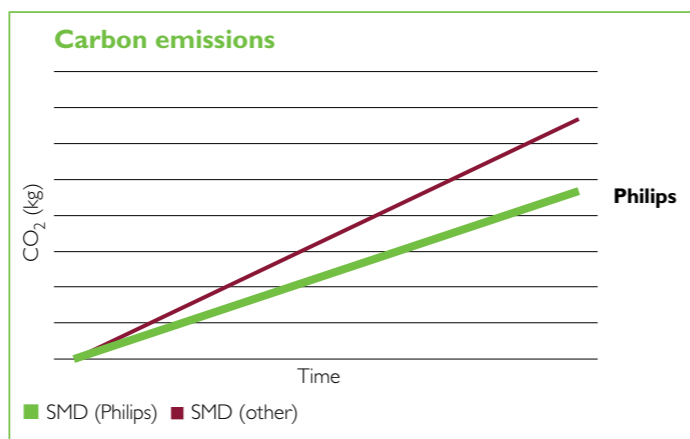


Technical Specifications Philips Vidiwall™ dMesh 24-2000 (per dMesh)

Product Types	
Standard	
Model	dMesh 24-2000
Type	VWS213 016 016 IA BK P024
I2NC	91500000752
Curved display version	
Model	dMesh 24-2000 C
Type	VWS213 016 016 IA BK P024 C
I2NC	91500001181
Every panel includes:	
1x Data link cable to next panel (0.25 m)	
1x Power link cable to next panel (0.12 m)	
Physical	
Tile dimensions (w x h x d)	384 x 384 x 110 mm
Tile area	0.147 m ²
Weight	4.0 kg (all versions)
Tile material	Aluminum and Lexan
Picture / Display	
Brightness	2,000 cd/m ²
LED type	SMD 3 in 1
Picture enhancement	ASP™
Tile resolution physical	16 x 16 pixels
Horizontal viewing angle	120° (50%)
Vertical viewing angle	-60° / +60° L50
Pixel pitch physical	24.0 mm
Color temperature	6,500 K
Refresh rate	>300 Hz
Gray scale	16 bit
Color resolution	48 bit
Input Signals	
Tile	Proprietary digital signal from column distributor, or previous tile, by Circular data connector
Column distributor	Single mode fiber from data distributor. Column distributors need to be installed in the top of the screen (the mounting bars support this)
Data distributor	Single mode fiber from remote signal processor
Signal processor	DVI
Video processor (optional)	(HD-)SDI, DVI (scaling)

Resolution information	
Maximum display size	64 panels wide x 40 panels high = 24.58 m x 15.44 m = 1,024 x 640 pixels
Input resolution	1,024 x 768
SP220 output resolution	1,024 x 640
DD312 resolution	512 x 640
DD320 resolution	64 x 384
Screens wider than 32 panels (512 pixels)	Second DD312
Screens higher than 24 panels (384 pixels)	Double amount of DD320's
Environmental	
Operating environment	Indoor, riggable (for temporary installation) or fixed install on a frame. Rear service.
Operating temperature	-20° to +50°C
Operating humidity range	10% to 95%
Ingress protection front	IP20
LED lifetime	>70,000 hours
Approvals	RoHS compliant, CE approved, FCC
Power	
Mains input	200-240 V AC, 50/60 Hz
Power consumption typica	30 VA
Power consumption maximum	75 VA



Create spectacular, transparent media experiences

Philips Vidiwall™ dMesh 24-2000, transparent and lightweight indoor LED display technology

This unique, transparent and lightweight LED display solution is ideal for indoor media facades with windows or as 2nd ring banner at indoor sport arena's. 50% transparency allows you to look through the display from behind the window, while from the front it can create spectacular visual effects.

The display tiles are easy and quick to install, due to self supporting rigging construction, saving on installation cost, while the absence of fans and use of the highest quality LEDs keep maintenance costs low. The displays are silent, since there are no fans inside, making it ideal for indoor applications where people are near. Create your mesh screen for any indoor

application, especially inside hotels, office buildings, hospitals and indoor sport venues. You determine size and shape as well as content, depending on your target audience. The lightweight and transparent screen enables you to hang them virtually anywhere you want and follow the contours of your building.



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Philips Vidiwall™ dMesh 24-2000 for creative LED display technology

- The optimal indoor media facade for viewing distances starting from 24 m
- 50% transparency allows you to look through from behind
- Lightweight and slim to enable quick installation to almost any surface
- Top grade, selected, Nichia LEDs for optimum color and brightness uniformity
- Silent – no fans inside, ideal for indoor applications



Accessories

SP220 signal processor

Formats DVI, VGA, Composite video or S-Video input signals for transmission to data distributor at display, via single mode fiber cable.

Includes:

- 1x European power cable (1.8 m)
- 1x Single mode fiber cable (2 m)
- 1x DVI cable (1.5 m)
- 1x RS232 cable (2 m)

Dimensions: 482 x 370 x 88 mm

Weight: 5.8 kg

IP rating: IP30 indoor use

Distance to the display: up to 10 km

Type: VWU220 01 – I2NC: 91500000791



DD320 column distributor

Receives incoming digital signal via fiber cable from DD312 data distributor and distributes the signal to up to four columns using RJ45 twisted pair cables.

The DD320 comes with two 20 m long power cables (3 core flying lead, 10 AWG, ~6mm²) attached to the unit for 200 ~ 240V mains power.

