# SONY

## XBR85X81CH

### Sony X81CH 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. Sony's Android TV with Google Assistant makes life smart with access to your favorite content and smart home devices.

## Bullets

- 4K HDR PROCESSOR X1™ – Powerful TV processing that delivers a picture that is smooth and clear, full of rich colors and detailed contrast.
- TRILUMINOS™ Display – Reproduces more colors than a conventional TV resulting in picture quality that is natural and precise, and closer than ever to real life.
- ANDROID TV – Do it all on Android TV. Access 700,000+ movies and shows, cast photos, listen to music, and more. Watch content from Netflix, Amazon Prime Video, Disney+, YouTube, the Apple TV app, and many more.[1]
- MOTIONFLOW XR™ – On-screen motion stays smooth and clear, allowing fast moving sequences in sports, action movies, and games to be seen with lifelike clarity.

- 4K X-REALITY PRO™ – Our unique 4K database upscales all the HD content you love to near-4K resolution bringing back real-world detail and texture.[2]
- HIGH DYNAMIC RANGE (HDR) & DOLBY Vision™ – Enjoy immersive and engaging cinematic content as the creator intended with HDR3 and Dolby Vision[4].
- APPLE AIRPLAY – Works with AirPlay 2 to easily stream content from your Apple device.[5]

## Features

### Enjoy your favorite content with rich colors and detailed contrast

The 4K HDR Processor X1™ powers the X81CH TV to deliver a picture that is full of rich colors and detailed contrast. Complimented by a multitude of advanced features, such as TRILUMINOS™ Pro providing a wider spectrum of color, Motionflow XR™ for smooth and clear action, and 4K X-Reality PRO™ which enhances anything you watch to near-4K quality. Enjoy your favorite content just as the creator's intended, powered by the 4K HDR Processor X1.

### Advanced color and gradation

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 picture quality is closer than ever to real life. See exactly what the creator intended with the advanced color and gradation of

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TRILUMINOS Display.

## Watch what you love, control it with your voice.

Sony Android TV's with Google Assistant makes it easier to get more from your TV. Press the Google Assistant button on your remote to quickly search 700,000+ movies and shows, get recommendations to match your mood, control smart home devices, and more. Cast photos, videos, and music from smart devices to your TV with Chromecast built-in and get all the top apps and games on Google Play, like YouTube, Netflix, Prime Video, Spotify, and more.[1]

## Smooth and clear, 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.

## Upscale everything you watch

See glorious 4K pictures, rich with real-world detail and texture, powered by our 4K HDR Processor X1. Even content filmed in Full HD are upscaled close to 4K resolution by 4K X-Reality™ PRO using a unique 4K database.[2]

## Dazzling detail and color with HDR and Dolby Vision™

High Dynamic Range (HDR)3 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 darks, and vibrant colors.4 Sony TVs deliver picture-perfect reality, creating an immersive and engaging cinematic experience.

## 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 from Safari. Share your photos with everyone in the room.[5]

## Specification

| Common Item | |
|---|---|
| 8 digit code | 12463400 |
| **TV System** | |
| Intelligent Signal Booster | - |
| **TV System** | |
| Tuner Channel Coverage (Analog) | VHF: 2-13/UHF: 14-69/CATV: 1-135 |

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|---|---|
| TV System (Digital Terrestrial) | ATSC |
| Tuner Channel Coverage (Digital Terrestrial) | VHF: 2-13/UHF: 14-69 |
| TV System (Digital Cable) | Clear QAM |
| Tuner Channel Coverage (Digital Cable) | CATV: 1-135 |
| TV System (Digital Sat) | - |
| Tuner Channel Coverage (Digital Sat) | - |
| Number of Tuners (Terrestrial/Cable) | 1(Digital/Analog) |
| Number of Tuners (Sat) | - |
| Color Space | sRGB/BT709,BT2020,AdobeRGB,DCI |
| TV System (Analog) | M |
| CI+ | - |
| Color System | NTSC |
| Operating System | Android 9.0 Pie |
| On-board Storage (GB) | 16GB |
| **Display Features** | |
| X-Wide Angle | - |
| Pixel Contrast Booster | - |
| TRILUMINOS Display | Yes |
| X-tended Dynamic Range PRO/ X-tended Dynamic Range | - |
| Display type | LED |
| **Display Specs** | |
| Screen Size for WEB(diagonal, cm, integer or 1st decimal) | 139 cm |
| Backlight type | Direct LED |

