



W-DMXTM
RANGE 2010-2011
EDITION III



It is about **trendsetters**, not followers

WIRELESS SOLUTION
MADE IN SWEDEN



G4
W-DMXTM GENERATION IV

Wireless Solution

It is about trendsetters, not followers

Wireless Solution Sweden AB was founded in 2003 by top professionals from the lighting industry and wireless communication engineers. The company designs and produces W-DMX™, the twice award winning Wireless DMX system that is today the un-official standard for those that require the most dependable product available for transmitting lighting control data wirelessly, no matter the distance or location.

Wireless Solution's W-DMX™ product line makes large, creative, or technically complex installations possible through the wireless distribution of lighting control signals. Award winning reliability and one-button-to-go setup allow for quick installation of lighting fixtures, on-time completion of time-sensitive projects and faster, more efficient and less labor intensive load-in and load-out of rental equipment.

Wireless Solution's product range boasts indoor as well as IP65 rated outdoor models and can be used in even the most complex lighting systems today. The only manufacturer on the market carrying a whole range of wireless equipment and accessories, even the most complex turnkey systems can be specified and supplied in their entirety by Wireless Solution.

W-DMX™

Beat us if you can

W-DMX™ is a true 'plug and play' system for transmitting both DMX and RDM data wirelessly, incorporating advanced technology including Adaptive Frequency Hopping Spread Spectrum (AFHSS) to dynamically avoid other radio frequency users, built-in dual-band for better performance in even the toughest environments, and RDM support to keep on top of your lighting system without fail. On top of this with new functions like Data-Safe for error correction and Invisi-Wire.

Wireless Solution continues to invest tirelessly in R&D, and has a full gamut of products lined up for the future. Wireless Solution Sweden AB is, and will continue to be, the leader in Wireless lighting control worldwide. With over 30 OEM partners integrating W-DMX™ into a whole range of lighting products, and over 60,000 units manufactured, we are the true world leader in Wireless lighting control. Wireless Solution continues to develop new technology for the DMX, RDM and DALI protocols, such as our patented mesh radio technology, that we will bring to the market as our smartDMX range for pure architectural use in the future.

Wireless Solution Sweden AB works closely with major manufacturers, lighting designers and production companies to produce what the market wants and needs. Products are proudly carry the "Made In Sweden" mark, our personal guarantee of the top-notch quality and world leading reliability of our products.

Are you wireless?





Did **you** know?

In the last 5 years we
shipped more than 60 000
W-DMX™ units!



G4 Information

W-DMX™ MAKES THE DIFFERENCE

G4



Dual-Band

W-DMX™ Dual Band allows DMX and RDM data to be transmitted on the 2.4GHz and the less congested 5.8GHz frequency band at the same time. This together with Adaptive Frequency Hopping that automatically avoids frequencies that are already in use make W-DMX™ a superior technology for Wireless Lighting Control.



Data-Safe

W-DMX™ data-safe technology protects your DMX and RDM data from corruption in the air. Using tough checks, and our patented method of error correction, W-DMX™ corrects any corrupted data before it gets to your lighting equipment, resulting in a flicker free show.



Ethernet

W-DMX™ supports a full range of Ethernet protocols associated with the lighting industry. Out of the box, it supports not only Art-Net, Streaming ACN and ETC-NET, but will be updateable in the future with more protocols.



Invisi-wire

W-DMX™ G4 recreates the DMX signal at the end of its wireless link so accurately that it is the industry's true wireless replacement for a wire. DMX frame characteristics such as the break, mark after break, interslot timings and slot count parameters are recreated exactly as they came in at the transmitter side. The result is a Wireless system with the highest fidelity of all products on the market today.



Adaptive Frequency Hopping (AFHSS)

W-DMX™ adapts its radio transmission automatically depending on current radio traffic on both the 2.4GHz and 5.8GHz frequency bands, an industry first, ensuring transmission is conducted interference free not only for W-DMX™ systems, but for other radio systems in the vicinity as well. In short, W-DMX™ will not be interfered with, or cause interference with other radio systems, resulting in true co-existence.



RDM¹

W-DMX™ supports RDM out of the box, allowing not only the W-DMX™ system to be configured by any available RDM controller, but also providing the controller with access to any RDM devices downstream of any compatible RDM enabled W-DMX™ receiver. W-DMX™ takes RDM one step further and has added several manufacturer specific RDM commands to make wireless lighting control easy to use and quick to configure, even if the transmitter or receiver is located remotely. W-DMX™ brings RDM the extra mile.



One-Button-2-Go

Wireless Solutions proprietary One-Button-2-Go technology makes wireless control as easy as counting to three. All W-DMX™ features are fully automated, allowing the system to select the best operating characteristics automatically, all with a push of the single red function button on the front of every W-DMX™ unit. Of course, all these factory presets are available for manual configuration through our W-DMX™ configuration dongle, or through our RDM interface to allow for advanced set-up and customization of the units.



Multipoint to Multipoint

W-DMX™ G4 transmitters can connect as to as many W-DMX™ G4 receivers as you wish, effectively working like a big, invisible wireless DMX splitter. Not only that, but for more universes, just add more W-DMX™ G4 transmitters for true multipoint to multipoint functionality.



G3 Compatible

W-DMX™ G4 units are all compatible with the previous Generation 3 products, meaning that our newer equipment slots right into your existing range of products. G3 compatibility mode enables different generations of W-DMX™ to work in perfect harmony, with all the functions of a G3 system. Please note that some of the unique G4 sunctions will be disabled when running G3 mode.

1) W-DMX Products with RDM that are sold in USA include a patent license fee from CTI. For more information, please contact Wireless Solution.



W-DMX™ BlackBox

INDOOR



The W-DMX™ BlackBox series is an industry leader for Wireless DMX and RDM control, packed into a tough, roadworthy die-cast metal casing. As with all our top W-DMX™ technologies, the W-DMX™ BlackBox series is built for the true lighting professional. The W-DMX™ BlackBox G4 uses our patented Adaptive Frequency Hopping technology that automatically avoids interference created by other wireless networks, for example W-LAN, wireless intercoms, stage automation systems and more. BlackBox also include our advanced method of error correction called Data-Safe that correct any corrupt data before it gets to your lighting equipment. All units are optional Ethernet Support, to convert any protocol in, to any protocol out.



The F-Series of BlackBox are the most versatile and flexible Units on the market, that you on the fly change between Transmitter and Receiver. Pure Transceiver technology.

Supporting both the 2.4GHz and 5.8GHz frequency bands, these dual band units have full RDM support, meaning even the most complex installations and the BlackBox units themselves can be configured wirelessly. All BlackBox units are backward compatible with W-DMX™G3 units, protecting your investment in the W-DMX™range.

A slot for the optional Ethernet PCB allows W-DMX™ BlackBox units to be enabled with Streaming ACN, Art-Net and other Ethernet based lighting protocol support, thus simplifying integration of the W-DMX™ BlackBox into larger, more complex installations.

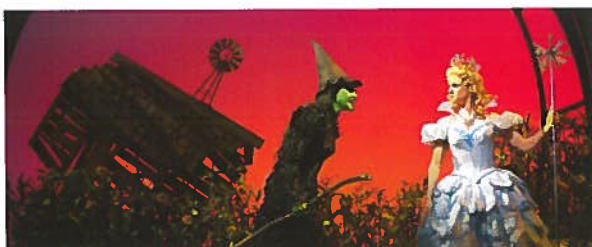
Built in automatically switching power supplies mean that no matter where you are in the world, BlackBox units are ready to go. And W-DMX™ units can be supplied directly by a battery thanks to the Phoenix Gold 12V input, and over a network through PoE (Power over Ethernet) with the optional network card.

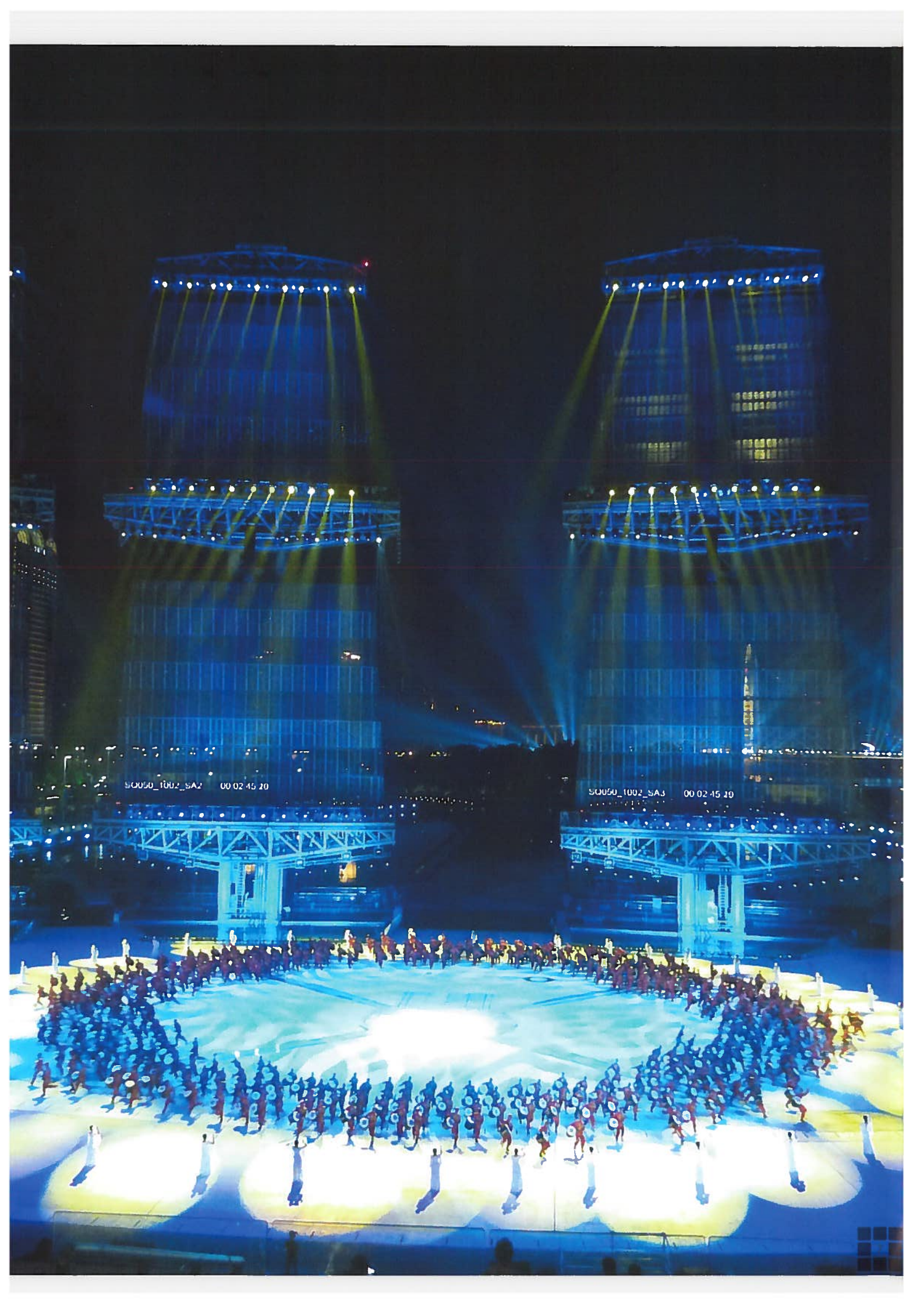
BlackBox units ship standard with a 2/4dBi dual band antenna, which provides up to an exceptional 800m of range. For links over greater distances, or for more complex projects needing one of Wireless Solution's other antenna, the N-type antenna connector allows any compatible antenna to be easily attached.

