

KDL-46EX501

46" BRAVIA® EX501 Series HDTV

Experience Full HD 1080p, incredible contrast and sharp, vibrant images with the Sony® BRAVIA EX501-Series HDTV. Features incredible motion performance so you enjoy crisp, fluid motion during fast-action scenes plus LightSensor™ Technology that automatically adjusts brightness based on a room's lighting.



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).²

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

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.¹

USB Input

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 Inputs³

Specifications

Audio	
Audio Power Output	20W (10W x 2)
Speaker Configuration	2
Speakers (Total)	2
Audio Features	
5.1 Channel Audio Out	Yes
5.1ch Through Out (Handycam)	Yes
Alternate Audio (Digital)	yes

Audio Out	Fixed
Auto Mute (on no signal)	Yes
Auto SAP	20FM/10AM
Clear Voice	Yes
Dolby®	Dolby® Digital
Invisible Speaker (w/Sound Elevation)	Yes
Sound Mode	Dynamic, Standard, Clear Voice, Custom

SteadySound® Automatic Volume Control	Yes
Stereo System	MTS
Surround Effect	Cinema, Music, Live Sports, Game
Convenience Features	
Auto Photo Mode	via USB
Auto Picture Setting w/ HDMI™	Cinema, Photo, Graphics, Game
Auto Shut-off	Yes
BRAVIA® Sync™	Yes

BRAVIA® Sync™ Menu Button	Yes (on Remote Control)
Channel Block (with password)	Yes
Channel Jump	Yes
Channel Labels	Yes
Channel Surf	Yes
Edit Channel Labels	Yes
Favorites (Simple UI)	Yes
ID-1 Detection	Yes
Info Banner	PSIP, XDS
Input Skip	Manual
Label Inputs	Yes
Multiple Language Display	English, French, Spanish
On-Screen Display for External Input	Yes
Parental Control	Yes
Picture Adjustments Lock	Yes
Picture Frame Mode	Yes
PIP (Picture in Picture)	PC Input(HD15/HDMI) & TV Channel/CVBS/(HDMI)/(Component)
Program Block	Yes
Scene Select	Auto, Cinema, Sports, Photo, Music, Game, Graphics, General
Short Banner	Yes
Show/Hide Channels	Yes
Sleep Timer	Yes
Theatre Mode (Theatre Button)	Yes
USB Application(s)	Photo Viewer (jpeg), Music Player (mp3), Video Player (mpeg1), Video Player (mpeg2 TS)
USB Player	Yes
White Balance	RGB Gain/Bias
Design Features	
Stand Swivel	Yes
Stand Swivel Range	Left 20°/Right 20°
Display	
Aspect Ratio	16:9
Display Resolution	Full HD 1080(1920x1080)
Dynamic Contrast Ratio	150,000:1
Screen Size (measured diagonally)	46"
Viewing Angle (Right/Left)	178(89/89)
Viewing Angle (Up/Down)	178(89/89)

Energy Saving & Efficiency	
Backlight Off Mode	Yes
Dynamic Backlight Control	Yes
Eco Settings	Yes
Estimated Annual Energy Consumption (kWh)	215.0 kWh
Idle TV Standby	Yes
Power Saving Modes	Yes
General Features	
Closed Captions (CC)	Analog, Digital
Finish (Surface Color)	PianoBlack
HDMI™ InstaPort	Yes
Start Up Sony Logo Display	Yes
Inputs and Outputs	
AC Power Input	1 (Rear) AC Socket
Analog Audio Input(s) (Total)	4 (1 Side / 3 Rear)
Audio Out	1(Rear)
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)
HDMI™ Connection(s) (Total)	4 (2 Side/2 Rear)
HDMI™ PC Input	Yes
PC In (D-Sub) + Audio In (Stereo Mini)	1 (Rear)
RF Connection Input(s)	1 (Rear)
USB 2.0	1(Side)
Power	
Power Consumption (in Operation) max.	255W Max
Power Consumption (in Standby)	Less than 0.23W (AC120V), Less than 0.4W (AC240V)
Power Requirements (frequency)	60Hz
Power Requirements (voltage)	AC 120V
Recycled & Recyclable Materials	
Packaging Materials	Recycled Carton (more than 20%)
Printed Materials	FSC Certified
Product Materials	Recycled Carton (more than 40%)

Regulation and Standards Compliance	
VESA® Hole Pitch	300x300(46")
VESA® Hole Spacing Compatible	Yes
Sensing Features	
Ambient Sensor	Yes
Service and Warranty Information	
Limited Warranty Term	36 Months Labor
TV System	
Channel Coverage	VHF: 2-13ch UHF: 14-69ch CATV (analog): 1-135ch CATV (digital) : 1-135ch
Color System	NTSC
Number of Tuners (Analog)	1(Hybrid)
Number of Tuners (Digital)	1(Hybrid)
Tuner (Cable)	QAM
Tuner (Terrestrial)	ATSC™ / NTSC
TV System (Analog)	M
TV System (Digital)	ATSC
Video Features	
24p True Cinema™ Technology	Yes
3D Comb Filter	Yes
4:3 Default	Yes
Advanced Contrast Enhancer (ACE)	Yes
Auto Wide	Yes
Cinema Mode	Yes
CineMotion® Reverse 3:2 Pulldown Technology	Yes
Live Color™ Technology	Yes
Motionflow™ Technology	120Hz
MPEG Noise Reduction	Yes
Picture Mode	Vivid, Standard, Custom
Video Processing	BRAVIA Engine 2™ Technology
Wide Mode	Normal, Zoom, Wide Zoom, Full (Full1-2 for PC)
Dimensions (Approx.)	
Dimensions (Approx.)	44 3/8 x 28 1/8 x 4" (1127 x 713 x 281mm) with pedestal; 44 3/8 x 26 5/8 x 4" (1127 x 676 x 101mm) without pedestal
Weights and Measurements	

Weight (Approx.)	47.6 lbs. (21.6kg) with pedestal; 41.2 lbs. (18.7kg) without pedestal
Accessories	

Supplied Accessories	Remote Control (RM-YD034) Batteries (Type AAA x2) AC Power Cord (attached) Table Top Stand (separate, assembly required)
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Optional Accessories	Wallmount Bracket (SU-WL500)
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1. Works with other BRAVIA® Sync or Theatre Sync™ labeled home audio/video products when connected via HDMI™ interface.
 2. HDMI cable required, sold separately.
 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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written permission is prohibited. Sony, BRAVIA, BRAVIA Engine, BRAVIA Sync, Ambient Sensor, Motionflow, and their respective logos are trademarks of Sony. HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks of HDMI Licensing LLC. All other trademarks are trademarks of their respective owners. Features and specifications are subject to change without notice. Non-metric weights and measures are approximate. /Updated: October 12, 2011