

## KDL-40R450A

Sony® R450 Series LED HDTV

Introduce your home to the true beauty of Sony HD. Full HD 1080p image detail and bright LED backlighting are just the foundation for a great picture. Everything moves naturally with Motionflow™ XR 120 technology that delivers clear, realistic sports and movie action. Smartphone ready - video, photos and apps on the phone are re-sized and scaled to fit the larger TV screen while charging<sup>1</sup>.



---

### Bullets

- Brilliant Full HD 1080p picture quality
  - Direct LED for a bright picture and slim design
  - Smooth movement with Motionflow™ XR 120
  - Smartphone ready - TV that's made for your smartphone<sup>1</sup>
  - Crisp detail & contrast w/ Clear Resolution Enhancer
  - Share your pictures on the big screen via USB input
  - Three HD inputs for a cable box, PS3™ and more<sup>2</sup>
- 

### Features

#### Full HD 1080p

Nothing expresses crystal-clear detail like Full HD 1080p picture quality. Take advantage of the all-out HD glory of broadcast TV, satellite and other HD sources like your Blu-ray Disc™ player or PlayStation®3 entertainment system.

#### Bright and slim

Powerful yet thin LEDs deliver a brighter picture than conventional LCD backlighting. They also help achieve a slimmer TV design that looks beautiful in your home. What's more, Sony's Direct LED Backlight technology delivers outstanding contrast, rich colors and enhanced dark-scene detail.

#### Silky smooth

Recreate the movement of real life. Sprinters accelerate clearly with less blur, so watching from home feels like you're watching from the stands. By minimizing judder, Motionflow™ XR 120 technology helps fast-paced action look natural for a more authentic view of the game.

#### Your smartphone, now on TV

Movies, music and apps from your smartphone can now be viewed big on your TV. With the smartphone ready R450, Sony is helping you add value to the entertainment you already own. Using a Mobile High Definition Link cable, you can connect your smartphone to the TV to literally "mirror" what's seen on the smartphone screen. Video, photos and apps are re-sized and scaled to fit the larger TV screen. You can then use the TV remote to navigate the phone, while it's charging from the TV.<sup>1</sup>

#### USB input for your camera and more

Share your vacation photos instantly on the big screen or listen to your favorite music. Simply connect your compatible digital camera, USB-enabled MP3 player or USB storage device directly to your HDTV's USB input. It's a fast and simple way to relive the memories without a hassle. Even choose between slideshow, clock and calendar viewing modes.

#### Clearly different.

Fine details and textures appear in whatever you're watching, even in flat areas. Powered by Sony's advanced noise reduction algorithm, this technology boosts image clarity with heightened contrast and depth that you won't find on most televisions.

### Photos on the big screen

Turn your TV into a super-size digital photo frame. Connect a digital camera, USB thumb drive or cloud photo services. Then enjoy your photo collection with a choice of attractive slideshow, clock and calendar display modes.

### 3 HD inputs

Plug into the action with versatile HD connection options. Three HD inputs include two HDMI® inputs for sources like your HD cable box, home theater system, Blu-ray Disc™ player or PS3™ system, and one HD component input.<sup>2</sup>

## Specifications

Audio	
Audio Power Output	8W + 8W
Speaker Configuration	Full Range (40x100mm) x2
Speaker Position	Bottom
Audio Features	
Alternate Audio (Digital)	Yes
Audio Out	Variable/Fixed
Dolby®	Dolby Digital
Invisible Speaker	Yes
Simulated Stereo	Yes
Sound Booster	Yes
Sound Mode	StandardMusic-CinemaGameSports
SteadySound® Automatic Volume Control	Yes
Stereo System	MTS(AUTO SAP)
Convenience Features	
BRAVIA® Sync™	Yes
Channel Jump	Yes
Channel Surf	Yes
Edit Channel Labels	Yes
Favorites (Simple UI)	Yes
Info Banner	Yes
Input Skip	Yes
Label Inputs	Yes

Multiple Language Display	English/ Spanish/ French
On/Off Timer	Yes
On-Screen Clock	Yes
On-Screen Display for External Input	Yes
Parental Control	Yes
Picture Frame Mode	Yes
Scene Select	MusicCinemaGameGraphicsSports
Show/Hide Channels	Yes
Sleep Timer	Yes
Twin Picture	PIP&PAP(Fixed)
USB Play	Yes
USB Play (Contents)	MPEG1/ MPEG2TS/ MPEG2PS/ MP3/ Jpeg
USB Super Multi-Format Play	Yes
Design Features	
Stand Design	Square / Glossy Black
Display Features	
Backlight Type	Direct LED
Display Device	LCD
Display	
Aspect Ratio	16:9
Display Resolution	Full HD