	FLEX-2 G4	FLEX-1 G4	R-512 G4
Article number	A40005G4	A40001G4	A40102G4
Features			
Operational modes	Transmitter/Receiver/ Repeater ²	Transmitter/Receiver	Receiver
Universes	2 in transmitter/receiver mode. 1 In repeater ² mode	1	1
Protocols	DMX / RDM ¹ / ACN ² / Art-Net ²	DMX / RDM ¹ / ACN ² / Art-Net ²	DMX / RDM ^{1,2} / ACN ² / Art-Net ²

1) Covered by one or more claims of patent No 7,432,803, and/or by other patent applications and corresponding foreign patent applications pending.

2) Optional





S0050_1002_SA2 00 02 45 20

S0050_1002_SA3 00 02 45 20



W-DMX™ WhiteBox

ARCHITECTURAL



The W-DMX™ WhiteBox series is our solution for architectural and entertainment projects that require the reliability and ease of use of W-DMX™ products, in a weatherproof IP-65 rated casing. All the functions are the same as the BlackBox Series with standard RDM on F-series and optional Ethernet Support to convert any protocol in, to any protocol out. All the F-Series the most versatile and flexible Units on the market, that you on the fly change between Transmitter and Receiver. Pure Transceiver technology.



The W-DMX™ WhiteBox contains features to ensure top-notch reliability, including Adaptive Frequency Hopping to dynamically avoid interference from other radios in the vicinity with no configuration or re-configuration over time, as the system adapts to its surroundings in real time. The units are dual band

2.4GHz and 5.8GHz units, meaning ever more reliability and robustness in any environment. WhiteBox also include our advance functions from the W-DMX™ G4 of Data-Safe with automatic error correction and Invisi-Wire.

Built to be installed on the exteriors of buildings, large structures, or anywhere exposed to the elements, the WhiteBox series works tirelessly day in, day out to transmit or receive your DMX, RDM and Ethernet signals around installations, be it the outside of a building, over rivers and even across buildings. The units can even be supplied by PoE when transmitting Streaming ACN, Art-Net or other Ethernet based lighting data, allowing the data backbone in any installation to power your wireless system.

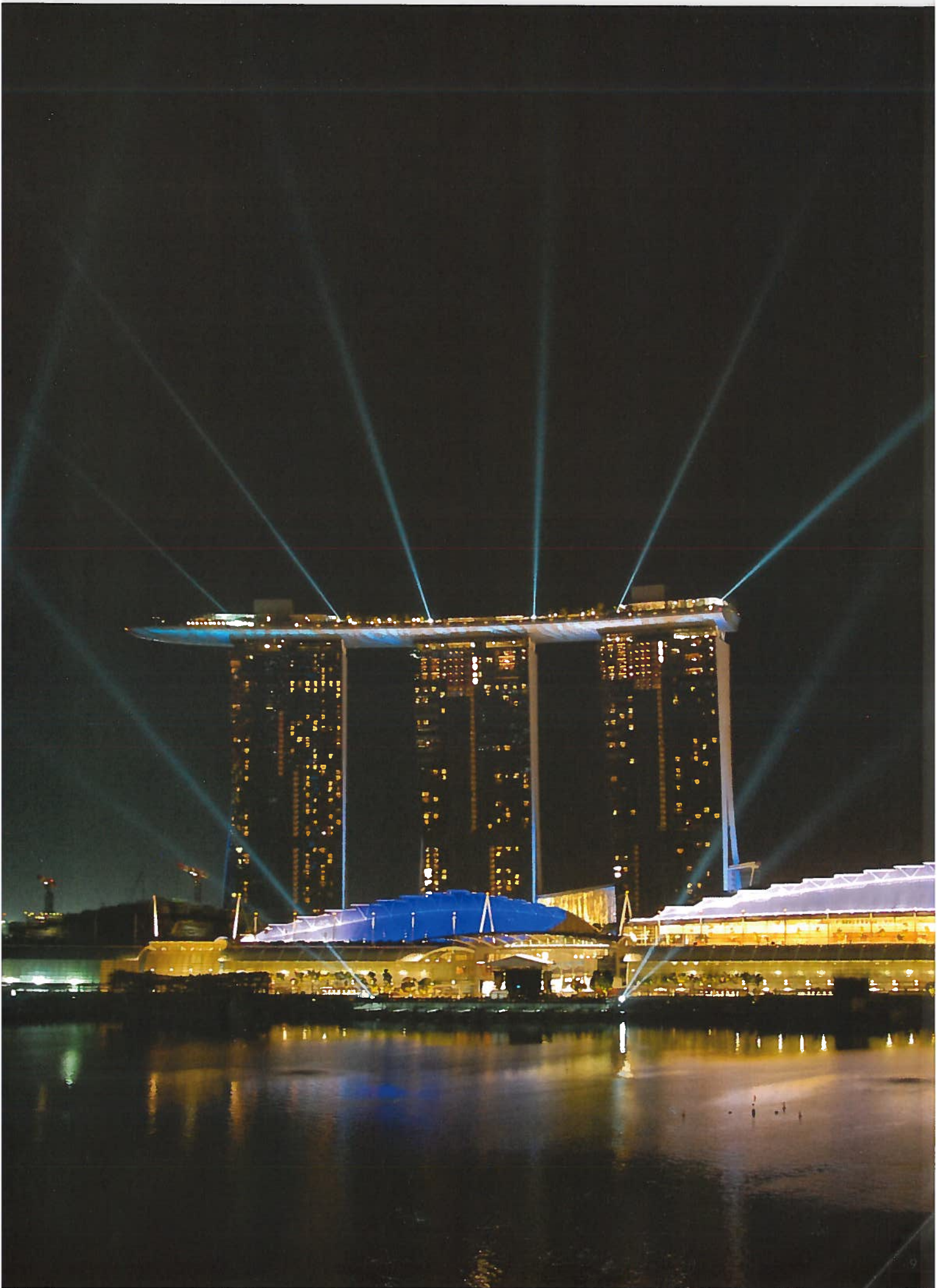
With a range of IP-65 antennas available that have proven compatibility with the WhiteBox series, and on-site support services, Wireless Solution can not only supply the whole range of Wireless equipment to an outdoor project, but also support to ensure that the installation is completed without any problems. Backward compatibility with the W-DMX™ G3 range of products mean existing installations can be expanded with ease.

	FLEX-2 G4	FLEX-1 G4	R-512 G4
Article number	A40004G4	A40002G4	A40103G4
Features			
Operational modes	Transmitter/Receiver/ Repeater ²	Transmitter/Receiver	Receiver
Universes	2 in transmitter/receiver mode. 1 In repeater ² mode	1	1
Protocols	DMX / RDM ¹ / ACN ² / Art-Net ²	DMX / RDM ¹ / ACN ² / Art-Net ²	DMX / RDM ^{1,2} / ACN ² / Art-Net ²

1) Covered by one or more claims of patent No 7,432,803, and/or by other patent applications and corresponding foreign patent applications pending.

2) Optional





W-DMX™ Micro

INDOOR



The Micro series are the most compact W-DMX™ products available on the market today. Built into a slim-line casing, with mounting options for any conceivable location or to practically any type of structure encountered in the entertainment and architectural lighting business, the Micro series is perfect for smaller events, or where space is a problem, such as inside trucked scenery, set pieces or in difficult to reach corners. The Micro units are also suitable for smaller rental applications where the distance does not need to exceed 250 meters in line of sight, and where fewer universes need to be transmitted wirelessly in one area. The Micro Series include functions like Adaptive Frequency Hopping, Data-Safe and Invisi-Wire.



The Micro F-1 Lite is the smallest and most compact transceiver on the market that also support RDM. The F-1 is most versatile and flexible Units on the market, that you on the fly change between Transmitter and Receiver. The Micro R-512 Lite is a small and compact receiver to support DMX.

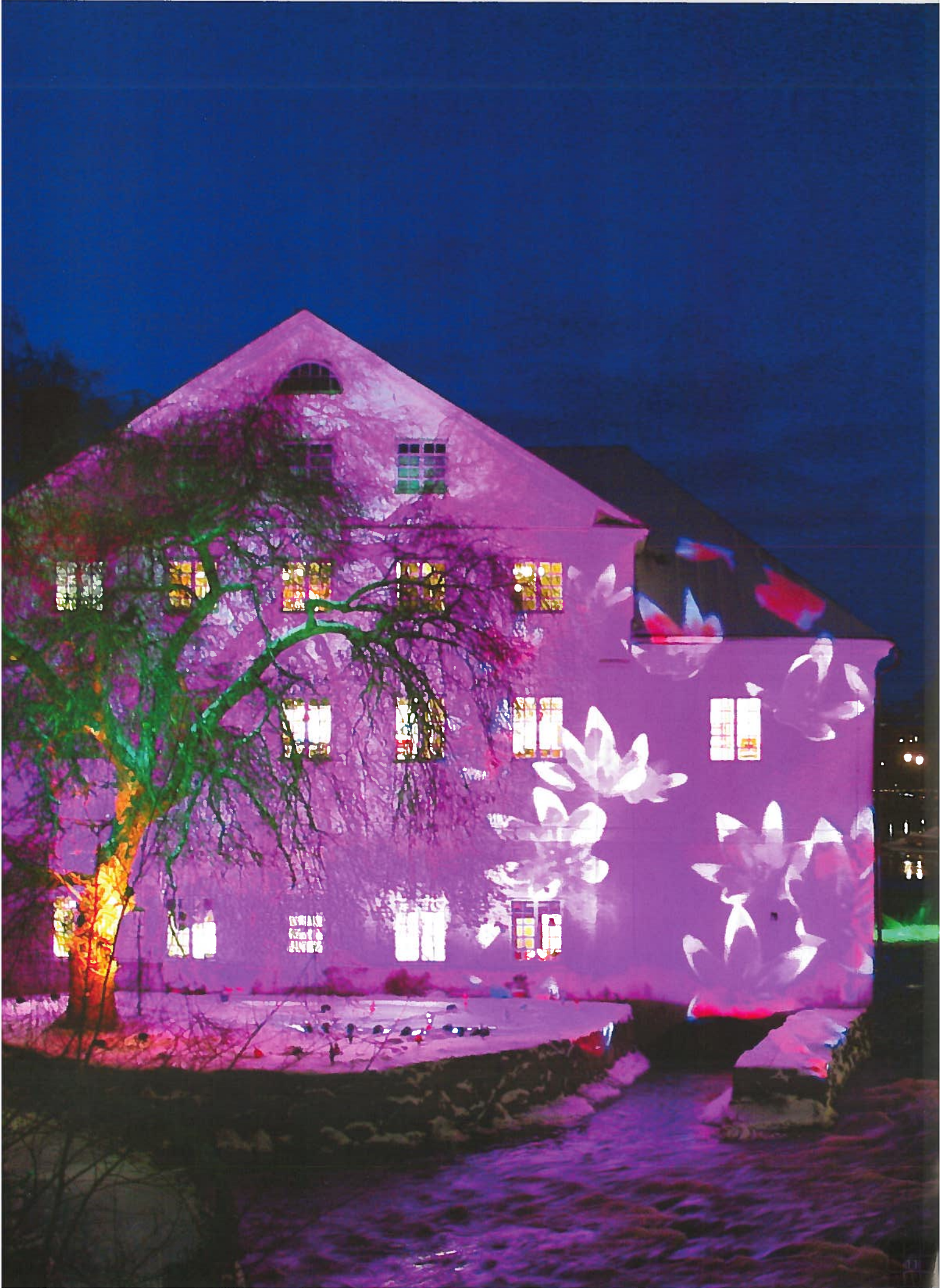
The Micro series comes with a battery compartment that accepts 6 standard AA batteries, allowing the unit to be powered of battery power for considerable lengths of time or standard external power supply.

