

## 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) *a	Approx. 168.7 × 225.2 × 192.3 mm Approx. 6 3/4 × 8 7/8 × 7 5/8 inches
Power Requirements (DC In)	DC 12 V (11.0 V to 17.0 V)
Power Requirements (PoE)	PoE++ (IEEE 802.3bt Type 4 Class 8 compliant)
Power Consumption (DC In)	≤132 W (DC 12 V)
Power Consumption (PoE)	≤71.3 W (PoE++)
Operating Temperature	0 °C to 40 °C 32 °F to 104 °F
Storage Temperature	-20 °C to +60 °C -4 °F to +140 °F
Quietness *b	NC25 or less
Body Color	Black / White

## Camera

Imaging Device (Type)	1.0-type (13.2 mm x 8.8 mm) Exmor RS CMOS sensor
Number of Pixels (Total)	Approx. 20.9 megapixels
Number of Pixels (Maximum Effective)	Approx. 14.0 megapixels
Optical Low-Pass Filter	Yes
F-number (Maximum aperture)	F2.8 to F4.5
Focal Length	f = 0.3 to 6.07 in

## Camera

Focal Length (35 mm format equivalent)	0.94 to 18.9 in
Focus range (from the front of the lens)	Approx. 0.39 in to infinity
Horizontal Viewing Angle	Approx. 75 deg.
Vertical Viewing Angle	Approx. 46 deg.
Optical Zoom	20x
Clear Image Zoom	Approx. 1.5x (QFHD), Approx. 2x (FHD)
Digital Zoom	No
Tele Convert Mode *c	Yes (1.5x)
Focusing System	Auto / Manual
Focus Type	Fast Hybrid AF (phase-detection AF / contrast-detection AF)
Focus Point	Max. 475 points (phase-detection AF)
Focus Recognition Target	Human
Focus Area	Wide / Zone / Flexible Spot
Focus Features	AF Subj. Shift Sensitivity AF Transition Speed AF Assist
Minimum Illumination *b	1.2 lx (typical) (3840 x 2160 / 29.97p mode, F2.8, +36 dB gain, SS=1/30 sec, BaseLook=ITU709)
Gain	-3 dB to +36 dB (every 1 dB, SDR ITU709)
ISO Sensitivity	ISO 250 to 16000
Shutter Speed	64 frames to 1/8000 sec
Color Temperature Range	2000 K to 15000 K
Base Look	[S-Cinetone] / [ITU709] / [709tone] / [s709] / [709 (800%)] / [S-Log3] / [HLG Live] / [HLG Mild] / [HLG Natural]
Soft Skin Effect	Yes
Built-in ND filter	Clear, linear variable ND (1/4ND to 1/128ND)
Night Shot	Yes
Auto ICR (Auto mode of IR Cut filter Removal)	No
Day/Night	No
Visibility Enhancer	No

## Camera

Image Stabilizer	No
Image Flip	No
Picture Setting File	No

## Pan-Tilt

Pan angle	-175 deg. to 175 deg.
Tilt angle	-30 deg. to 210 deg.
Pan Speed	0.004 deg./sec to 180 deg./sec
Tilt Speed	0.004 deg./sec to 180 deg./sec
Ramp Curve	9 steps
Preset Position	100
Preset Speed Unit	Speed/Time
Picture Freeze Preset	No
PTZ Motion Sync	Yes
PTZ Trace	No

## Interface

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)
HDMI Output	Type-A connector (x1)
Optical Output	SFP+ compliant *e*f
UVC Output	No
Output Format 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 1280 x 720 / 59.94p, 50p
Output Format SDI OUT2	1920 x 1080 / 59.94p, 50p, 29.97p, 25p, 23.98p 1280 x 720 / 59.94p, 50p
Output Format HDMI OUT	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 1280 x 720 / 59.94p, 50p 720 x 480 / 59.94p 720 x 576 / 50p

## Interface

Output Format SFP+	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 1280 x 720 / 59.94p, 50p
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
Sync. System	Internal/External
Genlock Input	BNC (x1), 1.0 Vp-p, 75 Ω
TC Input/TC Output	BNC (x1), TC IN only
VISCA In/Out	RJ-45 (VISCA IN) (x1) RJ-45 (VISCA OUT) (x1)
Network	RJ-45 (LAN) (x1), 1000BASE-T
Option	RJ-45 (OPTION) (x1) Red Tally IO / Green Tally IO
IR Remote Control	Yes
DC Input	XLR-type 4-pin (male) (x1)
Tally Lamp	Left (x1) / Right (x1), Red / Green / Yellow / Blue

