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FWD-100Z9D

100" class (99.5" diag) 4K HDR Ultra HD Pro BRAVIA Display

If displays are measured on picture quality, then the Sony Z-series stands alone. Near perfect black levels combine with the ability to reproduce the brightness and color of the real world, while your favorites get upscaled and enhanced to look like 4K HDR¹. It's a viewing experience that can't be replicated.



Bullets

- Unprecedented brightness and black levels from the all-new Backlight Master Drive
- Everything looks like 4K HDR¹ with the new 4K HDR Processor X1 Extreme
- Ultra-dense full-array discrete LED control powers each LED individually
- Brilliant contrast, color and detail of 4K HDR and X-tended Dynamic Range PRO
- Colors come alive thanks to the TRILUMINOS[®] Display
- Clear pictures without color banding from 4K HDR Super Bit Mapping
- Dual Database Processing provides lifelike detail and clarity
- Lifelike motion with Motionflow[™] XR technology
- Sophisticated slate design with champagne gold bezel
- Android[™] TV with Google Cast[™], voice search & Play Store apps³
- Just say what you want with Voice Search³

Features

Unrivaled picture quality.

The all-new Backlight Master Drive[™] can display an unprecedented dynamic range with near perfect black levels and dazzling brightness that is impossible for other FWD displays to reproduce. How?

Discrete LED Control:

Backlight Master Drive uses a new, innovative algorithm to control the display's ultra-dense LED structure. Each LED is controlled individually for a picture even more precise than that of a standard full-array display, which groups LEDs into larger zones.

Calibrated Beam Design:

Send light only where it is needed. Each LED emits a straight beam for greater brightness and more accurate contrast than ever before.

Everything should look like 4K HDR

Our newly developed 4K HDR Processor X1 Extreme outperforms our conventional 4K Processor X1 with 40% more real-time image processing power. It takes everything you watch and improves it to near 4K HDR quality¹. Object-based HDR Remaster technology can detect, analyze and optimize each object in the picture individually to adjust the overall contrast for a more natural and realistic picture on screen.

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Backlight brilliance.

Experience greater brilliance in every scene. X-tended Dynamic Range PRO utilizes the discrete LED control of Backlight Master Drive to create images with brighter peaks and more shadow detail. When combined with HDR video, X-tended Dynamic Range PRO increases the quality of HDR so you experience even greater color and contrast.²

Uncover the detail with 4K HDR

High Dynamic Range (HDR) will change the way you look at displays. 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.

Clear picture, smooth gradations

Sunsets are as bright and clear as real life. Super bit mapping 4K HDR, a feature of the 4K HDR Processor X1 Extreme, reveals thousands of shades and gradations of light. It creates a smooth, natural picture as you watch, without the "banding" that can occur on other displays. 14-bit signal processing recognizes subtle color transitions and effectively smooths out the gradation between shades, to show 64 times the color levels of a conventional display.

More color, depth and realism

Colors are as rich and vivid as nature's own thanks to the TRILUMINOS® Display with more shades of red, green and blue than ever before. You'll enjoy vibrant, authentic images that evoke the emotion in every scene. When combined with HDR video, TRILUMINOS® Display further increases the color depth for noticeably brighter and more realistic colors.

Upscale to a more natural picture

The difference is clear. You'll see lifelike detail and stunning clarity, no matter what you're watching. Two powerful image improvement databases work together, dynamically improving images in real time. 4K X-Reality PRO™ upscales images to near 4K clarity while a second database cleans the picture and reduce on-screen noise¹. Every single pixel is enhanced beautifully by the powerful 4K HDR Processor X1 Extreme.

Motionflow™ keeps the action smoother than ever

Displays that keep up with real life. Sony's refresh rate technology (Motionflow™ XR 1440 (native 120Hz)) builds upon the native 120Hz panel to allow fast moving action sequences in sports and movies to be seen with lifelike clarity.

A sophisticated slate design

From the front, the design exudes sophistication in the form of a simple black slate, letting viewers immerse themselves in the stunning power of 4K HDR (High Dynamic Range). The design features premium gold finish, and keeps all of your cables completely concealed, ensuring that the display strikes an elegant look from any angle. The Z9D comes in a 65", 75" or 100" Class to fit even the grandest room.

