

FWD-85X81CH

X81CH Series 4K HDR LED
TV



Overview

Vivid, colorful 4K HDR pictures and sound that surrounds you

The BRAVIA FWD-85X81CH brings you the clarity, color, and contrast of 4K plus rich multi-dimensional sound, framed in a slim, luxurious design.

Our power-packed X1 processor boosts image detail and cuts noise, bringing you spectacular 4K HDR images that bring you closer to reality. Even lower-resolution pictures are upscaled close to 4K resolution, bringing greater clarity to everything you're viewing or presenting.

Our BRAVIA Professional Displays surround you with pure sound that pulls you right into the scene. With Dolby Atmos, sound comes from above as well as from the sides so you can hear objects moving overhead with more realism, for a truly multi-dimensional experience.

The FWD-85X81CH blends harmoniously with any contemporary interior. The display's slim blade design is complemented by a narrow screen bezel that adds an extra touch of refinement.

The BRAVIA FWD-85X81CH is ideally suited to professional use, with Pro mode allowing quick and easy

customization to suit different environments. Android TV lets you do more, with the display's intuitive built-in software platform broadening control and customization options even further. Creating attractive digital signage is simple, mixing and displaying media files and online content with no need for additional hardware. A wide range of API (Application Programming Interface) options enable remote control/monitoring and integration with external systems.

Features

4K image resolution (3840 x 2160 pixels)

4K offers four times the detail of Full HD, with a resolution of over 8 million pixels bringing extra clarity to corporate display, education, and digital signage applications.

More contrast, color and clarity

Our 4K HDR Processor X1™ cleans and refines picture signals, using advanced algorithms to cut noise and boost detail. Even lower-resolution images are upscaled closer to 4K with lifelike color and textures.

See finer detail

4K X-Reality PRO upscales pictures closer to true 4K quality. Images are sharpened and refined in real time, revealing extra detail from lower-resolution picture sources.

Powered by our X1 processor, TRILUMINOS Display maps colors from a wider palette, faithfully reproducing a world of more vivid, lifelike hues and tones.

Wider color with TRILUMINOS Display

Powered by our X1 processor, TRILUMINOS Display maps colors from a wider palette, faithfully reproducing a world of more vivid, lifelike hues and tones.

Less blur, even in fast scenes

Motionflow technology keeps on-screen movement smooth and clear by creating extra images between images and black segments between scenes. You'll see the difference with reduced blur and more natural, flowing motion.

Refined style to match your space

BRAVIA features a slim, contemporary blade design, with a narrow screen bezel that adds an extra touch of refinement to any interior.

Do more with Android TV

Discover a world of apps and online content powered by Android. Use Voice Search to find content easily without typing. Easily share content with Google Cast.

Works with Apple AirPlay

With Apple AirPlay it's easy to stream video and sound to BRAVIA right from an iPhone, iPad or Mac.

Google Chromecast built in

Cast videos and apps from a mobile device directly to BRAVIA with Google Chromecast. Just tap the Cast button on your Android or iOS device screen and instantly enjoy super-sized on BRAVIA.

Quick set-up with Pro Mode

Customize and store display settings and features, then copy easily to multiple displays via USB flash memory.

Easily create digital signage

Integrated support for HTML5 makes it easy to produce compelling digital signage. Combine graphics, text, video and live web content to create attractive signage in minutes with no extra hardware or special training.

Versatile remote control

Control BRAVIA remotely—including on/off, input signal select and adjust volume—over IP via RJ45 by web API.

Specifications

TV System

Tuner Channel Coverage (Analog)	VHF: 2-13/UHF: 14-69/CATV: 1-135
Tuner Channel Coverage (Digital Terrestrial)	VHF: 2-13/UHF: 14-69
Tuner Channel Coverage (Digital Cable)	CATV: 1-135
Number of Tuners (Terrestrial/Cable)	1(Digital/Analog)
TV System (Analog)	M
Voice Remote Control	RMF-TX500U
Batteries	LR03
TV System (Digital Terrestrial)	ATSC
TV System (Digital Cable)	Clear QAM
Auto Mute (on no signal)	Yes (Audio only)

