SONY

KDL-48W650D

48" class (47.5" diag) Built-in Wi-Fi® with Full HD TV

Expand your world of entertainment. Explore movies, TV and apps[3] in stunning clarity that goes beyond Full HD. With X-Reality PRO™, every picture is more refined from top to bottom, whether you're watching, streaming or playing.

Bullets

- Stunning Full HD with the clarity and sharpness of X-Reality PRO™
- Stream YouTube™ and more with built-in Wi-Fi®[3]
- Living-room friendly, slim design
- Keep wires out of sight with discreet cable management
- Precise motion clarity with Motionflow™ XR 240
- Enjoy pure, natural audio with smooth reproduction

Features

X-Reality PRO™: a cleaner, more refined picture

Enjoy outstanding clarity, sharpness and picture quality with everything you watch. Our combination of noise reduction technologies sharpen every scene, so the picture gleams with clear detail.

Enjoy stunning Full HD 1080p

Experience the detail of Full HD 1080p across all your entertainment. From Blu-ray Discs™ to your favorite TV shows, you can see it all in perfect clarity on the big screen with this Sony TV.

Great entertainment and apps wirelessly with built-in Wi-Fi®

Link up easily to your home network. With built-in Wi-Fi®, you're free to go online and browse movies, enjoy video channels like YouTube™ and access services like Netflix and Hulu[3]. Best of all, you can stream entertainment from your wireless home network and the Internet and download a variety of apps without the clutter of cables.

Enjoy digital content from any USB

Enjoy your favorite digital content from any USB stick. Play music, video clips and view photo collections all through your TV with super multi-format USB play. Supporting a wide range of codecs, you can experience ultimate format versatility — simply plug in and you're ready to go.

Incredibly slim

The screen has a narrow frame, accented with minimal bezels, so you can focus on your entertainment with near edge-to-edge pictures.

Cable management

Keep wires out of sight. All of your cables can be neatly arranged across the back of the TV and channeled into the stand, so everything looks tidy.

Motionflow™ keeps the action smooth

TV that keeps up with real life. Sony's refresh rate technology (Motionflow™ XR 240) allows fast moving action sequences in sports and movies to be seen with precise motion clarity.

Clear Phase™ for smooth, balanced frequencies

SONY

Enjoy pure, natural audio with smooth, even reproduction of all frequencies. This TV uses a powerful computer model to analyze and compensate for inaccuracies in speaker response by "sampling" the speaker frequency with higher precision.

Your smartphone to the big screen

Screen mirroring lets you enjoy content and apps from your smartphone on your Sony TV[2]. Supersize all your memories and enjoy them on the big screen with family and friends.

Make the moment with Photo Sharing Plus

Let everyone share those special photo memories on the big screen. Up to ten people in the room can send photos and short video clips wirelessly from their smartphone straight to the TV to enjoy with a choice of your own optional background music[1]. Your TV even creates its own dedicated Wi-Fi® network — ideal for guests.

Specifications

Audio

Bass/Treble/Balance	Balance
Speaker Configuration	2ch, Full Range (40 x 80 mm) x 2
Speaker Position	Down Firing
Speaker Type	Open Baffle

Audio Features

Alternate Audio (Digital)	Yes
Audio Out	Fixed / Variable
Auto Mute (on no signal)	Yes
Clear Phase	Yes
Digital Out Format	Dolby Digital, DTS, PCM
Dolby®	Dolby Digital, Dolby Digital Plus, Dolby pulse
Headphone/Speaker Link	Yes
S-Master	S-Master Digital Amplifier
Sound Mode	Standard Music Cinema Game Sports

Convenience Features

Auto Shut-off	Yes
BRAVIA® Sync™	Yes (including HDMI-CEC)
Channel Block (with password)	Analog & Digital
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 Sports Auto
Show/Hide Channels	Yes
Sleep Timer	Yes
USB Play	Yes (Supported File System: FAT16 / FAT32 / NTFS)
USB Play (Contents)	MPEG1 / MPEG2PS / MPEG2TS / AVCHD / MP4Part10 / MP4Part2 / AVI(XVID) / AVI(MotionJpeg) / WMV9 / MKV / WEBM / WAV / MP3 / WMA / JPEG

Design Features

Stand Design	Black U Slate

Display Features

Backlight Type	Direct LED
Dimming Type	Frame Dimming
Display Device	LCD

Display

Aspect Ratio	16:9
Display Resolution	Full HD
Number of pixels(H x V)	1920 x 1080
Screen Size (cm)	120.9 cm
Screen Size (measured diagonally)	48" (47.6")
Viewing Angle (Right/Left)	178 (89/89) degree
Viewing Angle (Up/Down)	178 (89/89) degree

