JVC's 1080p Full HD LCD
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JVC’s exclusive GENESSA sets us apart as a leader in innovation and technology. The unique GENESSA chip is a 32bit turbo powered CPU processor that is the center of image reproduction. The chip combines all of our image processing, noise reducing and color management technologies into one communication unit — allowing for super fast sampling and more efficient communication between each of our core technologies.

Every one of our 1080p models features the highest available panel resolution (1920 x 1080), for a picture with over 2 million dots, and adds 5th Generation D.I.S.T., our state-of-the-art deinterlacer and scaler. D.I.S.T. detects and seamlessly up-scales any data less than 1080p to display at the full HD (1920 x 1080) resolution. Dual HDMI v1.3 inputs, the latest version of the HDMI specification, allows for seamless connection of 1080p sources such as Blu-ray Disc and HD DVD players with 1080p (60p/60i) outputs. Full Native mode shows the full picture, with no overscan. All combined, JVC incorporates the most innovative technologies into our LCDs to ensure that no matter what you are watching it will take complete advantage of all that HD has to offer.

Because of our exclusive 5 Point Color Management System, JVC LCD televisions produce color that is realistic and pure no matter what you are watching. This state-of-the-art circuit compensates for potential color range limitations with a pin-point sampling process that tells the GENESSA chip which colors need to be softened and which colors toned down. By anticipating which colors typically interfere with others and pro-actively preventing them from doing so, JVC color is simply superb.
Any manufacturer can use a 1080p panel in their LCDs, but not all of them will realize the extraordinary potential of Full HD. While the resolution capability of any 1920 x 1080 display is superb, ironically it is this same capability that can cause the defects from the original source material to be exaggerated and make the image look bad. At JVC we feel it’s fair to say that the image quality of your HDTV is only going to be as good as the software that drives it, and that is where JVC products provide an advantage — from GENESSA with D.I.S.T. working in unison to insure that every signal source, no matter the resolution, displays at the full HD (1920 x 1080) resolution that 1080p is capable of achieving. The remainder of this catalog details all the features that make that possible.

**MPEG Noise Suppression Circuitry**

The first in the long line of features within the GENESSA chip, is our MPEG Noise Suppression filter. Block noise and mosquito noise causes distortion around the edges of objects in MPEG video. This particular type of noise comes from radical steps within the gradation of sampled pixels within the video. JVC’s MPEG Noise Suppression filter detects and reduces this noise 75% more effectively than in the past. JVC’s approach is also highly effective at reducing noise inside gradation without degrading the image resolution, even for off-air digital broadcasts.

**HD Range 150 MHz Digital Super Detail (DSD)**

**HD Range DSD** is another powerful JVC image enhancing feature that insures all scenes, even the most demanding action scenes, are reproduced with a minimum of edge blur. For high action scenes HD DSD enhances the edges of moving object to reduce blur. For still and minimum motion scenes HD DSD eliminates edge glare with an advanced natural compensation measure. Via communication with the GENESSA chip, HD DSD ensures a natural focus that is unparalleled in other 1080p televisions.
Superior Gamma Control …

Another key reason behind JVC’s superior imagery is our gamma control is far better than that which typically goes into an LCD TV. Taking credit for this is an algorithm within the GENESSA chip called Motion Adaptive Dynamic Gamma. This circuit actively detects areas of darker data, even in motion, and preserves the tonal details and gradations with those areas so that they remain rich with detail and never appear muddied.

Note on the simulated image how the Dynamic Gamma circuit keeps this dark image so clean and full of detail that you can make out the details in the trees on the JVC side.

Superior Picture Reproduction Overall …

A central challenge to any High Definition TV is noise reduction because noise is an inherent part of broadcasts and videos, especially on older sources. Noise reduction is an area where JVC excels because we incorporate special filters and circuits to take care of every kind of noise.

