

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 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 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 240) 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		Scene Select Photo Music Cinema Game Graphics Sports Auto	Power Consumption (Standby Mode) for Energy Star 0.50W		
Bass/Treble/Balance	Balance			Power Saving Modes	Yes
Speaker Configuration	2ch, Full Range (40 x 80mm) x 2			General Features	
Speaker Position	Down Firing			Closed Captions (CC)	Analog Digital
Speaker Type	Open Baffle			Demo Mode	Yes
Audio Features				Hotel Mode Menu	Yes
Alternate Audio (Digital)	Yes			Inputs and Outputs	
Audio Out	Fixed / Variable			AC Power Input	AC Adapter (Bottom)
Auto Mute (on no signal)	Yes			Analog Audio Input(s) (Total)	1 (Bottom)
Clear Phase	Yes			Audio Out	1 (Side / Hybrid w/HP and Subwoofer Out)
Digital Out Format	Dolby Digital, DTS, PCM	Component Video (Y/Pb/Pr) Input(s)	1 (Bottom Mini Video Conversion Hybrid w/ Composite)		
Dolby®	Dolby Digital, Dolby Digital Plus, Dolby Pulse	Composite Video Input(s)	1 (Bottom Mini Video Conversion Hybrid w/ Component)		
Headphone/Speaker Link	Yes	Digital Audio Output(s)	1 (Rear)		
S-Master	S-Master Digital Amplifier	Ethernet Connection(s)	1 (Bottom)		
Sound Mode	Standart	HDCP	HDCP1.4		
	Music	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)			
	Cinema				
	Game				
Sports					
Convenience Features		Design Features			
Auto Shut-off	Yes	Stand Design	Black U Slate		
BRAVIA® Sync™	Yes (Including HDMI-CEC)	Display Features			
Channel Block (with password)	Analog & Digital	Backlight Type	Direct LED		
Multiple Language Display	English Spanish French	Dimming Type	Frame Dimming		
On/Off Timer	Yes	Display Device	LCD		
On-Screen Clock	Yes	Display			
Parental Control	Yes	Aspect Ratio	16:9		
Photo Frame Mode	Yes	Display Resolution	Full HD		
		Number of pixels(H x V)	1920 x 1080		
		Screen Size (cm)	101.6 cm		
		Screen Size (measured diagonally)	40" (40.0")		
		Viewing Angle (Right/Left)	178 (89/89) degree		
		Viewing Angle (Up/Down)	178 (89/89) degree		
Energy Saving & Efficiency		Energy Saving & Efficiency			
		Backlight Off Mode	Yes		
		Dynamic Backlight Control	Yes		
		Power Consumption (On Mode) for Energy Star	49.00W		
			HDMI Signal 1080p (30,60Hz), 1080i (60Hz), 720p (30,60Hz), 720i (60Hz), 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)		

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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	93kWh/Year
Power	
Power Consumption (in Operation) max.	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
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 Standart 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: 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)
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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