Includes:

- 1x Single mode fiber cable (20 m) to DD312
- 1x Single mode fiber cable (10 m) for 2nd DD320
- 2x Data cable to column 1 and 4 (0.8 m)
- 2x Data cable to column 2 and 3 (0.4 m)

Dimensions: 323 x 203 x 184 mm

Weight: 20 kg including power cable

IP rating: IP65 outdoor use

Distance to the top of the display: 0.3 m

Type: VWU320 01 – I2NC: 91500000831



DD312 data distributor

Receives incoming digital signal via fiber cable from remote signal processor and distributes the signal to column distributors.

Includes:

- 1x European power cable (1.8 m)
- 2x Single mode fiber cable (2 m)

Dimensions: 482 x 370 x 88 mm

Weight: 3 kg

IP rating: IP30 indoor use

Distance to the display: up to 10 km

Type: VWU312 01 – I2NC: 91500000821



VP520 video processor (optional)

Decodes and scales a variety of input sources into DVI signal suitable for signal processor.

Includes:

- 1x European power cable
- 1x RS232 cable

Dimensions: 483 x 305 x 87 mm

Weight: 6.1 kg

IP rating: IP30 indoor use

Type: VWU100 01 – I2NC: 91500000191



Special parts

Column bar for 4 columns (optional)

Hanging beam for rigging dMesh panels up to 4 columns of max. 48 panels high. Rigging is only advised for temporary installations.

Dimensions: 1536 x 118 x 98 mm

Weight: 112 kg

Type: VWAS02 04 – I2NC: 915000001271



Column bar for 1 column (optional)

Hanging beam for rigging dMesh panels up to 1 columns of max. 48 panels high. Rigging is only advised for temporary installations.

Dimensions: 384 mm x 118 x 98 mm

Weight: 28 kg

Type: VWAS02 03 – I2NC: 915000001261



1.3 m data cable (optional)

Long version of the 0.4 m and 0.8 m standard data cables to connect rows of panels to the DD320 which are more than 0.8 m from the DD320. You will e.g. need this cable for every column connected to a single column mounting bar.

Type: VWAS02 02 – I2NC: 915000001251

Installation kit (optional)

Additional spare parts to enhance easy installation.

Advised to be ordered for every installation

Includes:

- 1x Data cable (0.8 m)
- 1x Data cable (1.3 m)
- 1x Single mode fiber cable (2 m)
- 1x Single mode fiber cable (20 m)
- 1x 10 AWG (~6mm²) power cable (20 m)
- 1x data link cable (panel to panel) (0.25 m)
- 1x power link cable (panel to panel) (0.12 m)

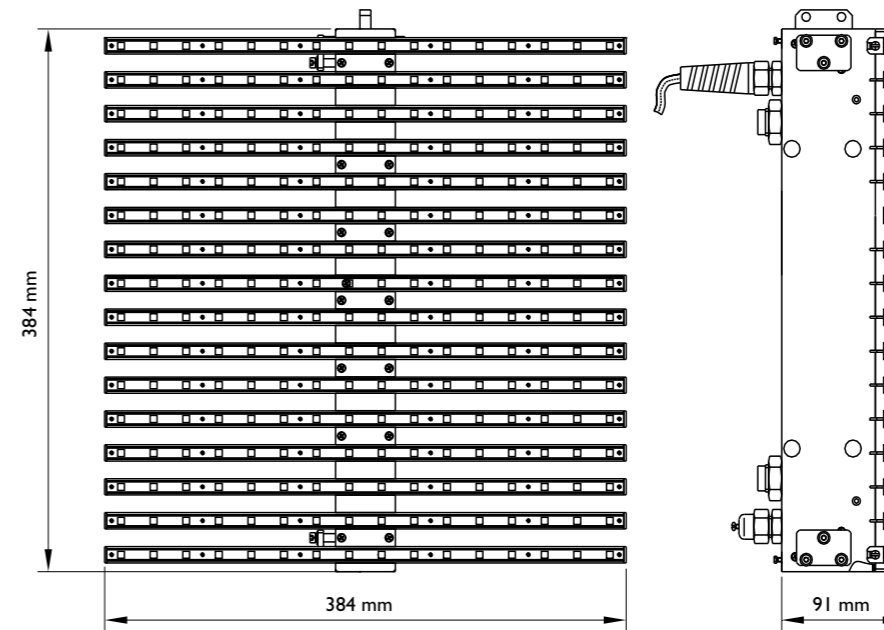
Type: VWAS02 01 – I2NC: 915000001241

3-phase mains distribution (optional)

Adapts incoming 3-phase mains supply to multiple single-phase outlets.

19" control rack with engineering PC

Type: VWAS02 06 – I2NC: 915000001291



High Contrast

For outdoor applications, contrast is as important as brightness. dMesh creates an outperforming contrast by its integrated louver design. The additional light trap system minimizes reflection of ambient light.

ASP™

Anti-Solarization Processing uses Philips' proprietary 48 bit color processing to completely eliminate disturbing solarization effects commonly seen in dark picture areas of typical LED screens.

Optimum Performance

The precision LED drivers are set for optimum performance of the top grade LEDs to minimize disturbing noise and maximize the lifetime.

Ultra Lightweight

Rugged, 50% transparent, aluminum tiles that keep the weight and wind load of the display to a minimum.

Auto Addressing

Plug and play auto addressing enables fast and easy screen set-up.

C – Curved - option

dMesh allows to build convex shaped curved displays (384mm faceted) without gaps between the tiles (minimum radius 4 meter). C-type panels have special mechanical features to make curved installation possible.