Send to a bigger, better screen with Google Cast™

Send movies and music from your smartphone to your display with Google Cast™. Use your phone as a remote control⁹

All the apps you love

Enjoy a huge range of apps from Google Play™, including YouTube™, Netflix, Amazon Video, Hulu, Pandora and more. Also, play your favorite Android games on the big screen³.

Find everything fast

The unobtrusive content bar quickly lets you find the movie, TV show or video you're looking for. Call up the Content bar and you can keep watching, while you scan through live TV, videos on demand, downloaded TV shows and much more. You can even customize the content bar to show you the content you go to most often first.

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Immerse yourself in 3D

Enjoy compatible Blu-ray movies, TV broadcasts, and web videos with finely detailed 3D images. See pictures with a more natural depth of field and immerse yourself in sport, movies, and games like never before. (Comes with glasses)

Specifications

3D Features		Channel Block (with password)	Analog & Digital	X-tended Dynamic Range PRO/ X-tended Dynamic Range	X-tended Dynamic Range PRO
3D capability	Active	Google Cast™	Yes	Display	
3D Format Support	Yes (exclude 4K)	HDMI-CEC	Yes	Aspect Ratio	16:9
3D Super-resolution	Yes	i-Manual	Yes	Display Resolution	QFHD
Audio		Multiple Language Display	English, Spanish, French	Display resolution (H x V, pixels)	3840 x 2160
Bass/Treble/Balance	Balance	On/Off Timer	Yes	Screen Size (cm, measured diagonally)	252.8 cm
DSEE/DSEE-HX	DSEE	On-Screen Clock	Yes	Screen Size (inch, measured diagonally)	100" (99.5")
Speaker Configuration	2ch, Two way speaker (Tweeter (30mm) + Woofer (40 x 100mm)) x2	Parental Control	Yes	Viewing Angle (Right/Left)	178 (89/89) degree
Speaker Position	Down Firing	Show/Hide Channels	Yes (Digital & Analog)	Viewing Angle (Up/Down)	178 (89/89) degree
Speaker Type	Long Duct	Sleep Timer	Yes	Energy Saving & Efficiency	
Audio Features		Text Input Language	BUL / CAT / HRV / CES / DAN / DUT / ENG / EST / FIN / FRA / GER / GRK / HUN / ITA / LAV / LIT / NOR / POL / POR / RON / RUS / SLK / SLV / SPA / SWE / TUR / UKR / THA / VIE / ARA / FAS / JPN	Backlight Off Mode	Yes
Advanced Auto Volume	Yes	USB drive format support	Yes (Supported File System: FAT16/FAT32/exFAT/NTFS)	Dynamic Backlight Control	Yes
Alternate Audio (Digital)	Yes	USB playback codecs	MPEG1: MPEG1 / MPEG2PS: MPEG2 / MPEG2TS(HDV,AVCHD): MPEG2, AVC / MP4(XAVCS): AVC, MPEG4, HEVC/AVI: Xvid, MotionJpeg / ASF(WMV): VC1 / MOV: AVC, MPEG4, MotionJpeg / MKV: Xvid, AVC, MPEG4, VP8, HEVC/WEBM: VP8/3GPP: MPEG4, AVC / MP3 / ASF(WMA) / WAV / MP4AAC / FLAC / JPEG	Power Saving Modes	Yes
ARC Output Format	Dolby Digital, Dolby Digital Plus, DTS, PCM	Voice Search	Yes	General Features	
Audio Out	Fixed / Variable	Customizing Capability		Closed Captions (CC)	Analog Digital
Auto Mute (on no signal)	Yes	RS-232C Control	Yes	Demo Mode	Yes
Auto Surround	Yes	Design Features		Hotel Mode Menu	Yes
Clear Audio+	Yes	Cable Management	Yes	Inputs and Outputs	
Clear Phase	Yes	Frame color	Black	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
Digital audio out (Optical) format	Dolby Digital, DTS, PCM	Illumination LED	Yes	AC Power Input	1 (rear)
Dolby audio format support	Dolby Digital, Dolby Digital Plus, Dolby Pulse	Stand Design	Black Slate	Analog Audio Input(s) (Total)	2 (1 Analog Conversion / 1 Rear)
DTS audio format support	DTS Digital Surround	Display Features		Audio / Headphone Output(s)	1 (Side / Hybrid w/HP and Subwoofer Out)
HDMI Audio Return Channel(ARC)	Yes	Backlight dimming type	Local Dimming	Bluetooth profile support	Version 4.1 HID / HOGP / 3DSP / SPP
HDMI input Audio format	PCM (5.1ch, 32, 44.1, 48, 88.2, 96, 176.4, 192kHz, 16, 20, 24bit), Dolby Digital, Dolby Digital Plus, DTS	Backlight Type	Direct LED (Backlight Master Drive)	Component Video (Y/Pb/Pr) Input(s)	1 (rear)
Headphone/Speaker Link	Yes	Display type	LCD	Composite Video Input(s)	2 (1 Side Analog Conversion / 1 Rear Hybrid w/Component)
Simulated Surround Sound	S-Force Front Surround	TRILUMINOS Display	Yes	Digital Audio Output(s)	1 (side)
S-Master	S-Master Digital Amplifier	Convenience Features		Ethernet Connection(s)	1 (side)
Sound Modes	Standard, Cinema, Live Football, Music	Application Store	Yes (Google Play Store)	HDCP	HDCP 2.2 (for HDMI1/2/3/4)
Convenience Features		Auto Picture Mode	Yes	HDMI inputs total	4 (outside 1, center 3)
Auto Shut-off	Yes	Auto Shut-off	Yes		

