



XR83A90J

BRAVIA XR A90J 4K HDR OLED with Smart Google TV

Sony's BRAVIA XR™ A90J OLED TV, powered by the Cognitive Processor XR™. Engineered for beauty inside and out, the A90J brings a premium, minimalist-inspired design that fits even the most sophisticated of aesthetics.



Bullets

COGNITIVE PROCESSOR XR[™] – Revolutionary TV processing technology that understands how humans see and hear to deliver intense contrast with pure blacks, high peak brightness, and natural colors.

XR TRILUMINOS PRO™ - Rediscover everything you watch with billions of accurate colors and see impressive picture quality that is natural and beautiful to the human eye.

XR OLED CONTRAST PRO – Feel immersive depth & realism with ultimate blacks and our brightest-ever OLED picture.

GOOGLE TVTM – See 700,000+ movies and TV episodes, plus live TV, all in one place. Google TV brings your favorite content from across your apps and subscriptions and organizes them just for you. Watch content from Netflix, Amazon Prime Video, Disney+, YouTube, the Apple TV app.

BRAVIA CORE™ – Bring the cinematic experience home. Enjoy streaming high-quality movies included with BRAVIA CORE™, exclusively on select Sony TVs

PERFECT FOR PLAYSTATION[®] - Get the most out of your gaming with BRAVIA XR TVs featuring exclusive features for the PS5 console along with 4K/120fps as specified in HDMI 2.1 and input lag as low as 8.5ms.

XR MOTION CLARITY™ – Intelligent motion processing for fast-moving, blur-free sports and action-packed movies.

XR 4K UPSCALING – Enjoy all your HD content in close to 4K resolution and bring back lost texture and detail with intelligent TV processing.

ACOUSTIC SURFACE AUDIO+ – The screen is the speaker, perfectly matching sound with the action on screen for a truly immersive experience.

DOLBY VISION, IMAX ENHANCED, NETFLIX CALIBRATED MODE – Enjoy immersive and engaging cinematic content as the creator intended.

GOOGLE ASSISTANT – Hands-free entertainment with help from Google – just say "Hey Google" to get started

APPLE AIRPLAY - Works with AirPlay 2 to easily stream content from your Apple device.

3-WAY MULTI-POSITION STAND – Beautifully designed to complement your unique viewing experience, offering three levels of flexibility – standard low-profile setting, narrow furniture setting, or raised to accommodate a soundbar

PREMIUM BACKLIT REMOTE – Premium brushed aluminum, backlit remote with Bluetooth connectivity for interference-free control of your TV.





Features

XR Picture

Enjoy breathtaking contrast on our best ever OLED with picture quality that feels deep, natural, and real. Its revolutionary processor uses human perspective analysis to cross-analyze and optimize hundreds of thousands of elements in a blink of an eye. Paired with our unique OLED panel, this technology delivers pure blacks and our brightest ever picture.

XR Contrast

Our Cognitive Processor XR cross-analyzes data, enhancing pictures in the same way that the human eye focuses for real life color and depth. With XR OLED Contrast Pro, brightness is adjusted for higher peaks in glare and deeper blacks in shadow—no more details overwhelmed by shadow or lost in blown-out highlights.

XR OLED Contrast Pro

With XR OLED Contrast Pro using human perspective analysis, color and contrast are boosted in bright areas so you can enjoy the exceptional levels of pure black contrast and peak brightness that until now have simply not been possible. See pictures full of realistic depth between subject and background. Details are sharply defined, even in areas of dark shadow or glare.

XR Color

See colors that are natural and beautiful to the human eye. The Cognitive Processor XR™ enables our unique display to access a wider palette and reproduce each color with the subtle differences seen in the real world. With extended hue and saturation, vivid shades, and realistic texture can be seen in the flowers. Even pale colors look realistic.

XR Triluminos Pro™

Powered by our Cognitive Processor XR, this TV reproduces color in a way that humans find beautiful. See a wider palette of colors with an enhanced range of hue and saturation, allowing natural shades and precise details to be seen, even in dark scenes.

