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KD50X85K

50" Class X85K 4K HDR LED TV with Google TV (2022)

Upgrade all your entertainment. With a native 120Hz refresh rate and 4K HDR resolution, your favorite shows, movies, sports, and games look smoother and clearer than ever. And with the advanced 4K HDR Processor X1™ powering realistic contrast, vivid color, and accurate picture quality, you'll feel like you're right there in the action.



Bullets

- Intelligent TV processing technology powered by 4K HDR Processor X1™ that delivers picture quality full of rich colors and detailed contrast.
- See blur-free picture quality in fast-moving sports and movies with native 120Hz refresh rate and Motionflow XR™ technology.
- Get the advantage in high-performance gaming with 4K/120, [4] VRR,[6] ALLM as specified in HDMI 2.1.
- Reproduces over a billion accurate colors resulting in picture quality that is natural and precise, enhanced by TRILUMINOS™ PRO.
- Google TV™ with Google Assistant organizes your content all in one place. [1] Stream from your Apple device with AirPlay 2 support.[9]
- Experience immersive cinematic content with support for Dolby Vision & Atmos. [14]
- Enhance your gaming experience with exclusive features for the PlayStation ® 5.
- Bring back lost texture and detail and see your content upscaled to near-4K resolution with 4K X-Reality™ PRO.[7]
- Your eyes naturally focus on the immersive big picture with a flush surface narrow bezel design. [15]
- With the optional BRAVIA CAM, video chat with friends and family and use Gesture Control for uninterrupted control without a remote.[10]

Features

Enjoy your favorite content with rich colors and detailed contrast

The 4K HDR Processor X1™ powers the X85K TV to deliver a picture that is full of rich colors and detailed contrast. The processor is 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 creators intended, powered by the 4K HDR Processor X1™.

Advanced color and gradation

By widening the color spectrum, TRILUMINOS™ PRO, 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

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life. See exactly what the creator intended with the advanced color and gradation of TRILUMINOS™ PRO.

The entertainment you love. With help from Google

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. Searching is easy – just ask Google. Press the Google Assistant button on your remote and try saying “find action movies” to search across your favorite apps.[1]

Exclusive features for the PlayStation® 5

Take your gaming to the next level and feel the action all around you with detailed, responsive gameplay. See the advantage in high-performance games and near-instant on-screen action with dedicated Game Mode. Only Sony TVs have exclusive features for the PS5® console. With Auto HDR Tone Mapping HDR settings of the PS5 console are automatically adjusted to your TV for detailed, high-contrast scenes.[2] And with Auto Genre Switch picture quality modes automatically switch between Game Mode when gaming and Standard Mode when watching movies for optimal picture settings.[3]

Level-up your gaming with features specified in HDMI 2.1

With features such as 4K/120, VRR, and ALLM as specified in HDMI 2.1, Sony TVs deliver a thrilling gaming experience. With 4K/120 you get up to 120fps on compatible games[4] and input lag as low as 8.5ms[5], giving you the advantage in high-intensity gaming. Variable Refresh Rate (VRR) allows the TV to dynamically adjust the displays refresh rate to match the variable frame rates of the gaming device to avoid stuttering delays and screen tearing enabling smoother gameplay.[6] And Auto Low Latency Mode (ALLM) allows your TV to recognize when a gaming console is connected and can automatically switch to low latency mode ensuring smoother, more responsive gameplay.

Smooth and clear, even in fast scenes

TV that keeps up with real life. The native 120hz refresh rate panel, and enhanced by Motionflow™ XR 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 picture quality, 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 reference database.[7]

A little help on the big screen

Your TV is now 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 on what to watch by saying, "what should I watch?" Even get answers on screen, control smart home devices, see security cameras, and more. Press the Google Assistant button on the remote to get started.[1]

All your favorite streaming apps in one place

Sony TVs with Google TV give you access to all your favorite streaming apps in one place, including Netflix, Amazon Prime Video, Disney+, YouTube, the Apple TV app, HBO Max, Peacock, 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.[1]

Family-friendly smart TV

Discover a fun collection of movies and shows for the whole family. Create a Kids Profile that helps you guide children to age-appropriate content on streaming apps so they're not watching something they shouldn't be. Pick from a selection of playful avatars and themes, set parental controls to restrict what streaming services are shown, limit watching time, and even set bedtimes.[1,8]

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.[9]