HDMI PC Input Format	640 x 480@60Hz 800 x 600@60Hz 1024 x 768@60Hz 1280 x 1024@60Hz 1600 x 900@60Hz 1152 x 864@75Hz 1680 x 1050@60Hz 1920 x 1080@60Hz 3840 x 2160@30Hz
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
HDMI Signal 3D	Frame Packing: 1080p (30Hz), 1080/24p, 1080i(60Hz), 720p(30, 60Hz), 720/24p. Side-by-Side: 1080p (60Hz), 1080/24p, 1080i (60Hz), 720p (60Hz). Over-Under: 1080p (30, 60Hz), 1080/24p, 1080i (60Hz), 720p (60Hz)
Headphone Output(s)	1 (Side / Hybrid w/HP and Subwoofer Out)
RF Connection Input(s)	1 (side)
RS-232C Input(s)	1 (Side / Mini Jack)
Subwoofer Out	1 (Side / Hybrid w/HP and Subwoofer Out)
USB Port(s)	3 (side)
Network Features	
Codec for Home Network	MPEG1: MPEG1/ MPEG2PS: MPEG2/ MPEG2TS(HDV,AVCHD): MPEG2,AVC/MP4(XAVC S): AVC,MPEG4,HEVC/ AVI: Xvid,MotinJpeg/ ASF(WMV): VC1/
Electronic Program Guide (EPG)	Yes
Featured (Content Bar)	Yes (depends on ad provider on that region)
Home Network Feature	Home Network Client / Home Network Renderer
Internet Browser	Opera (not pre-Installed)
Live Football Mode	Yes
Other Network Features	Content Bar: Yes Genre Categories (Content Bar): Yes (depend on countries) Related Info: Yes (US / Canada / MX(STB))
Photo Sharing Plus / Photo Share	Yes
Screen mirroring(Miracast™)	Yes
Social Viewing	Yes
Trending on Twitter	Yes (only US)
TV SideView™	Yes
Wi-Fi Certified	Yes

Wi-Fi Direct	Yes
Wi-Fi Frequency	2.4GHz / 5GHz
Wi-Fi Standard	a/b/g/n/ac
Wireless LAN	Integrated
Power	
Annual Power Consumption	471 kWh/Year
Power Consumption (In Operation)	767W
Power Consumption (in Standby)	0.5W
Power Requirements (frequency)	60Hz for UL cUL 50/60Hz for other
Power Requirements (voltage)	AC 120V for UL cUL AC 110-240V for other
Regulation and Standards Compliance	
VESA® Hole Pitch	23 5/8 x 15 3/4 in (600 x 400 mm)
VESA® Hole Spacing Compatible	Yes
Sensing Features	
LightSensor™ Technology	Yes
Service and Warranty Information	
Limited Warranty Term	3 Years
TV System	
Channel Coverage (Analog)	VHF: 2-13 / UHF: 14-69 / CATV: 1-135
Color Space	sRGB / BT709, BT2020, AdobeRGB, DCI
Color System	NTSC
Number of Tuners (Terrestrial/Cable)	1 (Digital / Analog)
On-board Storage (GB)	16GB
OS	Android
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
4K Processor	X1 Extreme
Advanced Contrast Enhancer (ACE)	Yes
Auto Wide	Yes
Blinking Type	Line Blinking

