

BRC-AM7

Premium PTZ Auto Framing Camera with AI Analytics, 4K 60p, 20x optical zoom. High interoperability with other production systems



Specifications

General

Mass	Approx. 3.5 kg Approx. 7 lb 11.5 oz
Dimensions (W x H x D)	Approx. 168.7 × 225.2 × 192.3 mm Approx. 6 3/4 × 8 7/8 × 7 5/8 in Without projecting object
Power Requirements	DC 12 V (11.0 V to 17.0 V) PoE++ (IEEE 802.3bt Type 4 Class 8 compliant) (41.1 V to 57.0 V)
Power Consumption	≤ 132 W (DC12 V) ≤ 71.3 W (PoE++)
Operating Temperature	0 °C to 40 °C 32 °F to 104 °F -20 °C to +60 °C

Storage Temperature	-4 °F to +140 °F
Ceiling Mount	Yes (with Ceiling Bracket)
Tally Lamp	Left (x1) / Right (x1), Red / Green / Yellow / Blue
Recording Format (Video)	XAVC S Intra 422 XAVC S Long 422 / 420 XAVC HS Long 422 / 420
Recording Format (Audio)	LPCM 24 bits, 48 kHz, 4 channels
Recording Frame Rate	XAVC S Intra 3840 x 2160 / 59.94p, 50p, 29.97p, 25p, 23.98p XAVC S Intra 1920 x 1080 / 59.94p, 50p, 29.97p, 25p, 23.98p XAVC S Long 422 / 420 3840 x 2160 / 119.88p, 100p, 59.94p, 50p, 29.97p, 25p, 23.98p XAVC S Long 422 / 420 1920 x 1080 / 119.88p, 100p, 59.94p, 50p, 29.97p, 25p, 23.98p XAVC HS Long 422 / 420 3840 x 2160 / 119.88p, 100p, 59.94p, 50p, 23.98p
Recording/Playback Time	No
Recording Format	No

(Proxy Audio)

Recording Format (Proxy Video)	No
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Lens

Lens Mount	No
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F-Number (Maximum Aperture)	F2.8 to F4.5
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Optical Zoom	20x
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Focal Length	f = 0.3 to 6.07 in
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Focal Length (35 mm Format Equivalent)	0.94 to 18.9 in
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Focus Range (From the front of the lens)	Approx. 0.39 in to infinity
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Horizontal Viewing Angle	Approx. 75 deg.
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Minimum Object Distance	Approx. 46 deg.
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Camera Section

1.0-type (13.2 mm x 8.8 mm) Exmor

Imaging Device (Type)	RS CMOS sensor
Number of Pixels (Total)	Approx. 20.9 megapixels
Number of Pixels (Effective)	Approx. 14.0 megapixels max.
Optical Low-Pass Filter	Yes
Built-in Optical Filters	Clear, linear variable ND (1/4ND to 1/128ND)
Minimum Illumination	1.2 lx (typical) (3840 x 2160 / 29.97p mode, F2.8, +36 dB gain, SS=1/30 sec, BaseLook=ITU709)
Gain Control	-3 to 36 dB (every 1 dB)
Color Temperature Range	2000 K to 15000 K
ISO Sensitivity	ISO 250 to 16000
Focus	Type: Fast Hybrid AF (phase-detection AF / contrast-detection AF) Focus Point: Max. 475 points (phase-detection AF) Recognition Target: Human

	<p>Focus Area: Wide / Zone / Flexible Spot</p> <p>Other Features: AF Subj. Shift Sensitivity, AF Transition Speed, AF Assist</p>
Output Format	<p>SDI OUT1: 3840 x 2160 / 59.94p, 50p, 29.97p, 25p, 23.98p, 1920 x 1080 / 59.94p, 50p, 59.94i, 50i, 29.97p, 25p, 23.98p, 23.98PsF, 29.97PsF, 25PsF</p> <p>SDI OUT2: 1920 x 1080 / 59.94p, 50p, 29.97p, 25p, 23.98p</p> <p>HDMI: 3840 x 2160 / 59.94p, 50p, 29.97p, 25p, 23.98p, 1920 x 1080 / 59.94p, 50p, 59.94i, 50i, 29.97p, 25p, 23.98p, 720 x 480 / 59.94p, 720 x 576 / 50p</p>
Clear Image Zoom	Approx. 1.5x (QFHD), Approx. 2x (FHD)
Shutter Speed	64 frames to 1/8000 sec
Slow and Quick Motion Function	<p>XAVC S QFHD</p> <p>1 to 60, 100, 120 fps</p> <p>XAVC S HD</p> <p>1 to 60, 100, 120, 150, 180, 200, 240 fps</p>
White Balance	2000 K to 15000 K

Gain	-3 dB to +36 dB (every 1 dB, SDR ITU709)
Gamma Curve	No
Base Look	[S-Cinetone] / [ITU709] / [709tone] / [s709] / [709 (800%)] / [S-Log3] / [HLG Live] / [HLG Mild] / [HLG Natural]
Latitude	No
Night Shot	Yes

