

SONY

XR55A90J

Sony BRAVIA XR A90J 4K HDR OLED TV

Introducing Sony's best-ever OLED TV, with awe-inspiring contrast and our brightest-ever OLED picture. The BRAVIA XR™ A90J OLED TV, powered by the all-new Cognitive Processor XR™, features next-generation technologies that redefine the viewing experience. 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 and realism with ultimate blacks and our brightest-ever OLED picture.
- **GOOGLE TV** – Seamlessly browse 700,000+ movies and TV episodes from across your favorite streaming services, all in one place. Watch content from Netflix, Amazon Prime Video, Disney+, YouTube, the Apple TV app, and many more.²
- **BRAVIA CORE™** – Bring the cinematic experience home. Enjoy streaming high-quality movies included with BRAVIA CORE™, exclusively on select Sony TVs.³
- **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.⁵
- **ACOUSTIC SURFACE AUDIO+** – The screen is the speaker, perfectly matching sound with the action on screen for a truly immersive experience.
- **DOLBY VISION⁷, IMAX ENHANCED⁸, NETFLIX CALIBRATED MODE⁹** – 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.²
- **APPLE AIRPLAY** – Works with AirPlay 2 to easily stream content from your Apple device.¹⁰
- **2-WAY MULTI-POSITION STAND** – Beautifully designed to complement your unique viewing experience, offering two levels of flexibility – standard low-profile setting or raised to accommodate a soundbar.¹¹

Features

Introducing the world's first TVs with cognitive intelligence¹

Feel the beauty of the Sony BRAVIA XR™ A90J OLED's display with incredible picture quality and ultimate brightness, powered by Sony's all-new Cognitive Processor XR™. Revolutionary TV processing technology delivers intense contrast with pure blacks, high peak brightness, and natural colors. Hundreds of thousands of individual on-screen elements are processed and



remastered in the blink of an eye, boosting color, contrast, and clarity, bringing astounding realism to your content.

Billions of accurate colors and precise textures

See colors that are natural and beautiful to the human eye. The Cognitive Processor XR™ enables Sony BRAVIA XR™ TVs to access billions of accurate colors and reproduce each shade with the subtle differences seen in the real world. XR TRILUMINOS™ Pro further enhances the range of hues and saturation allowing for extremely precise details within textures and ensuring skin tones look completely natural, as seen with the same accuracy as the human eye.

Feel immersive realism with our brightest-ever OLED picture

Drastically transform the look and feel of your favorite content with enhanced contrast and our brightest-ever OLED picture. XR OLED Contrast Pro technology, powered by the Cognitive Processor XR™, analyzes and enhances the picture in the same way the human eye focuses for immersive depth and realism resulting in ultra-detailed shadows and crisp, clean peak highlights – no more details overwhelmed by shadow or lost in blown-out highlights.

The entertainment you love. With help from Google

See 700,000+ movies and TV episodes all in one place. Google TV brings your favorite content from across your apps and subscriptions and organizes them just for you. Searching is easy – just ask Google. Just say “Hey Google, find action movies” or “Hey Google, show me sci-fi adventure TV shows” to search across your favorite apps.²

Bring the cinematic experience home, enjoy included movies with BRAVIA CORE™

With BRAVIA CORE™, enjoy the latest Sony Picture Entertainment (SPE) titles and the largest IMAX Enhanced collection. Use the included BRAVIA CORE credits to choose from hundreds of latest release movies to redeem. In addition, you are subscribed to an amazing selection of movies to stream anytime and as many times as you like.³ BRAVIA CORE is the first in the industry to feature Pure Stream™ technology, achieving near lossless 4K UHD Blu-ray equivalent quality with streaming up to 80 Mbps delivering stunning visuals and expressive sound quality.⁴

Intelligent motion processing for fast-moving, blur-free scenes

Watching sports and action-packed movies just got a whole lot better. The Cognitive Processor XR™ with XR Motion Clarity™ cross-analyzes and precisely controls the action in every scene to ensure pictures quality stays smooth, bright, and clear with no blur.