**Digital Video Noise Reduction** detects and stabilizes digital video noise to reduce any graininess. Its “real time” detection of noise provides for intelligent control and improved noise reduction for an overall smoother image. An added adaptive processor for the DVD input insures that all your video sources are noise free.

**A 3D Y/C Digital Comb Filter w/Cross Color Eliminator** detects and reduces embedded dot and color interference from digital broadcast and component signals for crystal clear images.

**Natural Progressive Technology** converts interlaced video to progressive to insure the smoothest picture. Natural Progressive works by insuring total focus in areas that normally blur, such as where fast movement and where skewed lines exist, so images are always smooth.

**Natural Cinema (3-2 Pull Down) Technology** is an edge smoothing circuit that samples and compensates for the jagged edges commonly found in videos that were converted from film. This filter is especially helpful with movies on DVD.
Broadcasts vary and so do people’s preferences as to how their shows look best on the screen. Some individuals don’t mind black bars, others find them annoying. JVC gives viewers the power to refill the screen in a variety of ways:

**Sample Aspect Modes**

- **Full Native mode** is a JVC exclusive mode. Most HDTVs show about 95% of the actual broadcast picture, cutting off approximately 5% in both the horizontal and vertical directions. JVC’s Full Native Mode shows the complete picture, sacrificing nothing with pixel perfect reproduction and absolutely no overscan.

- **Cinema Zoom mode** zooms in on an HD 16:9 image eliminating the surrounding “picture frame”, and fills the entire screen without distorting the image.

- **Panorama Zoom mode** stretches an HD 4:3 image from the edges to fill the 16:9 screen and eliminates side bars.

- **Full mode** stretches the image from the center to fill the screen (in SD or HD).

- **Slim mode** allows viewers to change 4:3 content that is broadcast in 16:9 back to the original 4:3 aspect.

- **Regular mode** makes no adjustment to the incoming signal. 4:3 broadcasts will have side bars and 16:9 broadcasts will fill the screen perfectly with no distortion (in SD).

- **Panorama mode** stretches a normal 4:3 aspect to fill the 16:9 viewing area (in SD).

- **Cinema mode** zooms in on a 4:3 image, fitting it to the entire 16:9 viewing area (in SD).
Complete Sound Package …

With 20W total audio power, each LCD in this catalog generates superb sound with JVC’s original bass-reflex oblique cone speakers situated on the bottom of the TV. By design, the speakers deliver sound upwards from their off-centered voice coil which reduces distortion and optimizes sound quality for anyone sitting in front of the television.

Advanced Hyper Surround (A.H.S.) is JVC’s exclusive surround sound simulator. It creates the illusion of a 3D soundfield without the need for a separate surround sound system.

Smart Sound reduces and compensates for sudden changes in volume between programs and commercials.

Unique Remote Design Adds Convenience & Style …

Our new universal remote, RM-C1450, controls your TV, easily navigates the menus, and is programmable for many brands of Cable Set Top Boxes, VCRs, DVDs and Audio products such as receivers, integrated amps, and HTIB systems, making it the only remote you may ever need. What makes this remote truly unique is Dual IR Blasters that fire simultaneously allowing for a broader IR range than a typical remote. IR 1 (positioned in front, aiming forward) allows for traditional style point and shoot control. IR 2 (angled slightly downward) is positioned for when you hold the remote in hand like a book to read the buttons — the television still receives the signal without you having to aim the remote directly at it.

Other great remote features include:

• Easily toggle between Video Input sources with Direct Video Input Buttons
• Audio Mode for Receiver, Amplifier or HTIB
• STB mode for Cable, DBS, DVR with EPG, Menu, Play/Stop/FF/Rew/Record
• DVD player & recorder control

Twin Oblique Cone Speakers

Advanced Home Theater Features …
Great Convenience Features Add to Your Perfect Experience!

**Smart Package** makes features automatic! **Smart Caption** automatically turns on closed captioning when you press the CC button on your remote control. **Smart Picture** monitors the Average Picture Level (APL) and automatically adjusts the contrast to make sure that the picture is never too bright or too dark. This feature insures the contrast and detail are optimal. **Smart Sound** – automatically evens out the differences in volume levels often heard between regular programming and commercials.

