Let FULL HD 3D Images Bring Your Home Theater to Life
Home theaters are going 3D. Panasonic FULL HD 3D displays invite you to a new world of real-life 3D.

Watching 3D images on a large-screen display now has all the power of viewing them in a cinema. Panasonic’s large-screen FULL HD 3D displays will create an entirely new visual space in your theater room – letting you experience 3-dimensional scenes and the thrill of visual immersion. The professional-quality engine that was newly added to the VX200 Series reproduces source images so faithfully, you enjoy a whole new level of image quality. And it combines with unique Panasonic 3D technology to produce the kind of large, true-to-life 3D images that only a plasma display can achieve.
FULL HD 3D Plasma Displays

Key features

Ultra-high-speed drive technology produces stunning 3D images

Ultra-high-speed drive technology makes it possible to display clear, highly detailed 3D images even on a large screen. Newly developed short-decay-time phosphors and high-precision Motion Vector Prediction have also dramatically reduced the double image that adversely affect 3D image quality. They work together to fill large screens with the ultimate in powerful, lifelike images.

The new professional-quality engine redefines image quality

Now, your display will reproduce images exactly as they’re output from the image source. This new professional-quality engine was developed by Panasonic to provide a level of image quality that will please even the most demanding AV enthusiasts. Extremely fine gradation overcomes a number of previous imaging challenges to reveal the finest details and clearly express the creator’s visual intent.

Advanced customization lets you create your own personal theater room

You can enjoy images exactly as they were produced, or you can adjust them to suit your own preferences. The VX200 Series features a variety of customizing functions that let you take charge.
The 103-inch display produces a truly dynamic picture. It lets you enjoy true-to-life 3D images on a screen that covers almost the entire wall.

The 85-inch display’s thin aluminum frame bezel reduces no reflections in the picture, and blends nicely with room furnishings.
Frame Sequential technology brings powerful FULL HD 3D images to your home theater

FULL HD signals for each eye
—Frame Sequential technology

The technology in which the left-eye and right-eye 3D images are sent to the viewer is the key to 3D image quality. For this, FULL HD 3D uses something called the Frame Sequential technology. The left and right images are alternately displayed at high speed (120 frames per second) for each eye x 2 = 120 frames per second. When viewed with special glasses that open and close shutters in sync with the displayed frames, the brain creates the sensation of depth from the visual disparity to form 3D images.

[Image 30x10 to 254x270]

Ultra-high-speed drive technology achieves clear 3D with minimal double image

3D images require a display speed of 120 frames per second (fps), which is twice the ordinary speed. A panel with slow response simply cannot keep up with the necessary image processing. As a result, a double image will appear when the images for the left and right eyes overlap on the screen (also called crosstalk). In addition to new short-decay-time phosphors that reduce the afterglow time to 1/3, and a new luminous control, high-precision Motion Vector Prediction function on the VX200 Series helps to achieve high precision illumination. Ultra-high speed drive technology, which shortens the luminescent time to 1/4 compared to previous models, also minimizes double image even on large screens to produce clear and detailed 3D images.

[Image 421x121 to 509x178]

High-speed illumination achieved with high-precision Motion Vector Prediction

The VX200 Series features the world’s first high-precision Motion Vector Prediction function. The typical luminous control predicts front/back movement as well as left/right and diagonal movement to increase the drive speed and produce clear 3D images even on a large screen.

[Image 533x326 to 658x403]

3D 24p Smooth Film enhances 3D image depth

In order to show smooth 3D images, like those in film-based movies, the same images must be repeatedly alternated two or three times. However, because this sequence differs from natural vision, it was previously impossible to achieve complete amorphaness. This is enhanced by the 24p Smooth Film function, which predicts movements and creates new frames between the original frames to achieve smoother 3D image reproduction. The technology is also applied to 3D new frames are created between the original frames for both left and right eyes, to produce exceptional three-dimensional visual.

[Image 1068x99 to 1137x122]

High-precision 3D Eyewear control technology

High-precision tracking control for the opening and closing of the shutters minimizes unwanted light leakage to enable clear 3D viewing. The remarkable beauty of the FULL HD 3D images is further ensured by employing only Panasonic components — both 3D plasma display and 3D Eyewear — to achieve precisely linked operation.
Newly developed Professional-quality engine doubles color reproduction

The new professional-quality engine raises the color processing of each pixel from the conventional 20-bit level to 30-bit processing. By faithfully reproducing all of the color and luminance signals output by image sources, it produces smooth, vibrant colors across the entire screen.