The Micro series supports DMX/RDM through a standard 5 pin XLR connector, and a helpful display on the front of the unit conveys useful information at a glance. With our one-button-to-go technology, setting up a W-DMX™ system with Micro units is as simple as pushing a single red function button. And with compatibility with the whole W-DMX™ range, the W-DMX™ Micro series of products is at home in any lighting company inventory. Sporting compatibility with the whole W-DMX™ range.

	Micro F-1 Lite G4	Micro R-512 Lite G4
Article number	A40006G4	A40100G4
Features		
Operational modes	Transmitter/Receiver	Receiver
Universes	1	1
Protocols	DMX / RDM ¹	DMX

1) Covered by one or more claims of patent No 7,432,803, and/or by other patent applications and corresponding foreign patent applications pending.





W-DMX™ ProBox F-2500

RACKMOUNTED PRO SERIES



The W-DMX™ ProBox F-2500 is our top of the line, 2 universe transmitter/receiver and 1 universe Repeater, all in a single box 19" Rack unit. Built in a 1U case, the unit comes with ample connectors on the front and the back, and has built in support of Ethernet lighting protocols, including Art-Net and Streaming ACN. The ProBox F-2500 is designed for the large scale touring and rental market, as well as the installation market.

ProBox F-2500 is are the most versatile and flexible Unit, that you on the fly change between Transmitter and Receiver. Pure Transceiver technology that also allow standard Ethernet Support, to convert any protocol in, to any protocol out between DMX, RDM, Art-Net, Streaming ACN, Pathport, ETC-NET2/3 and Strand ShowNet.

The W-DMX™ ProBox F-2500 supports both the 2.4GHz and 5.8GHz frequency bands. These dual band units have full RDM support, meaning even the most complex installations and even the ProBox F-2500 units themselves can be configured wirelessly. The ProBox F-2500 is backward compatible with W-DMX™ G3 units, protecting your investment in the W-DMX™ range.

The W-DMX™ ProBox F-2500 uses interference free Adaptive Frequency Hopping technology that automatic avoids interference created by other wireless network, for example WI-FI, wireless intercoms and more, ensuring co-existence with other networks is hassle free. Complete with W-DMX™ G4 functions like Data-Safe and Invisi-Wire.

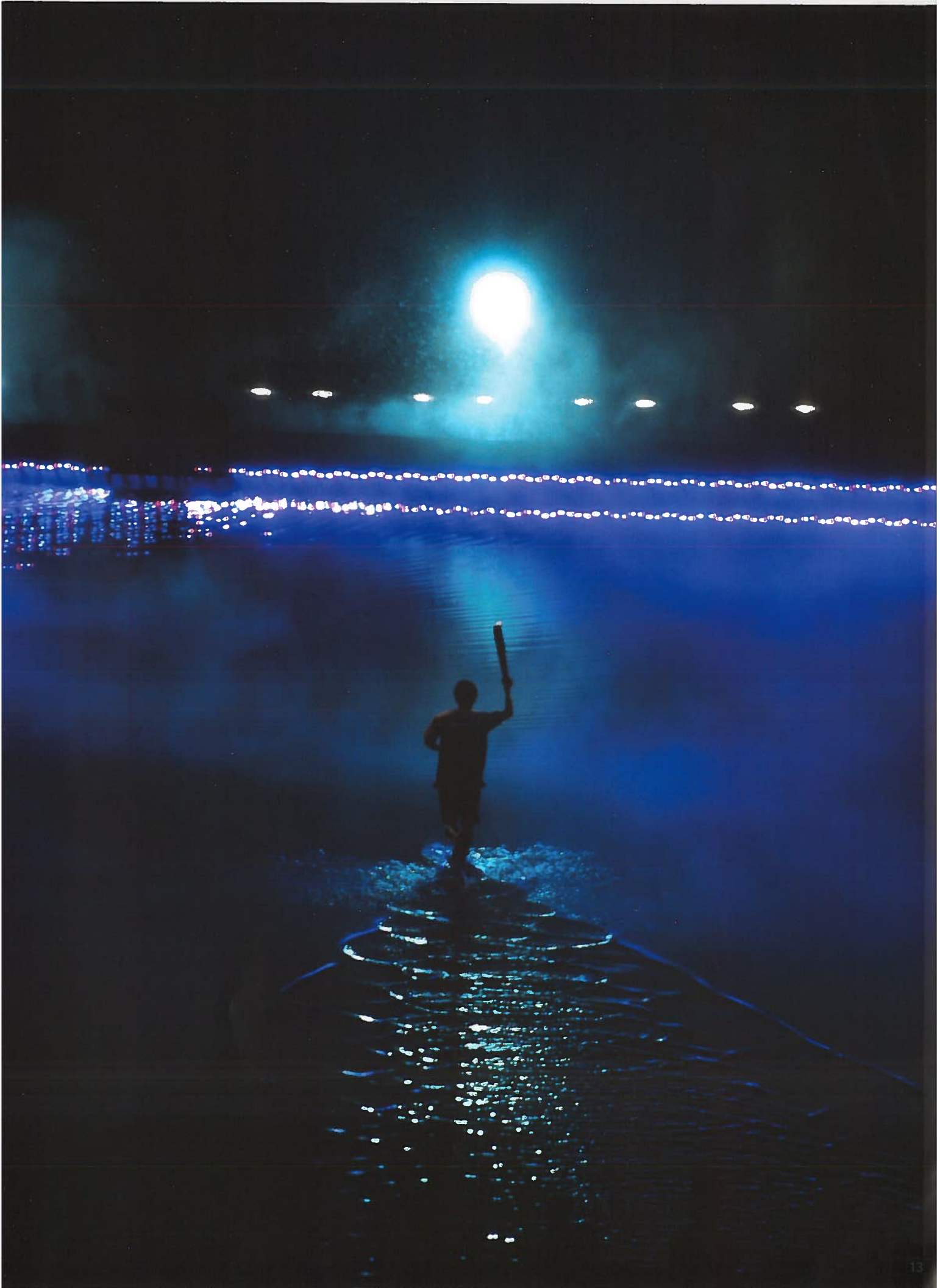


W-DMX™ ProBox F-2500 comes with a built in, automatically switching power supply (90-260V) meeting all international standards to ensure that no matter where your rig goes, the ProBox F-2500 can follow. The unit also ships with our dual band 2/4dBi antenna for 2.4GHz and 5.8GHz use. With a 12V optional power input, Ethernet input/output for Streaming ACN and Art-net, and 5 pin DMX connectors on both the front and the back, connecting and configuring the unit is a breeze.

W-DMX™ ProBox F-2500

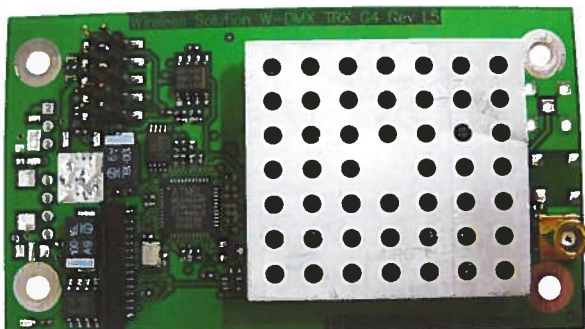
Article number	A40007G4
Features	
Operational modes	Transmitter/Receiver/Repeater
Universes	2 in transmitter/Receiver mode. 1 In repeater mode
Protocols	DMX / RDM ¹ / s/ACN / Art-Net / Pathport, ETC-NET2/3 / Strand ShowNet
Ethernet	Yes

1) Covered by one or more claims of patent No 7,432,803, and/or by other patent applications and corresponding foreign patent applications pending.



W-DMX™ OEM G4

THE UNOFFICIAL STANDARD



The W-DMX™ OEM program comprises over 30 OEM manufacturers that make their products compatible with the W-DMX™ wireless protocol, ensuring that even with a range of brands and different types of products, a piece of lighting equipment with Wireless functionality will work with another piece of equipment with Wireless functionality.

To OEM customers, not only are we offering a complete solution for integrating wireless control into your fixtures, but we also keep on stock of a complete range

of antennas as well a complete range of OEM Antenna cables that are suitable for your application. As the leading manufacturing of wireless lighting control solutions, we offer a complete range of products coupled with technical assistance in your R&D department to make installation of Wireless control as easy as possible.

Wireless Solution produces over 30 000 units per year (2010). With over 75,000 units shipped worldwide since inception, installed in fixtures, dimmers, consoles, signal distribution units and more, Wireless Solution's W-DMX™ is the 'unofficial' standard for wireless lighting control worldwide.

	Pico	Pico Dualband	Micro	Pro
Article number	See connector	A40905G4	See connector	A40904G4
Features				
Operational modes	Receiver	Receiver	Transmitter/Receiver	Transmitter/Receiver
Universes	1	1	1	1
Frequency	2.45 GHz	2.45 GHz / 5.8 GHz	2.45 GHz	2.45 GHz / 5.8 GHz
Internal antenna	Yes (A40900G4)	No	Yes (A40903G4)	No
MCX connector	Yes (A40901G4)	Yes (A40905G4)	Yes (A40902G4)	Yes (A40904G4)
Protocols	DMX	DMX	DMX / RDM ¹	DMX / RDM ¹
DC Input	5V Standard (9-18V or 6-32V optional)			
Approvals	CE, c/ETL, FCC, ETSI, ARIB. Approvals for Russia and China pending.			

1) Covered by one or more claims of patent No 7,432,803, and/or by other patent applications and corresponding foreign patent applications pending.

SmartDMX OEM

MESH CONTROL



Wireless Solution will soon be launching a brand new OEM product specifically targeted for the commercial and architectural lighting market. Supporting protocols such as DMX, RDM and DALI but also PWM, the small (26x62mm), lightweight PCB can easily fit into any lighting product, from LED striplights to fluorescent ballasts.



With our patented Mesh radio technology coupled with our Adaptive Frequency Hopping technology, the SmartDMX product can be used in some of the most difficult installations, allowing versatility and flexibility in any installation.

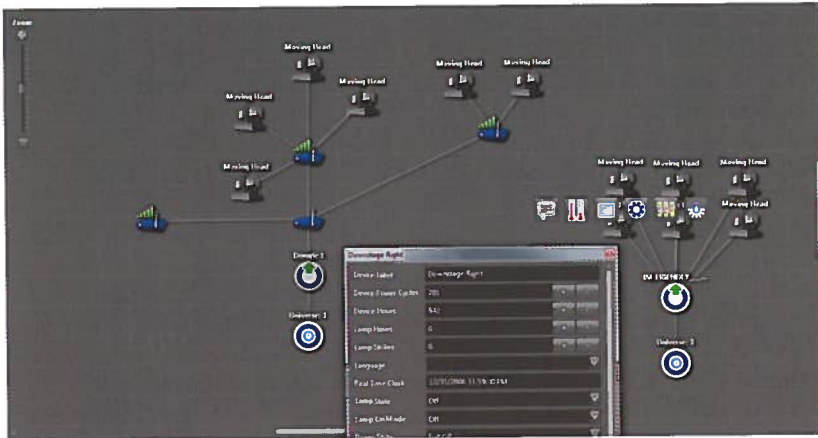
All manufacturers are welcome to contact us at sales@wirelessdmx.com for Information on how to join the W-DMX™ and smartDMX OEM programs.