XR HDR Remaster

With XR HDR Remaster, this TV can detect each object on screen, analyze its color and adjust contrast for even more realistic pictures. Object-based processing, powered by BRAVIA XR™ takes precision to a whole new level by adding adjustment of hue, saturation, brightness, motion vector, bandwidth, and more. The result is exceptionally real scenes with greater depth, lifelike textures, and natural colors.

XR Clarity

Whatever the content or source, you'll enjoy entertainment close to 4K resolution with XR 4K Upscaling. Our Cognitive Processor XR accesses a vast amount of data, intelligently recreating lost textures and detail for real-world pictures. See details such as naturally defined animal fur and sharply outlined rock.

XR 4K Upscaling

Powered by our Cognitive Processor XR, this TV takes 2K signals close to true 4K quality for





incredibly real and immersive viewing. XR 4K Upscaling accesses and utilizes a vast amount of data, analyzing patterns in scenes and recreating subtle details.

4K XR Super Resolution

XR Super Resolution detects individual objects in a picture and reproduces virtually real-world textures on screen. Our BRAVIA XR processor precisely analyzes and processes data to power 4K pictures with four times the resolution of Full HD to enrich scenes with real-world detail and texture.

4K XR Smoothing

XR Smoothing creates smooth, natural 4K pictures as you watch, without the "banding" that can occur on other TVs. Scenes are reproduced with thousands of tones, shades, and gradations, making them look incredibly real.

XR Motion

Watching sports and fast-moving movies just got a whole lot better. Our Cognitive Processor XR with XR Motion Clarity™ cross-analyzes data to ensure action stays smooth, bright, and clear.

XR Motion Clarity

With pictures created by millions of individually controlled pixels, everything is sharp and clear on OLED. And with our OLED XR Motion Clarity™ technology, even fast action stays smooth and clear. Moving images are precisely controlled to minimize blur so that pictures remain true with less loss in brightness during high-speed scenes.

4K/120fps

Get the edge on the competition with 120fps frame rate on compatible games, so you'll have the advantage in shooting, sports, and high-performance games with instant on-screen action. You'll also enjoy ultra smooth gaming with reduced input lag less than 8.5ms with 4K/120fps and dedicated Game Mode.

XR Sound Position

For an audio experience that matches how we sense the world, XR Sound Position brings you the reality of sound behind the picture. As the screen is the speaker on this BRAVIA XR 4K OLED TV, sound matches precisely with what's on the screen for a truly immersive experience.

Acoustic Surface Audio

With our Acoustic Surface Audio+ technology, sound comes directly from the center of the screen with powerful actuators behind the TV vibrating to create acoustics that move with the picture. Because sound follows action, you'll hear a more realistic soundtrack with exceptionally clear and natural dialogue due to the large actuators on this model. Left and right subwoofers provide powerful bass so you can enjoy truly immersive cinematic sound at home.

XR Surround

With BRAVIA XR, everything you watch gets the true surround-sound treatment. XR Surround creates surround sound from the sides and vertically so you can experience 3D audio without the need for in-ceiling or up-firing speakers.





3D Surround Upscaling

Our BRAVIA XR signal processing technology enables this TV to reproduce multi-dimensional sound for a truly immersive experience. Feel the sound surround you, not only from left and right but also from a vertical dimension. With 3D Surround Upscaling, you can experience the cinematic thrills of latest audio formats such as Dolby Atmos® at home, as well as enjoying vertical surround with content not compatible with Dolby Atmos.

Google TV

Browse 700,000+ movies and TV episodes from across your streaming services, all in one place and organized into topics and genres based on what interests you.

Hands-free Voice Search

Find your favorite content faster than ever using the power of your voice, no remote required. With Voice Search, there's no more complicated navigation or tiresome typing—you just have to ask.

Google Assistant

Your TV is more helpful than ever. Use your voice to find movies, stream apps, play music, and control the TV. Ask Google to find a specific title, search by genre, or get personalized recommendations by saying, "what should I watch?" Even get answers like sports scores, control smart-home devices, and more. Talk to Google to get started.