Energy Saving & Efficiency

Backlight Off Mode	Yes
Dynamic Backlight Control	Yes
Power Consumption (On Mode) for Energy Star	57.00W

Power Consumption (Standby Mode) for Energy Star	0.50W
Power Saving Modes	Yes

General Features

Closed Captions (CC)	Analog Digital
Demo Mode	Yes
Hotel Mode Menu	Yes

Inputs and Outputs

AC Power Input	AC Adapter (Bottom)
Analog Audio Input(s) (Total)	1 (Bottom)
Audio Out	1 (Side / Hybrid w/HP and SubWoofer Out)
Component Video (Y/Pb/Pr) Input(s)	1 (Bottom Mini Video Conversion Hybrid w/ Composite)
Composite Video Input(s)	1 (Bottom Mini Video Conversion Hybrid w/ Component)
Digital Audio Output(s)	1 (Rear)
Ethernet Connection(s)	1 (Bottom)
HDCP	HDCP1.4
HDMI PC Input Format	640 x 480 (31.5kHz, 60Hz) 800 x 600 (37.9kHz, 60Hz) 1024 x 768 (48.4kHz, 60Hz) 1280 x 768 (47.4kHz, 60Hz) 1280 x 768 (47.8kHz, 60Hz) 1360 x 768 (47.7kHz, 60Hz) 1280 x 1024 (64.0kHz, 60Hz) 1920 x 1080 (67.5kHz, 60Hz)
HDMI Signal	1080p (30,60Hz), 1080/24p, 1080i (60Hz), 720p (30,60Hz), 720/24p, 480p, 480i
HDMI™ Connection(s) (Total)	2 (1 Rear/1 Side)
Headphone Output(s)	1 (Side / Hybrid w/HP and Subwoofer Out)
RF Connection Input(s)	1 (Side)
Subwoofer Out	1 (Side / Hybrid w/HP and SubWoofer Out)

USB 2.0	2 (Side)

Network Features

Home Network	MPEG1 / MPEG2TS / AVCHD / MP4 / AVI / WMV / LPCM / MP3 / WMA / JPEG
Internet Browser	Yes (Opera) (OTA) (Except US and some countries)
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
Annual Power Consumption	108kWh/Year

Power

Power Consumption (in Operation) max.	75W
Power Consumption (in Standby)	120V : 0.50W / 240V : 0.50W
Power Requirements (voltage)	DC 19.5V

Regulation and Standards Compliance

VESA® Hole Pitch	7 7/8 x 7 7/8 in (200 x 200 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
Channel Coverage (Digital Cable)	CATV: 1-135
Channel Coverage (Digital Terrestrial)	VHF: 2-13 / UHF: 14-69
Color System	NTSC
Memory	4G
Number of Tuners (Terrestrial/Cable)	1 (Digital / Analog)
OS	Linux
TV System (Analog)	M
TV System (Digital Cable)	Clear QAM
TV System (Digital Terrestrial)	ATSC

Video

Video Signal	1080p (60 Hz) 1080i (60 Hz) 720p (60 Hz) 480p 480i

Video Features

24p True Cinema™ Technology	Yes
4:3 Default	Yes
Advanced Contrast Enhancer (ACE)	Yes
Auto Wide	Yes
Blinking Type	Frame Blinking
LED Motion Mode	Yes
Live Color™ Technology	Yes
Motionflow™ XR Technology	Motionflow XR 240
Picture Mode	Vivid Standard Custom Photo-Vivid Photo-Standart Photo-Custom Cinema Game Graphics Sports
Video Processing	X-Reality PRO
Wide Mode	Wide Zoom Normal Full Zoom Normal / Full1 / Full2 for PC

Weights and Measurements

Dimensions (Approx.)	TV only: 43 x 25 3/8 x 2 5/8(3/8) in (1092 x 643 x 66(8.9) mm) TV with stand: 43 x 27 x 9 3/8 in (1092 x 683 x 235 mm)
Packaging (Approx.)	Carton dimensions: 46 1/2 x 29 5/8 x 6 3/8 in (1180 x 752 x 161 mm) Carton weight: 30.9 lbs (14 kg)
Weight (Approx.)	TV only: 22.5 lbs (10.2 kg) TV with stand: 23.6 lbs (10.7 kg)

Accessories

Supplied Accessories	Mini-plug Video Adapter Remote Control (RMT-TX102U) Batteries (R03) AC Power Adaptor (ACDP-085S03, ACDP-085E03) AC Power Cord Spec: (Inlet C7, US plug type, 2pin, straight shape) Operating Instructions Quick Setup Guide / Supplement CUE (GA) Table Top Stand (Separate, assemble required)

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