Discover new ways to enjoy TV with BRAVIA CAM

Connect BRAVIA CAM, sold separately, for an array of new TV experiences. BRAVIA CAM can enable Auto Power Saving Mode when it doesn’t detect anybody in front of the TV – automatically darkening the screen and saving power consumption. Have fun with your TV and enjoy video chat with friends and family on the big screen. And gesture control enables you to change channels, adjust volume, and more using simple gestures, no remote required.[10]

Sony TVs are designed with the environment in mind

Sony TVs are engineered to deliver stunning designs with the environment in mind. Sony TVs use recycled plastics in the rear covers, the largest TV part by surface area.[12] We’ve optimized our packaging to achieve approximately 35% reduction of plastic volume, and decreased packaging size by about 15% and weight by about 10%, increasing the number of units that can be shipped at a time.[13] And we’ve carefully considered the information printed on the packaging to reduce ink usage by up to 90%.

Specification

Accessibility	
Accessibility Shortcut	Yes
Audio Description (Audio key)	Yes
Closed Caption	Closed Caption
Screen Reader	Yes
Text Magnification	Yes
Voice Search	Yes

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Accessories	
Optional accessories	Camera Unit (CMU-BC1)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 (2–13/14–36 for ATSC3.0)
Camera	
CAMERA	BRAVIA CAM(Option)
CAMERA FUNCTION	Yes(Camera apps)
Connectivity	
APPLE AIRPLAY	Yes
APPLE HOMEKIT	Yes
Audio Output(s)	-
Auto Low Latency Mode (ALLM)	Yes (for HDMI™3/4)
BRAVIA SYNC (INCLUDING HDMI-CEC)	Yes
Bluetooth profile support	Version 4.2, HID (mouse/keyboard connectivity)/HOGP (Low Energy device connectivity)/SPP (Serial Port Profile)/Advanced Audio Distribution Profile (stereo audio) /AVRCP (AV remote control)
CHROMECAST BUILT-IN	Yes

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Component Video (Y/Pb/Pr) Input(s)	No
Composite Video Input(s)	1 (Side, Mini jack)
Digital Audio Output(s)	1 (Side)
Ethernet inputs	1 (Side)
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 (4 side)
Headphone Output(s)	-
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)
Variable Refresh Rate (VRR)	Yes (for HDMI™3/4)
WI-FI FREQUENCY	2.4 GHz/5 GHz (for Wi-Fi Direct: 2.4 GHz Only)
Wi-Fi Standard	Wi-Fi Certified 802.11a/b/g/n/ac
Design	
BEZEL COLOR	Black
BEZEL DESIGN	Flush Surface
REMOTE CONTROL	Standard Remote

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STAND COLOR	Black
STAND POSITION	-
Stand design	Slim Blade stand
Dimensions and Weight	
DIMENSION OF TV WITH STAND (STANDARD POSITION) (W x H x D)	44.06 x 28.15 x 11.26 inch (1,119 x 715 x 286 mm)
Dimension of Package Carton (W x H x D)	48.23 x 30.79 x 5.55 inch (1,225 x 782 x 141 mm)
Dimension of TV without Stand (W x H x D)	44.06 x 25.55 x 2.76 inch (1,119 x 649 x 70 mm)
SCREEN SIZE (CM, MEASURED DIAGONALLY)	126 cm
STAND WIDTH (STANDARD POSITION)	26.18 inch (665 mm)
Screen Size (inch, measured diagonally)	50" (49.5")
VESA® Hole Pitch(W x H)	7.87 x 7.87 inch (200 x 200 mm)
Weight of Package Carton (Gross)	18 kg (39.7 lb)
Weight of TV with Stand	29.3 lb (13.3 kg)
Weight of TV without Stand	28 lb (12.7 kg)
Features for PlayStation®5	
Auto Genre Picture Mode	Yes
Auto HDR Tone Mapping	Yes
Model year	
Model year	2022
Picture (Panel)	
ANTI REFLECTION (X-ANTI REFLECTION)	-
Backlight dimming type	Frame Dimming
Backlight type	Direct LED
Display resolution (H x V, pixels)	3840 x 2160