**Connectivity to Your Other Devices …**

**New USB Photo Viewer** – The USB photo viewer enables you to turn your television into a slideshow device! Connect your JVC Everio Digital Media Recorder or other compatible mass storage device and show your favorite JPEG photos to your entire audience.*

This new Photo Viewer is packed with features, too. Images can be zoomed and rotated, viewed individually or set to play as a slide show. The viewer also uses the panel’s full resolution capability so your photos are represented in all their glory!

* Photo Viewer cannot be guaranteed to work with all USB Mass Storage Devices.
* Please refer to the Customer Support web site at www.jvc.com/support for information and notes regarding devices you wish to connect. Supported file formats are ".jpg" or "JPG".

**Built-in ATSC Tuner w/Clear QAM** – A built-in ATSC tuner allows you to receive over-the-air digital terrestrial broadcasts. The Clear QAM tuner allows you to receive unscrambled digital cable signals.

**Dual HDMI v1.3 w/HDCP Inputs** – Each “X-Series” LCD comes equipped with dual HDMI v1.3 Inputs, the latest version of the HDMI specification that allows for seamless connection to 1080p (60p/60i) output devices such as Blu-ray Disc and HD DVD players.

**Smart Video Input** – Containing Component, S-Video, and Composite jacks, this input automatically detects the signal source connected to your optional AV receiver.

**Auto Sensing Component Video Inputs** – All models in this book contain two component video inputs for all video signals from 480i to 1080i video sources.

**Additional Inputs/Outputs** – Each model also contains three AV Inputs, an S-Video Input, an Optical Digital Audio Out, and a Fixed Audio Out.
The Competitive Advantage

✓ 37” Full HD (1920 x 1080) LCD
✓ Powered by GENESSA with D.I.S.T. 1080p
✓ MPEG (Block) Noise Reduction
✓ 5 Point Color Management
✓ Motion Adaptive Dynamic Gamma
✓ 3D Y/C Digital Comb Filter w/Cross Color Elimination
✓ ENERGY STAR® Compliant

Key Convenience Features
✓ No hassle HD with built-in ATSC tuner and Clear QAM
✓ New USB Photo Viewer
✓ New menu system
✓ New universal remote for TV/STB/VCR/DVD/Audio and w/direct video input buttons
✓ 9 Selectable Aspect Modes
✓ Key feature Auto Demo
✓ Matching table top stand included

Specifications
✓ Native Contrast Ratio: 1300:1
✓ Response Speed: 5msec
✓ Brightness: 500cd/m²
✓ Viewing Angle: 176º
✓ VESA Compliant for wall mounting (200 mm x 200 mm)

Key Picture Detailing Features
✓ HD Range Digital Super Detail
✓ Natural Cinema (3-2 Pull Down)
✓ Black Level Expansion
✓ 4 Video Status Modes (Standard/Game/Theater/Dynamic)

Sound Features
✓ 20 Watts Total Audio Power
✓ Twin Oblique Cone Speakers
✓ Advanced Hyper Surround
✓ Turn On Volume & Volume Limit
✓ Smart Sound

Inputs & Outputs
✓ Dual HDMI v1.3 w/HDCP Digital Video Inputs
✓ Dual Auto Sensing Component Video Inputs
✓ S-Video & 3 AV Inputs
✓ Smart Video Input (as Input 3)
✓ Optical Digital Audio Output
✓ Fixed Audio Output
Key Convenience Features
✓ No hassle HD with built-in ATSC tuner and Clear QAM
✓ New USB Photo Viewer
✓ New menu system
✓ New universal remote for TV/STB/VCR/DVD/Audio and w/direct video input buttons
✓ 9 Selectable Aspect Modes
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Specifications
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✓ 20 Watts Total Audio Power
✓ Twin Oblique Cone Speakers
✓ Advanced Hyper Surround
✓ Turn On Volume & Volume Limit
✓ Smart Sound