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|---|---|
| Display resolution (H x V, pixels) | 3840x2160 |
| Screen Size (inch, measured diagonally) | 85"(84.6") |
| Viewing Angle (Right/Left) | 178(89/89) degree |
| Viewing Angle (Up/Down) | 178(89/89) degree |
| Display Resolution | QFHD |
| Aspect Ratio | 16:9 |
| **Video Features** | |
| Object-based Super Resolution | - |
| Clear Resolution Enhancer | - |
| Precision Color Mapping | - |
| LED Motion Mode | - |
| Face Area Detection | - |
| Mastered in 4K | - |
| Auto Wide | Yes |
| Wide Mode | Auto/Wide Zoom/Normal/Full/Zoom |
| Wide Mode | Normal/Full1/Full2 for PC |
| 4:3 Default | Yes |
| Video Processing | 4K X-Reality PRO |
| Motion enhancer | Motionflow XR 240 (Native 60Hz) |
| 24p True Cinema | Yes |
| Live Colour™ Technology | Yes |
| PhotoTV HD / BRAVIA for China | Yes |
| CineMotion/Film Mode/Cinema Drive | Yes |
| 4K Processor | 4K HDR Processor X1 |
| HDR (High Dynamic Range) compatiblity | Yes(HDR10,HLG,Dolby Vision) |

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|---|---|
| Panel Refresh Rate (Native Hertz) | 60Hz |
| Dual database processing | - |
| Super Bit Mapping™ HDR | - |
| Object-based HDR remaster | Yes |
| Dynamic Contrast Enhancer | Yes |

### Audio Specs

| | |
|---|---|
| Channel | 2ch |
| Speaker Position | Down Firing |
| Bass/Treble/Balance | Balance |
| Speaker Type | Bass Reflex Speaker |
| Audio Power Output | 10W + 10W |
| Speaker Configuration | Full Range (Bass Reflex) (35 x 95mm) x 2 |
| DSEE/DSEE-HX | - |
| Digital audio out (Optical) format | Two channel linear PCM: 48kHz 16bits, Dolby Audio, DTS |

### Audio Features

| | |
|---|---|
| Vertical Surround Engine | - |
| Dolby Atmos | Yes |
| Acoustic Auto Calibration | - |
| Speaker Type-2 | X-Balanced Speaker |
| Clear Phase | Yes |
| Clear Audio+ | - |
| Auto Surround | Yes |
| DTS audio format support | DTS Digital Surround |
| Sound modes | - |
| S-Master | S-Master Digital Amplifier |
| Simulated surround sound | - |
| Dolby audio format support | Dolby Audio, Dolby Atmos |
| Voice Zoom | - |

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|---|---|
| HDMI Audio Return Channel(ARC) | Yes (ARC) (for HDMI3) |
| Advanced Auto Volume | Yes |
| Auto Mute (on no signal) | Yes(Audio only) |
| FM Radio | - |
| Audio Out | - |
| Headphone/Speaker Link | - |
| HDMI input Audio format | 5.1 channel linear PCM: 32/44.1/48/88.2/96/176.4/192kHz 16/20/24bits, Dolby Audio, Dolby Atmos, DTS |
| ARC output format | Two channel linear PCM: 48kHz 16bits, Dolby Audio, Dolby Atmos, DTS |
| **Network Features** | |
| USB Tethering | - |
| Apple AirPlay | Yes |
| Apple HomeKit | Yes |
| Home Network Feature | Home Network Client, Home Network Renderer |
| Wi-Fi Direct | Yes |
| Wi-Fi Certified | Yes |
| Screen mirroring(Miracast™) | Yes (only for B2B purpose) |
| Video & TV SideView (iOS/Android) | Yes |
| Related Info | Yes (US / Canada / MX(STB)) |
| Wi-Fi Standard | a/b/g/n/ac |
| Wi-Fi Frequency | 2.4GHz/5GHz (for Wi-Fi Direct: 2.4GHz Only) |
| Photo Sharing Plus / Photo Share | - |
| Internet Browser | Vewd (Not pre-installed) |

