

Specifications

Picture/Display

- Autostereoscopic 3D display: 28 view
- 3D Technology: fixed lenticular
- Diagonal screen size: 55 inch / 140 cm
- Panel resolution: 1920 x 1080p
- Brightness: 700 cd/m²
- Contrast ratio (typical): 1300:1
- Response time (typical): 10 ms
- Aspect ratio: 16:9
- 3D viewing angle (H/V): 150 / 150 degree
- Display colours: 1.06 Billion colours
- Display technology: 120Hz Panel
- Pixel pitch: 0.63 x 0.63 mm
- Input format: 2D-plus-Depth in 3D mode

Connectivity

- PC: VGA-in D-Sub 15HD, VGA-out D-Sub 15HD, DVI-D x 1, RS232 D-Sub9, RS232 D-sub9 output, 3.5 mm PC audio input x 1, RJ45
- AV input: HDMI x 1, Audio (L/R) x 2, Component (BNC) x 1
- AV output: Audio (L/R) x 1
- Other connections: Display Port, AC-out, External loudspeaker connector

Advanced display signal processing

- Integrated 2D/3D display processing hardware
- 3D data interface
- 2D-plus-Depth converted to 28 different views and interwoven into a 3D
- Dimenco rendering 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:

- Offset
- Depth factor
- Viewing distance
- Contrast
- Brightness
- Advanced visualization parameters

Media Player

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

Dimensions

- Bezel thickness: 19.5 mm/0.8"
- Set dimensions (W x H x D): 1252.1 x 722.9 x 121.8 mm
- Set dimensions in inch (W x H x D): 49.3 x 28.5 x 4.8 inch
- Set dimensions with stand (H x D): 773.2 x 405.1 mm
- Set dimensions withstand in inch (H x D): 30.4 x 15.95 inch
- Product weight: 70 kg
- Product weight (lb): 154.3
- VESA Mount: 400 x 400 mm (Set), 100 x 100 mm (Smart insert)

Operating conditions

- Temperature range (operation): 0 - 40 °C
- Relative humidity: 5 - 90 %
- MTBF: 60,000 hour(s)

Power

- Mains power: 90-264 VAC, 50/60 Hz
- Consumption (On mode): Typ. 214 W
- Standby power consumption: < 1W (Easylink and RS232 active)

Sound

- Built-in speakers: 2 x 12 W (8 ohm)

Accessories

- Included accessories: Remote Control, Batteries for remote control, AC Power Cord, DVI cable, User manual and software on USB Quick start guide
- Optional accessories: DVI Out Module (CRA71), Fixed wall mount, Flexible wall mount, Ceiling mount
- Stand: BM05211

Miscellaneous

- Bezel: metallic anthracite
- Guaranteed: Europe/North America: 3 years
- On-Screen Display Languages: English, French, German, Italian, Polish, Turkish, Russian, Simplified Chinese
- Regulatory approvals: CE, FCC, Class B, CCC, RoHS, U L/cUL

Packaging dimensions

- Packaging dimensions (W x H x D): 167 x 105 x 30 cm
- Packaging type: Carton

Product highlights

3D intelligent dual-mode display

Dimenco Displays offers an autostereoscopic 3D display, for professional applications, that provides today's best 3D viewing experiences by using unique technology. The slanted multi-view lenticular lens technology affords full brightness and full contrast and allows multiple users to view 3D content at the same time. Moreover, a true color representation is ensured by the lenticular lens technology. The display is based on a high resolution panel and thus enables great picture quality in 2D and 3D mode. The integrated Dimenco rendering core which is based on 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.

The 55" 3D display is especially designed for digital signage and point-of-sale advertising.

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. The 3D display selects the best way to visualize the 3D content. Dimenco rendering core integrated in the 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 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 narrowcasting software solutions in which the Media Player can be integrated easily.

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 OpenGL Control support real-time extraction and usage of the depth information and thus real-time visualization on the 3D display.