Inputs & Outputs
✓ Dual HDMI v1.3 w/HDCP Digital Video Inputs
✓ Dual Auto Sensing Component Video Inputs
✓ S-Video & 3 AV Inputs
✓ Smart Video Input (as Input 3)
✓ Optical Digital Audio Output
✓ Fixed Audio Output

The Competitive Advantage
✓ 42” Full HD (1920 x 1080) LCD
✓ Powered by GENESSA with D.I.S.T. 1080p
✓ MPEG (Block) Noise Reduction
✓ 5 Point Color Management
✓ Motion Adaptive Dynamic Gamma
✓ 3D Y/C Digital Comb Filter w/Cross Color Elimination
✓ ENERGY STAR Compliant
The Competitive Advantage

- 42” Full HD (1920 x 1080) LCD
- Powered by GENESSA with D.I.S.T. 1080p
- MPEG (Block) Noise Reduction
- 5 Point Color Management
- Motion Adaptive Dynamic Gamma
- 3D Y/C Digital Comb Filter w/ Cross Color Elimination
- ENERGY STAR Compliant

Key Convenience Features

- No hassle HD with built-in ATSC tuner and Clear QAM
- New Slim Bezel Cabinet
- New USB Photo Viewer
- New menu system
- New universal remote for TV/STB/VCR/DVD/Audio and w/direct video input buttons
- 9 Selectable Aspect Modes
- Key feature Auto Demo
- Matching table top stand included

Specifications

- Native Contrast Ratio: 1500:1
- Response Speed: 4.5msec
- Brightness: 500cd/m²
- Viewing Angle: 178º
- VESA Compliant for wall mounting (200 mm x 200 mm)

Key Picture Detailing Features

- HD Range Digital Super Detail
- Natural Cinema (3-2 Pull Down)
- Black Level Expansion
- 4 Video Status Modes (Standard/Game/Theater/Dynamic)

Sound Features

- 20 Watts Total Audio Power
- Twin Oblique Cone Speakers
- Advanced Hyper Surround
- Turn On Volume & Volume Limit
- Smart Sound

Inputs & Outputs

- Dual HDMI v1.3 w/HDCP Digital Video Inputs
- Dual Auto Sensing Component Video Inputs
- S-Video & 3 AV Inputs
- Smart Video Input (as Input 3)
- Optical Digital Audio Output
- Fixed Audio Output
Key Convenience Features
✓ No hassle HD with built-in ATSC tuner and Clear QAM
✓ New Slim Bezel Cabinet
✓ New USB Photo Viewer
✓ New menu system
✓ New universal remote for TV/STB/VCR/DVD/Audio and w/direct video input buttons
✓ 9 Selectable Aspect Modes
✓ Key feature Auto Demo
✓ Matching table top stand included

Specifications
✓ Native Contrast Ratio: 1500:1
✓ Response Speed: 4.5msec
✓ Brightness: 500cd/m²
✓ Viewing Angle: 178°
✓ VESA Compliant for wall mounting (200 mm x 200 mm)

Key Picture Detailing Features
✓ HD Range Digital Super Detail
✓ Natural Cinema (3-2 Pull Down)
✓ Black Level Expansion
✓ 4 Video Status Modes (Standard/Game/Theater/Dynamic)

Sound Features
✓ 20 Watts Total Audio Power
✓ Twin Oblique Cone Speakers
✓ Advanced Hyper Surround
✓ Turn On Volume & Volume Limit
✓ Smart Sound

Inputs & Outputs
✓ Dual HDMI v1.3 w/HDCP Digital Video Inputs
✓ Dual Auto Sensing Component Video Inputs
✓ S-Video & 3 AV Inputs
✓ Smart Video Input (as Input 3)
✓ Optical Digital Audio Output
✓ Fixed Audio Output

