

Technical Specifications Philips Vidiwall™ dTube 75 mm pitch

Type	VWS130 016 001 2D BK P075	VWS130 016 001 4F BK P075
Description	dTube 2/075	dTube 4/075
I2NC	91500000971	91500000981
Number of LEDs per pixel	2 x 3 in 1 SMD	4 x 3 in 1 SMD
Power consumption per pixel	0.6 W max. at full intensity	1.0 W max. at full intensity
Luminous intensity per pixel	4 cd	8 cd
Number of RGB pixels per tube	16	
Color resolution	48 bits	
Viewing angle	120°	
Pixel pitch	75 mm	
Color	Black	
Installation	Surface mounted. Installation depth > 10 cm from wall / facade	
Power supply	24V DC	
Material housing	Aluminium base with polycarbonate tube	
Ingress protection	IP66	
Operating temperature	-20°C > Ta > +45°C	
Lifetime	50.000 - 70.000 hours	
Dimensions	1.200 x 35 x 36 mm	
Weight	850 g	
Approvals	CE approved + RoHS compliant	

CE

Technical Specifications Philips Vidiwall™ dTube 100 mm pitch

Type	VWS140 012 001 2D BK P100	VWS140 012 001 4F BK P100
Description	dTube 2/100	dTube 4/100
I2NC	91500001001	91500001011
Number of LEDs per pixel	2 x 3 in 1 SMD	4 x 3 in 1 SMD
Power consumption per pixel	0.6 W max. at full intensity	1.0 W max. at full intensity
Luminous intensity per pixel	4 cd	8 cd
Number of RGB pixels per tube	12	
Color resolution	48 bits	
Viewing angle	120°	
Pixel pitch	100 mm	
Color	Black	
Installation	Surface mounted. Installation depth > 10 cm from wall / facade	
Power supply	24V DC	
Material housing	Aluminium base with polycarbonate tube	
Ingress protection	IP66	
Operating temperature	-20°C > Ta > +45°C	
Lifetime	50.000 - 70.000 hours	
Dimensions	1.200 x 35 x 36 mm	
Weight	850 g	
Approvals	CE approved + RoHS compliant	

CE



Create dynamic LED media screens for your facade

Philips Vidiwall™ dTube, full video experience with LED tubes

The dTube is a transparent outdoor rated tube mounted in an aluminum profile which houses 12 or 16 best in class Nichia RGB LED pixels, specifically designed for creative video capable displays. This capability allows content managers and creative media specialists to display video from any source or any format, ranging from animations and commercials up to live broadcasts.

The dTube is one of the most energy efficient creative LED video systems on the market due to a balanced design of high efficient LEDs and industry leading integrated power management. This "green" solution allows technical specifiers, designers and architects to save up to 30% in power consumption with the same display brightness and resolution.

The dTube concept is very robust, due to a polycarbonate housing. There is no need for complex back structures, allowing the final installation to remain transparent and lightweight. The design allows for free form layout and scalability, ranging from a few m² up to thousands of m². As all system components are fully weather proof there is no need for additional environmental protection.



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Philips Vidiwall™ dTube for Dusk to dawn creative LED display technology

- Compose any shape and size of medium resolution media display
- Support playback of animations and full speed video at high image quality
- Lightweight and slim to enable installation on almost any surface
- Up to 80% transparency
- Top grade, selected, Nichia LEDs for optimum color and brightness uniformity
- Green product due to high energy efficiency
- Sustainable product design saving up to 30% on energy consumption
- Front serviceable



Components



SP620 signal processor

Accepts a DVI input signal (1.024 x 768 @ 60 Hz) from any content PC, Media Server or the optional Philips VP520 video processor. Real time pixel mapping technology allows for mapping the incoming DVI pixels to any of the attached dTube pixels, using accurate 1:1 mapping. This gives the installer unlimited freedom in how to arrange the dTubes in the screen, both from the orientation as the wiring point of view.

The SP620 drives up to 196.000 pixels.

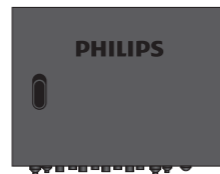
The SP620 outputs via multi mode fiber, to allow the signal to travel up to 800 meters to the DD620 data distributor.

Box contents:

- 1x SP620 Signal processor
- 1x Fiber cable 50/125 um MultiMode ST-ST, 3 m
- 1x Power Cable
- 1x DVI cable 1.5 m
- 1x USB cable 1.5 m
- 1x CD with control software

Size: 19" rack mount, height 2U Distance to the dTube screen: max 800 m

Type: VWU212 01 – I2NC 91500000453



SU620 scanboard unit

Processes the incoming signal from the DD620 down to 8 outputs of maximum 600 pixels each.

The SU620 is IP55 rated and can be installed in an outdoor environment, without the need for additional protection.

