

PHILIPS 3D Solutions

42" 3D WOW Intelligent Display Solution

(42-3D6W01/00)



Philips 3D Solutions extends its 42" autostereoscopic 3D display family with the 42-3D6W01 WOW type. The enhanced 3D experience of the WOW display enables to immediately grab the attention in a variety of professional applications. The display is part of a complete 3D system solution, which provides today's best 3D viewing experiences by the WOWvx technologies. The WOW display includes a new lens design based on the slanted multi-view lenticular lens technology, known from the 3D6W01 Comfort type. Hence, the same unique advantages are offered: full brightness, full contrast, true color representation, great picture quality in 2D and 3D mode, and multiple users can perceive 3D content simultaneously. Integrated advanced display signal-processing offers content creators and end-users full control over the quality and depth-effect characteristics of the picture. Furthermore, a flexible 3D data interface, in the form of 2D-plus-depth, allows easy creation or adaptation of applications and content for the display.

3D system solution

The 3D display is manufactured in a flexible environment that allows scaling in both screen size and supply volume. The display can be applied for a broad range of applications, since it can be operated in both 2D and 3D mode.

The system solution is designed for maximum reuse of solutions from the 2D world. The key enabler for this is the flexible 2D-plus-depth format, that allows decoupling of content creation and content visualization. This allows applications where different 3D display screen sizes and designs, even from different manufacturers, can be applied in the same system. The 3D display chooses the best way to visualize the 3D content.

Furthermore, the 2D-plus-depth format is compatible with existing compression tools, where the additional bandwidth of the depth is small. To play back 3D content, the 3DS Media Player is provided with the 3D display. The actual 3D content can be created via an available plug-in for 3D Studio Max, that allows existing and new content to be exported in this format.

There are many Digital Signage or Narrowcasting software solutions in which the 3DS Media Player can be integrated easily. However, for smaller systems the available 3DS Media Sequencer offers a way to create XML based playlists that can be supported with an HTML based user interface design for infotainment applications.

Next to the offline content creation, there are also many applications that operate on a 3D dataset. Most of these applications – games, design, etc. – use the OpenGL or DirectX API. The OpenGL WOWvx Visualizer and OpenGL WOWvx Control support real-time extraction and usage of the depth information and thus real-time visualization on the 3D display.

Finally, a Display Control Tool is provided that allows setting of depth parameters and detailed visualization parameters for the display.

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Product features

- Autostereoscopic 3D Intelligent Display based on multi-view lenticular technology
- Enhanced depth performance
- Full brightness and full contrast
- True color representation
- High quality 3D and 2D mode
- End-to-end system solution: from content creation to visualization



Specifications

Multi-view Lenticular Display

- 9 view autostereoscopic 3D display
- Fixed lenticular technology
- Image diameter: 42"
- Resolution: 1,920 x 1,080 x RGB (HD)
- Aspect ratio: 16 : 9
- Display colors: 16.7 M colors
- Optimal viewing distance: 3 meters
- Wide comfort zone for 3D perception
- Brightness: 460 cd/m²
- Contrast: 1000:1
- Response time: 8 ms
- 2D-plus-depth input in 3D mode
- Protective sheet at the front side of the display

Physical Characteristics

- Dimensions (mm): 1125(W) x 611(H) x 120(D)
- Weight: 26.5 kg excluding table stand
- Mounting: VESA
- Includes table stand and power and DVI cable

Advanced display signal processing engine

- Integrated 2D/3D display processing hardware
- 3D data interface
- 2D-plus-depth converted to 9 different views and interwoven into a 3D image
- Rendering algorithm is tuned for lenticular optical behavior
- Two modes:
 - 3D rendering mode
 - 2D mode with picture quality improvement

Certification

CE/cETLus/FCC certified

Connectivity

- Video input:
 - DVI-D single link
 - 60 Hz, 1920 x 1080 p
- Monitor control via DDC/CI channel; no additional RS232 cable needed
- Power supply: 120 V 60 Hz, 230V 50 Hz
- Power consumption:
 - Normal operation: 230 W
 - Standby: 2.5 W
- AC switch
- An LED indicates power on and standby mode
- Prepared for remote control

Display Control Tool

The Display Control Tool, running on the PC, offers real-time control of the following monitor functions:

- WOW offset
- WOW range
- Contrast
- Brightness
- Visualization parameters:
 - Smooth or Raw visualization
 - Clear Edge

3DS Media Player

The 3DS Media Player is an application to play 3D video clips in the 2D-plus-depth format on a PC. The 3DS Media Player ensures that the monitor switches to 3D mode with the appropriate settings.

Convenience features

- Prepared for remote control
- Universal power supply
- Table stand
- Wall mounting option

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