Dynamic Contrast Ratio	over 1 million
Screen Size (cm)	101.6(cm)
Screen Size (measured diagonally)	40"(40.0")
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
Energy Star® compliant	Yes, V5.3 & V6
Power Consumption (On Mode) for Energy Star	53.9 W
Power Consumption (Standby Mode) for Energy Star	0.13 W
General Features	
Audio Return Channel	Yes
Closed Captions (CC)	AnalogDigital
Demo Mode	Yes
Finish (Surface Color)	Black
Hotel Mode Menu	Yes
Start Up Sony Logo Display	Yes
Inputs and Outputs	
AC Power Input	1 (REAR)

Analog Audio Input(s) (Total)	1 (Rear)
Audio Out	1 (Rear)
Component Video (Y/Pb/Pr) Input(s)	1 (Rear Hybrid w/Component)
Composite Video Input(s)	1 (Rear Hybrid w/Component)
Digital Audio Output(s)	1 (Rear)
HDMI™ Connection(s) (Total)	2 (1Rear,1Side)
HDMI™ PC Input	Yes
MHL	Yes
RF Connection Input(s)	1 (REAR)
USB 2.0	1 (Side)
<b>Power</b>	
Power Consumption (in Operation) max.	89 (W)
Power Consumption (in Standby)	Less than 0.2 W with 120V AC, less than 0.3 W with 240V
Power Requirements (frequency)	50/60Hz
Power Requirements (voltage)	AC110 ~ 240V
<b>Recycled &amp; Recyclable Materials</b>	
Packaging Materials	Recycled Carton (more than 70%)
<b>Regulation and Standards Compliance</b>	
VESA® Hole Spacing Compatible	Yes
<b>Sensing Features</b>	

LightSensor™ Technology	Yes
<b>Service and Warranty Information</b>	
Limited Warranty Term	12 months
<b>TV System</b>	
Channel Coverage (Analog)	VHF: 2-13/UHF: 14-69/CATV: 1-135
Channel Coverage (Digital Cable)	CATV: 1-135
Channel Coverage (Digital Terrestrial)	VHF: 2-13/UHF: 14-69
Color System	NTSC 3.58
Number of Tuners (Terrestrial/Cable)	1(Digital/Analog)
TV System (Analog)	M
TV System (Digital Cable)	Clear QAM
TV System (Digital Terrestrial)	ATSC
<b>Video</b>	
Video Signal	1080/24p (HDMI™)
<b>Video Features</b>	
24p True Cinema™ Technology	Yes
3D Comb Filter	Yes
4:3 Default	Yes
Advanced Contrast Enhancer (ACE)	Yes
Auto Wide	Yes
CineMotion® Reverse 3:2 Pulldown Technology	Yes
Clear Resolution Enhancer	Yes

Digital Noise Reduction	Yes
Intelligent Picture Plus with Signal Booster	Yes
LED Motion Mode	Yes
Live Color™ Technology	Yes
Motionflow™ Technology	Motionflow XR 120
MPEG Noise Reduction	Yes
Picture Mode	VividStandard-CustomCinema-Graphics
Wide Mode	FullNormalWide ZoomZoomNormal/Full1/Full2 for PC
<b>Measurements (Approx.)</b>	
Package Carton (W x H x D)	1069 x 634 x 149 mm/ 42 1/8 x 25 x 5 7/8 inches
TV only (W x H x D)	923x548x76(50) mm / 36 3/8x21 5/8x3(2) inch
TV with Stand (W x H x D)	923x567x181 mm / 36 3/8x22 3/8x7 1/4 inch
<b>Supplied Accessories</b>	
AC Power Cord	US 2 Pin (w Polarity), Pig-tail
Batteries	R03(Type AAA) x 2
Operating Instructions	US

1. Requires Mobile High Definition Link-compatible smartphone to be connected to the TV with a Mobile High Definition Link cable, sold separately.

2. Cables sold separately.

© 2012 Sony Electronics Inc. All rights reserved. Reproduction in whole or in part without written permission is prohibited.

Sony, BRAVIA, Motionflow and the Sony make.believe logo are trademarks of Sony. PlayStation is a trademark of Sony Computer Entertainment Inc. Blu-ray Disc is a trademark. Android is a trademark of Google Inc. iPhone is a trademark of Apple Inc., registered in the U.S. and other countries. All other trademarks are trademarks of their respective owners. Features and specifications are subject to change without notice. /Updated: February 11, 2013