc2 or more/Att: 20 dB · Sensitivity (LINE)-1	LAN, Wi-Fi, Serial, IR LAN x 1, RJ45, 1000Base-T anced SMPTE 424, SMPTE 425, SMPTE ST 299-2 compliant me code (VITC/LTC) BNC jack x 1, 1.0 Vg HDMI connector x 1, output only RJ45 connector x 1 orted) - Sensitivity (MIC): -72 dBV (Manual volume center, full 0 dBV (Manual volume center, full scale -18 dB)/1 kΩ or more	LAN, Serial 6G-SDI, BNC jack (output only) x 1, 0.8 Vp-p/75 Ω, unbalanced SMPTE 2081, 424, 425, ST 299-2 compliant Embedded audio, Time code (VITC/LTC) -p/75 Ω, input only Built-In Waterproof Microphone	12G-SDI, BNC jack (output only) x 1 BNC jack x 1 RS-422 Serial
INTERFACE	COMMUNICATION CONTROL NETWORK TERMINAL SDI OUT TERMINAL GEN-LOCK TERMINAL HDMI OUT TERMINAL RS-422 TERMINAL MIC TERMINAL INPUT 1 / INPUT 2 XLR	Protocol: XC Protocol, RTSP/RTP, ND LAN, Wi-Fi, Serial, IR, USB 3G-SDI, BNC jack (output only) x 1, 0.8 Vp-p/75 Ω, unbala Embedded audio, Tii 93.5 mm stereo mini jack (unbalanced, plug-in power suppo scale -18 dB)/1 kc2 or more/Att: 20 dB · Sensitivity (LINE)-1	LAN, Wi-Fi, Serial, IR LAN x1, RJ45, 1000Base-T anced SMPTE 424, SMPTE 425, SMPTE ST 299-2 compliant me code (VITC/LTC) BNC jack x1, 1.0 Vp HDMI connector x1, output only RJ45 connector x1 of BW (Manual volume center, full scale -18 dB)/1 kΩ or more (Bias resistance: 2.2 kΩ) INPUT (3-pin jack) (pin1-shied, pin2- hot, pin3: cold), 2 sets, balanced Sensitivity (MIC): -60 dBu (Manual volume center, full scale -18 dB)/600 Ω/Att: 20 dB Sensitivity (LINE): +4 dBu (Manual volume center, full scale -18 dB)/1 kΩ or more Supply Voltage: 48 V DC (Bias resistance: 6.8 kΩ	LAN, Serial 6G-SDI, BNC jack (output only) x 1, 0.8 Vp-p/75 Ω, unbalanced SMPTE 2081, 424, 425, ST 299-2 compliant Embedded audio, Time code (VITC/LTC) -p/75 Ω, input only Built-In Waterproof Microphone	12G-SDI, BNC jack (output only) x 1 BNC jack x 1
INTERFACE	COMMUNICATION CONTROL NETWORK TERMINAL SDI OUT TERMINAL GEN-LOCK TERMINAL HDMI OUT TERMINAL RS-422 TERMINAL MIC TERMINAL INPUT 1 / INPUT 2 XLR TERMINALS	Protocol: XC Protocol, RTSP/RTP, ND LAN, Wi-Fi, Serial, IR, USB 3G-SDI, BNC jack (output only) x 1, 0.8 Vp-p/75 \(\omega\), unbala Embedded audio, Tii \(\omega\) 5 mm stereo mini jack (unbalanced, plug-in power suppo scale -18 dB)/1 kc2 or more/Att: 20 dB + Sensitivity (LINE)1 Supply Voltage: 2.4 V DC	LAN, Wi-Fi, Serial, IR LAN x1, RJ45, 1000Base-T anced SMPTE 424, SMPTE 425, SMPTE ST 299-2 compliant me code (VITC/LTC) BNC jack x1, 1.0 Vp HDMI connector x1, output only RJ45 connector x1 of BW (Manual volume center, full scale -18 dB)/1 kΩ or more (Bias resistance: 2.2 kΩ) INPUT (3-pin jack) (pin1-shied, pin2- hot, pin3: cold), 2 sets, balanced Sensitivity (MIC): -60 dBu (Manual volume center, full scale -18 dB)/600 Ω/Att: 20 dB