Display Features

Display type	LCD
Backlight type	Direct LED
Backlight dimming type	Frame Dimming
Panel Refresh Rate (Native Hertz)	60 Hz
PhotoTV HD / BRAVIA 照片秀 for China	Yes
Auto Picture Mode	Yes
Color Space	sRGB/BT709, BT2020, AdobeRGB, DCI
Color System	NTSC
Demo Mode	Yes (e-POP only)
4K Processor	4K HDR Processor X1

Video Specs

Auto Wide	Yes
Wide Mode	Auto/Wide Zoom/Normal/Full/Zoom Normal/Full1/Full2 for PC
4:3 Default	Yes
Video Processing	4K X-Reality PRO

Motion enhancer	Motionflow XR 240 (Native 60Hz)
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CineMotion/Film Mode/Cinema Drive	Yes
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24p True Cinema	Yes
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Audio Specs

Speaker Configuration	Full Range (Bass Reflex) (1.38 x 3.74 in) x2
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Speaker Position	Down Firing
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Channel	2 ch
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Speaker Type	Bass Reflex Speaker
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Speaker Type-2	X-Balanced Speaker
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Audio Power Output	10W + 10W
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Network specs

Wi-Fi Direct	Yes
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Wi-Fi Certified	Yes
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Screen mirroring (Miracast™)	Yes (only for B2B purpose)
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Internet Browser	Vewd (not pre-installed)
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Wireless LAN	Integrated
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Wi-Fi Standard	a/b/g/n/ac
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Wi-Fi Frequency	2.4 Ghz/5 GHz (for Wi-Fi Direct: 2.4 GHz Only)
Bluetooth profile support	Version 4.2
Bluetooth profile support	HID/HOGP/SPP

Convenience Features

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 drive format support	Yes (Supported File System: FAT16/FAT32/exFAT/NTFS)
Voice Search	Yes
Application Store	Yes (Google Play Store)
On Screen Clock	Yes
Sleep Timer	Yes
On/Off Timer	Yes

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, SWA, TAM, TEL, THA, TGL, TUR, UKR, URD, UZB, VIE, zh_CN, zh_HK, zh_TW, ZUL
On-board Storage (GB)	16GB
Text Input Language	ENG / FRA / GER / HEB / ITA / RUS / SPA / VIE / JPN
Operating Instructions	US, FR
Quick Setup Guide / Supplement CUE (GA)	US, FR, ES, PT
Codec for Home Network	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)

Inputs and Outputs

HDCP	HDCP2.3 (for HDMI 1/2/3/4)
RF (Terrestrial/Cable) Connection Input(s)	1(Side)
Composite Video Input(s)	1(Side)
HDMI inputs total	4 (4Side)
Analog Audio Input(s) (Total)	1 (Side Analog Conversion)
Digital Audio Output(s)	1(Side)
Headphone Output(s)	1(Side)
USB ports	2(Side)
Ethernet inputs	1(Side)
RS-232C Input(s)	1(Side)
RS-232C Control	Yes
Video & TV SideView (iOS/Android)	Yes
Chromecast built-in	Yes
Apple AirPlay	Yes
Apple HomeKit	Yes
HDMI input Audio format	5.1 channel linear PCM: 32/44.1/48/88.2/96/176.4/192 kHz 16/20/24 bits, Dolby

Audio, Dolby Atmos, DTS

HDMI Audio Return Channel (ARC)	Yes (ARC) (for HDMI3)
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HDMI-CEC	Yes
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Design Features

Bezel Design	Aluminum Bezel
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Frame color	Black
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Table Top Stand	Separate(assembly required)
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VESA® Hole Spacing Compatible	Yes
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Stand Design	Slim Blade Stand
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Stand Color	Silver
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VESA® Hole Pitch (W x H)	15.75 x 15.75 in
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Eco and Energy Saving

Screen Size (inch, measured diagonally)	85"(84.6")
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Screen Size for WEB (diagonal, cm, integer or 1st decimal)	84.65 in
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Rated Power	367 W
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Consumption

