

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 HDR¹.3

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 (MotionflowTM 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.

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Specifications

Audio			Photo / Music / Cinema	Audio / Headphone	1 (Side) Hybrid w/ HP
Audio Power Output	10W+10W	Scene Select	/ Game / Graphics / HDR / Sports	Output(s)	Out, Audio Out and Subwoofer Out)
Bass/Treble/Balance	Balance		/ Auto	Component Video (Y/	1 (Rear Hybrid w/
DSEE/DSEE-HX	DSEE	Show/Hide Channels	Yes (Digital & Analog)	Pb/Pr) Input(s)	Composite)
Speaker Configuration	2ch, Full Range (45 x 150 mm) x 2	Sleep Timer	Yes Yes (Supported File	Composite Video Input(s)	1 (Rear Hybrid w/ Component)
Speaker Position	Down Firing	USB drive format support	System: FAT16/FAT32/	Digital Audio Input(s)	1 (Rear)
Speaker Type	Open Baffle		NTFS)	Ethernet Connection(s)	1 (Rear)
Audio Features			MPEG1/MPEG2PS/ MPEG2TS/AVCHD/	HDCP	HDCP2.2 (for HDMI1/2/3)
Advanced Auto Volume	Yes	USB playback codecs	MP4Part10/MP4Part2/ AVI(XVID)/	HDMI inputs total	3 (2 Side/1 Rear) 640 x 480 (31.5kHz,60Hz),
Alternate Audio (Digital)	Yes		AVI(MotionJpeg)/WMV9/ MKV/WEBM/ WAV/MP3/WMA/JPEG		
	Two channel linear PCM: 48kHz 16bits,Dolby Digital,Dolby Digital Plus,DTS	Design Features	VV (V) (VIII O) VIIVII (OI EO	HDMI PC Input Format	
ARC Output Format		Frame color	Black		(67.5kHz,75Hz), 1600 x 900 (55.9kHz,60Hz), 1680 x
		Stand Design	Plastic with metal		1050 (65.3kHz,60Hz), 1920
Audio Out	Fixed / Variable		Flashe will the lai		x 1080 (67.5kHz,60Hz)
Auto Mute (on no signal)	Yes	Display Features Backlight dimming	Direct LED		4096 x 2160p (24,60Hz), 3840 x 2160p (24,30,60Hz), 1080p
Auto Surround	Yes	type	5 Di i	HDMI Signal	(30,60Hz), 1080/24p, 1080i (60Hz), 720p (30,60Hz), 720/24p, 480p, 480i
Clear Audio+	Yes	Backlight Type	Frame Dimming		
Clear Phase	Yes	Display			
Dolby audio format support	Dolby Digital,Dolby Digital Plus,Dolby Pulse	Aspect Ratio Display Resolution	16:9 QFHD	Headphone Output(s)	1 (Side) Hybrid w/ HP Out, Audio Out and Subwoofer Out)
DTS audio format support	DTS Digital Surround	Display resolution (H x V, pixels)	3840 x 2160	RF Connection Input(s)	1 (Side) (Terrestrial/ Cable)
HDMI Audio Return Channel(ARC)	Yes	Screen Size (cm, measured diagonally)	152.7 cm	Subwoofer Out	1 (Side) Hybrid w/ HP Out, Audio Out and
HDMI input Audio	Two channel linear PCM (32, 44.1 and 48 kHz, 16, 20 and 24 bits), Dolby Digital, Dolby Digital Plus, DTS	Screen Size (inch, measured diagonally)	70" (69.5")	USB Port(s)	Subwoofer Out) 3 (Side)
format		Viewing Angle (Right/ Left)	176 (88/88) degree	Network Features	3 (Side)
Headphone/Speaker Link	Yes	Viewing Angle (Up/ Down)	176 (88/88) degree	Codec for Home Network	MPEG1/MPEG2TS/ AVCHD/ MP4/AVI/WMV/LPCM/
Simulated Surround	S-Force Front Surround	Energy Saving & Effic	ciency	MP3/WMA/JPEG	
Sound S-Master	S-Master Digital Amplifier	Dynamic Backlight Control	Yes	Home Network Feature	Home Network Client / Home Network Renderer
Sound Modes	Standard, Music,	Power Saving Modes	Yes	Opera Apps (System)	Yes
	Cinema, Sports	General Features		Photo Sharing Plus /	Yes
Convenience Featu	res	Closed Captions (CC)	Analog	Photo Share	163
Application Store	Yes (Opera Store)		Digital	Screen mirroring(Miracast™)	Yes
Auto Shut-off	Yes	Demo Mode	Yes	Wi-Fi Certified	Yes
Channel Block (with password)	Analog & Digital	Hotel Mode Menu	Yes	Wi-Fi Direct	Yes
HDMI-CEC	Yes	Inputs and Outputs	11 1 1001 414	Wi-Fi Frequency	2.4GHz only
Multiple Language Display	English, Spanish, French	Up to 18Gbps:4K 4K 60P High-Quality 4:2:2(8,10,12bit),		Wi-Fi Standard	b/g/n
On/Off Timer	Yes	formats	4:2:0(8,10bit) HDR	Wireless LAN	Integrated
On-Screen Clock	Yes	AC Devices Invest	included for HDMI 2/3	Power	
Parental Control	Yes	AC Power Input	1 (Rear)	Annual Power Consumption	244kWh/Year
Photo Frame Mode	Yes	Analog Audio Input(s) (Total)	1 (Rear)	Power Consumption	105 \\
				(in Operation)	185 W

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Power Consumption	0.50W	Video Processing	4K X-Reality PRO	
(in Standby) Power Requirements	60Hz for UL cUL 50/60Hz	Wide Mode	Wide / Normal / Full / Zoombr	
(frequency)	for other	Wide Wede	Normal / Full 1 / Full 2 for PC	
Power Requirements AC 120 V (voltage)		Weights and Measurements		
Regulation and Star	ndards Compliance		TV only: 61 3/4 x 35 5/8 x	
VESA® Hole Pitch	15 6/8 x 15 6/8 inch (400 x 400 mm)		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)	
VESA® Hole Spacing Compatible	Yes	Dimensions (Approx.)		
Service and Warran	ty Information			
Limited Warranty Term	12 Months		AC Cable Lenght: 1500mm	
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	
Color System	NTSC	rackaging (Approx.)		
Number of Tuners (Terrestrial/Cable)	1 (Digital / Analog)		(39 kg) TV only: 61 lbs (27.7 kg)	
On-board Storage (GB)	4GB	Weight (Approx.)	TV with stand: 63.7lbs (28.9 kg)	
OS	Linux	Accessories		
Tuner Channel Coverage (Digital Cable)	CATV: 1-135		Remote Control (RMT- TX300U) Batteries (R03) AC Power Cord (2pin, Pigtail, US type, straight plug shape Connector)	
Tuner Channel Coverage (Digital Terrestrial)	VHF: 2-13/UHF: 14-69	Supplied Appearation		
TV System (Analog)	Supplied Accessories M		Operating Instructions (US,FR)	
TV System (Digital Cable)	Clear QAM		Quick Setup Guide / Supplement CUE (GA) Table Top Stand (Separate, assemble required)	
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) compatiblity	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, C inema, 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 $^{\text{TM}}$ and YouTube $^{\text{TM}}$.
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