KDL-40R450A

Sony® R450A 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[1].

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[1]
- 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[2]

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 R450A, 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.[1]

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.[2]

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
Auto Mute (on no signal)	Yes
Dolby®	Dolby Digital
Invisible Speaker	Yes
Sound Booster	Yes
Sound Mode	Standard Music Cinema Game Sports
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
Photo Frame Mode	Yes

Scene Select	Music Cinema Game Graphics Sports
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)	Analog Digital
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 (1 Rear,1 Side)
HDMI™ PC Input	Yes
MHL	Yes
RF Connection Input(s)	1 (Rear)
USB 2.0	1 (Side)

Power	
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

Recycled Recyclable Materials	
Packaging Materials	Recycled Carton (more than 70%)

Regulation and Standards Compliance	

VESA® Hole Spacing Compatible	Yes
Sensing Features	
LightSensor™ Technology	Yes
Service and Warranty Information	
Limited Warranty Term	12 months
TV System	
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
Video	
Video Signal	1080/24p (HDMI™ only) 1080/60i 1080/60p (HDMI™ / Component) 480/60i 480/60p 720/60p
Video Features	
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
LED Motion Mode	Yes

Live Color™ Technology	Yes
Motionflow™ Technology	Motionflow XR 120
MPEG Noise Reduction	Yes
Picture Mode	Vivid Standard Custom Cinema Graphics
Wide Mode	Full Normal Wide Zoom Zoom Normal/Full1/Full2 for PC
Weights and Measurements	
Dimensions (Approx.)	TV only: 36 3/8 x 21 5/8 x 3.2 in (923 x 548 x 76.5 mm) TV with stand: 36 3/8 x 22 3/8 x 7 1/4 in (923 x 567 x 181 mm)
Packaging (Approx.)	Carton Weight: 22.1 lbs (10.0 kg) Carton Dimensions: 42 1/8 x 25 x 5 7/8 in (1069 x634 x 149 mm)
Weight (Approx.)	TV only: 15.7 lbs (7.1 kg) TV with stand: 16.3 lbs (7.4 kg)
Supplied Accessories	
AC Power Cord	US 2 Pin (w Polarity), Pig-tail
Batteries	R03 (Type AAA) x 2
Operating Instructions	US
Quick Setup Guide / Supplement CUE (GA)	Yes
Remote Control	RM-YD092
Screws	Yes
Table Top Stand	separate (assembly required)
Warranty Card	Yes