Power Consumption (in Standby)	0.5 W
Annual Power Consumption	342 kWh/Year
Power Requirements (voltage)	AC 120V for UL cUL AC 110-240V for other
Power Requirements (frequency)	60 Hz for UL cUL 50/60 Hz for other
Power Saving Mode / Back Light Off Mode	Yes
Dynamic Backlight Control	Yes
Dynamic Contrast Enhancer	Yes
Sensor	Light
AC Power Input	C8 INLET (REAR)

Measurements

Dimension of TV without Stand (W x H x D) 74.76 x 42.87 x 2.80 (0.63) in

Dimension of TV with Stand (W x H x D) 74.76 x 46.22 x 17.40 in

x D)

Dimension of Package Carton (W x H x D)	2,036 x 1,232 x 258 mm/80.25 x 48.63 x 10.25 inch
Stand Width	60.31 in

Weight

Weight of TV without Stand	97.22 lb
Weight of TV with Stand	100.53 lb
Weight of Package Carton (Gross)	130 lb (59 kg)
Max Qty of carton stacking (vertical)	2
Max Qty of carton stacking (horizontal) *Only for store front	0

Display specifications

Viewing Angle (Right/Left)	178(89/89) degree
Viewing Angle (Up/Down)	178(89/89) degree
Display Resolution	QFHD

Display resolution (H x V, pixels)	3840 x 2160
Aspect Ratio	16:9
Operating System	Android 9.0 Pie

Control specs

Pro Mode	Yes
IP control	Yes
HDMI out wake-up	Yes
HDR (High Dynamic Range) compatibility	Yes (HDR10, HLG, Dolby Vision)
Power Saving Mode / Back Light Off Mode	Yes
Auto Shut-off	Yes
Audio Power Output	10W + 10W
Auto Surround	Yes
S-Master	S-Master Digital Amplifier
Dolby audio format support	Dolby Audio, Dolby Atmos
Dolby Atmos	Yes
DTS audio format support	DTS Digital Surround

Advanced Auto

Volume	Yes
Bass/Treble/Balance	Balance
Digital audio out (Optical) format	Two channel linear PCM: 48 kHz 16 bits, Dolby Audio, DTS
ARC output format	Two channel linear PCM: 48 kHz 16 bits, Dolby Audio, Dolby Atmos, DTS
Clear Phase	Yes
Show/Hide Channels	Yes (Digital & Analog)
Channel Block (with password)	Yes (Analog & Digital)
Hotel Mode Menu	Yes
Electronic Program Guide (EPG)	Yes
Related Info	Yes (US / Canada / MX (STB))
Home Network Feature	Home Network Client, Home Network Renderer
Parental Control	Yes
Closed Captions (Analog)	Closed Caption
Closed Captions (Digital)	Closed Caption
Auto Calibration with CalMAN	Yes

Screen Reader	Yes
Audio Description	Yes
Text Magnification	Yes
Accessibility Shortcut	Yes
Switch Access	Yes
4K 60P High-Quality formats	HDMI IN1, IN2, IN3, IN4 ports for 4K (up to 18 Gbps) signal
Cable Management	Yes
HDMI PC Input Format	640 x 480 (31.5 kHz, 60 Hz), 800 x 600 (37.9 kHz, 60 Hz), 1024 x 768 (48.4 kHz, 60 Hz), 1280 x 1024 (64.0 kHz, 60 Hz), 1152 x 864 (67.5 kHz, 75 Hz), 1600 x 900 (55.9 kHz, 60 Hz), 1680 x 1050 (65.3 kHz, 60 Hz), 1920 x 1080 (67.5 kHz, 60 Hz), 3840 x 2160p (30 Hz), 3840 x 2160p (60 Hz, 8 bits)
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
Picture modes	Vivid, Standard, Cinema, Game, Graphics, Photo, Custom, Dolby Vision Bright, Dolby Vision Dark

Video Processing	4K X-Reality PRO
Blinking Type	Frame Blinking
Live Color™ Technology	Yes
TRILUMINOS Display	Yes
Object-based HDR remaster	Yes
i-Manual	Yes
AC Power Cord Spec	(C7L) (US) (2-pin) (flat blades)
AC Cable Length	62.99 in

Gallery