W-DMX™ OEM Partners



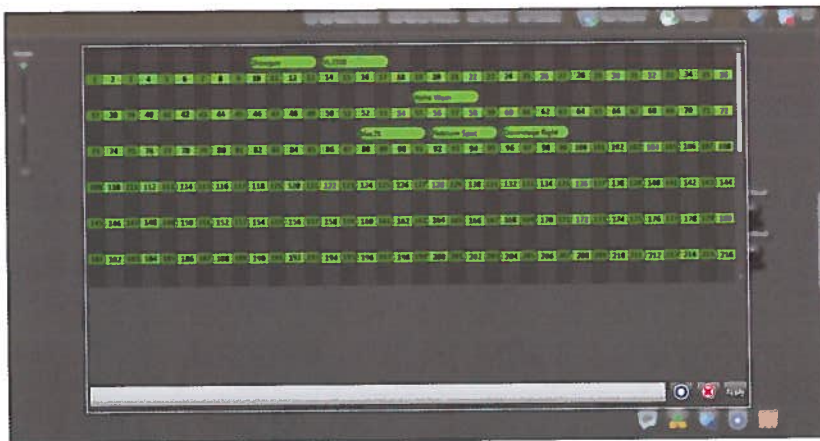
W-DMX™ BlueBox

RDM CONTROLLER SOFTWARE



The Bluebox RDM Controller is the industry's first PC based intelligent, integrated DMX and RDM controller. Built from the ground up specifically for controlling large rigs of RDM enabled products, the Bluebox RDM controller allows users to search for any RDM enabled product in a DMX/RDM Network, automatically patch the fixture, and control the fixture, as well as receive status updates on the fixture and configure settings such as fixture mode, lamp on/off and more. This makes the Bluebox RDM controller perfect for quick

setup and programming of Corporate and live event rigs (much quicker than an equivalent DMX console due to the fast automation that RDM allows for), and is ideal for autonomous monitoring of large-scale lighting installations in architectural environments.



The Bluebox RDM controller is built with a set of features specifically for the W-DMX™ G4 range. The Bluebox RDM controller will automatically search for and find any G4 transmitters and RDM enabled G4 receivers and display them clearly on the screen. Useful information, such as signal strength and wireless channels used can be displayed, and useful configuration options such as signal power, transmitter/receiver pairing and compatibility modes can be set up quickly and easily from dedicated W-DMX™ menus. Users

can also see which RDM fixtures are connected through which W-DMX™ receiver, simplifying installation.

The DMX controller allows cue lists to be built, coupled with powerful timing control to enable automatic, architectural or event lighting to take place, with minimal user intervention. The clear, concise fixture alerting system alerts the user if there are any problems with fixtures on screen and by email, virtually eliminating all manual checking of fixtures in fixed installations. The cue list quick select allows dynamic shows to be programmed and run 'on-site'.

The Bluebox RDM controller comes as an Ethernet dongle and PC software, and is optimized for touch-screen PCs. Use of a simple wireless LAN allows the controller to be brought practically anywhere in a venue, making patching, focusing, testing and programming much easier. Multiple dongles can be used for multiple universes of DMX/RDM, allowing a practically unlimited system size.

BlueBox RDM Controller

Article number	A40306G4
Features	
Universes	1
Protocols	DMX / RDM



W-DMX™ Uglybox

W-DMX™ TEST TOOL



The UglyBox is hailed as the 'riggers best friend', an indispensable tool in the lighting designer or technician's arsenal. With the capability to receive W-DMX™ signals to check their signal strength, as well as check the output of DMX channels, the W-DMX™ UglyBox is great for testing the limits of the W-DMX™ radio system and/or checking DMX data, in a portable, pocket sized device.

The UglyBox is great for checking if a system will work before installation, and checking DMX levels in a system. The W-DMX™ UglyBox can also be used to check

W-DMX™ signal history, allowing the user to see quickly any transient problems in the system. The Uglybox runs on standard AA batteries and last over 8 hours.

W-DMX™ Dongle

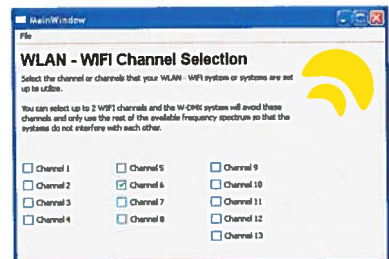
W-DMX™ CONFIGURATION TOOL



W-DMX™ Configuration Tool

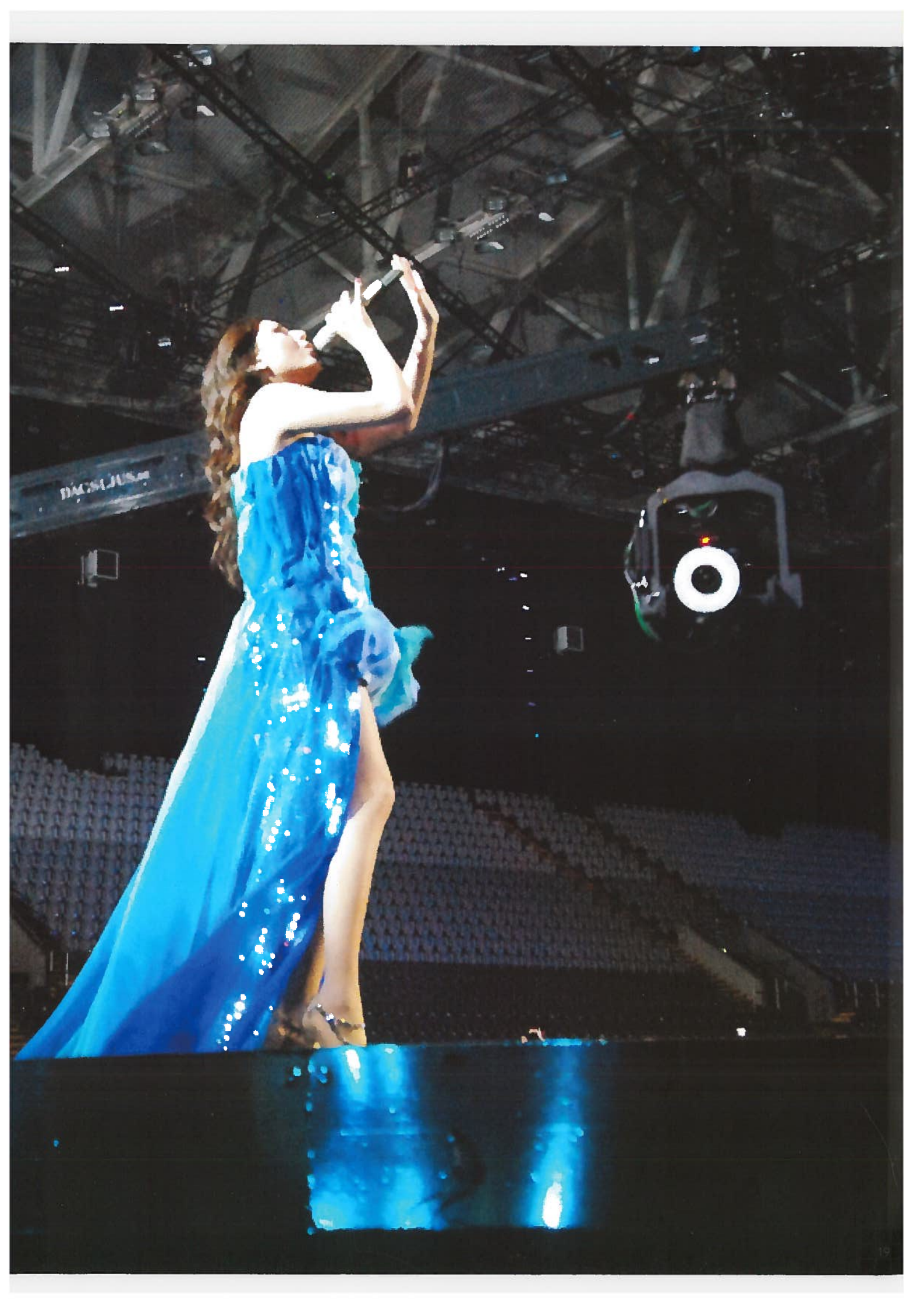
The W-DMX™ dongle is our ideal tool for configuring W-DMX™ units, when the full power of the W-DMX™ BlueBox RDM is not required. Channels in use can be manually configured (bypassing the AFHSS technology), and output power can be reconfigured quickly and easily.

With the basic mode, W-DMX™ channels can be disabled by



selecting which Wi-Fi channels are in use, and in the advanced mode, power users can disable individual W-DMX™ channels for finer control of the radio spectrum.

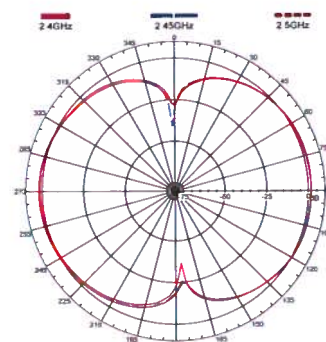




W-DMX™ Indoor 2

INDOOR ANTENNA

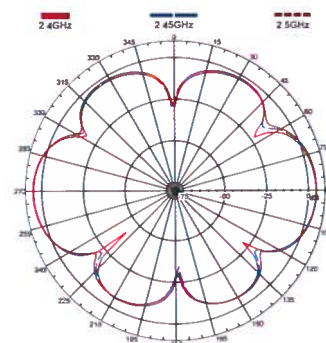
Article number	A40501
Features	
Type	Omni
Frequency	2.4 GHz
Boost	2 dBi
Radiation (HxV)	360x360°
Connection	RP-SMA Male



W-DMX™ Indoor 5

INDOOR ANTENNA

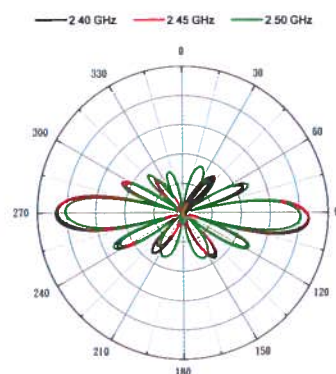
Article number	A40502
Features	
Type	Omni
Frequency	2.4 GHz
Boost	5 dBi
Radiation (HxV)	360x90°
Connection	RP-SMA Male



W-DMX™ Indoor 7

INDOOR ANTENNA

Article number	A40503
Features	
Type	Omni
Frequency	2.4 GHz
Boost	7 dBi
Radiation (HxV)	360x20°
Connection	RP-SMA Male



Did **you** know?

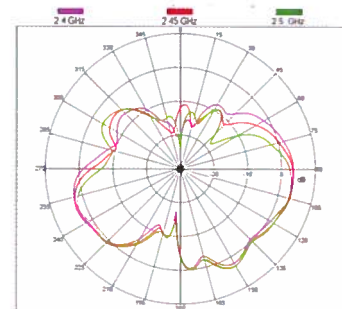
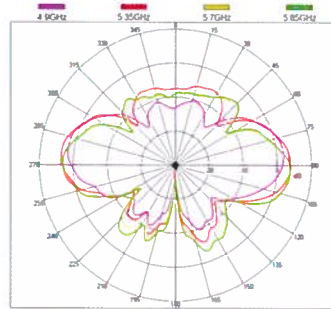
W-DMX offers both single and dual band antennas that support 2,4GHz and 5,8GHz.

