

# SONY

## XBR-98Z9G

### 98" class (97.5" diag.) 8K HDR TV

Step into the world of 8K with Sony's best processor ever. Sony's MASTER Series continues to change the way you watch TV with the Z9G 8K HDR LED TV. With four times the resolution of 4K HDR, picture is richer in color and clarity than ever before. Upscale anything you watch to the heights of near-8K HDR quality with the Picture Processor X1 Ultimate and Backlight Master Drive.



### Bullets

- MASTER series TVs are meticulously engineered for excellence with the latest and greatest in TV technology
- Everything is upscaled to get close to 8K HDR with the Picture Processor X1™ Ultimate and 8K X-Reality PRO<sup>1,2</sup>
- 8K X-tended Dynamic Range™ PRO 20x contrast range provides a wider range of brightness<sup>3</sup>
- Acoustic Multi-Audio produces an immersive Sound-from-Picture Reality™ experience
- 8K HDR<sup>1</sup> - HDR10, HLG, IMAX Enhanced<sup>4</sup> and Dolby Vision™<sup>5</sup> support for incredible detail and clarity
- X-Wide Angle technology makes picture and color look great from anywhere in the room
- On-screen action and motion look better than ever with X-Motion Clarity™ technology and native 120Hz refresh rate.
- Enjoy smooth and vibrant colors with TRILUMINOS™ Display & 8K HDR Super Bit Mapping
- Android™ TV with the Google Assistant built in gives you a genius TV with hands-free voice search<sup>6</sup>
- Enjoy studio-quality Netflix content with Netflix Calibrated Mode<sup>10</sup>

### Features

#### Masters of picture quality

Sony's MASTER Series TVs are the very best of Sony, created to exemplify the goal of faithfully conveying the creator's intent on-screen. These TVs are engineering marvels that are meticulously designed with the latest and greatest proprietary TV technology. The MASTER Series TVs deliver Sony's best picture quality, no matter what you like to watch.

#### Intelligent processing, ultimate realism.

Simply put, our proprietary 8K HDR Picture Processor X1™ Ultimate is our best processor, ever. Object-based rendering happens in real time at lightning speed to remaster and upscale everything you see to near-8K HDR quality.<sup>1,2</sup> Everything on the screen is identified, analyzed and optimized individually to adjust the overall contrast, sharpness and color for a picture that looks nearly identical to the real thing.

#### Experience a more natural picture with 8K X-Reality PRO & Object-Based Super Resolution

Every object, accurately displayed. With Object-Based Super Resolution in combination with 8K X-Reality PRO™, you'll see lifelike detail, textures, and clarity in everything you watch. Leveraging intelligent 8K database, pictures look cleaner with less on-screen noise. Every single pixel is enhanced beautifully by Sony's best 8K HDR Picture Processor X1™ Ultimate.<sup>1,2</sup>

#### Enhanced brightness, incredible contrast with Backlight Master Drive and 8K X-tended Dynamic Range Pro 20x

Sony's Backlight Master Drive dynamically changes the light levels in sections of the screen depending on the content, resulting in a dramatic increase in contrast and brightness. Add in 8K X-tended Dynamic Range™ PRO 20x which gives the screen 20 times the contrast range of a conventional LED-edge lit TV<sup>3</sup>. Backlight Master Drive's calibrated beam design accurately send light only where it is needed for more accurate contrast. Balancing the light output across the screen, darker scenes get darker brighter scenes get brighter.

# SONY

## An immersive audio experience

Four front facing speakers across the chassis of the TV create wide, authentic sound that seems to come from where the action occurs. With action and sound precisely aligned, your viewing becomes so much more immersive, no matter what you're watching.

## See the big picture with 8K HDR, IMAX Enhanced and Dolby Vision

High Dynamic Range (HDR) picture is the way TV was always meant to be watched. 8K resolution and HDR video content combine to bring dazzling detail, color and contrast to everything you watch, while keeping a far wider range of brightness than other video formats.<sup>1</sup> IMAX Enhanced™<sup>4</sup> makes movies feel larger than life. Dolby Vision™<sup>5</sup> brings scenes to life with striking highlights, deeper darks and vibrant colors. Whichever format you choose, Sony TVs deliver picture-perfect reality, creating an immersive and engaging cinematic experience.

## Every seat is the best seat in the house

X-Wide Angle technology gives the Z9G vivid real-world colors from any angle while retaining more color and brightness than other LED TVs. Enjoy a great picture with incredible color from anywhere in the room.