Works with Alexa

Connect your Alexa-enabled devices for seamless hands-free control of a Sony TV. With Alexa, you can power up your TV, change channels, control volume, and more.

Works with Hey Google

Connect to a Google Assistant-enabled device for hands-free control of your Sony TV. You can find and cast your favorite videos to your Sony TV, all with just your voice. Just start with, "Hey Google."

Works with Apple AirPlay / Apple HomeKit

With Apple AirPlay, you can stream video and audio to your television right from your iPhone, iPad, or Mac. Watch movies and shows from Apple TV app, your favourite apps, or even Safari. Share your photos with everyone in the room.

Chromecast built-in

Chromecast lets you cast your favorite videos, games, and apps from your mobile device, in full quality, to your Chromecast built in TV. Just one tap of the Cast button on your Android or iOS screen is all you need to supersize the things you love. Cast your content then continue browsing on your phone or tablet.

Smart remote

All your connected devices can be controlled with our smart commander. One button access to video on demand services brings shows and movies into your room in seconds.





Backlit remote

Premium-design remote in brushed aluminum with hairline finish feels good in the hand and harmonizes with your living room. See keys in the dark with an integrated backlight—ideal for changing volume or settings while watching movies at night.

Three-way multi-position stand

A three-way multi-position stand gives you the choice of a standard setting that focuses you on the picture, narrow setting for smaller shelves and soundbar setting for ideal positioning of your sound system.

Seamless Edge

With its frameless design, this TV has a seamless and sophisticated look that minimizes distractions, focusing your eyes on what's important—the picture.

Cable management

A concealed cable track keeps wires neatly hidden so your television stays free of clutter and looks good from the front, the sides, and the back.

Living Decor

Our Living Decor turns your TV into an essential part of your living space with on-screen artwork, personal photos, screensaver themes, and clock functions.

Light and Color Sensor

When the hue of a light source in a room changes, for example between cool and warm, colors of the TV picture change accordingly and can become unnatural. This TV includes an RGB light sensor that optimizes color and brightness of the picture to the light source and room environment.

Acoustic Auto Calibration

No matter where you're sitting, this TV detects your position and optimizes sound so you'll enjoy the same sound quality as if you're sitting right in front of the TV. Sound can change depending on your room environment. Curtains, for example, absorb sound while objects in front of the TV can disturb the passage of sound, compromising the quality of what you hear. This TV detects objects and reproduces sound that's enhanced and optimized to your room.

Netflix Calibrated Mode

This mode was specially developed to enjoy Netflix originals and reproduce the same picture quality on a TV as on a studio evaluation master. With Netflix Calibrated Mode, the creator's vision and intent is faithfully preserved.

IMAX Enhanced

This Sony 4K smart TV is IMAX Enhanced certified, meaning it's optimized for high-fidelity picture and sound. Enjoy a more immersive at-home entertainment experience with IMAX Enhanced picture mode, which takes full advantage of all IMAX Enhanced remastered content.

Dolby Vision® and Dolby Atmos®





Enjoy cinematic thrills at home. Dolby Vision® brings scenes vividly to life for authentic viewing, while Dolby Atmos® fills the room with immersive surround sound.

BRAVIA CORE™

A huge number of movies are included and waiting for you. With BRAVIA XR technology, Pure Stream, and IMAX Enhanced, everything you watch is delivered with stunning visuals and expressive sound quality.

Specification

Accessibility	
Accessibility Shortcut	Yes
Audio Description (Audio key)	Yes
Closed Caption	Closed Caption
Screen Reader	Yes
Text Magnification	Yes
Voice Search	Yes
Built-in Tuner	
CI+	•
Number of Tuners (Sat)	-
Number of Tuners (Terrestrial/Cable)	1(Digital/Analog)
TV System (Analog)	M
TV System (Digital Cable)	Clear QAM
TV System (Digital Sat)	-
TV System (Digital Terrestrial)	ATSC/ATSC 3.0(NEXTGEN TV)
Tuner Channel Coverage (Analog)	VHF: 2-13/UHF: 14-69/CATV: 1-135
Tuner Channel Coverage (Digital Cable)	CATV: 1-135
Tuner Channel Coverage (Digital Terrestrial)	VHF: 2-13/UHF: 14-69 (14-36 for ATSC 3.0)
Connectivity	
APPLE AIRPLAY	Yes