Doubles color reproduction

Professional-quality engine

Newly developed

* PF12 Series.

Using the Color Profile, a process that is the opposite of the color gamut compression designated by the colorist, the color gamut is expanded to reproduce cinema-like colors. This provides Digital Cinema Color that approaches the colors of a cinema.

How Digital Cinema Color works

The color gamut of movies and other Blu-ray Disc images is carefully compressed by Hollywood colorists. This is why you don't get the same natural Digital Cinema* colors from Blu-ray Discs on conventional displays as you do on a cinema screen. To overcome this, Panasonic applied the know-how that it has accumulated at its laboratory in Hollywood to create a Color Profile based on color expression technology that was converted into digital data.

Digital Cinema Color reproduces cinema-like colors

Using the Color Profile, a process that is the opposite of the color gamut compression designated by the colorist is applied to expand the color gamut. This produces Digital Cinema Color that approaches the colors of a cinema. * The color gamut used in current digital cinemas, which is also based on motion pictures/tv standards, is generally referred to as Digital Cinema standard.

Native contrast of 5,000,000:1* gives you high-quality images with rich textures

A high native contrast of 5,000,000:1 clearly distinguishes light areas from dark areas in the image. Even the tiniest stars in a night sky are strikingly rendered, in images with stunning detail. Texture are meticulously reproduced, right down to the nuances in brightness and color.

8,192 equivalent steps of gradation boost detailed expression

The extremely high performance that makes it possible to display FULL HD 3D images also translates to a remarkably high level of performance when displaying 2D images. The color expression that is achieved by 8,192 equivalent steps of gradation, and the smoothness with which it renders intermediate colors, combines to create tonal nuances that have never before been possible.

Superb motion picture image in sports and action movies

By shortening the display times (called the hold time) for each frame, these displays achieve a high, 1,080 lines of moving-picture resolution. This clearly shows detailed motion even in fast-action scenes, and lends greater beauty to the high-resolution images that are unique to full-HD displays. Moving-picture resolution is also constant for images that include both slow and fast motion, to produce uniform, finely detailed images.

How Digital Cinema images.

Natural colors of original image. When viewed with Digital Cinema Color.

Superb motion picture image: Superb motion picture image in sports and action movies.

** Measured by APDC

Superb motion picture image: Superb motion picture image in sports and action movies.

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Superb motion picture image: Superb motion picture image in sports and action movies.
True home theater pleasure with a high-quality display

Visual impact

High contrast for blacker blacks
Images are rendered with tight, crisp blacks and a feeling of depth that virtually draws you into the picture. Details are clearly depicted even in dark image areas. The panel’s 65,000:1 contrast brings a truly realistic level of transparency to each and every image.

Smoother gradation
A full 7,160* steps of gradation naturally portray the textures of even highly detailed materials and the subtle colors of nature. Lifelike expression of every image, dark or bright, almost makes you feel like you’re part of the scenes.

Colors faithful to the original
The VX100 Series plasma panel boasts true cinema picture quality. Featuring newly developed process technology and an innovative optical filter, this remarkable panel covers 120% of the HDTV color standard with rich, vivid coloring.
Easily save preferred settings with Picture Profile

The Picture Profile function lets you save images that you’ve customized with the colors and preferences you want for each type of content you watch on your home theater. Enjoy movies, sports, games and more with custom image quality. You can create, name, and store 16 different combinations of user adjustments from the menu, and create unique displays by looking images and editing titles.

Process images with External Scaler Mode

With the advanced function, you can process images exactly the way you want them. It lets you convert the image with an external scaler instead of using the display’s built-in scaler.

Customize your system SLOT 2.0™

Greater display convenience and system flexibility are gained with standard HDMI™ connection*1. A PJLink™*-compliant network function is also included. Available slots can be fitted with a terminal board to match your theater system needs.

Sophisticated design

The elegantly subtle design does not distract, so you can concentrate on the image.
CAD/CAM design previews

Mainly for design confirmation
- Use for CAD/CAM and architectural designing and for reviewing completed designs.
- Reproduce large-scale objects with life-size images on large 3D screens.
- Increases design review accuracy.

