

### Key Features

- Full HD 1080p Resolution
- Motionflow™ 120Hz Technology for Smooth Motion
- BRAVIA Engine™ 2 fully digital video processor
- Ambient Sensor adjusts color based on room light
- LightSensor™ adjusts backlight with room light
- BRAVIA® Sync™ controls compatible devices w/ one remote<sup>1</sup>
- USB port for photos, music & video playback<sup>2</sup>
- 7 HD Inputs (4 HDMI, 2 Component, 1 PC)



### Key Technologies

**Full HD 1080p Resolution** Experience Full HD 1080p picture quality, the highest at-home resolution, and take full advantage of HD sources like a Blu-ray Disc™ Player or PlayStation®3 gaming console via the 16:9 wide screen panel (1920 x 1080).

**Motionflow™ 120Hz Technology** Experience smooth motion detail and clarity with Motionflow™ 120Hz technology. Motionflow™ 120Hz technology doubles the frame rate from the standard 60 frames per second and applies Image Blur Reduction technology to deliver a crisp, fluid and realistic viewing experience during fast-action scenes.

**BRAVIA Engine™ 2** Enjoy sharp, vibrant, life-like images while optimizing color & contrast and significantly reducing noise with the BRAVIA Engine™ 2 fully digital processor.

**Ambient Sensor** Get a natural looking picture whether you are watching movies late at night or playing video games during the day with an Ambient Sensor that automatically adjusts the picture color based on a room's lighting.

**LightSensor™ Technology** Automatically increase or decrease the level of brightness of your TV's backlight based on a room's lighting conditions with the integrated LightSensor™ technology. Dim the lights to watch a movie and the sensor dims the backlight, which also helps reduce unnecessary power consumption.

**BRAVIA® Sync™ Capable<sup>1</sup>** Conveniently operate and control other BRAVIA® Sync™ compatible devices - including BRAVIA® HDTVs, Blu-ray Disc™ Players, surround sound systems, Handycam® camcorders and Cyber-shot® digital still cameras, all with one remote control.

**USB Input<sup>2</sup>** Share your photos on the big screen or listen to your favorite music. Simply connect your digital camera, USB-enabled MP3 player, or USB storage device directly to your HDTV's USB input.

**7 HD Inputs<sup>3</sup>** Get versatile HD connection options with seven HD inputs, including four HDMI™ inputs to connect a Blu-ray Disc™ player, PlayStation®3 gaming console or any other HDMI-capable equipment. Two HD component inputs provide added HD-capable connectivity in addition a PC input (HD-15 pin) lets you use your HDTV as a computer monitor.



# KDL-46EX500

# 46" BRAVIA® EX500 Series HDTV

## Features

### General

Closed Captions (CC): Analog, Digital  
Finish (Surface Color): PianoBlack  
HDMI™ InstaPort: Yes

### Display

Backlight Type: CCFL  
Display Device: LCD

### Video

Video Processing: BRAVIA Engine 2™ Technology  
CineMotion® Reverse 3:2 Pulldown Technology: Yes  
Wide Mode: Normal, Zoom, Wide Zoom, Full (Full1-2 for PC)  
3D Comb Filter: Yes  
MPEG Noise Reduction: Yes  
Auto Wide: Yes  
4:3 Default: Yes  
24p True Cinema™ Technology: Yes  
Picture Mode: Vivid, Standard, Cinema  
Advanced Contrast Enhancer (ACE): Yes  
Motionflow™ Technology: 120Hz  
Cinema Mode: Yes  
Live Color™ Technology: Yes

### Audio

Auto SAP: 20FM/10AM  
Auto Mute (on no signal): Yes  
Steady Sound® Automatic Volume Control: Yes  
Audio Out: Fixed  
Stereo System: MTS  
Dolby®: Dolby® Digital  
Alternate Audio (Digital): yes  
Surround Effect: Cinema, Music, Live Sports, Game  
5.1 Channel Audio Out: Yes  
Sound Mode: Dynamic, Standard, Clear Voice, Custom  
5.1ch Through Out (Handycam): Yes  
Clear Voice: Yes  
Invisible Speaker (w/Sound Elevation): Yes

### Convenience

Channel Jump: Yes  
Multiple Language Display: English, French, Spanish  
Info Banner: PSIP, XDS  
Sleep Timer: Yes  
Input Skip: Manual  
Channel Surf: Yes  
Channel Block (with password): Yes  
Edit Channel Labels: Yes  
Label Inputs: Yes  
ID-1 Detection: Yes  
USB Application(s): Photo Viewer (jpeg), Music Player (mp3), Video Player (mpeg1), Video Player (mpeg2 TS)  
Theatre Mode (Theatre Button): Yes  
Show/Hide Channels: Yes  
Auto Shut-off: Yes  
BRAVIA® Sync™ : Yes  
Parental Control: Yes  
BRAVIA® Sync™ Menu Button: Yes (on Remote Control)  
On-Screen Display for External Input: Yes  
PIP (Picture in Picture): PC Input(HD15/HDMI) & TV Channel/CVBS/(HDMI)/(Component)  
Channel Labels: Yes  
Program Block: Yes  
Short Banner: Yes  
Auto Photo Mode: via USB  
Picture Adjustments Lock: Yes  
White Balance: RGB Gain/Bias  
Auto Picture Setting w/HDMI™ : Cinema, Photo, Graphics, Game

