

SONY

KD-50X690E

50" class (50" diag) 4K HDR Ultra HD TV

Discover color, clarity and contrast like never before with 4K HDR¹ from Sony. Watch as 4K X-Reality Pro™ creates a realistic picture by upscaling any picture to near 4K quality. Streaming has never been easier - YouTube™ and Netflix™ are one click away.



Bullets

- The dramatic contrast, color and detail of 4K HDR^{1, 3}
- 4K X-Reality PRO provides lifelike detail and clarity
- Improved contrast with enhanced brightness and black levels
- Lifelike motion with Motionflow™ XR technology
- Quick access to Netflix™ & YouTube™ with a single click
- Enhanced sound and clear dialog

Features

Uncover the detail with 4K HDR^{1, 3}

High Dynamic Range (HDR)³ will change the way you look at TV. Combined with 4K Ultra HD resolution¹, HDR video content delivers exceptional detail, color and contrast, with a far wider range of brightness than other video formats. The result is the most lifelike picture TVs have ever been able to create, with brilliant highlights and fine detail.

Redefining realism

The difference is clear. You'll see lifelike detail and stunning clarity, no matter what you're watching. 4K X-Reality PRO™ upscales images to near 4K clarity¹. See the details appear in buildings and trees as scenes become clearer, smoother and more natural.

Improved contrast

Thanks to Dynamic Contrast Enhancer, experience more life, more texture and more energy in every scene with brighter highlights, deeper blacks, and more natural tonal gradation.

Motionflow™ keeps the action smooth

TV that keeps up with real life. Sony's refresh rate technology (Motionflow™ XR) allows fast moving action sequences in sports and movies to be seen with precise motion clarity.

Quick access for YouTube & Netflix

Access your favorite movies and shows quicker than ever. With YouTube™ and Netflix™ buttons built into the remote, you are one click away from endless entertainment.

Enhanced sound and clear dialog

Make your listening as lifelike as your viewing. ClearAudio+ fine tunes TV sound for an immersive, emotionally enriching experience that seems to surround you. Hear music and dialog with greater clarity and separation.

Specifications

Audio	Bass/Treble/Balance	Balance	Speaker Configuration	2ch, Full Range (45 x 150 mm) x 2
Audio Power Output	10W+10W	DSEE/DSEE-HX		

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Speaker Position	Down Firing
Speaker Type	Open Baffle
Audio Features	
Advanced Auto Volume	Yes
Alternate Audio (Digital)	Yes
ARC Output Format	Two channel linear PCM: 48kHz 16bits,Dolby Digital,Dolby Digital Plus,DTS
Audio Out	Fixed/Variable
Auto Mute (on no signal)	Yes
Auto Surround	Yes
Clear Audio+	Yes
Clear Phase	Yes
Digital audio out (Optical) format	Two channel linear PCM: 48kHz 16bits,Dolby Digital,DTS
Dolby audio format support	Dolby Digital,Dolby Digital Plus,Dolby Pulse
DTS audio format support	DTS Digital Surround
HDMI Audio Return Channel(ARC)	Yes
HDMI input Audio format	Two channel linear PCM (32, 44.1 and 48 kHz, 16, 20 and 24 bits),Dolby Digital,Dolby Digital Plus,DTS
Headphone/Speaker Link	Yes
Simulated Surround Sound	S-Force Front Surround
S-Master	S-Master Digital Amplifier
Sound Modes	Standard, Music, Cinema, Sports
Convenience Features	
Application Store	Yes (Opera Store)
Auto Shut-off	Yes
Channel Block (with password)	Yes (Analog/Digital)
HDMI-CEC	Yes
Multiple Language Display	ENG/SPA/FRE
On/Off Timer	Yes
On-Screen Clock	Yes
Parental Control	Yes
Photo Frame Mode	Yes
Scene Select	Photo/Music/Cinema/ Game/Graphics/HDR/ Sports/Auto
Show/Hide Channels	Yes (Digital&Analog)
Sleep Timer	Yes
Text Input Language	English/Spanish/French

USB drive format support	Yes (Supported File System: FAT16/FAT32/NTFS)
USB playback codecs	MPEG1/MPEG2PS/MPEG2TS/AVCHD/MP4Part10/MP4Part2/AVI(XVID)/AVI(MotionJpeg)/WMV9/MKV/WEBM/WAV/MP3/WMA/JPEG
Design Features	
Frame color	Black
Stand Design	Plastic+bracket
Display Features	
Backlight Type	Frame Dimming
Display type	LCD
Display	
Aspect Ratio	16:09
Display Resolution	QFHD
Display resolution (H x V, pixels)	3840x2160
Screen Size (cm, measured diagonally)	125.7 cm
Screen Size (inch, measured diagonally)	50"(49.5")
Viewing Angle (Right/Left)	178(89/89) degree
Viewing Angle (Up/Down)	178(89/89) degree
Energy Saving & Efficiency	
Dynamic Backlight Control	Yes
Power Saving Modes	Yes
General Features	
Closed Captions (CC)	Analog Digital
Demo Mode	Yes
Hotel Mode Menu	Yes
Inputs and Outputs	
4K 60P High-Quality formats	Up to 18Gbps:4K 60p 4:4:4(8bit), 4:2:2(8, 10, 12bit), 4:2:0(8, 10bit) HDR included for HDMI 2/3
AC Power Input	1 (Bottom)
Analog Audio Input(s) (Total)	1 (Rear)
Audio / Headphone Output(s)	1 (Side) Hybrid w/ HP Out, Audio Out and Subwoofer Out)
Component Video (Y/Pb/Pr) Input(s)	1 (Rear Hybrid w/ Composite)
Composite Video Input(s)	1 (Rear Hybrid w/ Component)
Digital Audio Output(s)	1 (Rear)
Ethernet Connection(s)	1 (Rear)
HDCP	HDCP2.2(for HDMI1/2/3)