Medical previews

Mainly for medical education
- Use life-size 3D to display images such as the human anatomy, which cannot be properly visualized from a 2D image.
- Virtual reality surgeries that are difficult to perform in real life.
- Demonstrate locations on a large screen to increase diagnostic accuracy.

Military simulations

Mainly for vehicle simulations
- Use for military personal training.
- Conduct highly realistic battlefield simulations.
- Switch images to conduct a wide range of simulations.
- Conduct realistic military simulations including scenarios with large numbers of troops, tanks and fighter planes.

Video screening

Mainly for screening / reference applications
- Monitor images on a large-screen 3D display together with a group of people.
- Instantly display images following adjustments made by using numerous input terminals.
- Check images with the actual colors that match the creator’s intentions.

Analytical surveys

Mainly for mining and environmental research
- For mapping survey results.
- 3D depth helps to gain accurate visual knowledge of things like cross-sections for maps and geological formations.
- Display clear details of background data, for easy information sharing among a large number of people.
### Specifications

#### Mechanical

<table>
<thead>
<tr>
<th>Pixel Pitch (H x V)</th>
<th>0.0328&quot; x 0.0328&quot; (0.834 x 0.834 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution (H x V)</td>
<td>1125 (1080) / 60i · 60p · 50i · 50p · 24p · 25p · 30p · 24sF, 1250 (1080) / 50i</td>
</tr>
<tr>
<td>Aspect Ratio</td>
<td>16:9</td>
</tr>
</tbody>
</table>

#### Temperatures

- Cabinet Color: Black (Aluminum Hairline Finish)
- Stand-by Condition: 0.2 W (TBD)
- Power off Condition: 0.1 W
- Day/Night: Yes (ON/OFF)
- 3D Eyewear: Yes (ON/OFF)
- Serial: Yes (ON/OFF)
- PC In: Yes (ON/OFF)
- Audio In (L/R): Yes (ON/OFF)
- isf Mode: Yes (5 different mode)
- HD-SDI x 4*7: Yes (4 different mode)
- Dual Link HD-SDI x 4*7: Yes (Low/Mid/High)
- 3D Shutter Out: Yes (Low/Mid/High)
- Blue-Only Mode: Yes (W/B, Gain)
- Studio Mode: Yes (4 different mode)
- EXT SCALER Function: Yes (ON/OFF)
- Studio Gain: Yes
- Black Extension: Yes
- Color Temp: Yes
- PC Signals: Yes
- Full HD: Yes
- HD: Yes
- 3D 24p Film Display*5: Yes

#### 108-inch Class 1080p FULL HD Plasma Display

- Dimensions: 79.3" x 47.0" x 3.9" (2,015 x 1,195 x 99 mm)
- Weight: Approx. 438.7 lbs. (199.0 kg)
- Gradation: 5,000,000:1
- Power Consumption: 755 W
- Input/Button Lock: Yes (5 different mode)
- 16 memories
- Customizing the On-Screen:
  - Input/Button Lock: Yes
  - Blue-Only Mode: Yes
  - Studio Mode: Yes
  - EXT SCALER Function: Yes
  - 3D Shutter Out: Yes
  - Serial: Yes
  - PC In: Yes
  - Audio In (L/R): Yes
  - isf Mode: Yes
  - HD-SDI x 4*7: Yes
  - Dual Link HD-SDI x 4*7: Yes
  - 3D Shutter Out: Yes
  - Blue-Only Mode: Yes
  - Studio Mode: Yes
  - EXT SCALER Function: Yes
  - 3D Shutter Out: Yes
  - Blue-Only Mode: Yes
  - Studio Mode: Yes
  - EXT SCALER Function: Yes

#### 85-inch Class 1080p FULL HD Plasma Display

- Dimensions: 74.4" x 41.8" (1,889 x 1,062 mm)
- Weight: Approx. 81.6 lbs (37.0 kg)
- Gradation: 40,000:1
- Power Consumption: 755 W
- Input/Button Lock: Yes (4 different mode)
- 16 memories
- Customizing the On-Screen:
  - Input/Button Lock: Yes
  - Blue-Only Mode: Yes
  - Studio Mode: Yes
  - EXT SCALER Function: Yes
  - 3D Shutter Out: Yes
  - Serial: Yes
  - PC In: Yes
  - Audio In (L/R): Yes
  - isf Mode: Yes
  - HD-SDI x 4*7: Yes
  - Dual Link HD-SDI x 4*7: Yes
  - 3D Shutter Out: Yes
  - Blue-Only Mode: Yes
  - Studio Mode: Yes
  - EXT SCALER Function: Yes
  - 3D Shutter Out: Yes
  - Blue-Only Mode: Yes
  - Studio Mode: Yes
  - EXT SCALER Function: Yes