The Competitive Advantage
✓ 47” Full HD (1920 x 1080) LCD
✓ Powered by GENESSA with D.I.S.T. 1080p
✓ MPEG (Block) Noise Reduction
✓ 5 Point Color Management
✓ Motion Adaptive Dynamic Gamma
✓ 3D Y/C Digital Comb Filter w/Cross Color Elimination
✓ ENERGY STAR Compliant
3D Y/C Digital Comb Filter w/Cross Color Elimination
As the quality of so called “high definition” content varies, this filter eliminates embedded interference by removing cross color/dot interference that can remain inside the digital broadcasting or component signals.

32bit GENESSA Processor
Exclusive turbo powered CPU dedicated to the image creation process. At the core, all the technologies that drive JVC imagery are integrated into this single chip yielding better and faster calculations and better picture quality.

4 Video Status Settings
Set the color temperature to suit your tastes with Standard/Game/Theater/and Dynamic modes.

5 Point Color Management System
Color Management compensates for color range limitations and insures JVC colors are reproduced with dimension and vivid detail with a 5th axis dedicated to flesh tone color sampling.

Selectable Aspect Modes w/EZ Fill
Selectable aspect modes let you set the aspect ratio of what you are watching to suit your tastes. Standard signal modes include Regular/Panorama/Cinema/Full. HD signal modes include Full/Cinema Zoom/Panorama Zoom/Slim and Full Native.

Advanced Hyper Surround Sound (A.H.S.)
A.H.S. creates the impression of a 3D sound field while using only the TV's speakers.

ATSC Digital Tuner (Built-in)
A built-in ATSC tuner will receive over-the-air digital terrestrial broadcasts without the need for a set top box.

Channel Label/Video Input Label
Choose from a preset list or make up your own channel names for TV stations and video inputs.

Clear QAM
The Clear QAM tuner allows you to receive unscrambled digital cable signals.

Favorite Channel Memory
This new feature allows you to register up to 24 channels as favorites. The system keeps them in a list accessible from the “Favorite” button on the remote control.

HDMI w/HDCP Digital Video Input
Allows for uncompressed, high bandwidth digital connectivity from compatible devices.

HD Range Digital Super Detail Circuitry
Circuitry that keeps the picture completely focused for both still and highly active images.

Interactive Plug In Menu
This interactive menu system turns on automatically the first time you turn on the TV and prompts you to select your default menu settings.

Motion Adaptive Dynamic Gamma Correction
DGC utilizes data from every signal level to insure that tonal gradations are preserved in dark areas making sure images never appear muddied.

MPEG Noise Suppression
Filter that effectively reduces the block and mosquito noise common in MPEG video.

Natural Cinema (3–2 Pull Down)
Minimizes “Telecine” or jagged edges on software converted from film to video.

Oblique Cone Speakers
Designed with the voice coil off-axis, Oblique Cone Speakers project sound upwards toward the viewer for better sound dispersion.

On/Off Timer w/On-Timer Volume Setup
Use it as a decoy when you’re out of the house, or as an alarm clock. This timer feature lets you set your TV to turn on and off at a specific time and set volume level.

Return+
The Return+ feature lets you set a channel to be returned to after channel surfing. Ordinary Return brings you back to the last channel viewed.

Sleep Timer
Fall asleep to your favorite shows with the Sleep Timer set to turn the TV off for you (timer range is 15 to 180 minutes).

Smart Captions
Closed captions turn on automatically when you press the Muting button on your TV remote.

Smart Input
The Smart Input contains Component, S-Video, and Composite jacks that automatically detect the type of connected signal source. Connect all your components to an AV Receiver connected to the Smart Input and your TV will respond accordingly for all devices.

Smart Picture
Makes the brightness level of the picture perfect for each scene to preserve contrast and detail.

Smart Sound
Automatically adjusts the TV audio to compensate for sudden changes in volume.

Turn On Volume
This feature allows you to set a specific volume level for each time you turn on the TV.