Sensitivity (LINE): +4 dBu (Manual volume center, full scale -18 dB)/1 kΩ or more Supply Voltage: 48 V DC (Bias resistance: 6.8 kΩ	LAN, Serial 6G-SDI, BNC jack (output only) x 1, 0.8 Vp-p/75 Ω, unbalanced SMPTE 2081, 424, 425, ST 299-2 compliant Embedded audio, Time code (VITC/LTC) -p/75 Ω, input only Built-In Waterproof Microphone	12G-SDI, BNC jack (output only) x 1 BNC jack x 1 RS-422 Serial Humidity: 90% or less (without condensation)
	COMMUNICATION CONTROL NETWORK TERMINAL SDI OUT TERMINAL GEN-LOCK TERMINAL HDMI OUT TERMINAL RS-422 TERMINAL MIC TERMINAL INPUT 1 / INPUT 2 XLR TERMINALS OPERATING ENVIRONMENT	Protocol: XC Protocol, RTSP/RTP, ND LAN, Wi-Fi, Serial, IR, USB 3G-SDI, BNC jack (output only) x 1, 0.8 Vp-p/75 Ω, unbala Embedded audio, Tii φ3.5 mm stereo mini jack (unbalanced, plug-in power suppo scale -18 dB)/1 kΩ or more/Att: 20 dB · Sensitivity (LINE): -1 Supply Voltage: 2.4 V DC Temperature: +32°F - +104°F (0°C - +40°C)	LAN, Wi-Fi, Serial, IR LAN x1, RJ45, 1000Base-T anced SMPTE 424, SMPTE 425, SMPTE ST 299-2 compliant me code (VITC/LTC) BNC jack x1, 1.0 Vp HDMI connector x1, output only RJ45 connector x1 of BW (Manual volume center, full scale -18 dB)/1 kΩ or more (Bias resistance: 2.2 kΩ) INPUT (3-pin jack) (pin1-shied, pin2- hot, pin3: cold), 2 sets, balanced Sensitivity (MIC): -60 dBu (Manual volume center, full scale -18 dB)/600 Ω/Att: 20 dB Sensitivity (LINE): +4 dBu (Manual volume center, full scale -18 dB)/1 kΩ or more Supply Voltage: 48 V DC (Bias resistance: 6.8 kΩ	LAN, Serial 6G-SDI, BNC jack (output only) x 1, 0.8 Vp-p/75 Ω, unbalanced SMPTE 2081, 424, 425, ST 299-2 compliant Embedded audio, Time code (VITC/LTC) -p/75 Ω, input only Built-In Waterproof Microphone Temperature: +5°F = +104°F (-15°C = +40°C) Startup Lemperature: +14°C	12G-SDI, BNC jack (output only) x 1 BNC jack x 1 RS-422 Serial Humidity: 90% or less (without condensation) 1047 (10°C40°C)
OTHER INTERFACE	COMMUNICATION CONTROL NETWORK TERMINAL SDI OUT TERMINAL GEN-LOCK TERMINAL HDMI OUT TERMINAL RS-422 TERMINAL MIC TERMINAL INPUT 1 / INPUT 2 XLR TERMINALS OPERATING ENVIRONMENT DUST/WATER RESISTANCE	Protocol: XC Protocol, RTSP/RTP, ND LAN, Wi-Fi, Serial, IR, USB 3G-SDI, BNC jack (output only) x 1, 0.8 Vp-p/75 Ω, unbala Embedded audio, Tii φ3.5 mm stereo mini jack (unbalanced, plug-in power suppo scale -18 dB)/1 kΩ or more/Att: 20 dB · Sensitivity (LINE): -1 Supply Voltage: 2.4 V DC Temperature: +32°F - +104°F (0°C - +40°C)	LAN, Wi-Fi, Serial, IR LAN x1, RJ45, 1000Base-T anced SMPTE 424, SMPTE 425, SMPTE ST 299-2 compliant me code (VITC/LTC) BNC jack x1, 1.0 Vp HDMI connector x1, output only RJ45 connector x1 orted) - Sensitivity (MIC): -72 dBV (Manual volume center, full 0 dBV (Manual volume center, full scale -18 dB)/1 kΩ or