Scene Select: Auto, Cinema, Sports, Photo, Music, Game, Graphics, General  
Favorites (Simple UI): Yes  
Ambient Sensor: Yes  
Picture Frame Mode: Yes  
Stand Swivel: Yes  
Stand Swivel Range: Left 20°/Right 20°  
Start Up Sony Logo Display: Yes  
USB Player: Yes

## Specifications

### Display

Viewing Angle (Right/Left): 178(89/89)  
Viewing Angle (Up/Down): 178(89/89)  
Dynamic Contrast Ratio: 150,000:1  
Screen Size (measured diagonally): 46"  
Display Resolution: Full HD 1080(1920x1080)  
Aspect Ratio: 16:9

### TV System

Tuner (Cable): QAM  
Tuner (Terrestrial): ATSC™ / NTSC  
Channel Coverage: VHF: 2-13ch  
UHF: 14-69ch  
CATV (analog): 1-135ch  
CATV (digital) : 1-135ch  
TV System (Analog): M  
Number of Tuners (Analog): 1(Hybrid)  
Number of Tuners (Digital): 1(Hybrid)  
TV System (Digital): ATSC  
Color System: NTSC

### Video

Video Signal: 1080/60p (HDMI™ / COMPONENT), 1080/60i, 1080/24p (HDMI™ ONLY), 720/60p, 480/60p, 480/60i

### Audio

Audio Power Output: 20W (10W x 2)  
Speakers (Total): 2  
Speaker Configuration: 2

### Inputs and Outputs

Component Video (Y/Pb/Pr) Input(s): 2 (Rear) (1 fixed/1 selectable)  
Composite Video Input(s): 2 (1 Side/1 Rear)  
Digital Audio Output(s): Optical Digital Output - 1 (Rear)  
RF Connection Input(s): 1 (Rear)  
Analog Audio Input(s) (Total): 4 (1 Side / 3 Rear)  
Audio Out: 1(Rear)  
HDMI™ Connection(s) (Total): 4 (2 Side/2 Rear)  
PC In (D-Sub) + Audio In (Stereo Mini): 1 (Rear)  
USB 2.0: 1(Side)  
HDMI™ PC Input: Yes  
AC Power Input: 1 (Rear) AC Socket

### Power

Power Consumption (in Standby): Less than 0.23W (AC120V), Less than 0.4W (AC240V)  
Power Requirements (voltage): AC 120V  
Power Requirements (frequency): 60Hz  
Power Consumption (in Operation) max.: 255W Max

### Regulation and Standard Compliance

VESA® Hole Spacing Compatible: Yes  
VESA® Hole Pitch: 300x300(46")

### Service and Warranty Information

Limited Warranty Term: 1 Year Labor / 1 Year Parts

### Energy Saving & Efficiency

Power Saving Modes: Yes

Eco Settings: Yes  
Dynamic Backlight Control: Yes  
Backlight Off Mode: Yes  
Estimated Annual Energy Consumption (kWh): 215.0 kWh  
Idle TV Standby: Yes  
Power Consumption (On Mode) for Energy Star: 117.2W  
Power Consumption (Standby Mode) for Energy Star: 0.23W

### Recycled & Recyclable Materials

Product Materials: Recycled Carton (more than 40%)  
Packaging Materials: Recycled Carton (more than 20%)  
Printed Materials: FSC Certified

### Dimensions

Weight: 47.6 lbs. (21.6kg) with pedestal; 41.2 lbs. (18.7kg) without pedestal  
Measurements: 44 3/8 x 28 1/8 x 11.125 in (1127 x 713 x 281mm) with pedestal; 44 3/8 x 26 5/8 x 4 in (1127 x 676 x 101mm) without pedestal

### Supplied Accessories

Remote Control (RM-YD034)  
Batteries (Type AAA x2)  
AC Power Cord (attached)  
Screws (for pedestal (M5X16, 4 screws)  
Operating Instructions  
Quick Setup Guide  
Warranty Card  
Table Top Stand (separate, pre-assembled)

### Optional Accessories

Wallmount Bracket (SU-WL500)

UPC Code: 027242784925

1. Works with other BRAVIA® Sync or Theatre Sync™ labeled home audio/video products when connected via HDMI™ interface
2. USB device must be formatted FAT-32.
3. Limited to resolutions supported by both the PC and the Sony TV. See Sony TV user's manual and PC documentation for supported resolutions.

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