

SONY

KDL-40W650D

40" class (39.5" diag) Built-in Wi-Fi® with Full HD TV

Expand your world of entertainment. Explore movies, TV and apps³ 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
- 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 Hulu³. 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) allows fast moving action sequences in sports and movies to be seen with precise motion clarity.

Clear Phase™ for smooth, balanced frequencies

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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 TV². 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 music¹. Your TV even creates its own dedicated Wi-Fi® network — ideal for guests.

Specifications

Audio		Photo Frame Mode	Yes	Dynamic Backlight Control	Yes
Bass/Treble/Balance	Balance	Scene Select	Photo, Music, Cinema, Game, Graphics, Sports, Auto	Power Consumption (On Mode) for Energy Star	49.00W
Speaker Configuration	2ch, Full Range (40 x 80mm) x 2	Show/Hide Channels	Yes	Power Consumption (Standby Mode) for Energy Star	0.50W
Speaker Position	Down Firing	Sleep Timer	Yes	Power Saving Modes	Yes
Speaker Type	Open Baffle	Text Input Language	English, Spanish, French	General Features	
Audio Features		USB drive format support	Yes (Supported File System: FAT16 / FAT32 / NTFS)	Closed Captions (CC)	Analog Digital
Alternate Audio (Digital)	Yes	USB playback codecs	MPEG1 / MPEG2PS / MPEG2TS / AVCHD / MP4Part10 / MP4Part2 / AVI(XVID) / AVI(MotionJpeg) / WMV9 / MKV / WEBM / WAV / MP3 / WMA / JPEG	Demo Mode	Yes
ARC Output Format	Dolby Digital, Dolby Digital Plus, DTS, PCM	Design Features		Hotel Mode Menu	Yes
Audio Out	Fixed / Variable	Cable Management	Yes	Inputs and Outputs	
Auto Mute (on no signal)	Yes	Frame color	Black	AC Power Input	AC Adapter (Bottom)
Clear Phase	Yes	Stand Design	Black U Slate	Analog Audio Input(s) (Total)	1 (Bottom)
Digital audio out (Optical) format	Dolby Digital, DTS, PCM	Display Features		Audio / Headphone Output(s)	1 (Side / Hybrid w/HP and SubWoofer Out)
Dolby audio format support	Dolby Digital, Dolby Digital Plus, Dolby Pulse	Backlight dimming type	Frame Dimming	Component Video (Y/Pb/Pr) Input(s)	1 (Bottom Mini Video Conversion Hybrid w/ Composite)
DTS audio format support	DTS 2.0 + Digital Out	Backlight Type	Direct LED	Composite Video Input(s)	1 (Bottom Mini Video Conversion Hybrid w/ Component)
HDMI Audio Return Channel(ARC)	Yes	Display type	LCD	Digital Audio Output(s)	1 (Rear)
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	Display		Ethernet Connection(s)	1 (Bottom)
Headphone/Speaker Link	Yes	Aspect Ratio	16:9	HDCP	HDCP1.4
S-Master	S-Master Digital Amplifier	Display Resolution	Full HD	HDMI inputs total	2 (1 Rear/1 Side)
Sound Modes	Standart, Music, Cinema, Game, Sports	Display resolution (H x V, pixels)	1920 x 1080	HDMI PC Input Format	640 x 480 (31.5kHz, 60Hz)
Convenience Features		Screen Size (cm, measured diagonally)	101.6 cm		800 x 600 (37.9kHz, 60Hz)
Auto Shut-off	Yes	Screen Size (inch, measured diagonally)	40" (40.0")		1024 x 768 (48.4kHz, 60Hz)
Channel Block (with password)	Analog & Digital	Viewing Angle (Right/Left)	178 (89/89) degree		1280 x 768 (47.4kHz, 60Hz)
HDMI-CEC	Yes	Viewing Angle (Up/Down)	178 (89/89) degree	1280 x 768 (47.8kHz, 60Hz)	
Multiple Language Display	English, Spanish, French	Energy Saving & Efficiency		1280 x 1024 (64.0kHz, 60Hz)	
On/Off Timer	Yes	Backlight Off Mode	Yes	1920 x 1080 (67.5kHz, 60Hz)	
On-Screen Clock	Yes			HDMI Signal	1080p (30,60Hz), 1080i (60Hz), 720p (30,60Hz), 720i (60Hz), 480p, 480i
Parental Control	Yes				

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Headphone Output(s)	1 (Side / Hybrid w/HP and Subwoofer Out)
RF Connection Input(s)	1 (Bottom)
Subwoofer Out	1 (Side / Hybrid w/HP and Subwoofer Out)
USB Port(s)	2 (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
Internet Browser	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
Power	
Annual Power Consumption	93kWh/Year
Power Consumption (in Operation)	59.4W
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
Color System	NTSC
Number of Tuners (Terrestrial/Cable)	1 (Digital/Analog)
On-board Storage (GB)	4G
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	
24p True Cinema	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
Panel Refresh Rate (Native Hertz)	60Hz
Picture Modes	Vivid, Standart, Custom, Photo-vivid, Photo-Standart, Photo-Custom, Cinema, Game, Graphics, Sports
Video Processing	X-Reality PRO
Wide Mode	Wide / Normal / Full / Zoombr Normal / Full1 / Full2 for PC
Video Signal (analog)	1080p (60 Hz), 1080i (60 Hz), 720p (60 Hz), 480p, 480i
CineMotion/Film Mode/Cinema Drive	Yes
Weights and Measurements	
Dimensions (Approx.)	TV only: 36 1/2 x 21 5/8 x 2 5/8(3/8) in (924 x 549 x 66(8.9) mm) TV with stand: 36 1/2 x 23 1/4 x 8 3/8 in (924 x 589 x 212 mm) Stand Width: 24 7/8 in (631 mm) AC Cable Length: 500 mm
Packaging (Approx.)	Carton dimensions: 40 x 26 x 6 3/8 in (1015 x 658 x 161 mm) Carton weight: 24.3 lbs (11 kg)
Weight (Approx.)	TV only: 17 lbs (7.7 kg) TV with stand: 17.9 lbs (8.1 kg)
Accessories	

Supplied Accessories	Mini-plug Video Adapter Remote Control (RMT-TX102U) Batteries (R03) AC Power Adaptor (ACDP-060S03, ACDP-060E02) 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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1. Photos can be shared at their original size, with your Android (Android 2.3 and above) or iOS (iOS5 and above) smartphones. There's no internet connection and no apps needed.
2. The smartphone must be compatible with Miracast™ technology. Connectivity with all Miracast™ compatible devices is not guaranteed.
3. Broadband speed of at least 2.5 Mbps recommended for SD services, 10 Mbps for 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.

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