## On-screen action and motion look better than ever

Scenes appear as they do in real life with X-Motion Clarity™ technology. This revolutionary, best in class technology from Sony refines action on the screen in real time with an incredible refresh rate for action that is brighter and clearer than ever before.

## TRILUMINOS™ Display & 8K HDR Super Bit Mapping deliver smooth and vibrant colors

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 rich, authentic images that evoke the emotion in every scene. And, 8K HDR Super Bit Mapping reveals thousands of shades and gradations of light, for sunsets as bright and clear as real life.

## Hands-free smart TV

With Android TV and the Google Assistant built-in, simply ask and you shall receive. With hands-free voice search, just start with "Hey Google" to ask it questions, control smart home devices like Nest™, or access many of the apps and services you already use every day.<sup>6</sup> In addition, cast your favorite apps with Chromecast built-in<sup>7</sup>, or enjoy a huge range of apps from Google Play™, including YouTube™, Netflix, Prime Video, Hulu, Spotify and more.<sup>6</sup>

## Well-connected to your smart home

With Google Home<sup>9</sup> and Amazon Alexa<sup>10</sup> compatibility, simply voice-control your TV and ask it to do things like cast and control videos from YouTube with Google Home or change the channel or volume with Amazon Alexa. Apple HomeKit and Airplay 2 support seamlessly integrate your iPhone and Siri devices with your Sony TV for effortless smart home management and content streaming.<sup>12</sup>

## Enjoy studio quality Netflix content with Netflix Calibrated Mode

This mode was specially developed to enjoy Netflix originals and reproduce picture quality on a TV that is as brilliant as a studio evaluation master. With Netflix Calibrated Mode, the creator's vision and intent is faithfully preserved.<sup>10</sup>

## High performance calibration for professionals

Our MASTER Series TVs receive high performance calibration that has never previously been possible using CalMAN software<sup>11</sup>. It allows adjustments to be made with finer precision than conventional picture quality settings to meet the strict requirements of creators in the post-production stage. Colors are reproduced with maximum fidelity to the original TV signal, giving exceptional picture control for a TV. CalMAN also features an easy-to-use interface that has been well received by calibration specialists.

## Specifications

<b>Audio</b>		Advanced Auto Volume	Yes	Digital audio out (Optical) format	Two channel linear PCM: 48 kHz 16 bits, Dolby Digital, DTS
Audio Power Output	10W+ 10W+ 10W +10W +10W +10W +10W +10W	Alternate Audio (Digital)	Yes	Dolby audio format support	Dolby Audio (Dolby Digital, Dolby Digital Plus, Dolby AC-4)
Bass/Treble/Balance	Balance	ARC Output Format	Two channel linear PCM: 48 kHz 16 bits, Dolby Digital, Dolby Digital Plus, DTS	DTS audio format support	DTS Digital Surround
Speaker Configuration	2.1ch/Two way Multi-amplifier	Auto Surround	Yes	HDMI Audio Return Channel (ARC)	Yes (eARC)
Speaker Position	Front	Clear Phase	Yes		
Speaker Type	Acoustic Multi-Audio				
<b>Audio Features</b>					

HDMI input Audio format	5.1 channel linear PCM: 32/ 44.1/ 48/88.2/ 96/ 176.4/ 192kHz 16/ 20/ 24bits, Dolby Digital, Dolby Digital Plus, DTS
Simulated Surround Sound	S-Force Front Surround
S-Master	S-Master Digital Amplifier
Sound Modes	Standard, Dialog, Cinema, Music, Sports, Dolby Audio

### Convenience Features

Application Store	Yes(Google Play Store)
Auto Picture Mode	Yes
Auto Shut-off	Yes
Channel Block (with password)	Analog & Digital
Chromecast built-in	Yes
HDMI-CEC	Yes
i-Manual	Yes
On/Off Timer	Yes
On-Screen Clock	Yes
Parental Control	Yes
Show/Hide Channels	Yes (Digital & Analog)
Sleep Timer	Yes
Text Input Language	ENG / FRA / GER / HEB / ITA / RUS / SPA / VIE / JPN
USB drive format support	Yes (Supported File System: FAT16/FAT32/exFAT/NTFS)

USB playback codecs	MPEG1: MPEG1/ MPEG2PS: MPEG2/ MPEG2TS (HDV,AVCHD) : MPEG2, AVC / MP4 ( XAVC S): 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 WEBM: VP9/ AC4/ ogg / AAC/ ARW (Screen nail only)
---------------------	--

Voice Search	Yes* *Hands Free feature(Built-in Mic) availability depends on language and may need software update. Please check Sony support page for further information; <a href="https://www.sony.net/tv-hf-ww/">https://www.sony.net/tv-hf-ww/</a>
--------------	--