APPLE HOMEKIT	Yes
Audio Output(s)	-
Auto Low Latency Mode (ALLM)	Yes (for HDMI™3/4)
Bluetooth profile support	version 4.2, HID (mouse/keyboard connectivity)/HOGP (Low Energy device connectivity)/SPP (Serial Port Profile)/A2DP (stereo audio) /AVRCP (AV remote control)
CHROMECAST BUILT-IN	Yes
Component Video (Y/Pb/Pr) Input(s)	No
Composite Video Input(s)	Hybrid with S-Center Speaker Input x1 (Side, Mini jack)
Digital Audio Output(s)	1 (Bottom)
Ethernet inputs	1 (bottom)
Features specified in HDMI2.1	4K120/eARC/VRR ⁵ /ALLM
HDCP	HDCP 2.3 (for HDMI™ 1/2/3/4)
HDMI Audio Return Channel (ARC)	Yes (eARC/ARC)
HDMI inputs total	4 (1 Side, 3 Bottom)
HDMI-CEC	Yes
Headphone Output(s)	1 (side)
IF (satellite) input(s)	No
RF (Terrestrial/Cable) Connection Input(s)	1 (bottom)
RS-232C Input(s)	1 (bottom)
Subwoofer Output(s)	-
USB HDD Recording	No
USB drive format support	FAT16/FAT32/exFAT/NTFS
USB playback codecs	MPEG1: MPEG1/MPEG2PS: MPEG2/MPEG2TS (HDV, AVCHD): MPEG2, AVC/MP4 (XAVC S): AVC, MPEG4, HEVC/AVI: Xvid, MotionJpeg/ASF(WMV): VC1/MOV: AVC, MPEG4, MotionJpeg/MKV: Xvid, AVC, MPEG4, VP8.HEVC/WEBM: VP8/3GPP: MPEG4, AVC/MP3/ASF (WMA)/LPCM/WAV/MP4AAC/FLAC/JPEG, WEBM: VP9/AC4/ogg/AAC/ARW (Screen nail only)
USB ports	2 (side), 1 (bottom)





Variable Refresh Rate (VRR) ⁵	Yes (for HDMI™3/4)
Wi-Fi Standard	Wi-Fi Certified 802.11a/b/g/n/ac
Design	
BEZEL COLOR	Titanium Black
BEZEL DESIGN	Metal Flush Surface
REMOTE CONTROL	Premium Backlit Remote
STAND COLOR	Titanium Black
STAND POSITION	3-way position (Standard position/Narrow position/Soundbar position)
Stand design	Aluminum Edge Stand
Dimensions and Weight	
DIMENSION OF TV WITH STAND (NARROW POSITION) (W x H x D)	72.88 x 43.38 x 16.88" (1,850 x 1,099 x 428 mm)
DIMENSION OF TV WITH STAND (SOUNDBAR POSITION) (W x H x D)	74.13 x 44.88 x 16.88" (1,880 x 1,137 x 428 mm)
DIMENSION OF TV WITH STAND (STANDARD POSITION) (W x H x D)	74.13 x 42.25 x 16.88" (1,880 x 1,072 x 428 mm)
Dimension of Package Carton (W x H x D)	77.5 x 47.13 x 8.63" (1,966 x 1,195 x 216 mm)
Dimension of TV without Stand (W x H x D)	72.88 x 42.13 x 2.13" (1,850 x 1,067 x 53 mm)
SCREEN SIZE (CM, MEASURED DIAGONALLY)	82.7" (210 cm)
STAND WIDTH (NARROW POSITION)	27.63" (700 mm)
STAND WIDTH (SOUNDBAR POSITION)	74.13" (1,880 mm)
STAND WIDTH (STANDARD POSITION)	74.13" (1,880 mm)
Screen Size (inch, measured diagonally)	83" (82.5")
VESA® Hole Pitch(W x H)	15.75 x 15.75" (400 x 400 mm)