HDMI inputs total	3 (2Side/1Rear)
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)
HDMI Signal	4096x2160p(24,60Hz), 3840x2160p(24,30,60Hz), 1080p(30,60Hz), 1080/24p, 1080i(60Hz), 720p(30,60Hz), 720/24p, 480p, 480i
Headphone Output(s)	1 (Side) Hybrid w/ HP Out, Audio Out and Subwoofer Out)
RF Connection Input(s)	1 (Bottom) (Terrestrial/Cable)
Subwoofer Out	1 (Side) Hybrid w/ HP Out, Audio Out and Subwoofer Out)
USB Port(s)	3 (Side)
Network Features	
Codec for Home Network	MPEG1/MPEG2TS/AVCHD/MP4/AVI/WMV/LPCM/MP3/WMA/JPEG
Home Network Feature	Home Network Client / Home Network Renderer
Opera Apps (System)	Yes
Photo Sharing Plus / Photo Share	Yes
Screen mirroring(Miracast™)	Yes
Wi-Fi Certified	Yes
Wi-Fi Direct	Yes
Wi-Fi Frequency	2.4GHz only
Wi-Fi Standard	b/g/n
Wireless LAN	Integrated
Power	
Annual Power Consumption	160kWh
Power Consumption (In Operation)	159 W
Power Consumption (In Standby)	0.50W
Power Requirements (frequency)	60Hz for UL cUL 50/60Hz for other
Power Requirements (voltage)	AC 120V for UL cUL AC 110-240V for other
Regulation and Standards Compliance	
VESA® Hole Pitch	15 3/4 x 7 7/8 inch (400 x 200 mm)
VESA® Hole Spacing Compatible	Yes
TV System	
Color System	NTSC

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Number of Tuners (Terrestrial/Cable)	1 (Digital/Analog)
On-board Storage (GB)	4GB
OS	Linux
Tuner Channel Coverage (Digital Cable)	CATV: 1-135
Tuner Channel Coverage (Digital Terrestrial)	VHF: 2-13/UHF: 14-69
TV System (Analog)	M
TV System (Digital Cable)	Clear QAM
TV System (Digital Terrestrial)	ATSC
Video Features	
Video Signal (analog)	1080p(60Hz), 1080i(60Hz), 720p(60Hz), 480p, 480i
24p True Cinema	Yes
4:3 Default	Yes
Auto Wide	Yes
Blinking Type	Frame Blinking
Dynamic Contrast Enhancer	Yes
HDR (High Dynamic Range) compatibility	Yes(HDR 10, HLG)* *Firmware update may be required.
Live Color™ Technology	Yes
Mastered in 4K	Yes
Panel Refresh Rate (Native Hertz)	60Hz
Picture Modes	Vivid,Standard,Custom,Cinema,Sports,Photo-Vivid,Photo-Standard,Photo-Custom,Game,Graphics,HDR Vivid,HDR Video
Video Processing	4K X-Reality PRO
Wide Mode	Wide Zoom/Normal/Full/Zoom Normal/Full1/Full2 for PC
CineMotion/Film Mode/Cinema Drive	Yes

Weights and Measurements

Dimensions (Approx.)	Dimension of TV without Stand (W x H x D): 44 3/8 x 25 7/8 x 3 3/8 inch (1124 x 657 x 83 mm) Dimension of TV with Stand (W x H x D): 44 3/8 x 27 x 8 5/8 inch (1124 x 685 x 216 mm) Dimension of Package Carton (W x H x D): 49 5/8 x 30 7/8 x 6 7/8 inch (1260 x 784 x 174 mm) Stand Width: 25 1/2 inch (647 mm) AC Cable Length: 1500 mm
Packaging (Approx.)	Dimension of Package Carton (W x H x D): 49 5/8 x 30 7/8 x 6 7/8 inch (1260 x 784 x 174 mm)
Weight (Approx.)	Weight of TV without Stand: 31.0 lb (14.1 kg) Weight of TV with Stand: 33.2 lb (15.1 kg) Weight of Package Carton(Gross): 46.3 lb (21 kg)
Accessories	
Supplied Accessories	Remote Control: RMT-TX300U Batteries (R03) AC Power Cord Spec ((Connector: Inlet C7) (Plug type: US) (Number of Pin: 2pin) (Plug shape: Straight) Operating Instructions (US, FR) Quick Setup Guide / Supplement CUE (GA) (US, FR, ES, PT) Table Top Stand (Separate(assemble required))



1. 3,840 x 2,160 pixels.

2. Broadband speed of at least 2.5 Mbps recommended for SD services, 10 Mbps for HD streaming or 4K downloads, 20 Mbps for 4K Ultra HD streaming. Wireless connectivity requires 802.11n home network (802.11ac recommended). Network services, content, and the operating system and software of this Product 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.

3. Requires HDR compatible content from supported streaming services, such as Netflix™ and YouTube™.

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