

SONY

KD-70X690E

70" class (69.5" 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		Scene Select	Photo / Music / Cinema / Game / Graphics / HDR / Sports / Auto	Audio / Headphone Output(s)	1 (Side) Hybrid w/ HP Out, Audio Out and Subwoofer Out)
Audio Power Output	10W+10W			Component Video (Y/Pb/Pr) Input(s)	1 (Rear Hybrid w/ Composite)
Bass/Treble/Balance	Balance			Composite Video Input(s)	1 (Rear Hybrid w/ Component)
DSEE/DSEE-HX	DSEE			Digital Audio Input(s)	1 (Rear)
Speaker Configuration	2ch, Full Range (45 x 150 mm) x 2			Ethernet Connection(s)	1 (Rear)
Speaker Position	Down Firing	Sleep Timer	Yes (Supported File System: FAT16/FAT32/NTFS)	HDCP	HDCP2.2 (for HDMI1/2/3)
Speaker Type	Open Baffle			HDMI inputs total	3 (2 Side/1 Rear)
Audio Features				HDMI PC Input Format	640 x 480 (31.5kHz,60Hz), 800 x 600 (37.9kHz,60Hz), 1024 x 768 (48.4kHz,60Hz), 1280 x 1024 (64.0kHz,60Hz), 1152x864 (67.5kHz,75Hz), 1600 x 900 (55.9kHz,60Hz), 1680 x 1050 (65.3kHz,60Hz), 1920 x 1080 (67.5kHz,60Hz)
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	HDMI Signal	4096 x 2160p (24,60Hz), 3840 x 2160p (24,30,60Hz), 1080p (30,60Hz), 1080i (60Hz), 720p (30,60Hz), 720/24p, 480p, 480i		
Auto Mute (on no signal)	Yes				
Auto Surround	Yes				
Clear Audio+	Yes				
Clear Phase	Yes				
Dolby audio format support	Dolby Digital,Dolby Digital Plus,Dolby Pulse	Stand Design	Plastic with metal	Headphone Output(s)	1 (Side) Hybrid w/ HP Out, Audio Out and Subwoofer Out)
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	Design Features		RF Connection Input(s)	1 (Side) (Terrestrial/ Cable)
S-Master	S-Master Digital Amplifier	Frame color	Black		
Sound Modes	Standard, Music, Cinema, Sports	Backlight dimming type	Direct LED		
Convenience Features		Backlight Type	Frame Dimming		
Application Store	Yes (Opera Store)	Display <td rowspan="5">Subwoofer Out</td> <td rowspan="5">1 (Side) Hybrid w/ HP Out, Audio Out and Subwoofer Out)</td>			
Auto Shut-off	Yes	Aspect Ratio	16:9		
Channel Block (with password)	Analog & Digital	Display Resolution	QFHD		
HDMI-CEC	Yes	Display resolution (H x V, pixels)	3840 x 2160		
Multiple Language Display	English, Spanish, French	Screen Size (cm, measured diagonally)	152.7 cm		
On/Off Timer	Yes	Screen Size (inch, measured diagonally)	70" (69.5")	USB Port(s)	3 (Side)
On-Screen Clock	Yes	Viewing Angle (Right/ Left)	176 (88/88) degree	Network Features	
Parental Control	Yes	Viewing Angle (Up/ Down)	176 (88/88) degree	Codec for Home Network	MPEG1/MPEG2TS/ AVCHD/ MP4/AVI/WMV/LPCM/ MP3/WMA/JPEG
Photo Frame Mode	Yes	Energy Saving & Efficiency		Home Network Feature	Home Network Client / Home Network Renderer
		Dynamic Backlight Control	Yes	Opera Apps (System)	Yes
		Power Saving Modes	Yes	Photo Sharing Plus / Photo Share	Yes
		General Features		Screen mirroring(Miracast™)	Yes
		Closed Captions (CC)	Analog Digital	Wi-Fi Certified	Yes
		Demo Mode	Yes	Wi-Fi Direct	Yes
		Hotel Mode Menu	Yes	Wi-Fi Frequency	2.4GHz only
		Inputs and Outputs		Wi-Fi Standard	b/g/n
		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	Wireless LAN	Integrated
		AC Power Input	1 (Rear)	Power	
		Analog Audio Input(s) (Total)	1 (Rear)	Annual Power Consumption	244kWh/Year
				Power Consumption (In Operation)	185 W

Power Consumption (in Standby)	0.50W	Video Processing	4K X-Reality PRO
Power Requirements (frequency)	60Hz for UL cUL 50/60Hz for other	Wide Mode	Wide / Normal / Full / Zoombr Normal / Full1 / Full2 for PC
Power Requirements (voltage)	AC 120 V		
Regulation and Standards Compliance			
VESA® Hole Pitch	15 6/8 x 15 6/8 inch (400 x 400 mm)	Dimensions (Approx.)	TV only: 61 3/4 x 35 5/8 x 3 3/4 in (1567.28 x 902.32 x 93 mm) TV with stand: 61 3/4 x 37 1/2 x 12 1/8 in (1567.28 x 951 x 304.8 mm) Stand Width: 24 31/32 in (633.55 mm) AC Cable Lenght: 1500mm
VESA® Hole Spacing Compatible	Yes		
Service and Warranty Information			
Limited Warranty Term	12 Months		
TV System			
Channel Coverage (Analog)	VHF: 2-13/UHF: 14-69/ CATV: 1-135	Packaging (Approx.)	Carton dimensions: 71 1/4 x 40 1/4 x 7 7/8 in (1809 x 1020 x 200 mm) Carton weight: 86lbs (39 kg)
Color System	NTSC		
Number of Tuners (Terrestrial/Cable)	1 (Digital / Analog)	Weight (Approx.)	TV only: 61 lbs (27.7 kg) TV with stand: 63.7lbs (28.9 kg)
On-board Storage (GB)	4GB		
OS	Linux	Accessories	
Tuner Channel Coverage (Digital Cable)	CATV: 1-135	Supplied Accessories	Remote Control (RMT-TX300U) Batteries (R03) AC Power Cord (2pin, Pigtail, US type, straight plug shape Connector) Operating Instructions (US,FR) Quick Setup Guide / Supplement CUE (GA) Table Top Stand (Separate, assemble required)
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		
Live Color™ Technology	Yes		
Mastered in 4K	Yes		
Motionflow™ XR Technology	Motionflow XR		
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		

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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 802.11 home network (802.11n 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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