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Display type	LCD
PANEL REFRESH RATE	120 Hz
Viewing Angle (X-Wide Angle)	-
Picture (processing)	
CONTRAST ENHANCEMENT	Object-based HDR remaster Dynamic Contrast Enhancer
Clarity enhancement	4K X-Reality™ PRO
Color enhancement	TRILUMINOS PRO™ Live Color™ Technology
HDR (High Dynamic Range) compatibility	Yes (HDR10, HLG, Dolby Vision)
Motion enhancer (Native Hz)	Motionflow™ XR 960 (Native 120 Hz), Auto mode
Picture modes	Vivid, Standard, Cinema, Game, Graphics, Photo, Custom, Dolby Vision Bright, Dolby Vision Dark
Picture processor	4K HDR Processor X1™
SENSOR	Light
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

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Power Saving Mode/Back Light Off Mode	Yes
Presence of lead	-
SCREEN SIZE (CM, MEASURED DIAGONALLY)	126 cm
Screen Size (inch, measured diagonally)	50" (49.5")
Software	
Application Store	Yes (Google Play Store)
Auto Calibration with CalMAN®	Yes
BUILT-IN MIC SWITCH	-
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™
SMART TV	Google TV™
Sleep Timer	Yes
Teletext	No
Text Input Language	ENGLISH / FRENCH / GERMAN / HEBREW / ITALIAN / RUSSIAN / SPANISH / VIETNAMESE / JAPANESE
Voice Search	Yes

Sound (Processing)	
ACOUSTIC AUTO CALIBRATION	Room Compensation
DTS audio format support	DTS Digital Surround
Dolby audio format support	Dolby™ Audio, Dolby™ Atmos
FM Radio	No
Sound modes	-
Sound processing	No
VOICE ZOOM	-
Sound (Speakers and Amplifier)	
Audio Power Output	10 W + 10 W
Speaker Configuration	Full Range (Bass Reflex) x 2
Speaker Type	Bass Reflex Speaker X Balanced Speaker

1. User must accept Google Terms of Service (http://www.google.com/policies/terms/), Play Terms of Service (https://play.google.com/intl/en-US_us/about/play-terms/index.html) and Privacy Policy (http://www.google.com/policies/privacy/) to use TV. User must connect to a Google account to use certain advertised features, including voice to activate linked apps, and install certain apps and operating software during setup. Use of TV without connecting to a Google account allows only basic TV features and certain 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.
2. Dolby Vision content compatible with streaming services or compatible content device connected via HDMI input (sold separately).
3. Software updates on both PlayStation®5 console and TV available by automatic update or user-initiated update. To activate Auto HDR Tone Mapping, must enable feature when pairing TV and PS5 for the first time; or will need to disconnect TV and PS5, perform factory reset and enable the feature during initial setup. Feature is supported only when PS5 and TV are directly connected. Applicable models: All BRAVIA XR models, X85K, X85J, X80K, X80J, X900H.
4. Software updates on both PlayStation®5 console and TV available by automatic update or user-initiated update. This function works when Auto Genre Picture Mode on the TV is set to ON and is supported only when PS5 and TV are directly connected. Applicable models: All BRAVIA XR models, X85K, X85J, X80K, X80J, X900H.
5. Actual look may differ depending on TV size and type of cables used.
6. 4K: 3,840 x 2,160 pixels. Upscaled, simulated and enhanced 4K images will vary based on source content.
7. This feature is for users of streaming apps. TV broadcasts cannot be accessed when using Kids Profile. Some TV functions may not be available while using Kids Profile, such as changing settings or inputs.
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. Some BRAVIA CAM features may require firmware update.
10. SU-WL855 wall-mount bracket is available for select Sony OLED and LED models ranging from 48” class to 77” class. TV and wall mount system sold separately. Hardware included with wall-mount bracket.
11. The recycle rate refers to flame-retardant materials. The recyclable material used on the TV may differ depending on size.
12. Compared to FY18 models. The ratio may vary by model.
13. All third-party apps, network services, content, the operating system and software may be subject to individual terms and conditions and changed, interrupted or discontinued at any time and may require fees, registration and credit card information. Requires product to be connected to the wireless network.
14. Amazon Alexa enabled devices (sold separately) compatible with Sony TVs powered by Google TV. Amazon account required. Subscriptions may be required to access certain content.
15. Chromecast built-in compatibility dependent on app.
16. Clean exterior surfaces gently with a dry, clean cloth.

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17. Screen Size feature will be available via future firmware update.
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20. Game title supporting VRR and/or 4K/120fps required. VRR results may vary depending on the game you're playing. If enabling VRR results in any unexpected visual effects, you can turn it off at any time.

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