## Recording

Recording Function	Yes
Slow and Quick Motion Function (XAVC/QFHD)	1 to 60, 100, 120 fps
Slow and Quick Motion Function (XAVC S/QFHD)	1 to 60, 100, 120 fps
Slow and Quick Motion Function (XAVC/HD)	1 to 60, 100, 120, 150, 180, 200, 240 fps
Slow and Quick Motion Function (XAVC S/HD)	1 to 60, 100, 120, 150, 180, 200, 240 fps
Media Type	CFexpress Type A/SD card (x2) *f
Recording Format (Video) XAVC	XAVC-I XAVC-L
Recording Format (Video) XAVC S	Intra 422 Long 422/420
Recording Format (Audio)	LPCM 24 bit, 48 kHz, 4 channels

## Recording

Recording Frame Rate (XAVC Intra)	3840 x 2160 / 59.94p, 50p, 29.97p, 25p, 23.98p 1920 x 1080 / 59.94p, 50p, 29.97p, 25p, 23.98p 1280 x 720 / 59.94p, 50p
Recording Frame Rate (XAVC Long)	3840 x 2160 / 59.94p, 50p, 29.97p, 25p, 23.98p 1920 x 1080 / 59.94p, 50p, 29.97p, 25p, 23.98p 1280 x 720 / 59.94p, 50p
Recording Frame Rate (XAVC S Intra)	3840 x 2160 / 59.94p, 50p, 29.97p, 25p, 23.98p 1920 x 1080 / 59.94p, 50p, 29.97p, 25p, 23.98p
Recording Frame Rate (XAVC S Long 422/420)	3840 x 2160 / 119.88p, 100p, 59.94p, 50p, 29.97p, 25p, 23.98p 1920 x 1080 / 119.88p, 100p, 59.94p, 50p, 29.97p, 25p, 23.98p
Recording Frame Rate (XAVC HS Long 422/420)	3840 x 2160 / 119.88p, 100p, 59.94p, 50p, 23.98p
Proxy Rec	Yes
Interval Rec	Yes
Picture Cache Rec	Yes

## Network/IP Streaming

Network/Transmission Protocols for IPv6	ICMPv6, MLD, TCP, UDP
Network/Transmission Protocols for IPv4	ARP, ICMP, IGMP, TCP, UDP
Application Protocols for IPv6	DHCPv6, DNS, mDNS, NTP, FTP/FTPS
Application Protocols for IPv4	DHCP, DNS, mDNS, SSDP, NTP, FTP/FTPS
Control Protocols	HTTP/HTTPS, VISCA over IP, S700PTP, PTP-IP over SSH, TSL5.0
Streaming Protocols	RTP/RTCP, RTSP, RTMP/RTMPS, SRT, NDI HX
IP Stream Video Resolution	3840 x 2160, 1920 x 1080, 1280 x 720, 640 x 360
IP Stream Compression Format	H.264: High / Main / Baseline Profile H.265: Main Profile
IP Stream Maximum Frame Rate	H.264: 59.94 fps H.265: 59.94 fps
IP Stream Bitrate Control Mode	CBR / VBR
IP Stream Range of Bitrate Setting	512 Kbps to 80 Mbps
NDI HX Capability	Yes (pre-installed)

## Network/IP Streaming

Camera Tracking Data free-d Type D0 / D1

Camera Tracking Data Multi-streaming Unicast (x4)

## Web App

Supported Operation System (Windows) Windows 10 or later

Supported Operation System (Mac) macOS 11 or later

Supported Operation System (iPad) iPadOS 16 or later

Supported Operation System (Android) Android 12 or later

Supported Web Browsers (Windows) Google Chrome, Edge

Supported Web Browsers (Mac) Google Chrome, Safari

Supported Web Browsers (iPad) Google Chrome, Safari

Supported Web Browsers (Android) Google Chrome

## PTZ Auto Framing

PTZ Auto Framing (Single-Person) Yes

Multi-person Framing Yes (8)

PTZ Auto Framing (Pause) Yes

PTZ Auto Framing (AF Sync) Yes

Composition Preset Yes

Lead Room Effect Yes

Face Registration Yes

Tracking Range Yes

Fixed Angle Position No

Detection Part Head/Ankle

## Mount

Ceiling Mount Yes (with Ceiling Bracket)