Face Area Detection	Yes
HDR (High Dynamic Range) compatibility	Yes
Live Color™ Technology	Yes
Mastered in 4K	Yes
Motionflow™ XR Technology	Motionflow XR
Panel Refresh Rate (Native Hertz)	120Hz
PhotoTV HD	Yes
Picture Modes	Vivid, Standard, Custom, Cinema Pro, Cinema Home, Sports, Animation, Photo-Vivid, Photo-Standard, Photo-Custom, Game, Graphics
Video Processing	4K 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: 89 x 51 3/8 x 3 7/8 in (2258 x 1303 x 98 mm) TV with stand: 89(89) x 54 7/8(67 3/4) x 19 7/8(26 5/8) in (2258(2258) x1393(1718)x504(675) mm) Stand Width: 29 5/8(89) in (750(2258) mm) AC Cable Length: 2000 mm
Packaging (Approx.)	Carton dimensions: 96 1/2 x 65 1/4 x 30 in (2450 x 1657 x 760 mm) Carton weight: 484.6lbs (220 kg)
Weight (Approx.)	TV only: 261.3 lbs (118.6 kg) TV with stand: 319.0(291.5) lbs (144.8(132.3) kg)
Accessories	
Supplied Accessories	Voice Remote Control (RMF-TX201U) 3D Glasses x 2 (TDG- BT400A) Batteries (R03) AC Power Cord (C17 US 2Pin (w Polarity), Cord- Set) IR Blaster (1-849-161-11) Operating Instructions Quick Setup Guide / Supplement CUE (GA) Table Top Stand (assembled)

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Optional Accessories

Optional Accessories	Wireless Subwoofer (SWF-BR100) 3D Glasses (TDG-BT500A)
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B2B Function	Full HD	4K UHD	Application
Guest Mode	Y	Y	Ideal for hospitality market, hotels
Hide Settings Menu	Y	Y	
Initial Channel	Y	Y	
Volume Restriction	Y	Y	
AC Power ON Disable	Y	Y	
Remote/Switch Settings Clone	Y	Y	
Custom Home Menu (HTML5)	N	Y	
IP Control	N	Y	Ideal for system integration market in corporate and education applications
HTML5 Application Platform	N	Y	
Android Platform	N	Y	
Extension Software	N	Y	
HDMI Auto Wakeup	N	Y	
Security Features	N	Y	
Touch Overlay Support	N	Y	
Portrait	N	Y*	
Miracast/Google Cast	N	Y**	
Mouse/Keyboard	N	Y***	

*Applies to X850D Series beginning August 2016

**Google Cast is not currently available in Pro Mode

***Keyboard is available in applications only; mouse is available in the home menu

1. 3,840 x 2,160 pixels. Upscaled, simulated and enhanced 4K images will vary based on source content.

2. Compared to standard LED HDTVs.

3. 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.

4. Requires compatible devices connected to the same network. Google Cast requires mobile devices with Android 2.3 or higher, or iOS 6.0 or higher and Chromecast application. Google Play using Android TV Remote Control application requires Android 4.0 or higher; not available for iOS. Voice Search is available using the included remote control, Android TV Remote Control application with Android 4.0 or higher, or using Sony's TV SideView application available for Android 4.0.3 or higher or iOS 7.0 or higher.

5. Requires HDR compatible content from supported streaming services, such as Amazon Video.

6. Logitech Harmony Hub sold separately. Requires all compatible devices connected to the same network. Refer to Logitech for details on compatible devices. Compatible IP cameras require direct connection to the TV via Wi-Fi.

7. Requires 3D content, 3D player, and HDMI® cable (at least 10.2 Gbps).

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