more (Bias resistance: 22 kΩ) INPUT (3-pin jack) (pin1: shield, pin2: hot, pin3: cold), 2 sets, balanced Sensitivity (MIC): -60 dBu (Manual volume center, full scale -18 dB)/600 Ω/Att: 20 dB Sensitivity (LINE): +4 dbu (Manual volume center, full scale -18 dB)/1 kΩ or more Supply Voltage: 48 V DC (Bias resistance: 6.8 kΩ Humidity: 10% – 90% (without condensation)	LAN, Serial 6G-SDI, BNC jack (output only) x 1, 0.8 Vp-p/75 \(\Omega\), unbalanced SMPTE 2081, 424, 425, ST 299-2 compliant Embedded audio, Time code (VITC/LTC) -p/75 \(\Omega\), input only Built-In Waterproof Microphone Temperature: +5°F - +104°F (-15°C - +40°C) Startup temperature: +4°T IP65 PoE: PoE++ power supply via LAN connector (IEEE802.3bt compliant) - PoE and PoE+ cannot be used External power source: 12V 0C	12G-SDI, BNC jack (output only) x 1 BNC jack x 1 RS-422 Serial Humidity: 90% or less (without condensation) 1047 (10°C40°C)
	COMMUNICATION CONTROL NETWORK TERMINAL SDI OUT TERMINAL GEN-LOCK TERMINAL HDMI OUT TERMINAL MIC TERMINAL MIC TERMINAL INPUT 1 / INPUT 2 XLR TERMINALS OPERATING ENVIRONMENT DUST/WATER RESISTANCE POWER SUPPLY	Protocol: XC Protocol, RTSP/RTP, ND LAN, Wi-Fi, Serial, IR, USB 3G-SDI, BNC jack (output only) x 1, 0.8 Vp-p/75 \(\omega_2\), unbala Embedded audio, Tii \[q-3.5 mm stereo mini jack (unbalanced, plug-in power suppo scale -18 dB)/1 ks2 or more/Att-20 dB + Sensitivity (LINE) -1 Supply Voltage: 2.4 V DC Temperature: +32°F - +104°F (0°C - +40°C) PoE: PoE+ power supply via LAN connector (I External power source: 24V I PoE+ Input: Approx. 16.2W* max. (body only) DC Input: Approx. 15.0W max. (body only)	LAN, Wi-Fi, Serial, IR LAN x1, RJ45, 1000Base-T unced SMPTE 424, SMPTE 425, SMPTE ST 299-2 compliant me code (VITC/LTC) BNC jack x1, 1.0 Vp HDMI connector x1, output only RJ45 connector x1 orted) - Sensitivity (MIC): -72 dBV (Manual volume center, full orted) - Sensitivity (MIC): -72 dBV (Manual volume center, full orted) - Sensitivity (MIC): -72 dBV (Manual volume center, full orted) - Sensitivity (MIC): -60 dBu (Manual volume center, full scale -18 dB)/610 cs/Att: 20 dB Sensitivity (MIC): -60 dBu (Manual volume center, full scale -18 dB)/610 cs/Att: 20 dB Sensitivity (MIC): -40 dBu (Manual volume center, full scale -18 dB)/1 ks2 or more Supply Voltage: 48 V DC (Bias resistance: 6.8 ks2 Humidity: 10% - 90% (without condensation) IEEE802.3at compliant) - PoE cannot be used DC (using included AC adaptor) PoE+ Input: Approx. 19.6W* max. (body only) DC Input: Approx. 