### Design Features

Cable Management	Yes
Frame color	Black
Illumination LED	Yes

Stand Design	Black
<b>Display Features</b>	
Backlight dimming type	Local Dimming
Backlight Type	Direct LED (Backlight Master Drive)
Display type	LCD
TRILUMINOS Display	Yes
X-tended Dynamic Range PRO/ X-tended Dynamic Range	8K X-tended Dynamic Range PRO

### Display

Aspect Ratio	16:9
Display Resolution	8K UHD
Display resolution (H x V, pixels)	7680x4320
Screen Size (cm, measured diagonally)	247.7 cm
Screen Size (inch, measured diagonally)	98" (97.5")
Viewing Angle (Right/ Left)	178(89/89) degree
Viewing Angle (Up/ Down)	178(89/89) degree

### Energy Saving & Efficiency

Dynamic Backlight Control	Yes
Power Saving Modes	Yes (Power Saving Mode / Back Light Off Mode)

### General Features

Closed Captions (CC)	Analog Digital
Demo Mode	Yes (only e-POP)
Hotel Mode Menu	Yes

### Inputs and Outputs

4K 60P High-Quality formats	HDMI IN1, IN2, IN3, IN4 ports for 4K(up to 6Gbps) signal
AC Power Input	1 (Bottom)
Analog Audio Input(s) (Total)	1 (1Side Analog Conversion)
Bluetooth profile support	Version 4.2 HID/HOGP/SPP/A2DP/ AVRCP
Composite Video Input(s)	1 (Side)
Digital Audio Output(s)	1 (Bottom)
Ethernet Connection(s)	1(Bottom)
HDCP	HDCP2.3(for HDMI1/2/3/4)
HDMI inputs total	4 (1Side,3Bottom)

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 1152 x 864 @67.5kHz,75Hz 1600 x 900 55.9kHz,60Hz 1680 x 1050 @65.3kHz,60Hz 1920 x 1080 @67.5kHz,60Hz
----------------------	---

HDMI Signal	4096x2160p(24,60Hz), 3840x2160p(24,30,60Hz), 1080p(30,60,120Hz), 1080/24p, 1080i(60Hz), 720p(30,60Hz), 720/24p, 480p
-------------	--

Headphone Output(s)	1 (Side)
RF Connection Input(s)	1 (Bottom) (Terrestrial/ Cable)
RS-232C Input(s)	1(Side)
USB Port(s)	2 (Side) / 1 (Bottom)

### Network Features

Codec for Home Network	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) /LPCM /WAV /MP4AAC /FLAC / JPEG WEBM :VP9/ AC4 /ogg / AAC /ARW (Screen nail only)
------------------------	--

Home Network Feature	Home Network Client, Home Network Renderer
Internet Browser	Vewd (Not pre-installed)
Other Network Features	Related Info: Yes (US / Canada / MX(STB))
Screen mirroring(Miracast™)	Yes (only for B2B purpose)
Wi-Fi Certified	Yes
Wi-Fi Direct	Yes
Wi-Fi Frequency	2.4GHz/5GHz
Wi-Fi Standard	a/b/g/n/ac

### Power

Annual Power Consumption	1353 kWh/Year
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

# SONY

VESA® Hole Spacing Compatible	Yes
<b>Sensing Features</b>	
LightSensor™ Technology	Yes
<b>TV System</b>	
Channel Coverage (Analog)	VHF: 2-13/UHF: 14-69/ CATV: 1-135
Color Space	sRGB/
Color System	NTSC
Number of Tuners (Terrestrial/Cable)	1(Digital/Analog)
On-board Storage (GB)	16GB
OS	Android 8.0 Oreo
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
<b>Video Features</b>	
24p True Cinema	Yes
4:3 Default	Yes
4K Processor	Picture Processor X1 Ultimate
Auto Wide	Yes
Blinking Type	Line Blinking
Dual database processing	Yes
Dynamic Contrast Enhancer	Yes
Face Area Detection	Yes
HDR (High Dynamic Range) compatibility	Yes(HDR10, HLG, Dolby Vision)
Live Color™ Technology	Yes
Motionflow™ XR Technology	X-Motion Clarity, Auto mode
Object-based HDR remaster	Yes
Panel Refresh Rate (Native Hertz)	120Hz
Picture Modes	Vivid, Standard, Cinema, Game, Graphics ,Photo ,Custom, Dolby Vision Bright, Dolby Vision Dark, Netflix calibrated
Precision Color Mapping	Yes
Super Bit Mapping™ 4K HDR	Yes