Bring back lost texture and detail, the intelligent way

Whatever the content or source, you'll enjoy entertainment close to 4K resolution with XR 4K Upscaling. Powered by the Cognitive Processor XR™, XR 4K Upscaling accesses a vast amount of data, intelligently recreating lost textures and detail for a real-world picture. See the life-like features in people's faces, identify every blade of grass, and marvel in the precise texture of buildings and scenery.⁵

Turn anything you watch into a truly immersive sound experience



With Acoustic Surface Audio+, the screen is the speaker. This advanced screen-speaker technology microscopically vibrates the TV panel to produce sound from the entire screen which creates acoustics that are perfectly in sync with the picture. With sound and picture in perfect harmony, you'll hear more realistic sound and exceptionally clear dialog. Built-in subwoofers provide powerful bass for immersive cinematic sound.

Enjoy immersive and engaging cinematic content as the creator intended

High Dynamic Range (HDR)⁶ picture is the way TV was always meant to be watched. Ultra-high resolution and HDR video content combine to bring dazzling detail, color and contrast to everything you watch, while keeping a far wider range of brightness. Dolby Vision™ brings scenes to life with striking highlights, deeper blacks and vibrant colors.⁷ IMAX Enhanced™ content brings the immersive entertainment experience into the home and is digitally remastered to provide sharper images and more powerful sound—just as the creator intended.⁸ Netflix Calibrated Mode was specially developed to enjoy Netflix original content and reproduce picture quality as brilliant as the studio evaluation monitor, faithfully reproducing the creator's intent and vision.⁹ Whichever format, Sony TVs deliver picture-perfect reality, creating an immersive and engaging cinematic experience.

Hands-free entertainment with help from Google

With hands-free help from Google, you can set aside your remote and just use your voice to control your TV. Try saying “Hey Google, turn on the TV” or ask Google to find you a specific title, search by genre, and get personalized recommendations on what to watch by saying “Hey Google, what should I watch?” Even get answers on screen like sports scores and weather, and control your smart home devices, see security cameras, and more. Just say “Hey Google” to get started.²

All your favorite streaming apps in one place

Sony Google TVs give you access to all your favorite streaming apps in one place. Including Netflix, Amazon Prime Video, Disney+, YouTube, the Apple TV app, and many more. Get access to all your favorite movies and TV shows in a simple, easy to navigate interface and use Google Assistant to quickly find new content to watch.²

Works with AirPlay 2

With Apple AirPlay 2, you can share pictures, video or audio to your television right from your iPhone, iPad or Mac. Watch movies and shows from your favorite apps and the Apple TV app, or even Safari. Share your photos with everyone in the room.¹⁰

Beautifully designed to complement your unique viewing experience

Our minimalist One Slate design with seamless edge bezel elegantly embraces the screen in a single pane of glass that keeps you focused on the big picture. The premium 2-way multi-position stand gives you the flexibility of a low-profile immersive setting that focuses you on the picture or a raised setting for ideal positioning of your soundbar. Integrated cable management keeps wires neatly hidden, so your furniture stays free of clutter and looks great from all sides.¹¹



Specification

Accessibility	
Accessibility Shortcut	Yes
Audio Description (Audio key)	Yes
Closed Caption	Closed Caption
Screen Reader	Yes
Text Magnification	Yes
Voice Search	Yes
Accessories	
Optional accessories	Wallmount Bracket (SU-WL855 [Refer to Country/Area Handling Chart]). Depends on country selection
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/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)