19.6W* max. (body only)	LAN, Serial 6G-SDI, BNC jack (output only) x 1, 0.8 Vp-p/75 Ω, unbalanced SMPTE 2081, 424, 425, ST 299-2 compliant Embedded audio, Time code (VITC/LTC) -p/75 Ω, input only Built-In Waterproof Microphone Temperature: +5°F - +104°F (-15°C - +40°C) Startup temperature: +10°C - +40°C) Startup temperature: +10°C - +40°C (Startup temperature: +10°C - +40°C) Startup temperature: +10°C - +40°C (Startup temperature: +10°C - +40°C) Startup temperature: +10°C - +40°C (Startup temperature: +10°C - +40°C) Startup temperature: +10°C - +40°C (Startup temperature: +10°C - +4	12G-SDI, BNC jack (output only) x 1 BNC jack x 1 RS-422 Serial Humidity: 90% or less (without condensation) 104°F (10°C40°C) IP55
	COMMUNICATION CONTROL NETWORK TERMINAL SDI OUT TERMINAL GEN-LOCK TERMINAL HDMI OUT TERMINAL RS-422 TERMINAL MIC TERMINAL INPUT 1 / INPUT 2 XLR TERMINALS OPERATING ENVIRONMENT DUST/WATER RESISTANCE POWER SUPPLY POWER CONSUMPTION	Protocol: XC Protocol, RTSP/RTP, ND LAN, Wi-Fi, Serial, IR, USB 3G-SDI, BNC jack (output only) x 1, 0.8 Vp-p/75 s2, unbala Embedded audio, Tii 49.35 mm stereo mini jack (unbalanced, plug-in power suppo scale -18 dB)/1 ks2 or more/Att: 20 dB + Sensitivity (LINE) -11 Supply Voltage: 2.4 V DC Temperature: +32°F -+104°F (0°C -+40°C) PoE: PoE+ power supply via LAN connector (I External power source: 24V I PoE+ Input: Approx. 16.2W* max. (body only) DG Input: Approx. 15.0W max. (body only) Class 4 (253 W respained) for power supply devices	LAN, Wi-Fi, Serial, IR LAN x1, RJ45, 1000Base-T anced SMPTE 424, SMPTE 425, SMPTE ST 299-2 compliant me code (VITC/LTC) BNC jack x1,1.0 Vp HDMI connector x1, output only RJ45 connector x1 roted) - Sensitivity (MIC): -72 dBV (Manual volume center, full 0 dBV (Manual volume center, full scale -18 dB)/1 kΩ or more (Bias resistance: 22 kΩ) INPUT (3-pin jack) (pin1: shield, pin2: hot, pin3: cold), 2 sets, balanced Sensitivity (MIC): -60 dBu (Manual volume center, full scale -18 dB)/600 Ω/Att: 20 dB Sensitivity (LINE): +4 dBu (Manual volume center, full scale -18 dB)/1 kΩ or more Supply Voltage: 48 V DC (Bias resistance: 6.8 kΩ Humidity: 10% – 90% (without condensation) IEEE802.3at compliant) – PoE cannot be used DC (using included AC adaptor) POE+ Input: Approx. 19.6W* max. (body only) DC Input: Approx. 19.6W* max. (body only) DC Input: Approx. 19.6W* max. (body only) Totas 4 (25.5 W required) for power supply devices	LAN, Serial 6G-SDI, BNC jack (output only) x 1, 0.8 Vp-p/75 Ω, unbalanced SMPTE 2081, 424, 425, ST 299-2 compliant Embedded audio, Time code (VITC/LTC) -p/75 Ω, input only Built-In Waterproof Microphone Temperature: +5°F - +104°F (-15°C - +40°C) Startup temperature: +14°T IP65 PoE: PoE++ power supply via LAN connector (IEEE802.3bt compliant) - PoE and PoE+ cannot be used External power source: 12V DC (nos included power cable with DC plug) PoE++ Input: Approx. 33.PW max. (body only) DC Input: Approx. 37.IV max. (body only) **Class 5 (40.0 W required) for power supply devices	12G-SDI, BNC jack (output only) x 1 BNC jack x 1 RS-422 Serial Humidity: 90% or less (without condensation) 104°F (-10°C40°C) IP55
