Freeform LED pixel designed for low resolution architectural media facades and shaped displays.

Pixel|X16 Power

KiboWorks designs and manufactures many types of LED Dots and products for curtain walls. The KiboWorks X16 Façade Pixel is a design based around a standardized façade LED connector available from Molex. The LED system has been designed and tested to the difficult standards for exterior façade lighting with IP67 for extreme weather resistance and UL UV A/B tested plastic stability for long term sunlight exposure.

Each pixel on the string is individually addressable for independent control of colour, special effects, and animation using KiboWorks StreamTM or DMX512 protocols. With only premium quality diodes from Nichia and Cree long term life LEDs, quality design utilizing encapsulated modules, conformal coated

electronics, UV stabile plastic and long life electrical components, makes it ideal for installations where service is difficult and failure free operation is required. All KiboWorks X16 pixel products can be DMX, serial or TTL controlled with frame rates exceeding 100 Frame per second (40 FPS in DMX mode) and with color resolution of 48bits RGB exceeding billions of shades. KiboWorks X16 Power is a perfect solution for media façades and its reliability is based on many years of electronics experience and development with products still in the field after 10 years of constant use.

Kiboworks has designed and developed leading edge led products over the past 20 years and as a leading innovator has offered long term commitment on its products, as far back as 2004 Kiboworks was offering 10 year warranty on its products and systems. X16 Multi continues this commitment to quality and customer service with 10 year warranty covering any defects in material and performance or workmanship and provides a full replacement or repair within the warranty period.

Pixel|X16 Multi Features

Individually controllable Dots

42 lumens per dot

IP66 environmental rating

ULV94, UL8750 and UL-UV stabile

Artnet compatible

Pixel data grouping or multiplier

Five gamma correction options

16 bit three channel colour control

Pixel by Pixel colour correction

Nichia Diodes

White CCT from 2700 -8000K

12 to 24VDC class II power

10 years warranty

Lightitude
Authorised Affiliate

Powered By

KiboWorks
Custom LED Technology

KiboWorks
Custom LED Technology

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KiboVision, KiboMenu,
The Translator
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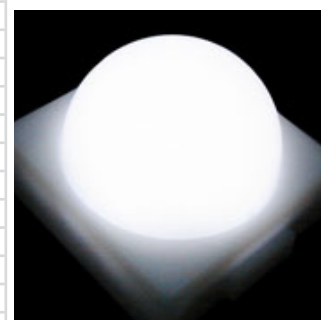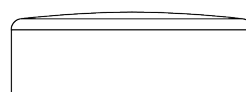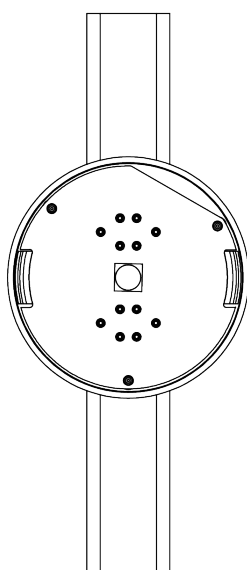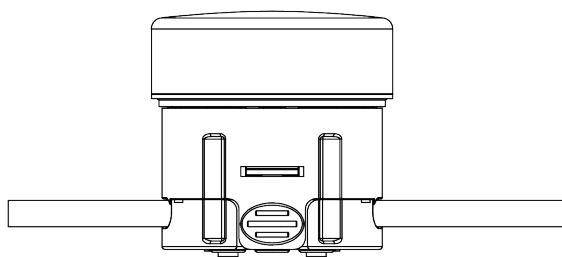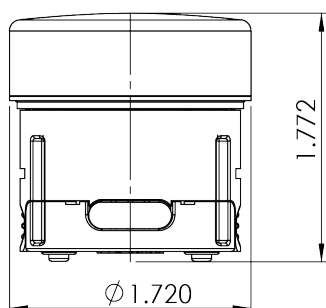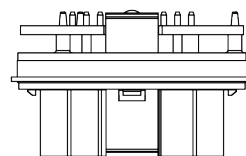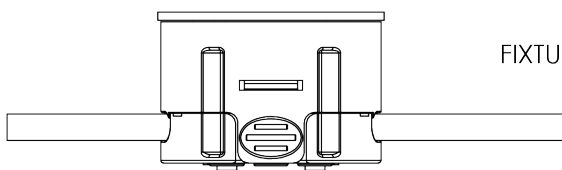
Pixel|X16 Power

Physical	
Pixel Dimensions	35 x 53 x 10mm (1.4 x 1.4 x 0.39 in)
Weight	2.0 kg (4.4 lbs.) for 50 Dots, 100 mm (4.0 in.) spacing
Maximum number of pixels per string	50 RGB Pixels
Standard pixel spacing (pitch):	100mm (4.0 in)
Minimum pixel spacing (pitch):	70mm (2.7 in)
Maximum pixel spacing (pitch):	305mm (12.0 in)
Electrical	
AC Voltage Input	85VAC - 264VAC
Operating voltage	12-24VDC
Power & Data Feed	KiboNode integrated power & data
Peak power consumption 12VDC	5.00 W per Dot
Typical power consumption 12VDC	1.50 W per Dot
Control	
Primary Control	KiboWorks Stream Protocol
Additional control options	DMX	ArtNet	Serial RS485	Siti MD412 Dot Protocol
Control Colour Resolution	16 Bit per LED	48 Bit per RGB Dot
Channels	3 per RGB Dot
DMX Options	DMX Channel Grouping	DMX Channel Multiplier
Colour & Intensity Calibration	Dot level
Gamma	5 Levels of correction
Optical	
Led Manufacturer	Nichia
LED beam spread	110°
Rated Life	75,000hrs
Lumen output total	42 lumen Standard
Construction	
Housing	Clear polycarbonate, clear silicone filled
Interconnecting cable	4 x 20AWG
Ingress Rating	IP67
Operating Temperature	-40° (– 40° F) to 55° C (131° F)
Connections	
Power & Data	Via KiboWorks Mutt X16 Dot Protocol Converter 4 Pin phenix
Mutt to Dot	IDC 4 contact connectors for flat cable
Approvals	
	UL V94, UL8750, CE

KiboNode

Mutt Protocol Converter

KiboWorks
Custom LED Technology

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Pixel|X16 Power

1.772

⌀1.720

LENS

LED BODY

FIXTURE SOCKET

KiboWorks

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