#### 70.9-inch Class 1080p FULL HD Plasma Display

- Dimensions: 56.4" x 31.7" (1,434 x 807 mm)
- Weight: Approx. 755 W
- Gradation: 7,160 steps (equivalent)
- Power Consumption: 1,920 x 1,080 pixels
- Input/Button Lock: Yes (4 different mode)
- 16 memories
- Customizing the On-Screen:
  - Input/Button Lock: Yes
  - Blue-Only Mode: Yes
  - Studio Mode: Yes
  - EXT SCALER Function: Yes
  - 3D Shutter Out: Yes
  - Serial: Yes
  - PC In: Yes
  - Audio In (L/R): Yes
  - isf Mode: Yes
  - HD-SDI x 4*7: Yes
  - Dual Link HD-SDI x 4*7: Yes
  - 3D Shutter Out: Yes
  - Blue-Only Mode: Yes
  - Studio Mode: Yes
  - EXT SCALER Function: Yes
  - 3D Shutter Out: Yes
  - Blue-Only Mode: Yes
  - Studio Mode: Yes
  - EXT SCALER Function: Yes

#### 56.4-inch Class 1080p FULL HD Plasma Display

- Dimensions: 41.8 (1062)
- Weight: Approx. 509 W
- Gradation: 3,700 W (TBD)
- Power Consumption: 1,920 x 1,080 pixels
- Input/Button Lock: Yes (4 different mode)
- 16 memories
- Customizing the On-Screen:
  - Input/Button Lock: Yes
  - Blue-Only Mode: Yes
  - Studio Mode: Yes
  - EXT SCALER Function: Yes
  - 3D Shutter Out: Yes
  - Serial: Yes
  - PC In: Yes
  - Audio In (L/R): Yes
  - isf Mode: Yes
  - HD-SDI x 4*7: Yes
  - Dual Link HD-SDI x 4*7: Yes
  - 3D Shutter Out: Yes
  - Blue-Only Mode: Yes
  - Studio Mode: Yes
  - EXT SCALER Function: Yes
  - 3D Shutter Out: Yes
  - Blue-Only Mode: Yes
  - Studio Mode: Yes
  - EXT SCALER Function: Yes

#### Additional Information

- FCC Part 15 Class-B, ICES-003, NOM approval, CISPR22 Class-B, EN55022 Class-B, EN55024, EN61000-3-11, EN61000-3-12
- UL60065 7th ed., CAN/CSA-22.2No60065:03, NOM approval, SASO, IEC60065, EN60065 ver.7
- Type 1/Type 2/Type 3

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*1: Also compatible with 3D input signals (Side by Side/Top and Bottom format).
*2: Audio input is not available for 152-inch model.
*3: For 152-inch model, it is not possible to use S CURVE/1.0/2.0/2.2/2.6.
*4: For 152-inch model, it is not possible to use S CURVE/1.0/2.0/2.2/2.6.
*5: Only usable when 3D signal is input.
*6: Not usable when the 4K signal is input.
*7: 4 inputs is set and only for one 4K signal. You can not input 4 different signal to each inputs.
*8: This model will display 3D signals via the 3D output terminal board.

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**Included Accessory**

- Remote Control Transmitter
- Illuminated Buttons
- 3D Eyewear
- TH-65VX100U
- TY-ST50VX100 (for 50-inch model)
- TY-ST65VX100 (for 65-inch model)
- TY-ST152UX1 (for 152-inch model)
- TY-WK42PR7 (for 50-inch model)
- TY-WK65PR8 (for 65-inch model)
- TY-WK65PV7 (for 65-inch model)
- TY-WK85PV12 (for 85-inch model)
- TY-WK103PV9 (for 103-inch model)
- TY-FB10HD*1*2 (for 65-inch model)
- TY-FB60HD*1*2 (for 50-inch model)
- TY-FB9HD (for 65, 50-inch models)

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**Remote Control Transmitter**

- Includes button return function.