Weight of Package Carton (Gross)	130 lb / 59 kg
Weight of TV without Stand	92.6 lb (42 kg)
Model year	
Model year	2021
Picture (Panel)	
Backlight dimming type	-
Backlight type	-
Display resolution (H x V, pixels)	3840 x 2160
Display type	OLED
Viewing Angle (X-Wide Angle)	-
Picture (processing)	
Clarity enhancement	XR 4K Upscaling Dual database processing XR Super Resolution
Color enhancement	XR Triluminos Pro™ XR Smoothing Live Color™ Technology
Contrast enhancement	OLED XR Contrast Pro XR HDR Remaster Dynamic Contrast Enhancer Pixel Contrast Booster
HDR (High Dynamic Range) compatibility	Yes (HDR10, HLG, Dolby Vision)
Motion enhancer (Native Hz)	XR Motion Clarity, Auto mode
NETFLIX CALIBRATED MODE	Yes
Picture modes	Vivid, Standard, Cinema, IMAX Enhanced, Game, Graphics, Photo, Custom, Dolby Vision Bright, Dolby Vision Dark, Netflix calibrated
Picture processor	Cognitive Processor XR
SENSOR	Light/Color
Video signal support	HDMI [™] signal: 4096 x 2160p (24, 60 Hz), 3840 x 2160p (24, 30, 60, 120 Hz), 1080p (30, 60, 120 Hz), 1080/24p, 1080i (60 Hz), 720p (30, 60 Hz), 720/24p, 480p





Power and Energy saving	
Dynamic Backlight Control	Yes
ECO FRIENDLY	Yes
Energy Star® compliant	-
Mercury content (mg)	0.0 oz
Power Consumption (On Mode) for Energy Star	-
Power Consumption (Standby Mode) for Energy Star	-
Power Consumption (in Standby)	0.5 W
Power Requirements (voltage/frequency)	60 Hz for UL cUL 50/60 Hz for other AC 120 V for UL cUL AC 110-240 V for other
Power Saving Mode/Back Light Off Mode	Yes
Presence of lead	-
SCREEN SIZE (CM, MEASURED DIAGONALLY)	82.7" (210 cm)
Screen Size (inch, measured diagonally)	83" (82.5")
Software	
Application Store	Yes (Google Play Store)
Auto Calibration with CalMAN®	Yes
BUILT-IN MIC SWITCH	Yes
Closed Captions (Analog/Digital)	(Analog) Closed Caption (Digital)Closed Caption







Display Language	AFRIKAANS, AMH, ARABIC, ASSAMESE, AZE, BEL, BULGARIAN, BENGALI, BOSNIAN, CATALAN, CZECH, DANISH, DEU, GREEK, ENGLISH, SPANISH, ESTONIAN, BAQ, PER, FINNISH, FRENCH, GLG, GUJARATI, HINDI, CROATIAN, HUNGARIAN, INDONESIAN, ISL, ITALIAN, HEBREW, JAPANESE, KAZAKH, KANNADA, KOR, KIR, LAO, LITHUANIAN, LATVIAN, MACEDONIAN, MALAYALAM, MON, MARATHI, MAY, BUR, NOB, NEP, NLD, ORIYA, PANJABI, POLISH, PORTUGUESE, ROMANIAN, RUSSIAN, SOL, SLOVENIAN, ALB, SERBIAN, SWEDISH, SWAHILI, TAMIL, TELUGU, THAI, TGL, TURKISH, UKRAINIAN, URD, UZB, VIETNAMESE, SIMPLIFIED CHINESE, TRADITIONAL CHINESE, ZULU
Electronic Program Guide (EPG)	Yes
Internet Browser	Vewd (not pre-installed)
On-board Storage (GB)	16 GB
On/Off Timer	Yes
Operating System	Android TV™
Sleep Timer	Yes
Teletext	No
Text Input Language	ENGLISH / FRENCH / GERMAN / HEBREW / ITALIAN / RUSSIAN / SPANISH / VIETNAMESE / JAPANESE
Voice Search	(Voice Search) Yes/(Built-in Mic) Yes
Sound (Processing)	
ACOUSTIC AUTO CALIBRATION	Room & User Position Compensation
DTS audio format support	DTS Digital Surround
Dolby audio format support	Dolby™ Audio, Dolby™ Atmos
FM Radio	No
Simulated surround sound	3D Surround Upscaling
Sound modes	Standard, Dialog, Theater, Music, Sports, Dolby Audio