W-DMX™ Indoor Dualband 2/4

INDOOR ANTENNA

Article number	A40511
Features	
Type	Omni
Frequency	2.4 GHz / 5.8 GHz
Boost	2 dBi / 4 dBi
Radiation (HxV)	360x360° / 360x240°
Connection	RP-SMA Male

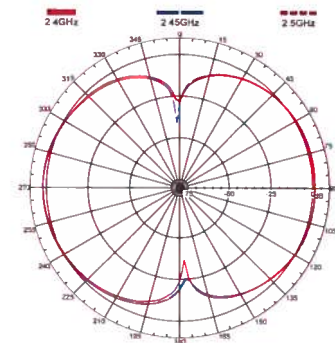
Horizontal/Vertical



W-DMX™ Outdoor 2

OUTDOOR ANTENNA.

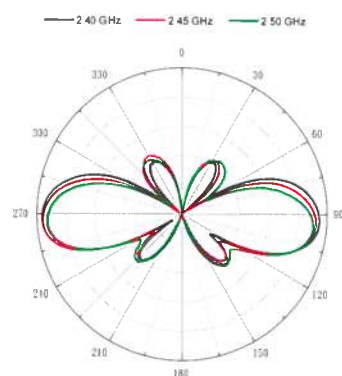
Article number	A40504
Features	
Type	Omni
Frequency	2.4 GHz
Boost	2 dBi
Radiation (HxV)	360x360°
Connection	N Female. Incl. Cable 75cm N Male-N Male



W-DMX™ Outdoor 5

OUTDOOR ANTENNA. 2.4 GHZ

Article number	A40505
Features	
Type	Omni
Frequency	2.4 GHz
Boost	5 dBi
Radiation (HxV)	360x30°
Connection	N Female



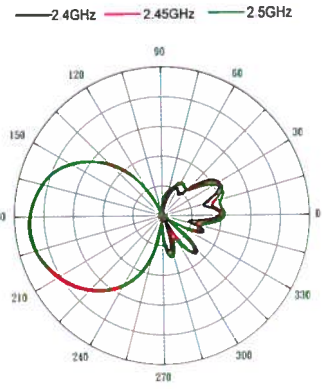
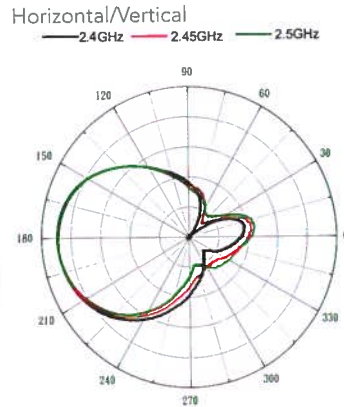
Did **you** know?

W-DMX™ offer Omni-Directional antennas and Directional antennas. This to support all kind of projects.

W-DMX™ Outdoor 8

OUTDOOR ANTENNA. 2.4 GHZ

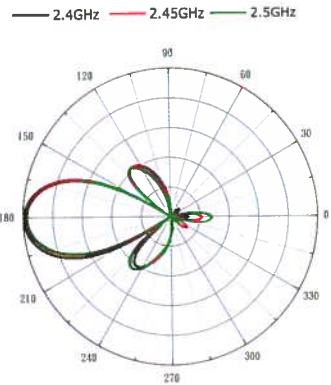
Article number	A40506
Features	
Type	Omni
Frequency	2.4 GHz
Boost	8 dBi
Radiation (HxV)	360x20°
Connection	N Female



W-DMX™ Outdoor 12

OUTDOOR ANTENNA. INCL. BRACKET

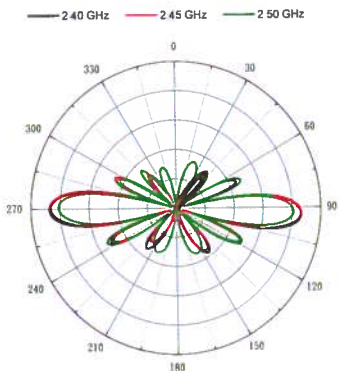
Article number	A40507
Features	
Type	Directional
Frequency	2.4 GHz
Boost	12 dBi
Radiation (HxV)	30x30°
Connection	N Female



W-DMX™ Outdoor 9

OUTDOOR ANTENNA. INCL. BRACKET

Article number	A40509
Features	
Type	Directional
Frequency	2.4 GHz
Boost	9 dBi
Radiation (HxV)	45x45°
Connection	N Female



Did you know?

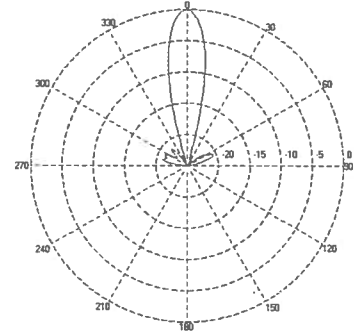
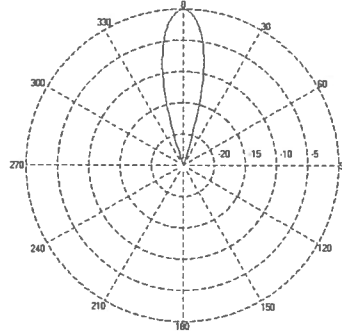
Directional antennas is used when you need wireless signal in a direction position, between transmitter and receiver. Omni-Directional is used with cover of 360 degrees. Keep in mind, all larger antennas demands a little more planning. Please contact Wireless Solution or your distributor.

W-DMX™ Outdoor 21

OUTDOOR ANTENNA. INCL. BRACKET

Article number	A40508
Features	
Type	Directional
Frequency	2.4 GHz
Boost	21 dBi
Radiation (HxV)	7x7°
Connection	N Female

Horizontal/Vertical

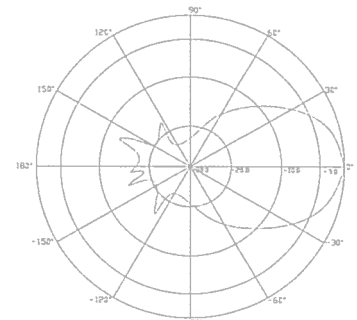
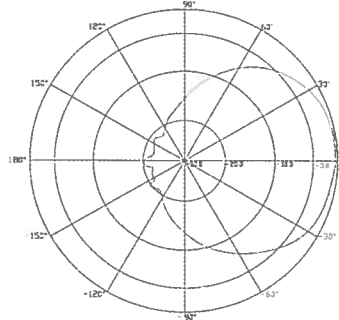


W-DMX™ Outdoor Dualband 8/10

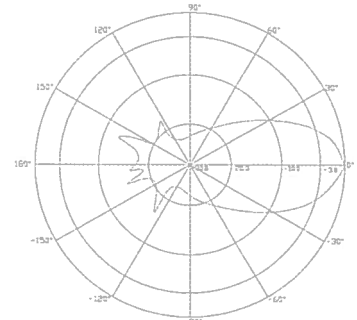
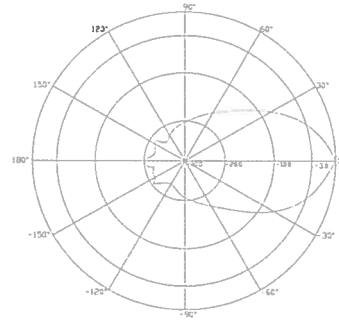
OUTDOOR ANTENNA

Article number	A40512G4
Features	
Type	Directional
Frequency	2.4 GHz / 5.8 GHz
Boost	8 dBi / 10 dBi
Radiation (HxV)	30x30° / 25x25°
Connection	N Female

2.4 GHz (Horizontal/Vertical)



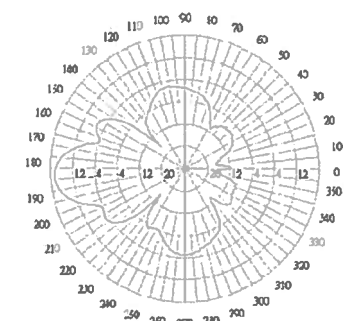
5.8 GHz (Horizontal/Vertical)



W-DMX™ Outdoor 16

OUTDOOR ANTENNA

Article number	A40513G4
Features	
Type	Directional
Frequency	5.8 GHz
Boost	16 dBi
Radiation (HxV)	30x20°
Connection	N Female



W-DMX™ Booster

OUTDOOR

Power Amplifier to gain power up to 1000mW.



	BlackBox B-5000 Outdoor	BlackBox B-1000 Outdoor
Article number	A40203G4	A40204
Features		
Output power	1000 mW	1000 mW
IP-rating	IP65	IP65
Frequency	5.8 GHz	2.4 GHz
Additional items	50 m cable included	50 m cable included

W-DMX™ Cables

OUTDOOR

Professional Antenna Cables.



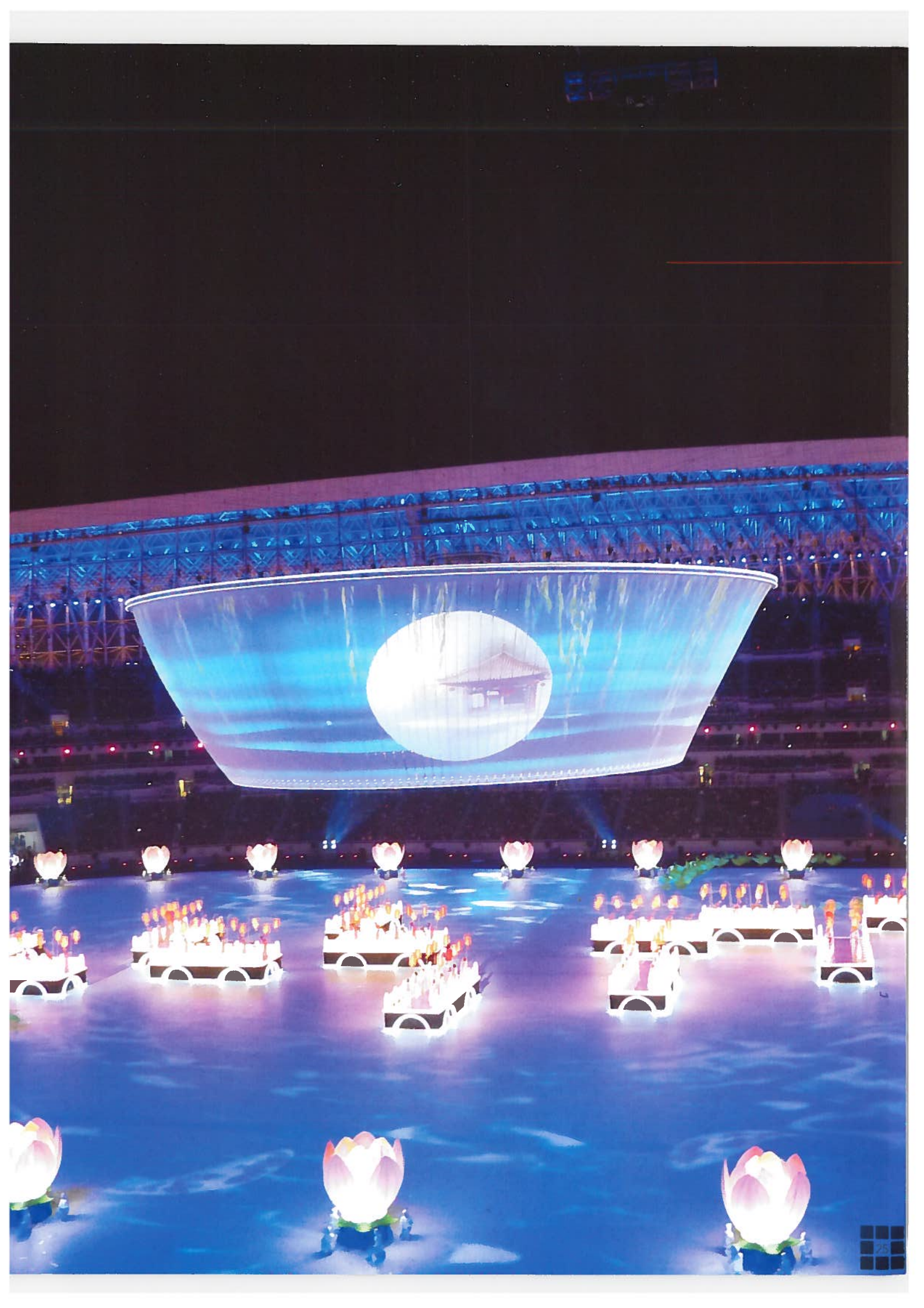
	1,5m	3m	5m	10m	15m	20m	30m
Article number	A40607	A40608	A40609	A40610	A40611	A40612	A40613
Features							
Loss/m	0,5 dBi	0,5 dBi	0,5 dBi	0,5 dBi	0,5 dBi	0,5 dBi	0,5 dBi
Connector	N Male to N Male						

