

## KDL-46R453A

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

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- 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

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#### 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 R453, 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                    |
| Auto Mute (on no signal)              | Yes                               |
| Dolby®                                | Dolby Digital                     |
| Invisible Speaker                     | Yes                               |
| Simulated Stereo                      | 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)                            | 116.8(cm)                           |
| Screen Size (measured diagonally)           | 46"(46.0")                          |
| 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 | 67.0 W                              |

| Power Consumption (Standby Mode) for Energy Star | 0.14 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)  |
| 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)  |
| Power  |   |
| Power Consumption (in Operation) max.            | 109 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   |

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| 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/<br>CATV: 1-135           |
| Channel Coverage (Digital Sat)             | 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™ only)1080/60i1080/60p (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  |
| Clear Resolution Enhancer                  | Yes  |
| Digital Noise Reduction                    | Yes  |

|  |   |
|--|---|
| Intelligent Picture Plus with Signal Booster | Yes   |
| LED Motion Mode                              | Yes   |
| Live Color™ Technology                       | Yes   |
| Motionflow™ XR Technology                    | Motionflow XR 120                                       |
| MPEG Noise Reduction                         | Yes   |
| Picture Mode                                 | Vivid Standard Custom Cinema Graphics                   |
| Video Processing                             | BRAVIA Engine 3™ Technology(TBD)                        |
| Wide Mode                                    | Full Normal Wide Zoom<br>Zoom Normal/Full1/Full2 for PC |
| <b>Measurements (Approx.)</b>                |   |
| Package Carton (W x H x D)                   | 1213 x709 x 159 mm/ 47 7/8 x 28 x 6 3/8 inches          |
| TV only (W x H x D)                          | 1053x622x76(50) mm / 41 1/2x24 1/2x3(2) inch            |
| TV with Stand (W x H x D)                    | 1053x641x181 mm / 41 1/2x25 1/4x7 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  |
| Quick Setup Guide / Supplement CUE (GA)      | Yes   |
| Remote Control                               | RM-YD093  |
| Screws                                       | Yes   |
| Table Top Stand                              | Separate (assembly required)                            |
| Warranty Card                                | Yes   |

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.

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