SONY

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 = 7.71 to 154.21 mm

Camera	
Focal Length (35mm format equivalent)	24 to 480 mm
Focus range (from the front of the lens)	Approx. 10 mm 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	Yes *g
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 (×1), 3G-SDI (Level A)
HDMI Output	Type-A connector (x1)
Optical Output	SFP+ compliant *e
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, 23.98PsF 1280 x 720 / 59.94p, 50p
Output Format SDI OUT2	1920 x 1080 / 59.94p, 50p, 59.94i *g, 50i *g, 29.97p, 25p, 23.98p, 29.97PsF, 25PsF 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, 23.98PsF 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 3.5 mm 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 Ramp	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 11 or later
Supported Operation System (Mac)	macOS 14 or later
Supported Operation System (iPad)	iPadOS 17 or later
Supported Operation System (Android)	Android 14 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)
Framing mode | Ball Sports (Basketball)	Yes *g
PTZ Auto Framing (Pause)	Yes
PTZ Auto Framing (AF Sync)	Yes
Preset Framing / Composition Preset	Composition Tracking Speed / Sensitivity
Lead Room Effect	Yes
Face Registration	Yes
Tracking Range	Yes
Fixed Angle Position	No
Frame / Area Indicator	Yes *g
Detection Part	Head / Ankle

PTZ Auto Framing

PTZ Auto Framing File	Load / Save *g

Mount

Ceiling Mount	Yes (with Ceiling Bracket)
Mountable Angle	≦ ±15°
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)

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 and playback are not available when powered via PoE++.
*g	Version 3.0 or later is required.

Related products



SRG-A40

PTZ Auto Framing Camera with AI Analytics, 30x(4K)/40x(FHD)* zoom and NDI® HX2 capability. (*w/ Clear Image Zoom)



SRG-A12

PTZ Auto Framing Camera with AI Analytics, 12x optical zoom and NDI® HX2 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

2/3-type 4K CMOS sensor portable system camera



HDC-3200

2/3-type 4K 3-CMOS sensor portable system camera with HD 2x HFR capability



HDC-3500

2/3-type 4K 3-CMOS sensor portable system camera with HD 4x HFR capability



RCP-3100

Joystick type of 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 colour 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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