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KD-70X690E



70” class (69.5” diag) 4K HDR Ultra HD TV

Discover color, clarity and contrast like never before with 4K HDR[1] 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 resolution[1], 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 clarity[1]. 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.

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Specifications

Audio	
Audio Power Output	10W+10W
Bass/Treble/Balance	Balance
DSEE/DSEE-HX	DSEE
Speaker Configuration	2ch, Full Range (45 x 150 mm) x 2
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
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)	Analog & Digital
HDMI-CEC	Yes
Multiple Language Display	English, Spanish, French
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
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 with metal
Display Features	
Backlight dimming type	Direct LED
Backlight Type	Frame Dimming
Display	
Aspect Ratio	16:9
Display Resolution	QFHD
Display resolution (H x V, pixels)	3840 x 2160
Screen Size (cm, measured diagonally)	152.7 cm
Screen Size (inch, measured diagonally)	70" (69.5")
Viewing Angle (Right/ Left)	176 (88/88) degree
Viewing Angle (Up/ Down)	176 (88/88) 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 (Rear)
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 Input(s)	1 (Rear)
Ethernet Connection(s)	1 (Rear)
HDCP	HDCP2.2 (for HDMI1/2/3)
HDMI inputs total	3 (2 Side/1 Rear)
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)
HDMI Signal	4096 x 2160p (24,60Hz), 3840 x 2160p (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 (Side) (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	244kWh/Year
Power Consumption (in Operation)	185 W

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Power Consumption (in Standby)	0.50W
Power Requirements (frequency)	60Hz for UL cUL 50/60Hz for other
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)
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
Color System	NTSC
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) 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,Cinema,Sports, Photo-Vivid,Photo-Standard,Photo-Custom, Game,Graphics,HDR Vivid,HDR Video
Video Processing	4K X-Reality PRO
Wide Mode	Wide / Normal / Full / Zoombr Normal / Full1 / Full2 for PC
Weights and Measurements	
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
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)
Weight (Approx.)	TV only: 61 lbs (27.7 kg) TV with stand: 63.7lbs (28.9 kg)
Accessories	
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)

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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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