

### Key Features

- Incredibly Slim 3mm Thin Panel
- Blazing Fast Response Time
- 1,000,000:1 Contrast Ratio
- Exceptional Color Reproduction
- 178° viewing angle
- High Brightness
- Energy Efficient



### Key Technologies

**OLED Story** What's so great about OLED— Lots! Blazing fast response times, wide viewing angles, exceptional color reproduction, outstanding contrast levels, and high brightness. The nature of its technology lends itself to extremely thin and lightweight designs along with the ability to use it in a variety of different applications. OLED is the holy grail of TV display technologies!

**What is OLED—** OLED stands for Organic Light Emitting Diode. The "organic" in OLED refers to organic material. Carbon is the basis of all organic matter. Examples of carbon-based substances include sugar, wood and the majority of plastics. The "LED" stands for "Light Emitting Diode" and describes the process of converting electric energy into light. There are two types of OLED – small molecule OLED and polymer OLED. Sony uses the small molecule type because it has a longer lifespan.

**How does OLED work—** A layer of organic material is sandwiched between two conductors (an anode and a cathode), which in turn are sandwiched between a glass top plate (seal) and a glass bottom plate (substrate). When electric current is applied to the two conductors, a bright, electro-luminescent light is produced directly from the organic material.

**How is color created—** OLED has more control over color expression because it only expresses pure colors when an electric current stimulates the relevant pixels. The OLED primary color matrix is arranged in red, green, and blue pixels, which are mounted directly to a printed circuit board. Each individual OLED element is housed in a special "micro-cavity" structure designed to greatly reduce ambient light interference that also works to improve overall color contrast.

The thickness of the organic layer is adjusted to produce the strongest light for each of the colors – red, green and blue - used to render the color picture. The three colors are further refined by a color filter, which purifies each color without the need for a polarizer, rendering outstanding color purity.

**What's next for OLED—** Sony established a milestone with the introduction of the industry's first Organic Light Emitting Diode (OLED) television, the XEL-1. This 11" diagonal desktop color television is just the first step Sony is taking in the world of OLED televisions. Larger screen sizes and higher native resolutions are possible. As substrates get thinner, the displays will in turn get thinner.

There are a variety of other uses for OLED technology. In fact, Sony has developed a new application for OLED technology called Organic Thin Film Transistor (TFT). The newly developed Organic TFT can be deposited on a flexible plastic display, which is the world's first full-color display that can project full color moving images even when the display is bent.

**Incredibly Slim** OLED TV's are incredibly slim because organic material directly emits light so OLED display panels do not require a thick backlight or complex construction like other flat panel technologies. The Sony® XEL-1 is an unbelievable 3mm thin (without its stand)!

**Blazing Fast Response Time** When turned "on," individual organic elements are stimulated directly by electric current, and therefore response time is incredibly fast.

**Outstanding Contrast** When an organic pixel is turned "off" the result is complete darkness. This results in deep blacks and an unheard of contrast ratio of 1,000,000:1. Yes, that's a one million to one contrast ratio!

**Exceptional Color Reproduction** Sony's unique "Super Top Emission" technology, which combined with a special micro-cavity and color filters, enhances color purity, achieves extraordinary high color contrast. In fact, 105% of the NTSC color space can be achieved!

**Wide Viewing Angles** OLED colors and contrast look amazing even at wide 178° viewing angles due to the direct view nature of the panel. Pixel colors look fantastic even at wide 178° viewing angles for an outstanding viewing experience.

**High Brightness** Because OLED elements individually emit light that are directly displayed on the screen, high brightness levels can be achieved.

**Energy Efficiency** OLED technology delivers a more efficient means of utilizing light, which is generated by the organic material itself instead of an always on backlight; also, when elements are in their "off" state, they consume no power whatsoever.

## Features

### General

Auto SAP: Yes  
Closed Caption (CC): Yes

### Video

Tuner: NTSC, CATV, ATSC, Clear QAM<sup>1</sup>  
Noise Reduction: Yes  
CineMotion® Reverse 3:2 Pulldown  
Technology: Yes (Off, Auto)  
Comb Filter: Yes (3D Digital Comb Filter)  
Picture Modes: Vivid, Standard, Custom  
Wide Mode: Wide Zoom, Normal, Full, Zoom  
Display Technology: OLED

### Audio

Sound Mode: Dynamic, Standard, Custom  
MTS Stereo Decoder: Yes  
A/V Synch: Yes  
Digital Amplifier: Yes  
Speaker On/Off: No  
Dolby® Digital: Yes (AC3 for ATSC)  
Steady Sound: Yes  
Sound Booster: Yes  
S-Force® Front: Surround (On, Off)

### Convenience

Favorite Channel: Yes  
Xross Media Bar®: Yes  
ID-1 Detection: Yes  
LightSensor™ : Yes

## Specifications

### General

Aspect Ratio: 16:9  
Screen Size: 11 inches measured diagonally  
Television Type: OLED Flat Panel  
Acceptable Video Signals: 480i, 480p,  
720p, 1080i/60, 1080p/60

### Video

Native Resolution: 960(H) x 540(V)  
Picture Adjustment: Mode, Reset, Picture,  
Brightness, Color, Hue/Color,  
Temperature, Sharpness, Noise  
Reduction, MPEG Noise Reduction,  
Advanced Settings: Black Corrector,  
Gamma, Clear White, Color Space, Live  
Color

### Audio

Audio Power Output: 2W (1W + 1W)

### Inputs and Outputs

Component Video (Y/Pb/Pr) Input(s): No  
Composite Video Input(s): No  
Digital Audio Output(s): Yes (Optical)  
RF Connection Input(s): 1 (rear)  
S-Video Input(s): No  
Headphone Output(s): 1 (Side)  
HDMI™ Connection(s): 2 (Rear) supports  
1080p/60, CEC capable  
Memory Stick® Media Slot: Yes (Memory  
Stick PRO™ )

### Service and Warranty Information

Limited Warranty: 1 Year Parts / 1 Year  
Labor. See Warranty card for full details.

### Dimensions

Weight: 4 lbs 3 oz (1.9Kg) with stand  
Measurements: 11 5/16 x 9 15/16 x 5  
1/2" (287 x 253 x 140mm) with stand

### Supplied Accessories

Remote Control  
Battery  
AC Power Adapter  
AC Power Cord  
75-ohm Coaxial Cable  
Cleaning Cloth  
Operating Instructions  
Warranty Card

Color: Black

UPC Code: 027242730557

1. Contact your local cable provider for details on how to access or  
subscribe to HD programming.

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