DOUG FLEENOR DESIGN
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Marconi wireless DMX system

models: marcTX, marcSP, marcLV

The Marconi wireless system from Doug Fleenor Design allows DMX512 distribution where cabling is not practical. Doug Fleenor believes cable is more reliable than wireless, but recognizes the advantages of wireless systems such as quicker setup, building top to building top (or cross river) communications, fewer wires to tape down, as a backup to a cable link, for troubleshooting, for focusing before the FOH cables are installed, and so on.

Doug Fleenor has been looking for a wireless solution for his clients for years and has decided the W-DMX system from Wireless Solution of Sweden meets his criteria. Marconi wireless components use Wireless Solution technology mated with Doug Fleenor Design interface components to form a reliable wireless system with great customer support.

Marconi components are 100% compatible with W-DMX products from Wireless Solution as well as from other W-DMX partners.

The Marconi transmitter *(Marconi TX)* sends 512 DMX channels (one universe) wirelessly to any number of W-DMX receivers. Up to 16 transmitters can be used in a single venue for at total of 8,192 DMX channels.

The *Marconi TX* can be table top or truss mounted (with a C-clamp or half coupler). A 2 dB rubber whip antenna is standard. Gain antennas are available to increase transmission range. The attached power supply operates from 100 to 240 volts AC.

The Marconi splitter *(Marconi SP)* receives all 512 channels (one universe) of DMX wirelessly through the W-DMX technology and provides three isolated DMX512 outputs. Outputs are isolated from each other using 2500 volt optical couplers and 600 volt DC/DC converters.

Indicators include POWER, ASSIGNED (lights when the unit is assigned to a transmitter), RF LINK (lights when the assigned transmitter is on and within range), and DMX512 (lights when DMX512 is available at the outputs) . A 2 dB rubber whip antenna is standard. Gain antennas are available to increase reception range. The attached 100 to 240 volts AC.

The Marconi "low voltage" *(Marconi LV)* is identical in performance to the *Marconi SP* but is powered by low voltage instead of line voltage and has only one DMX512 output. The *LV* is designed to mount to our *LED300* power supply but can be used with any 24V system that provides power on pins 1 and 4 of a four pin XLR (color scroller for example). The *LV* may also be powered by an optional external supply.

RF characteristics

- Adaptive Frequency Hopping Spread Spectrum (AFHSS)
- Frequency hop period: 910uS
- Frequency range: 2402-2479MHz (ISM band)
- RF output power: 275mW (24dBm)
- Channel bandwidth: 1 MHz
- Sensitivity (at 0.1% packet error rate): 95dBm

MANUFACTURER MEMBER
ESTA
ENTERTAINMENT SERVICES & TECHNOLOGY ASSOCIATION

W-DMX

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