Pan-Tilt Section

Pan / Tilt Angle	Pan: -175 deg. to 175 deg. Tilt: -30 deg. to 210 deg.
Pan / Tilt Speed	Pan: 0.004 to 180 deg./sec Tilt: 0.004 to 180 deg./sec
Quietness	NC25 or less*1
Preset Position	100
Pan Tilt Zoom Sync	No
Pan Tilt Zoom Trace	No
PTZ Auto Framing	Yes

Input/Output

Audio Input	XLR-type 3-pin (female) (x2), line / mic / mic +48 V selectable Mic Reference: -30 to -80 dBu 1/8 in Stereo Minijack x1, Mic
SDI Output	SDI OUT1: BNC (x1), 12G-SDI, 6G-SDI, 3G-SDI (Level A/B), HD-SDI SDI OUT2: BNC (x1), 3G-SDI (Level A), HD-SDI
HDMI Output	Type-A connector (x1)
Genlock Input	BNC (x1), 1.0 Vp-p, 75 Ω
Optical Output	SFP+ compliant *2*3
DC Input	XLR-type 4-pin (male) (x1)
Network	RJ-45 (LAN) (x1), 1000BASE-T
Remote Control	RJ-45 (OPTION) (x1) Red Tally IO / Green Tally IO
IR Remote Control	Yes
TC Input / TC Output	BNC (x1), TC IN only

Network/IP Streaming

Protocols	IPv6: TCP, UDP, ICMPv6, HTTP, HTTPS, DHCPv6, DNS, mDNS, RTP / RTCP, RTSP, SRT, FTP, FTPS, NTP IPv4: TCP, UDP, ARP, ICMP, HTTP, HTTPS, DHCP, DNS, mDNS, RTP / RTCP, RTSP, VISCA over IP, SRT, NDI® HX, FTP, FTPS, NTP, S700PTP, RTMP, RTMPS, PTP-IP over SSH, SSDP, TSL- UMD
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IP Stream	Video Resolution: 3840 x 2160, 1920 x 1080, 1280 x 720, 640 x 360 Compression Format: H.264: High / Main / Baseline Profile H.265: Main Profile Maximum Frame Rate: H.264: 59.94fps, H.265: 59.94fps Bitrate Control Mode: CBR / VBR Range of Bitrate Setting: 512 Kbps to 80 Mbps
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NDI® HX Capability	Yes (pre-installed)
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Camera Tracking Data	free-d Type D0 / D1
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Web App

Supported Operation Systems	Windows: Windows 10 or later Mac: macOS 11 or later iPad: iPadOS 16 or later
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Android: Android 11 or later

Supported Web Browsers

Windows: Google Chrome, Edge
 Mac: Google Chrome, Safari
 iPad: Google Chrome, Safari
 Android: Google Chrome

Media

Type

CFexpress Type A / SD card (x2) *3

Supplied Accessories

Kit Lens

No

Accessories

Lens cap (x1)
 Remote commander (RMT-RC3) (x1)
 Ceiling bracket A (x1)
 Ceiling bracket B (x1)
 Screw (M3x8) (x6)
 Screw (M4x8) (x1)
 Wire rope (x1)
 QR code sticker (x1)
 Warranty booklet (x1)

Accessibility

Screen Reader

No

Notes

*1 Sony measurement conditions

2* The output is the same image as SDI OUT1. There is no input function to the camera such as camera control.

*3 Internal recording, playback and SFP+ are not available when powered via PoE++.

Related products



SRG-A40

PTZ Auto Framing Camera with AI Analytics, 30x (w/ CIZ) zoom, and NDI®|HX capability



SRG-A12

PTZ Auto Framing Camera with AI Analytics, 12x optical zoom, and NDI®|HX capability



BRC-X1000

Premium 4K30P PTZ Camera with 12x optical zoom and uncompromising broadcast picture quality



BRC-H800

Premium Full HD PTZ Camera with 12x optical zoom and uncompromising broadcast picture quality



BRC-X400

Premium 4K30P IP PTZ Camera with 30x (w/CIZ) zoom and NDI®|HX capability for use in a wide range of environments



HXC-FZ90

HXC-FZ90 portable studio camera system for HD production



HDC-3200

2/3-inch 4K 3CMOS Camera System



HDC-3500

Three 2/3-inch 4K CMOS sensors portable system camera for fiber operation



RCP-3100

Joystick-type remote control panel for HDC/HSC/HXC series cameras.
5 units in 19-inch EIA rack.



RCP-3500

Remote-control panel for HDC/HSC/HXC series cameras



VENICE

Next generation camera with forward thinking full frame sensor, phenomenal color science and user-friendly operation.



VENICE 2

Full-frame digital cinema camera with internal X-OCN recording and choice of 8K and 6K sensors.



BURANO

Versatile, lightweight, and compact full-frame 8K cinema camera with 16 stops of latitude. Easily configurable for solo and team production

Gallery

