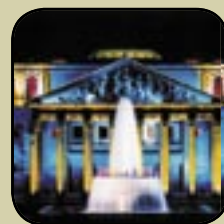


WIRELESS DMX - NO CABLES, NO FUZZ



Winner of the
PLASA Innovation Awards

Judging panels motivation:
- taking wireless data to new levels

W-DMX is a new wireless DMX system developed by Wireless Solution AB. It's a new founded company in Sweden that has a R&D department with long experience from wireless transmission. All our engineers are all from a world famous GSM manufacturer and they work in good relationship with both fixture/console manufactures and lighting designer.

Most of the systems used today for sending wireless DMX, transpose the data on to a proprietary standard such as 802.11 (W-LAN) and use compliant wireless equipment for the data transmission. The W-LAN standard use fixed channels without hopping and therefor have a much bigger risk for interference. There are inherent problems associated with this method though, interference from other competing local wireless networks including Bluetooth equipment is one problem and the user often has to go to the trouble of setting up IP and Netmask settings in order to make the system function.

The W-DMX is a compact, plug and play unit with a competitive price, and more importantly, free from interference from other products in the 2.45GHz band like W-LAN. W-DMX is using a standard called adaptive FHSS and TDMA once invented by the US

RECEIVER

The receivers are more user specific - the standard is small and lightweight box made for indoor use and delivered with an antenna. As an option its possible to connect other models of antennas to be used in longer distance or with specific need of higher gain. The Pro version is also a small and lightweight box but have a built in UPS for up to 8 hours of power loss and the system is also delivered with an external antenna. The outdoor version is the same as Pro model but with IP65 rating made for outdoor applications. The receivers are both available with 5-15V powersupply or universal power from 90-250V.



TRANSMITTER

The transmitter can be used for both Multi-cast use and/or Point 2 Point use. With Multi-cast use of wireless DMX 512 its possible to have 1 receiver to each fixture. This application can be used when you want to control many fixtures totally wireless and no DMX cable. The Point 2 Point situation can be used when you have a long distance from console to first fixture and want to use DMX cable all other units in the DMX chain.

The transmitter are all RDM and ACN ready, and the firmware can also be updated using a separate data channel, which is also used for system set up. Up to 8192 receivers can be controlled from one system, and the standard configuration is with 512 DMX Channels and can easily be updated with 8192 DMX channels (16 DMX 512 Universes).

W-DMX system using the adaptive FHSS standard when the other Wireless DMX products on the market using W-LAN is a big difference in means of safety. The FHSS standard uses 83 different frequency channels and jumping every millisecond between them to have interference free transmission. As the FHSS is adaptive and if the system finds a frequency with interference it will removed. W-LAN uses a technology called DSSS that is only using 13 different frequency channels, W-DMX is automatically avoiding frequencies that are interfered by other radio equipment operating in the same band and are also encrypted.



OEM

Wireless Solution AB offers transceiver PCB for OEM applications in fixtures and/or consoles. Its the same PCB that are used in our system that offers safe transmission of wireless DMX 512. All PCB are ready for ACN and RDM. They are also offering talkback function between consoles and fixtures. If you are manufacturer of consoles or fixtures. Please feel free to contact us for a discussion.



Out effect according to FCC (North America) 1W (30dBm)

Antenna Sender	Antenna receiver	Line of site	Max Distance	Frequency
6 dBi	0 dBi	Yes	3 km	2,450 GHz
6 dBi	6 dBi	Yes	6 km	2,450 GHz
6 dBi	21 dBi	Yes	30 km	2,450 GHz
6 dBi	6 dBi	No	1 km	2,450 GHz

Out effect according to ETSI (Europe) 100mW (20dBm)

Antenna Sender	Antenna receiver	Line of site	Max Distance	Frequency
6 dBi	0 dBi	Yes	1 km	2,450 GHz
6 dBi	6 dBi	Yes	3 km	2,450 GHz
6 dBi	21 dBi	Yes	12 km	2,450 GHz
6 dBi	6 dBi	No	0,3 km	2,450 GHz

Some pictures are owned by Studio Due in Italy and/or other countries.

Wireless Solutions AB | Stureparksvägen 7 | 451 55 Uddevalla | Sweden

Telephone +46 522 66 99 33 | Fax +46 522 65 33 59 | Email sales@wirelessdmx.com | Website. www.wirelessdmx.com