Video Processing	8K X-Reality PRO
Wide Mode	Wide Zoom/Normal/Full/Zoom Normal/Full1/Full2 for PC
<b>Weights and Measurements</b>	
Dimensions (Approx.)	TV only: 86 3/4x51 5/8x4 3/8 inch (2202 x 1311 x 111 mm) TV with stand: 86 3/4(88 1/4)x55(68)x19 1/4(27 3/8) inch (2202 (2240) x 1395 (1725) x 486 (694) mm) Stand Width: 74 (88 1/4) inch (1879 (2240) mm (2240) AC Cable Length: 2000 mm TV with Floor Stand: 2240 x 1725 x 694 (W x H x D)
Weight (Approx.)	TV without Stand: 207.5 lb (94.2 kg) TV with Stand: 224.3 (249.4) lb (101.8(113.2) Kg )
<b>Accessories</b>	
Supplied Accessories	Voice Remote Control (RMF-TX600U) Floor Stand Batteries (LR03) AC Power Cord Spec (C23) (US) (2pin) (flat blades Polarity) Operating Instructions (English, French) Quick Setup Guide / Supplement CUE (GA) Table Top Stand (Separate(assembly required))



1.8K: 7,680 x 4,320 pixels. Requires HDR compatible content from supported streaming services, such as Netflix and Amazon Video or HDR compatible content device connected via HDMI input. Requires HDMI® cables sold separately

2. Upscaled, simulated and enhanced 8K images will vary based on source content.

3. This is the perceptible contrast level expanded by X-tended Dynamic Range PRO technology, which is a unique figure calculated for the contrast that users actually feel and experience (XDR Contrast). This figure is based on our conventional TV without local dimming.

4. IMAX Enhanced content enables the full IMAX Enhanced experience.

5. Dolby Vision™ is available via network update. Dolby Vision content will be compatible with Dolby Vision devices and streaming services such as Prime Video, Apple TV 4K, and Netflix.

6. User must connect to a Google account to use, including voice to activate linked apps. 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 separate or third party terms and conditions and changed, interrupted or discontinued at any time and may require fees, registration and credit card information. Apps must be compatible with TV. App availability varies by region and device. 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. Use of this TV requires consent to Google Terms of Service and Privacy Policy. Please visit <http://www.google.com/policies/terms/>, <http://www.google.com/policies/privacy/>.

7. Chromecast built-in compatibility dependent on app.

8. Google Home device (sold separately) compatible with Sony TV's powered by Android TV. Requires compatible devices connected to the same wireless home network. Download the Google Home app from the iPhone App Store or Google Play. Subject to third party app terms and conditions. User must link compatible devices in order to control operation. Once download is complete, the Google Home feature may be connected to the Sony device to access the voice control function

9. Amazon Alexa enabled devices (sold separately) compatible with Sony TV's powered by Android TV. Amazon account required. Subscriptions may be required to access certain content. Compatible devices require internet connection.

10. Netflix streaming membership required. 4K Ultra HD availability subject to your Netflix subscription plan, internet service, device capabilities, and content availability. [www.netflix.com/termsof](http://www.netflix.com/termsof)

11. Requires separately sold CalMAN calibration software to be installed on your PC, a pattern generator, a meter (colorimeter, spectrophotometer etc.), and CalMAN for BRAVIA app to be downloaded from Google Play and installed on your TV. Internet needed to utilize app services on TV. Network services, content, and software of this product may be subject to separate terms and conditions and changed, interrupted or discontinued at any time and may require fees, registration and credit card information.

12. AirPlay 2 and HomeKit compatibility will be available later this year. This Sony TV is compatible with AirPlay 2 and HomeKit. iOS 12.2 or later or macOS 10.14.4 or later is required.

© 2019 Sony Electronics Inc. All rights reserved. Reproduction in whole or in part without written permission is prohibited

Sony X-Reality, X-Motion Clarity, TRILUMINOS, X-tended Dynamic Range and the Sony logo are trademarks of Sony Corporation. HDMI is a trademark of HDMI Licensing LLC. Android, Android TV, Google Play, Google, YouTube and the Google logo are registered trademarks of Google Inc., used with permission. Amazon Alexa is a registered trademark of Amazon Technologies, Inc. Dolby, Dolby Vision and the double-D symbol are registered trademarks of Dolby Laboratories. Nest is a trademark of Nest Labs, Inc. Netflix is a trademark of Netflix Inc. All other trademarks are trademarks of their respective owners. Features and specifications are subject to change without notice. /Updated: February 22, 2019