W-DMX™ Accessories

Antenna Adapters and more.



Description	Article no	Description
Adapter N Female-RP-SMA	A40621	Adapter for all Indoor Antenna. N Male - RP-SMA Female
W-DMX™ Lightning Arrestor	A40622	N Male - N Female. Requires Earth Ground. Recommend for outdoor installation.
Adapter RP-SMA-N Female	A40623	For indoor cable to mount outdoor Antenna.
Adapter N Female-N Female	A40627	Used to put outdoor antenna directly on an outdoor box.
Adapter N Male-N Male	A40628	Used to connect 2 outdoor cables together for extension.
Antenna Combiner	A40210	Antenna Combiner / Splitter. 2 Antenna for 1 Transmitter, Vice Versa Receiver.
AC/DC Adapter	A40150	90-250VAC to 12VDC Electronic Transformer.
Powercord	A40151	Universal Powercord 1,5m, Bare End.
Rack mount	A40160	19" Rack Kit by W-DMX™ for 2 x BlackBox, DMX inputs/outputs on front. With Cable
Truss mount	A40161	W-DMX™ Trussmount for BlackBox to fit standard 2" Clamp or Hook.



W-DMX™ at Marina Bay Sands

OPENING IN SINGAPORE



W-DMX™ outdoor units were used for the Marina Bay Sands Grand Opening in Singapore in the summer of 2010. Developed by the Las Vegas Sands, it is billed as the world's most expensive standalone casino property, located along Marina Bay in Singapore.

The resort boasts 2,560 hotel rooms, a 120,000 square metre convention centre, a mall, museum, two Sands Theatres, six "celebrity chef" restaurants, two floating pavilions, and of course, a colossal casino with 500 tables and 1,600 slot machines. The building is topped with the world's largest public cantilevered platform hosting a park and infinity swimming pool. Designed by Moshe Safdie Architects, the resort commands an astonishing

200,000 square metres.

The official opening was held on June 23-24 headlined with a music concert staged on the outdoor event plaza starring Grammy Award-winning star Kelly Rowland (formerly of Destiny's Child) with performances from regional artist JJ Lin as well as the cast of the internationally acclaimed Broadway smash hit Jersey Boys. Over 5000 guests were in attendance.

For the ceremony, Lighting Designer Colin Baldwin ran a total of 14 universes using W-DMX™ transmitters and Outdoor 21 Parabolic Aerial antennae, located at the Suite Room Balcony of the Fullerton Hotel across the Marina Bay, approximately 2 kilometres away. The W-DMX™ receivers and Outdoor 21 Parabolic Aerial antennae were located on the Event Plaza on Level 1, the Promenade on Level 4, the Hotel Buttress bridge on Level 19 and the Sky Park on Level 57, supplying signal to 14 DTS XR3000s, 18 DTS Arc 1200s, 10 Alpha One 7Ks, 8 Syncrolite 7Ks, 10 Syncrolite 5Ks, a Strong 10K Britelight and 6 Anolis Arc Pad Xtremes. A full-size grandMA 2 served as the lighting controller. The system was installed by Laservision Australia and supplied from Showtec Singapore. Considering the distance involved, DMX cable would likely be impossible.

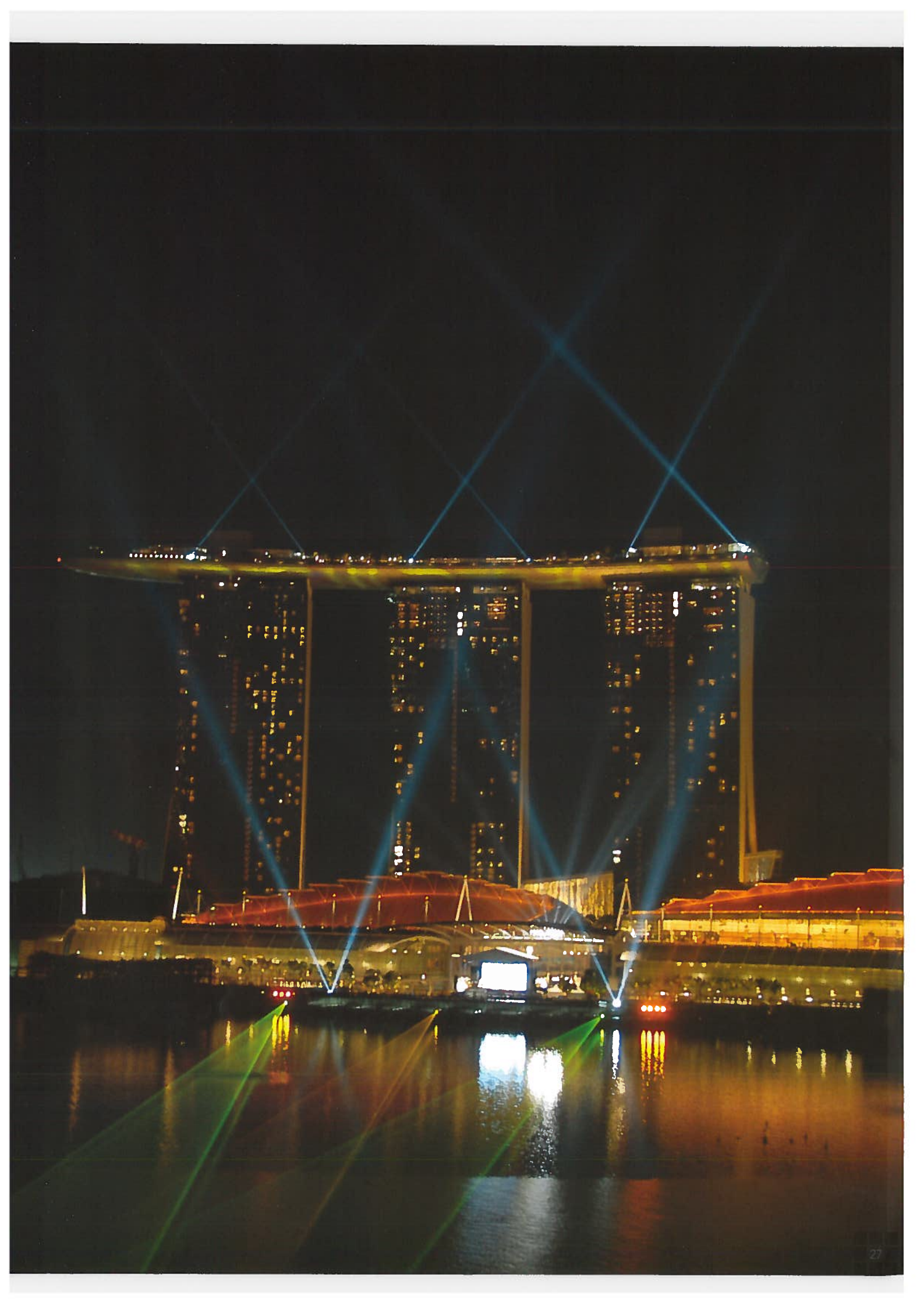
"Preparation and simulated lighting effects testing were conducted in an unfinished building," said Henry Ang, Managing Director and Founder for Showtec Group, "so access to various locations was a challenge. We chose W-DMX™ as an assured mode of transmission for all control signals from that location to Marina Bay Sands. The W-DMX™ system was very reliable and powerful, yet simple to configure and use."

The system proved to be the perfect solution, providing reliable signal and saving both time and money.

Ang added, "The W-DMX™ system, namely the transmitters, receivers and Outdoor 21 Parabolic Aerials, was a user-friendly system to set up and operate and the performance of the system using the Outdoor 21 Parabolic Aerials at such a great distance gave us confidence to work on upcoming projects that were beyond our imagination in the past!"

Through the technology from Wireless Solution, another project that would have been more or less impossible was solved by W-DMX, THE solution. User-friendly. Save Time. Save Money. With cables, this situation would have suffered infrastructure problems, traffic chaos and public safety issues. Ang concluded, "Well Done W-DMX!!!"





W-DMX™ at the Eurovision Song Contest

The Eurovision Song Contest, now entering its 57th year, is easily the largest indoor production and most-watched non-sporting event on television with an estimated 200 million viewers. So when the talented technical team that manages the mass of equipment requires a Wireless DMX signal, they turn to W-DMX.

For the most recent production in 2010 in Oslo, Norway, Lighting Designer Al Gurdon used W-DMX™ for a special keylight ring built into the Technocrane in addition to the cameras in the Green Room to achieve specific lighting effects. The Technocrane ring light was operated by Gurdon himself while the Green Room camera ring lights were operated by Sveinung Solbrekke, Lighting Designer for the Green Room.

Production Manager of Design Ola Melzig said, "There's a very good reason that W-DMX™ is used for Eurovision – it works. You name it and it's present at Eurovision: every kind of wireless and broadcast equipment, moving sets, thousands of fixtures and thousands of people. Wireless DMX is required for some aspect nearly every year and we just won't take a chance with any brand."

The show was televised by host broadcaster NRK and held at Telenor Arena located just outside the capital of Oslo, hosting 39 countries and 3 interval acts, including the world's largest flash mob dance. It was also the first year in which the Green Room was actually built directly behind the stage, allowing for some creative camera work, which was why the ring lights were of particular importance in that space. PRG of UK and Germany provided all technical equipment and crew for the show with support from Norwegian supplier Frontlite.

W-DMX™ was used to an even greater extent for the 2007 Eurovision Song Contest held in Helsinki, Finland. 37 W-DMX™ Generation 3 BlackBox units were used to send Wireless DMX signal to moving trusses and other equipment during the show, eliminating the need for excess cable. This was critical for a roof load that reached just under 100 tons. The weight of DMX cable alone that would have been required to substitute the W-DMX™ signal would have put the load over capacity, possibly endangering the entire production.