USB Photo Viewer
Turns your TV into a big screen JPEG slide show with your compatible USB enabled camera, camcorder or mass storage device.

Volume Limit
This feature allows you to set a limit so that the TV volume cannot accidentally be set too high.

XDS ID Display & Auto Clock Set
Automatic detection and setting of channel IDs and date and time data.
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<th>Features / Models</th>
<th>LT-37X688</th>
<th>LT-42X688</th>
<th>LT-42X788</th>
<th>LT-47X788</th>
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<td>Diagonal Screen Size</td>
<td>37” Wide (LCD)</td>
<td>42” Wide (LCD)</td>
<td>42” Wide (LCD)</td>
<td>47” Wide (LCD)</td>
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<td>Cabinet Color</td>
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<td>Black</td>
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<td>Black with silver trim</td>
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<td>1920 x 1080 (1080p)</td>
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<td>Native Contrast Ratio</td>
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<td>1500:1</td>
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<td>5ms</td>
<td>5ms</td>
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<td>500cd/m²</td>
<td>500cd/m²</td>
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<td>Viewing Angle</td>
<td>176º</td>
<td>176º</td>
<td>178º</td>
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<td>ATSC Tuner Built-in w/QAM</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<td>32bit GENESSA Processor w/D.I.S.T.</td>
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<td>Yes</td>
<td>Yes</td>
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<td>Motion Adaptive Dynamic Gamma</td>
<td>Yes</td>
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<td>Yes</td>
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<td>Natural Cinema (3-2 Pull Down)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<td>Sound Features</td>
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<td>A.H.S.</td>
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<tr>
<td>Smart Sound</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<td>Inputs &amp; Outputs</td>
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<td>HDMI Inputs w/HDCP</td>
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<td>Smart Video Input</td>
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<td>Audio Output</td>
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<td>Panel (WxHxD) in.</td>
<td>36 1/2 x 23 1/2 x 4 3/8</td>
<td>40 1/2 x 26 1/2 x 4 3/8</td>
<td>39 1/8 x 26 5/8 x 4 3/8</td>
<td>44 1/8 x 28 1/8 x 5 1/8</td>
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<td>Panel (WxHxD) mm</td>
<td>919 x 604 x 108</td>
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<td>1007 x 660 x 130</td>
<td>1120 x 726 x 130</td>
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<td>Panel w/Stand (WxHxD) in.</td>
<td>36 1/2 x 25 1/8 x 9 3/8</td>
<td>40 1/2 x 28 1/8 x 11 1/8</td>
<td>39 1/8 x 28 1/8 x 11 1/8</td>
<td>44 1/8 x 30 3/8 x 11 1/8</td>
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<td>Panel w/Stand (WxHxD) mm</td>
<td>919 x 652 x 230</td>
<td>1030 x 720 x 296</td>
<td>1007 x 712 x 296</td>
<td>1120 x 777 x 296</td>
</tr>
<tr>
<td>Panel weight</td>
<td>40.3 lbs / 18.3 kg.</td>
<td>53.0 lbs / 24.1 kg.</td>
<td>58.1 lbs / 26.4 kg</td>
<td>65.8 lbs / 29.9 kg</td>
</tr>
<tr>
<td>Panel w/Stand weight</td>
<td>42.9 lbs / 19.5 kg.</td>
<td>57.2 lbs / 26.0 kg.</td>
<td>61.6 lbs / 28.0 kg.</td>
<td>69.3 lbs / 31.5 kg.</td>
</tr>
<tr>
<td>VESA Compliant</td>
<td>200 x 200</td>
<td>200 x 200</td>
<td>200 x 200</td>
<td>200 x 200</td>
</tr>
<tr>
<td>ENERGY STAR Compliant</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Notes:
- Specifications are subject to change without notice.
- All models accept 480i, 480p, 720p, 1080i and 1080p (60i/60p) signals and display at 1080p.
- All images in this catalog are simulated to show effects.
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