

SONY

FWD-65X81CH/AL

X81CH/AL Series 4K HDR LED TV

Step into a new world of 4K HDR color, contrast, and clarity. See beautiful pictures, rich with real world detail and texture, powered by our 4K HDR processor X1™. Enjoy expanded, vivid color with the TRILUMINOS™ Display

for a more true-to-life picture.¹ Sony's Android TV with the Google Assistant makes life smart with access to your favorite content and smart home devices.⁴



Bullets

- Upscale everything with the 4K HDR Processor X1™ and 4K X-Reality PRO.²
- See exactly what the creator intended with the advanced color and gradation of TRILUMINOS™ Display.
- Dazzling detail and color with HDR¹ and Dolby Vision™³
- Sony's Android TV with Google Assistant gives you a smarter, easier way to get more from your TV.⁴
- Content appears with lifelike motion with Motionflow™ XR technology.
- Works with AirPlay 2 to easily stream content from your Apple device.⁸
- Compatible with Google Nest Devices⁴, Amazon Alexa⁷, and Apple HomeKit⁸ for an even smarter home.
- Stay focused on the big picture with a refined design and narrow bezel that blends into any environment.⁹
- Hang your TV like a work of art with the ultra-slim wall-mount bracket for select Sony BRAVIA OLED and LED TVs.¹⁰

Features

Power to upscale to a more natural picture

See beautiful 4K pictures, rich with real-world detail and texture, powered by our 4K HDR Processor X1. Even images filmed in Full HD are upscaled close to 4K resolution by 4K X-Reality™ PRO using a unique 4K database.^{1,2}

TRILUMINOS Display, bringing you all the world's colors

By widening the color spectrum, TRILUMINOS Display, powered by the 4K HDR Processor X1, reproduces more colors than a conventional television. It analyzes and processes data in every image to make colors even more natural and precise so pictures are closer than ever to real life. See exactly what the creator intended with the advanced color, light, and gradation of the TRILUMINOS™ Display.

Dazzling detail and color with HDR and Dolby Vision

High Dynamic Range (HDR) 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.¹ Dolby Vision™ brings

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scenes to life with striking highlights, deeper darks and vibrant colors.³ Whichever format, Sony TVs deliver picture-perfect reality, creating an immersive and engaging cinematic experience.

Watch what you love, control it with your voice.

Sony's Android TV with Google Assistant makes it easier to get more from your TV. Press the Google Assistant button on your remote to quickly search 500,000+ movies and shows, get recommendations to match your mood, control smart home devices, and more.⁴ Cast photos, videos, and music from smart devices to your TV with Chromecast built-in⁵ and get all the top apps and games on Google Play, like YouTube, Netflix, Prime Video, Spotify, and more.⁴

Less blur, even in fast scenes

TV that keeps up with real life. Motionflow XR refresh rate technology keeps movement smooth and clear, allowing fast moving action sequences in sports and movies to be seen with lifelike clarity.

Works with Apple AirPlay 2

With Apple AirPlay 2, you can stream video and 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.⁸

Well-connected to your smart home

With Google Home⁷ and Amazon Alexa⁸ compatibility, simply voice-control your TV and ask it to do things like cast and control videos from YouTube with Google Home or change the channel or volume with Amazon Alexa. Apple HomeKit and Airplay 2 support seamlessly integrate your iPhone and Siri devices with your Sony TV for effortless smart home management and content streaming.⁹

Refined design that matches your space

Beautifully designed, the narrow bezel gives the TV a refined look that blends harmoniously in any contemporary environment, keeping you focused on the picture, not the television.¹⁰

Mount your Sony TV like a work of art

Make the most of your living space. The SU-WL855 ultra slim wall-mount bracket is designed to hang select Sony BRAVIA OLED and LED TVs flush to the wall, just like any other work of art. Pull out your TV and swivel it left to right to adjust the screen angle for optimal viewing.¹⁰

Specification

Accessibility

Accessibility Shortcut	Yes
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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
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
Connectivity	
APPLE AIRPLAY	Yes
APPLE HOMEKIT	Yes
Analog Audio Output(s)	1 (Side) 3.5mm Stereo Jack
Bluetooth profile support	Version 4.2; HID (mouse/keyboard connectivity)/HOGP (Low Energy device connectivity)/SPP (Serial Port Profile)
CHROMECAST BUILT-IN	Yes

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Component Video (Y/Pb/Pr) Input(s)	No
Composite Video Input(s)	1 (Side)
Digital Audio Output(s)	1 (Side)
Ethernet inputs	1 (Side)
HDCP	HDCP 2.3 (for HDMI™ 1/2/3/4)
HDMI Audio Return Channel (ARC)	Yes (ARC)
HDMI inputs total	4 (4 side)
HDMI-CEC	Yes
Headphone Output(s)	1 (Side)
IF (satellite) input(s)	No
RF (Terrestrial/Cable) Connection Input(s)	1 (Side)
RS-232C Input(s)	1 (Side)
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)
Wi-Fi Standard	Wi-Fi Certified 802.11a/b/g/n/ac
Design	
BEZEL COLOR	Black
BEZEL DESIGN	Narrow Bezel
REMOTE CONTROL	Standard Remote
STAND COLOR	Black
STAND POSITION	-