W-DMX™ controlled a total of 6 universes of DMX, including moving trusses containing Syncrolite B-52s and moving lights. It was also used on a 120cm large prism mirror ball suspended from the ceiling, as well as custom assembled mobile fog machines, and a Cyberhoist-rigged Fogscreen that descended from above the stage during the opening act.

W-DMX™ avoided all interference – even in a television broadcast environment loaded with 24 cameras and a hostile radio signal atmosphere.

Eurovision doesn't take any chances with equipment failure – further proof that W-DMX™ is the most dependable Wireless DMX system on the market. Melzig, who was also Production Manager for Eurovision 2007 said, "it worked very well and we didn't have any problems."

When it comes to large indoor productions involving moving set pieces and a multitude of radio traffic, trust W-DMX™ to operate flawlessly.

Photos courtesy of M & M Production Mgmt.





W-DMX™ at "Festival of Freedom"

20TH ANNIVERSARY OF THE FALL OF THE BERLIN WALL



W-DMX™ proved itself as a valuable rental solution at the "Festival of Freedom" celebration held on November 9, 2009 in Berlin, commemorating the 20-year anniversary of the fall of the Berlin Wall. The show was the crown glory of four days of celebrations around Berlin incorporating music, fireworks and over-the-top lighting.

The Berlin Staatskapelle and State Opera Chorus opened the ceremony on the Pariser Platz, one of the main historical focal points in the center of Berlin, situated next to famous Brandenburg Gate. The gate was awash with lights and color, with 14 Falcon 7kW fixtures atop the structure, lighting up the sky and drawing a huge crowd. Two 4-metre video screens flanked the gate for better visibility

of the entertainment. After the concert, the fall of the Berlin Wall was symbolized with the toppling of a domino wall made up of over 1000 giant Styrofoam dominoes, stacked along the entire wall path. Following the symbolic "fall", hundreds of thousands of people filled the streets in one giant party, complete with a fireworks display.

Lighting Designer Gerd Helinski, Managing Director of Helicon-Media GmbH, specified a system which included 10 Wireless Solution W-DMX™ BlackBox S-1 transmitters and 15 W-DMX™ Outdoor R-512 receivers to deliver signal to the Falcon fixtures, in addition to 90 DeSisti Outdoor 5kW Fresnels, 14 blinders by MAJOR and 30 Barco High End Systems Showguns. Control came from 2 grandMA Full Size consoles and 2 MA NSPs, operated by Udo Thimm. Stefan Krawietz and Tobias Müller of Helicon-Media were project managers, with Helicon acting as supplier of all W-DMX™ equipment and lighting. Producer Gerald Ponesky of Compact Team worked closely with Art Projects of Berlin to realize the vision. According to the team, the W-DMX™ system was used thanks to a stable history of reliability.

"We have been using W-DMX™ equipment successfully since the World Cup in soccer in 2006," said Helinski, "The W-DMX™ system has worked at numerous events beyond the specified limits of the system.

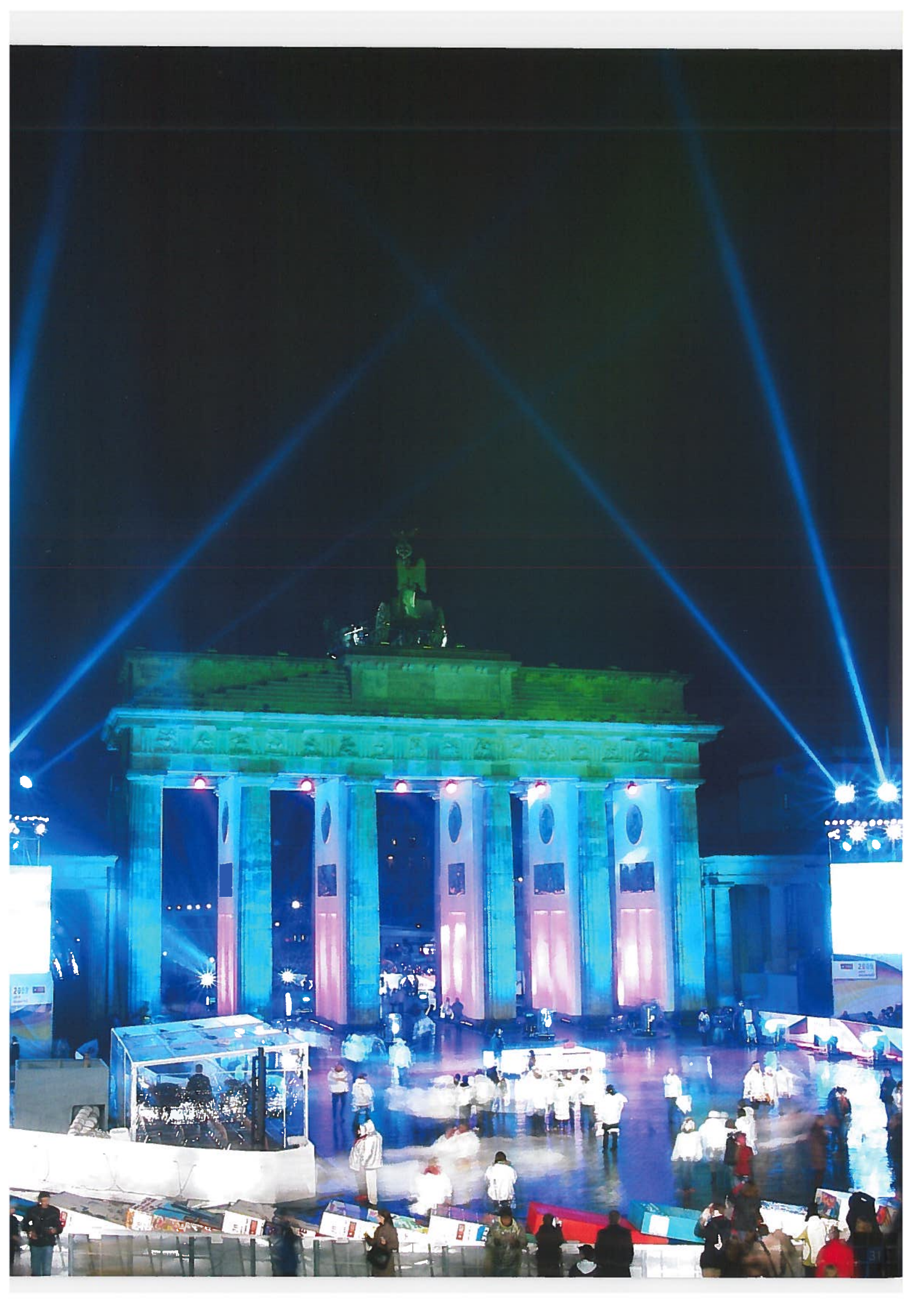
For instance, we have used the system over a distance of 2.3 kilometres reliably and without interference at the opening ceremony for the new Strelasund bridge."



The majority of the lighting was placed on a total of 21 light towers around the area, which had to be networked. Helinski explained, "We had lighting distributed all around the building, lighting up the sky and complementing the music and fireworks. We expected it to be quite a challenge to set up a data system in an urban environment where masts of the big TV and radio stations added to the usual city data chaos. The Wireless Solution W-DMX™ however worked without a glitch."

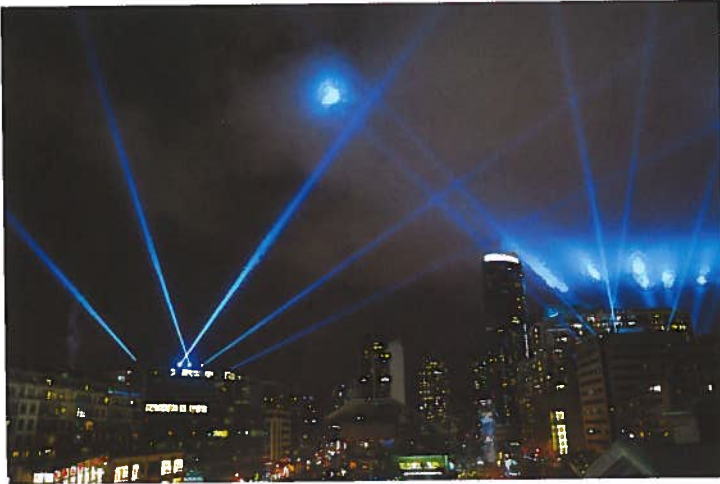
Another success story from Wireless Solution. W-DMX™ not only spared the public from the hazards of cable, but it protected an historic site from unnecessary rigging to support additional cable. The technology from Wireless Solution provides THE solution. Save Time. Save Money. Save the Planet.

Mauerfall Photos: Copyright - Gerd Helinski



W-DMX™ helps "Ignite the Dream"

ELECTRIC AURA FOR THE VANCOUVER OLYMPICS



Wireless Solution helped Electric Aura take a carbon-friendly footstep during the 2010 Olympic Games at one of the most unique installations found above Robson Square in Vancouver. Every night from February 12-28 the skies overhead exploded with lights, pyrotechnics, lasers, projections and flying performers.

The project, aptly named "Ignite the Dream" was the creation of Partrick Roberge to be the signature show celebrating the end of each day of the Olympic competition. Lighting Designer Robert Sondergaard of Electric Aura explains, "Patrick's vision was that this show had to be one of the top 10 things to see

during the Olympics." The lighting, as well as all of the special effects, were designed to create a stunning 360-degree experience that would showcase British Columbia at its best.

Sondergaard explains, "One of the missions driving the design was placement of the towers housing the technical infrastructure. In general the site was quite large but we shared the space with tents, city parks and thousands of people. Once we had the technical space sorted out, we needed to find fixtures that would give us the biggest impact within a small footprint."

As important as it was to have high-impact lighting, "green" products took high-priority for the project. The 2010 Olympic Committee encouraged environmentally-friendly choices for everything surrounding the Games from the very beginning.

W-DMX™ played an important role for two reasons. "We rigged ten Syncrolite SXB 7K fixtures on the tops of the buildings surrounding the site to get maximum attention," explains Sondergaard. "Besides the logistics of running DMX cable to those locations – basically impossible – W-DMX™ is a very green product leaving zero carbon footprint. We also used numerous LED fixtures which allowed us to get a large number of fixtures that wouldn't add significantly to our power draw." Two Wireless Solution W-DMX™ transmitters and two receivers provided signal to all 10 Syncrolites on the rooftops. Control came from a grandMA Lite. Lighting equipment was supplied by Christie Lites and Epic Production Technologies.