## Mount

Mountable Angle	$\leq \pm 15^\circ$
Tripod mounting screw holes	1/4-20 UNC (x1) 3/8-16 UNC (x1)
Screw holes for external devices	Right (M3) (x2) Left (M3) (x2)

## Supplied Accessories

Supplied 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) Safety regulation (*d)
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## Notes

*a	Without projecting object
*b	Sony measurement conditions
*c	1920 x 1080 Only
*d	Varies by country of sale
*e	The output is the same image as SDI OUT1. There is no input function to the camera, such as camera control.
*f	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



NETWORKED LIVE

NETWORKED LIVE

### **HXC-FZ90**

HXC-FZ90 portable studio camera system for HD production



### **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**

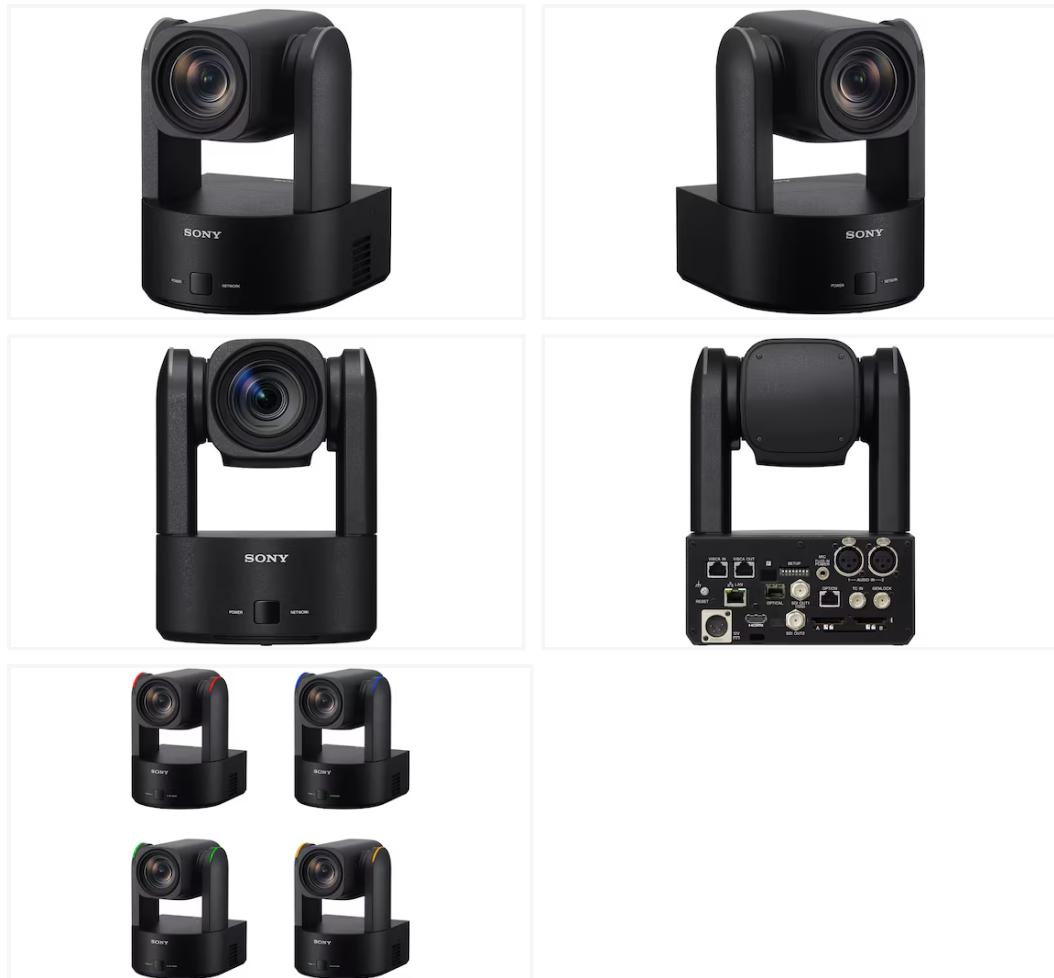
Full-frame digital cinema camera with internal X-OCN recording and choice of 8K and 6K sensors.



### **BURANO**

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

## Gallery



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