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Variable Refresh Rate (VRR)	Yes (for HDMI™3/4)
Wi-Fi Standard	Wi-Fi Certified 802.11a/b/g/n/ac
Design	
BEZEL COLOR	Titanium Black
BEZEL DESIGN	Seamless Edge
REMOTE CONTROL	Premium Backlit Remote
STAND COLOR	Titanium Black
STAND POSITION	Two-way position (Standard position/Soundbar position)
Stand design	Aluminum Edge Stand
Dimensions and Weight	
Dimension of Package Carton (W x H x D)	56.93 x 33.19 x 7.09 inch (1,446 x 843 x 180 mm)
Dimension of TV with Stand (W x H x D)	45.28 inch (1,150 mm)
Dimension of TV with Stand (W x H x D)	50.47 inch (1,282 mm)
Dimension of TV with Stand (W x H x D)	48.15 x 30.55 x 12.48 inch (1,223 x 776 x 317 mm)
Dimension of TV with Stand (W x H x D)	50.47 x 27.91 x 12.48 inch (1,282 x 709 x 317 mm)
Dimension of TV without Stand (W x H x D)	48.15 x 27.91 x 1.61 inch (1,223 x 709 x 41 mm)
SCREEN SIZE (CM, MEASURED DIAGONALLY)	139 cm
Screen Size (inch, measured diagonally)	55" (54.6")
VESA® Hole Pitch(W x H)	11.81 x 11.81 inch (300 x 300 mm)
Weight of Package Carton (Gross)	63.9 lb / 29 kg
Weight of TV without Stand	41 lb (18.6 kg)
Model year	
Model year	2021

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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	
Annual Energy Consumption*	185 kWh per year

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Dynamic Backlight Control	Yes
Dynamic Backlight Control	Yes
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)	139 cm
Screen Size (inch, measured diagonally)	55" (54.6")
Software	
Application Store	Yes (Google Play Store)
Auto Calibration with CalMAN®	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™
Sleep Timer	Yes
Teletext	No
Text Input Language	ENGLISH / FRENCH / GERMAN / HEBREW / ITALIAN / RUSSIAN / SPANISH / VIETNAMESE / JAPANESE
Voice Search	Yes
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
Sound processing	No
VOICE ZOOM	Voice Zoom 2
Sound (Speakers and Amplifier)	
Audio Power Output	20 W + 20 W + 10 W + 10 W
Speaker Configuration	Actuator x2, Subwoofer x2
Speaker Type	Acoustic Surface Audio+

¹ As of 11/18/20, Cognitive Processor XR cross-analyses multiple picture elements combined with focal points; recreating human perspective. Verified by Strategy Analytics.

² User must connect to a Google account to use, including voice to activate linked apps. Wireless connectivity requires 802.11 home network (802.11n recommended). Network services, content, and the operating system and software of this 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. Apps must be compatible with TV. App availability varies by region and



device. Use of this TV requires consent to Google Terms of Service (<http://www.google.com/policies/terms/>) and Privacy Policy (<http://www.google.com/policies/privacy/>).

³ Number of titles, credits & redemption/viewing period & selection differ per TV model & subject to change. For full details visit <https://www.sony.com/electronics/bravia-core>. BRAVIA CORE streaming membership reqd. 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. For BRAVIA CORE Terms of Service visit <https://www.sony.com/electronics/bravia-core>.

⁴ Normal video service is approximately 25-30Mbps depending on internet condition.

⁵ 4K: 3,840 x 2,160 pixels. Upscaled, simulated and enhanced 4K images will vary based on source content.

⁶ Requires HDR compatible content from supported streaming services or HDR compatible content device connected via HDMI input (sold separately).

⁷ Dolby Vision content compatible with streaming services or compatible content device connected via HDMI input (sold separately).

⁸ 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).

⁹ Netflix streaming membership required. 4K Ultra HD availability subject to your Netflix subscription plan, internet service, device capabilities, and content availability. www.netflix.com/termsfuse

¹⁰ 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.

¹¹ Actual look may differ depending on TV size and type of cables used.

¹² SU-WL855 wall-mount bracket is available for select Sony OLED and LED models ranging from 55" class to 75" class. TV and wall mount system sold separately. Hardware included with wall-mount bracket.

¹³ Remote design may differ depending on country. Interoperability and compatibility among Bluetooth[®] devices vary.

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