	COMMUNICATION CONTROL NETWORK TERMINAL SDI OUT TERMINAL GEN-LOCK TERMINAL HDMI OUT TERMINAL RS-422 TERMINAL MIC TERMINAL INPUT 1 / INPUT 2 XLR TERMINALS OPERATING ENVIRONMENT DUST/WATER RESISTANCE POWER SUPPLY POWER CONSUMPTION QUIETNESS	Protocol: XC Protocol, RTSP/RTP, ND LAN, Wi-Fi, Serial, IR, USB 3G-SDI, BNC jack (output only) x 1, 0.8 Vp-p/75 \(\Omega\), unbala Embedded audio, Til \(\phi = \text{3.5}\) mm stereo mini jack (unbalanced, plug-in power suppo scale -18 dB)/1 k\(\Omega\) or more/Att: 20 dB · Sensitivity (LINE) -1 Supply Voltage: 2.4 V DC Temperature: +32°F - +104°F (0°C - +40°C) PoE: PoE+ power supply via LAN connector (I External power source: 24V I PoE+ Input: Approx. 15.0W max. (body only) Old Input: Approx. 15.0W max. (body only) Takes 4 (254 required) for power supply deutes NG35 or lower Approx. 6.06 x 7.01 x 6.46 in (154 x 178 x 164 mm)	LAN, Wi-Fi, Serial, IR LAN x1, RJ45, 1000Base-T anced SMPTE 424, SMPTE 425, SMPTE ST 299-2 compliant me code (VITC/LTC) BNC jack x1, 1.0 Vp HDMI connector x1, output only RJ45 connector x1 of dBV (Manual volume center, full scale -18 dB)/1 kΩ or more (Bias resistance: 2.2 kΩ) INPUT (3-pin jack) (pin1- shield, pin2- hot, pin3- cold), 2 sets, balanced Sensitivity (MIC): -60 dBu (Manual volume center, full scale -18 dB)/600 Ω/Att: 20 dB Sensitivity (MIC): -60 dBu (Manual volume center, full scale -18 dB)/1 kΩ or more Supply Voltage: 48 V DC (Bias resistance: 6.8 kΩ Humidity: 10% – 90% (without condensation) IEEE802.3at compliant) – PoE cannot be used DC (using included AC adaptor) POE+ Input: Approx. 19.6W* max. (body only) DC Input: Approx. 19.6W max. (body only) Class 4 (25.5 W required) for power supply devices NC30 or lower	LAN, Serial 6G-SDI, BNC jack (output only) x 1, 0.8 Vp-p/75 Ω, unbalanced SMPTE 2081, 424, 425, ST 299-2 compliant Embedded audio, Time code (VITC/LTC) -p/75 Ω, input only Built-In Waterproof Microphone Temperature: +5°F = +104°F (-15°C = +40°C) Startage temperature: +14°7 IP65 PoE: PoE++ power supply via LAN connector (IEEE802.3bt compliant) = PoE and PoF+ cannot be used External power source: 12V DC (too included power called with DG plug) PoE++ Input: Approx. 33.PW max. (body only) DG Input: Approx. 33.PW max. (body only) **Tobas 5 (40.0 W required file in power supply devices NC45 or lower (when operating at 60°/sec) Approx. 8.54 x 12.24 x 8.54 in. (217 x 311 x 217 mm)	12G-SDI, BNC jack (output only) x 1 BNC jack x 1 RS-422 Serial Humidity: 90% or less (without condensation)104°F (-10°C40°C) IP55 DC 10.5 - 15 V, 90W NC55 or less Approx. 13.27 x 15.35 x 15.2 in. (337 x 390 x 386 mm)

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