SONY

Value Electronics Sony Diamond Dealer



- 1. Cognitive Processor XR cross-analyses multiple picture elements combined with focal points; recreating
- 2. User must accept Google Terms of Service (http://www.google.com/policies/terms/), Play Terms of Service (http://www.google.com/policies/privacy/) to use TV. User must connect to a Google account to use certain advertised
- 3. Purchase an eligible TV and register for BRAVIA CORE™ by February 23, 2024 to be eligible for promotion offers. Available movies subject to change. Terms and conditions apply, for full details see https://www.sony.net/bravia-core. © 2021 Layout and Design Sony Pictures Home Entertainment Inc. All Rights Reserved. Network services, content, and operating system and software of product may be subject to separate or third-party terms and conditions and changed, interrupted or discontinued at any time and may require fees, registration and credit card information.
- 4. User must setup broadband network environment. By default, Pure Stream setting is turned OFF and must be turned ON in BRAVIA CORE settings. BRAVIA CORE offers streaming between 30Mbps-80Mbps once user turns ON Pure Stream. To access Pure Stream at 30Mbps, user must have a minimum internet speed of 43Mbps over Wi-Fi. To access highest quality Pure Stream available at 80Mbps user must have minimum internet speed of 115Mbps over Wi-Fi. Subject to user's network operator's video streaming restrictions, BRAVIA CORE automatically selects the best bitrate as following with adaptive streaming functionality based on the internet speed available.
- 5. 4K: 3,840 x 2,160 pixels. Game title supporting 4K/120fps required. VRR will be available by future firmware update.
- 6. 4K: 3,840 x 2,160 pixels. Upscaled, simulated and enhanced 4K images will vary based on source content.
- 7. Requires HDR compatible content from supported streaming services or HDR compatible content device connected via HDMI input (sold separately).
- 8. Dolby Vision content compatible with streaming services or compatible content device connected via HDMI input (sold separately).
- 9. IMAX Enhanced content enables full IMAX Enhanced experience with compatible streaming services such as Fandango Now (US only) and BRAVIA CORE, or compatible content device connected via HDMI input (sold separately).
- 10. Netflix streaming membership required. 4K Ultra HD availability subject to your Netflix subscription plan, internet service, device capabilities, and content availability. www.netflix.com/termsofuse
- 11. This Sony TV is compatible with AirPlay 2 and HomeKit. iOS 12.2 or later or macOS 10.14.4 or later is required. Apple ID account required. Subscriptions may be required to access certain content.
- 12. Three-way stand is only available on the 85" Class model. 75" Class and 65" Class models have two-way stand with standard and raised positions. Actual look may differ depending on TV size and type of cables used.
- 13. SU-WL855 wall-mount bracket is available for select Sony OLED and LED models ranging from 55" class to 77" class. TV and wall mount system sold separately. Hardware included with wall-mount bracket.
- 14. Remote design may differ depending on country. Interoperability and compatibility among Bluetooth® devices vary.
- 15. Requires separately sold Calman calibration software to be installed on your PC, a pattern generator, a meter (colorimeter, spectrophotometer etc.), and Calman for BRAVIA app to be downloaded from Google Play and installed on your TV. Internet needed to utilize app services on TV. Network services, content, and software of this product may be subject to separate terms and conditions and changed, interrupted, or discontinued at any time and may require fees, registration, and credit card information.
- 16. Input lag time measured via 4K/120fps game HDMI input, may differ by real-time usage environment or specific conditions. Game title supporting 4K/120fps required.
- 17. A camera is required for video chat. Camera sold separately. See compatible cameras here:https://www.sony.net/camera-support

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