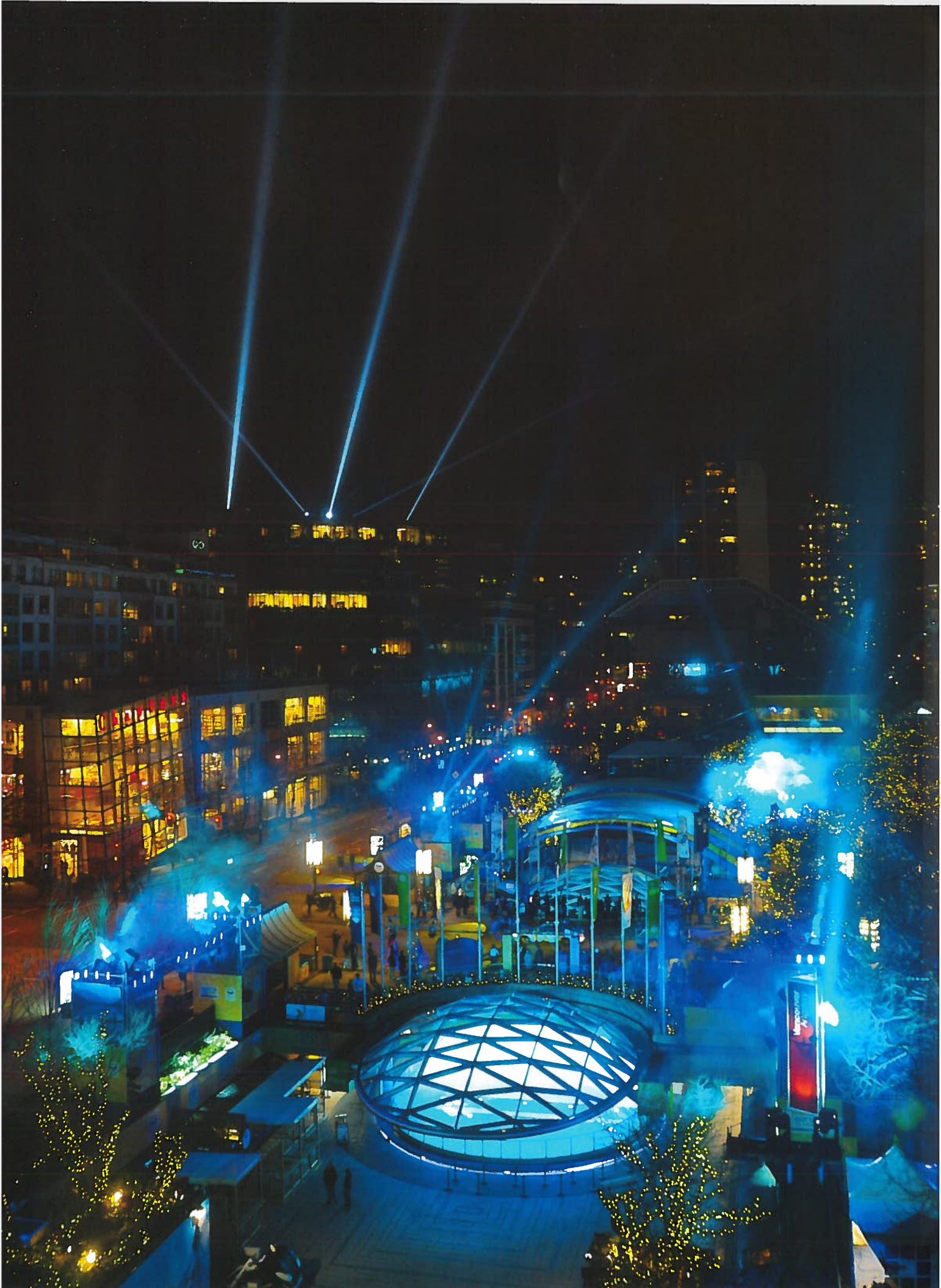
Covering a total distance of 1 city block (approximately 1000 feet or 300 meters) horizontal and about 10-11 stories up (approximately 100 feet or 30 meters) while in the presence of thousands of spectators, cell phones and broadcast equipment, the W-DMX™ never dropped the signal. "Rock solid as always," said Sondergaard.

Producer & Director was Patrick Roberge; Choreographer was Jocelyn Peden;

Lighting Designer & Programmer was Robert Sondergaard; Production Electrician for Electric Aura was Jason Bolger; and Syncrolite Technicians were Joshua Henderson and Bobby Slayton. In addition to "Ignite the Dream", W-DMX™ was also put into use at the Paralympic Games, as well as at Whistler and events downtown.



In such high-profile events such as the Olympics, unreliable products are not an option. Electric Aura has witnessed a proven track record of reliability and peaceful co-existence in high radio traffic situations over the years and used it during the Olympics with complete confidence. W-DMX™ remained stable for all events with no interference, in addition to adding an environmentally friendly aspect by eliminating the need for cable.



What is **Wireless DMX**?

The units

Transmitter

A W-DMX™ system requires one transmitter per universe of DMX, to broadcast the signal to any receiver. The controller will normally be plugged straight in to the transmitter. Transmitters in the W-DMX™ range include the BlackBox/WhiteBox FLEX-1 G4, BlackBox/WhiteBox FLEX-2 G4 (as a 2 universe transmitter) and the Micro S-1 G4.

Receiver

A W-DMX™ system can have, at a minimum, one receiver, up to an unlimited maximum number of receivers per universe of DMX. A receiver is required to receive the DMX signal transmitted wirelessly by the transmitter and output it to any downstream fixtures. Receivers in the W-DMX™ range include the BlackBox/WhiteBox R-512 G4 and Micro R-512 G4, as well as the BlackBox/WhiteBox FLEX-1 G4 and FLEX-2 G4 (a 2 universe receiver).

Repeater

A repeater is a combined unit that has the ability to receive a W-DMX™ radio signal, condition it and then re-transmit it to a receiver. These are useful if you want to greatly increase the range of a system without using larger antennas or boosters, or want to send radio signals around large obstacles. The ProBox have built in repeater, and option in BlackBox/WhiteBox FLEX-2 G4 is our repeater in the W-DMX™ range.

What is Wireless DMX?

It is just that, a DMX signal without the wire. Imagine being able to set-up and control your lighting rig with no control cables. Wireless DMX provides a solution that removes that DMX cable from the front of house, between individual truss sections or even between fixtures entirely. For areas where it is impossible to run cable, such as historic buildings, difficult urban environments, or even between buildings, transmitting DMX signals wirelessly to your fixtures is the only way. And in time-critical situations, like quick load-ins and outs, or 'one-man' shows and where labor is expensive, Wireless DMX provides the solution that saves time and money.

Wireless Solution Sweden manufactures the world's leading Wireless DMX solution. Winning awards around the world for its ease of use (only one button on the front) and reliability (with our Military Grade 'Frequency Hopping' technology), W-DMX™ from Wireless Solution is the industry's preferred choice for Wireless transmission of lighting control data.

How does a W-DMX™ system work? A W-DMX™ system is simple to install and set-up. A W-DMX™ system functions just like a wire, allowing you to send wireless a whole universe of DMX data, with RDM commands as well, at the full data rate and with non-noticeable delay.

To set up a simple W-DMX™ system, one needs a Transmitter that plugs into your lighting controller, and a Receiver, a unit that receives that Wireless DMX signal and outputs that DMX data to your lighting fixtures over a DMX cable. A single Transmitter and Receiver set-up can be expanded with multiple receivers, functioning like a big 'in-air' splitter, such that the full universe of DMX is transmitted to multiple points. With installation, event and conference lighting systems getting larger and larger, what about if you have more than one universe of DMX? W-DMX™ from Wireless Solution supports up to 64 universes of DMX and RDM wirelessly with its 'Pro' line of products, 32 with the 'BlackBox' series and 16 with the 'Micro', meaning that to add universes, all you have to do is add more transmitter boxes. Once the system is set-up with our 'one-button-to-go' interface, which is incredibly simple to use, W-DMX™ receivers will remember which universe they are connected to, day-in and day-out.

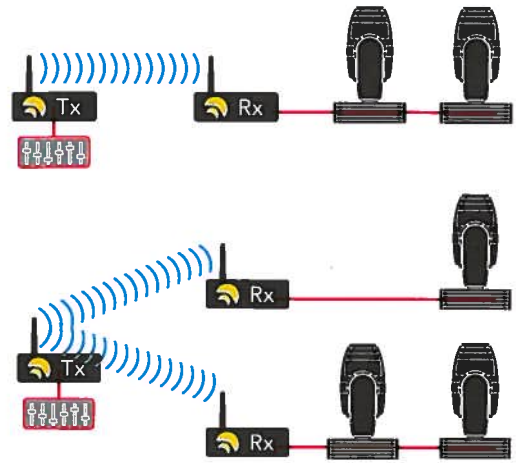
With distributors, specialists and support staff situated in all major countries around the world, W-DMX™ is available at a distributor near you, and service and support is always a short phone call or email away.

Point-2-Point operation

Basic Point-2-point systems are used when you want to send wireless DMX data from a console to a single receiver. As the receiver accepts all 512 DMX channels from the transmitter, you can easily daisy chain more fixtures by cable from the fixture with the wireless connection. By a simple button push, the units are paired up and ready to go. Even when cutting the power to the system, the units will keep their last known configuration and be up instantly once switched back on.

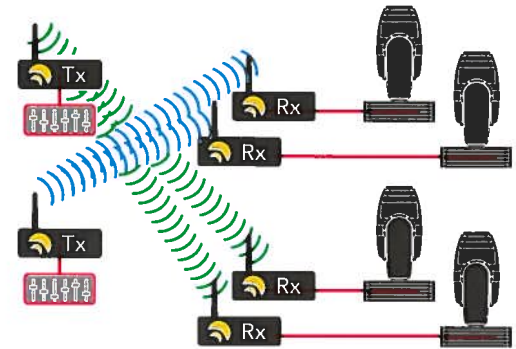
Need more receivers?

Simply add as many receivers as desired to the transmitter, assigning them with a simple button push.

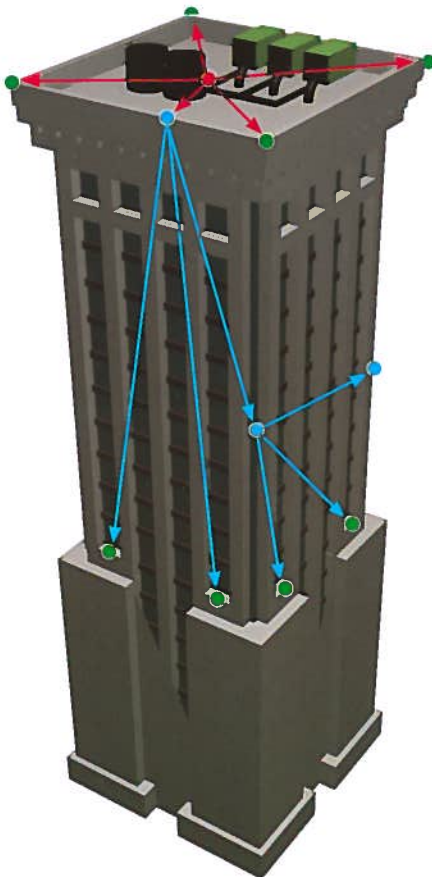


Multipoint-2-Multipoint operation

Up to 32 universes of DMX can be transmitted simultaneously using a multipoint to multipoint approach. All receivers in a multipoint system will listen only to the designated transmitter without any delays or interference from the systems working alongside. Each W-DMX™ unit is equally capable of receiving all 512 DMX channels at full 44Hz rate with virtually no delay. Regardless of the amount of units, the setup is still as simple as when running a single point to point system. Mix and match – the setup is just as easy.



Coverage everywhere



In this scenario there is one transmitter on the ceiling which transmits a signal to four directly receiving receivers.

The transmitter also sends the signal to a repeater which in its turn sends the signal to two receivers and to one more repeater.

This pattern can be repeated as many times as necessary.

- Repeater
- Transmitter
- Receiver

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Authorized dealer

WIRELESS SOLUTION
MADE IN SWEDEN



W-DMX™ RANGE 2010-2011



There is **only one** original
W-DMX™