| | |
|---|---|
| Codec for Home Network | MPEG1:MPEG1/MPEG2PS:MPEG2/MPEG2TS(HDV,AVCHD):MPEG2,AVC/MP4(XAVC S):AVC,MPEG4,HEVC/AVI:Xvid,MotinJpeg/ASF(WMV):VC1/MOV:AVC,MPEG4,MotionJpeg/MKV:Xvid,AVC,MPEG4,VP8.HEVC/WEBM:VP8/3GPP:MPEG4,AVC/MP3/ASF(WMA)/LPCM/WAV/MP4 AAC/FLAC/JPEG |
| Codec for Home Network | WEBM:VP9/AC4/ogg/AAC/ARW(Screen nail only) |
| Wireless LAN | Integrated |
| **Convenience Features** | |
| TalkBack | - |
| Variable Refresh Rate (VRR) | - |
| Auto Low Latency Mode (ALLM) | - |
| Features specified in HDMI2.1 | - |
| Power Bank Operated | - |
| Electronic Program Guide (EPG) | Yes |
| USB HDD Recording | - |
| Twin Picture | - |
| Photo Frame Mode | - |
| USB playback codecs | MPEG1:MPEG1/MPEG2PS:MPEG2/MPEG2TS(HDV,AVCHD):MPEG2,AVC/MP4(XAVC S):AVC,MPEG4,HEVC/AVI:Xvid,MotinJpeg/ASF(WMV):VC1/MOV:AVC,MPEG4,MotionJpeg/MKV:Xvid,AVC,MPEG4,VP8.HEVC/WEBM:VP8/3GPP:MPEG4,AVC/MP3/ASF(WMA)/LPCM/WAV/MP4 AAC/FLAC/JPEG |
| USB playback codecs | WEBM:VP9/AC4/ogg/AAC/ARW(Screen nail only) |
| Built-in Mic | - |
| Screen Reader | Yes |
| Audio Description | Yes |
| Text Magnification | Yes |
| Accessibility Shortcut | Yes |
| Switch Access | Yes |

| | |
|---|---|
| Auto Picture Mode | Yes |
| Text Input Language | ENG / FRA / GER / HEB / ITA / RUS / SPA / VIE / JPN |
| Chromecast built-in | Yes |
| Voice Search | Yes |
| Application Store | Yes (Google Play Store) |
| HDMI-CEC | Yes |
| Control for HDMI (HDMI CEC) | - |
| Scene Select | - |
| i-Manual | Yes |
| Parental Control | Yes |
| Channel Block (with password) | Yes(Analog&Digital) |
| Show/Hide Channels | Yes(Digital&Analog) |
| On Screen Clock | Yes |
| Sleep Timer | Yes |
| On/Off Timer | Yes |
| USB drive format support | Yes (Supported File System: FAT16/FAT32/exFAT/NTFS) |
| Display Language | AFR,AMH,ARA,ASM,AZE,BEL,BUL,BEN,BOS,CAT,CZE,DAN,DEU,GRE,ENG,SPA,EST,BAQ,PER,FIN,FRA,GLG,GUJ,HIN,HRV,HUN,IND,ISL,ITA,HEB,JPN,KAZ,KAN,KOR,KIR,LAO,LIT,LAV,MAC,MAL,MON,MAR,MAY,BUR,NOB,NEP,NLD,ORI,PAN,POL,POR,RUM,RUS,SOL,SLV,ALB,SRP,SWE |
| Display Language | SWA,TAM,TEL,THA,TGL,TUR,UKR,URD,UZB,VIE,zh_CN,zh_HK,zh_TW,ZUL |
| Auto Shut-off | Yes |
| **Sensing Features** | |
| Sensor | Light |
| **Energy Saving & Efficiency** | |
| EE Class for Egypt | - |
| Peak luminance ratio for EU | - |

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| Mercury content(mg) | - |
|---|---|
| Lead Content | - |
| Power Consumption (On Mode) for Energy Star (For Americas) | - |
| Power Consumption (Standby Mode) for Energy Star (For Americas) | - |
| Energy Star® compliant | - |
| Dynamic Backlight Control | Yes |
| Power Saving Mode / Back Light Off Mode | Yes |

## General Features

| Auto Calibration with CalMAN | Yes |
|---|---|
| Netflix Calibrated mode | - |
| Tencent Calibrated mode | - |
| Closed Captions (Analog) | Closed Caption |
| Closed Captions (Digital) | Closed Caption |
| Demo Mode | Yes(e-POP only) |
| Emergency Warning System | - |
| Hotel Mode Menu | Yes |

## Broadcast Features

| Teletext | - |
|---|---|
| Teletext number of pages | - |

## Customizing Capability

| RS-232C Control | Yes |
|---|---|

## Design Features

| Stand Position | - |
|---|---|
| Stand Color | Black |
| Bezel Design | Narrow Bezel |
| Cable Management | Yes |

