



## Stunning 3D viewing

### Spectacle without spectacles

Bring your content alive with the Philips 3D intelligent displays. Based on WOWvx technology, its astonishing 'real' 3D effect immediately grabs the attention of the viewer. If you want to make an unforgettable first impression a Philips 42" 3D display is the right choice for you.

#### Exciting out-of-screen 3D effects

- Immediately grabs the attention of the viewer

#### Autostereoscopic display

- No need for special 3D glasses
- Multiple users experience 3D at the same time
- Large 3D viewing zone

#### Multi-view lenticular technology

- Full brightness and full contrast
- True color representation

#### High quality 3D and 2D mode

- 2D high-definition video playback
- Autosensing between 2D and 3D mode

#### End-to-end system solution

- From content creation to visualization
- Integrated intelligent signal processing
- Flexible 3D data format through 2D-plus-depth
- 3D application performance and distribution bandwidth close to 2D

#### Declipse supported for enhanced viewing experience

- Additional occlusion information
- Enables the 'look around' effect

#### 3D content enabling products (optional)

- OpenGL Vizualizer and Control
- Real-time stereoscopic video to 3D conversion
- Plug-ins for popular 3D animation software available
- Semi-automatic 2D to 3D conversion post-processing software

3D Intelligent Display Solution

# 42" WOW

3D & 2D dual-mode display

## WOWvx



42-3D6W02/00



# PHILIPS

## Technical Specifications

### Multi-view Lenticular Display

- **Autostereoscopic 3D display:** 9 view
- **3D Technology:** fixed lenticular
- **Optimal viewing distance:** 3 meters
- **3D perception:** wide comfort zone
- **Image diameter:** 42 inch (107 cm)
- **Resolution:** 1,920 x 1,080 x RGB (HD)
- **Aspect ratio:** 16 : 9
- **Display colors:** 16.7 M colors
- **Brightness:** 500 cd/m<sup>2</sup>
- **Contrast:** 1500:1
- **Response time:** 8 ms
- **Input format:** 2D-plus-depth in 3D mode
- **Front screen protection:** Protective sheet

### 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:** 120V 60 Hz, 230V 50 Hz
- **Power consumption:**
  - Normal operation: 230 W
  - Standby: 2.5 W
- AC switch
- **LED indicator:** power on and standby mode

### Physical Characteristics

- **Dimensions(mm):** 1017(W) x 610(H) x 128(D)
- **Weight excluding table stand:**  
42-3D6W02: 35 kg
- **Mounting:** VESA with optional wallmount bracket
- **Includes:** table stand and power and DVI cable

### Certification

CE/cETLus/FCC certified, CB certificate

### Convenience features

- Universal power supply
- Table stand
- Wall mounting option

### Advanced display signal processing

- 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

### 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.

## Product highlights

### 3D intelligent dual-mode display

Philips 3D Solutions offers a 42" autostereoscopic 3D display family, for professional applications, that provides today's best 3D viewing experiences by using WOWvx technologies. The 42-3D6W02 WOW is designed for exciting out-of-screen 3D effects. Its slanted multi-view lenticular lens technology affords full brightness and full contrast and allows multiple users to view 3D content at the same time, within a large comfort zone.

True color representation is ensured by the lenticular lens technology. The display is based on a high definition panel and thus enables great picture quality in 2D and 3D mode. Integrated advanced display signal-processing offers content creators and end-users full control over the quality and depth-effect characteristics of the picture.

The flexible 3D data format, in the form of 2D-plus-depth, allows easy creation or adaptation of applications and content for the display.

### 3D system solution

The displays can be applied in 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 content/concepts 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 can be applied in the same system.

Philips autostereoscopic 3D displays support the unique Declipse image format. The Declipse image format enables a true look-around effect along with the 3D visualization. Furthermore, easy creation of 3D overlays is provided by applying the Declipse format.

### 3D content visualization

The 2D-plus-depth format is compatible with existing compression tools, where the additional bandwidth of the depth is small. The 3DS Media Player is provided with a 3D display to show the 3D content. The actual 3D content can be created via a plug-in available for popular 3D animation software packages, that allows existing and new content to be exported in this format.

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

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

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



optional mounting bracket



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