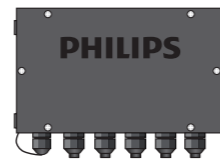
Box contents:

- 1x Scanboard unit SU620
- 2x Coaxial cable, 20 m, RG6, 75Ω

Size: 46 x 36 x 12 cm

Distance to the dTube screen: max. 15 m

Type: VWU304 01 – I2NC 915000001231



BB600 bufferboard box

Combines data and power. One BB600 drives up to 416 pixels (250W). This unit is IP55 rated for outdoor use.

Box contents:

- 1x Bufferboard box
- 3x T connector to connect to tubes
- 1x RS422 cable to connect to 2nd BB600

Size: 30 x 16 x 8 cm

Distance to the dTube screen: max. 1.2 m

Type: VWU302 01 – I2NC 915000001041



DD620 data distributor

This unit is located near to the dTube screen, and receives the digital information stream from the SP620 located in the control room.

The DD620 divides the incoming data into 6 output channels, each able to drive up to 6 cascaded SU620 scan board boxes.

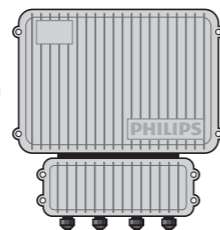
Box contents:

- 1x DD620 Data distributor
- 1x Power Cable

Size: 19" rack mount, height 1U

Distance to the dTube screen: max. 100 m

Type: VWU314 01 – I2NC 915000001221



LP500 Powersupply

Provides 24V DC system power to dTubes, BB600 and SU620. IP66 enclosed cabinet for outdoor use.

Long life design (up to 50.000 hours). Green product due to high efficiency (typ. 85%).

Box contents:

- 1x LP500 powersupply

Size: 36 x 36 x 9 cm

Distance to the dTube screen: max. 15 m

Type: VWU101 01 – I2NC 915000001031



Isolators

Pass data but block 24V DC power to allow for separate power segments.

Type: VWAC02 01 – I2NC 915000001081



RS422 cabling

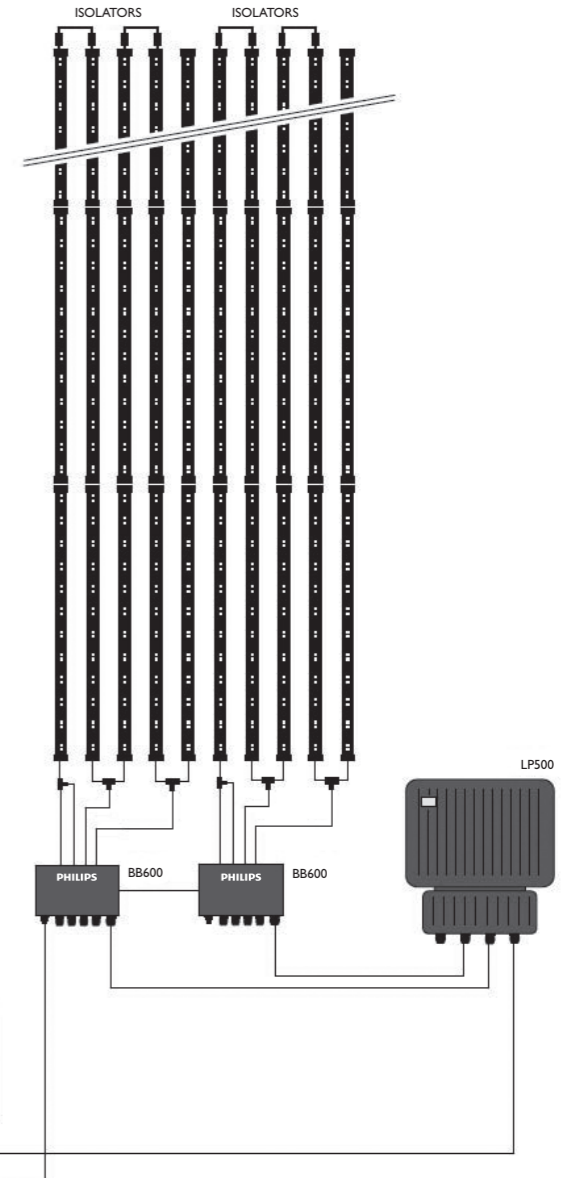
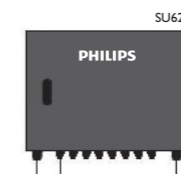
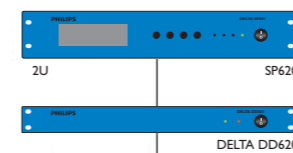
Provide a data connection between the SU620 and BB600.

Available in 5, 10 or 20 m
(I2NC 915000001051, 915000001061, 915000001071)

VP520 video processor (optional)

Decodes and scales selected video source into DVI signal suitable for signal processor.

Type: VWU100 01 – I2NC 915000000191



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.

Ultra Lightweight

65% transparency will keep the weight and wind load of the display to a minimum, and allow for see-through effects.

Pixel accurate mapping

Extremely flexible and accurate mapping of the input image to the LED pixels in the display.