| | |
|---|---|
| Frame color | Black |
| Stand Design | Slim Blade Stand |
| Illumination LED | - |
| Stand Swivel | - |
| Stand Tilt | - |
| **Inputs and Outputs** | |
| Media Connect | - |
| TV Center Speaker Mode | - |
| HDMI Signal | 4096x2160p(24,60Hz), 3840x2160p(24,30,60Hz), 1080p(30,60Hz), 1080/24p, 1080i(60Hz), 720p(30,60Hz), 720/24p, 480p |
| MHL Signal | - |
| HDCP | HDCP2.3(for HDMI1/2/3/4) |
| Bluetooth profile support | Version 4.2 |
| Bluetooth profile support | HID/HOGP/SPP |
| 4K 60P High-Quality formats | HDMI IN1, IN2, IN3, IN4 ports for 4K(up to 18Gbps) signal |
| AC Power Input | C8 INLET(REAR) |
| RF (Terrestrial/Cable) Connection Input(s) | 1(Side) |
| IF (Satellite) Input(s) | - |
| Composite Video Input(s) | 1(Side) |
| Component Video (Y/Pb/Pr) Input(s) | - |
| HDMI inputs total | 4(4Side) |
| PC In (D-Sub) + Audio In (Stereo Mini) | - |
| Analog Audio Input(s) (Total) | 1(Side Analog Conversion) |
| Digital Audio Output(s) | 1(Side) |
| Audio Output(s) | - |
| Headphone Output(s) | 1(Side) |
| Subwoofer Output(s) | - |

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|---|---|
| USB ports | 2(Side) |
| Ethernet inputs | 1(Side) |
| RS-232C Input(s) | 1(Side) |
| PCMCIA Slot(s) | - |
| HDMI PC Input Format | 640x480(31.5kHz,60Hz), 800x600(37.9kHz,60Hz), 1024x768(48.4kHz,60Hz), 1280x1024(64.0kHz,60Hz), 1152x864(67.5kHz,75Hz), 1600x900(55.9kHz,60Hz), 1680x1050(65.3kHz,60Hz), 1920x1080(67.5kHz,60Hz), 3840x2160p(30Hz), 3840x2160p(60Hz, 8bits) |

**Power**

| | |
|---|---|
| Annual Power consumption For Jordan | - |
| Power Consumption (Home Mode) for WEB | - |
| Power Requirements (voltage) | - |
| Power Requirements (voltage) | AC 120V for UL cUL AC 110-240V for other |
| Power Requirements (frequency) | 60Hz for UL cUL 50/60Hz for other |
| Rated Power Consumption | 367W |
| Power Consumption (in Standby) | 0.5W |
| Annual Power Consumption | 342kWh/Year |
| Power consumption(Networked Standby) | - |

**Regulation and Standard Compliance**

| | |
|---|---|
| VESA® Hole Spacing Compatible | Yes |
| VESA® Hole Pitch(W x H) | 400x400 mm |

**Measurements (Approx.)**

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| | |
|---|---|
| AC Power Adapter size(W x H x D) | - |
| DC Cable length of AC adaptor(mm) | - |
| Dimension of TV without Stand (W x H x D) | 1899x1089x71 (16) mm |
| Dimension of TV with Stand (W x H x D) | 1899x1174x442 mm |
| Dimension of Package Carton (W x H x D) | 2036 x 1232 x 258 mm / 80 1/4 x 48 5/8 x 10 1/4 inch |
| Stand Width | 1532 mm |
| AC Cable Length | 1600mm |
| Dimension of TV with Floor Stand (W x H x D) | - |
| Floor Stand Width | - |
| **Weights (Approx.)** | |
| Weight of TV without Stand | 44.1 kg |
| Weight of TV with Stand | 45.6 kg |
| Weight of TV with Floor Stand | - |
| Weight of Package Carton(Gross) | 59 kg / 130lb. |
| **Carton Spec** | |
| Max Qty of carton stacking (vertical) | 2 |
| **Supplied Accessories** | |
| Voice Remote Control | RMF-TX500U |
| Remote Control | - |
| AC Plug Convertor | - |
| Wall-Mount Bracket | - |
| Android TV Setup Guide | - |
| Batteries | LR03 |

| | |
|---|---|
| Floor Stand | - |
| AC Power Adaptor | - |
| AC Power Cord Spec | (C7L) (US) (2pin) (flat blades) |
| IR Blaster | - |
| Support Belt | - |
| Operating Instructions | US,FR |
| Quick Setup Guide / Supplement CUE (GA) | US,FR,ES,PT |
| Table Top Stand | Separate(assembly required) |
| **Optional Accessories** | |
| VC Camera and MIC | - |
| Floor Stand | - |
| Wallmount Bracket | - |
| **Video Specs** | |
| Video Signal (analog) | - |

[1]User must connect to a Google account to use certain advertised features, including voice to activate linked apps, install software, certain apps and operating software during setup. User may opt out and use basic TV operation that does not include certain advertised features such as Google and third-party apps. Wireless connectivity requires 802.11 home network (802.11n recommended). Network services, content, 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. Chromecast built-in compatibility dependent on app. Upon opt in, Google Terms of Service (http://www.google.com/policies/terms/) and Privacy Policy (http://www.google.com/policies/privacy/) apply to use of this TV.

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

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

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

[5]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.