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Stand design	Slim Blade Stand
Dimensions and Weight	
Dimension of Package Carton (W x H x D)	Approx. 62" x 37 3/4" x 7 1/4" (1574 x 958 x 184 mm)
Dimension of TV with Floor Stand (W x H x D)	-
Dimension of TV with Stand (W x H x D)	Approx. 57 5/8" x 35 3/8" x 13 1/2" (1462 x 905 x 340 mm)
Dimension of TV without Stand (W x H x D)	Approx. 57 5/8" x 33 1/8" x 2 7/8" (1462 x 841 x 71 mm)
SCREEN SIZE (CM, MEASURED DIAGONALLY)	164 cm
Screen Size (inch, measured diagonally)	65" (64.5")
Stand Width	Approx. 44 3/8" (1126 mm)
VESA® Hole Pitch(W x H)	11 7/8 x 11 7/8" / 300 x 300 mm
Weight of Package Carton (Gross)	Approx. 68.3 lb (31 kg)
Weight of TV with Stand	Approx. 49 lbs 13 oz
Weight of TV with floor stand	-
Weight of TV without Stand	Approx. 47 lbs 13 oz
Model year	
Model year	2020
Picture (Panel)	
Backlight dimming type	Frame Dimming
Backlight type	Direct LED
Display resolution (H x V, pixels)	3840 x 2160
Display type	LCD
Brightness	560 cd/m ²
Picture (processing)	
Clarity enhancement	4K X-Reality™ PRO



Color enhancement	TRILUMINOS™ Display Live Color™ Technology
Contrast enhancement	Object-based HDR remaster Dynamic Contrast Enhancer
HDR (High Dynamic Range) compatibility	Yes (HDR10, HLG, Dolby Vision)
Motion enhancer (Native Hz)	Motionflow™ XR 240 (native 60 Hz)
Picture modes	Vivid, Standard, Cinema, Game, Graphics, Photo, Custom, Dolby Vision Bright, Dolby Vision Dark
Picture processor	X1™ 4K HDR Processor
SENSOR	Light
Video signal support	HDMI™ signal: 4096 x 2160p (24, 60 Hz), 3840 x 2160p (24, 30, 60 Hz), 1080p (30, 60 Hz), 1080/24p, 1080i (60 Hz), 720p (30, 60 Hz), 720/24p, 480p
Power and Energy saving	
Annual Energy Consumption*	190 kWh/year
Dynamic Backlight Control	Yes
Energy Level Rating	-
Energy Star® compliant	-
Mercury content (mg)	0.0 oz
PEAK LUMINANCE RATIO	-
Power Consumption (Networked Standby Mode) – Terminals	-
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

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Power Saving Mode/Back Light Off Mode	Yes
Presence of lead	-
SCREEN SIZE (CM, MEASURED DIAGONALLY)	164 cm
Screen Size (inch, measured diagonally)	65" (64.5")
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	-
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



Sound (Processing)	
DTS audio format support	DTS Digital Surround
Dolby audio format support	Dolby™ Audio, Dolby™ Atmos
FM Radio	No
Sound modes	-
Sound processing	No
TV CENTER SPEAKER MODE	-
VOICE ZOOM	-
Sound (Speakers and Amplifier)	
Audio Power Output	10 W + 10 W
Speaker Configuration	Full Range (Bass Reflex) x 2

1. Speaker Type, 160 pixels. Requires Dolby Digital content and Dolby Digital content support. Streaming services, such as Netflix, Amazon Video or HDR compatible content device connected via HDMI input. Requires HDMI® cables sold separately
2. Upscaled, simulated and enhanced 8K and 4K images will vary based on source content.
3. Dolby Vision content is compatible with streaming services such as Netflix, Amazon Video or compatible content device connected via HDMI input. Requires HDMI® cables sold separately.
4. 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/>).
5. Chromecast built-in compatibility dependent on app.
6. Google Nest devices (sold separately) are compatible with Sony TV's powered by Android TV. Requires compatible devices connected to the same wireless home network. Download the Google Home app from the Apple App Store or Google Play. Once download is complete, user must link compatible Nest Speaker devices to the Sony device in order to access the voice control function and to control TV operation. Subject to third party app terms and conditions.
7. Amazon Alexa enabled devices (sold separately) compatible with Sony TV's powered by Android TV. Amazon account required. Subscriptions may be required to access certain content. Compatible devices require internet connection.
8. 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.
9. Actual look may differ depending on TV size and type of cables used.
10. 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.

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