

# **CITY**

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# **THEATRICAL**

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# **I N C**

December 19, 2007

Federal Communications Commission

To Whom It May Concern,

Re: Request for equipment authorization per DA 00-1407

We hereby request modular approval for the City Theatrical Inc. # 5692 SHoW DMX Radio Transceiver International Version. Pursuant to this request we confirm the following:

1. The City Theatrical Inc. # 5692 SHoW DMX Radio Transceiver International Version modular transmitter has its own shielding covering the RF section to prevent undesirable coupling to the RF components.
2. The City Theatrical Inc. # 5692 SHoW DMX Radio Transceiver International Version modular transmitter has buffered modulation/data inputs. The product has its own microcontroller that receives data from the host product and controls the data rate to the radio transceiver. Therefore it is not possible to "over-modulate" the radio transmitter.
3. The City Theatrical Inc. # 5692 SHoW DMX Radio Transceiver International Version modular transmitter has its own power supply regulation. It takes a nominal 5 volt input supply and regulates this to 3.3 volts and 2.8 volts onboard.
4. The City Theatrical Inc. # 5692 SHoW DMX Radio Transceiver International Version modular transmitter complies with the antenna requirements of Section 15.203 and 15.204(c). The module shall be used only with the Nearson 2.4GHz Swivel Antenna – 151 Model, part # S151AH-2450S, Nearson 2.4GHz Antenna – 141 Model, part # S141AH-2450, and Champion part # WCP2400-MMCX4. Two of these antennas use the reverse SMA connector and one uses a permanently attached cable. The approved antennas are listed in the user manual.
5. The City Theatrical Inc. # 5692 SHoW DMX Radio Transceiver International Version modular transmitter has been tested in a stand-alone configuration with no external case.

**475 BARELL AVENUE, CARLSTADT, NJ 07072**  
**800/230/9497 201/549/1160 201/549/1161 FAX**  
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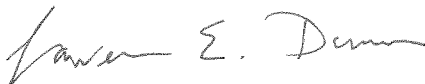
6. The City Theatrical Inc. # 5692 SHoW DMX Radio Transceiver International Version modular transmitter will be labeled with its own FCC ID number and, if the FCC ID is not visible when the module is installed inside another device, then the outside of the device into which the module is installed will also display a label referring to the enclosed module. This exterior label will use the following wording: "Contains FCC ID: VU65692".

For OEM use, the City Theatrical Inc. # 5692 SHoW DMX Radio Transceiver International Version modular transmitter will be provided with instructions that state: "The FCC ID label on the CTI # 5692 must be visible through a window on the final product or it must be visible when an access panel, door or cover is easily removed. If not, a second label must be placed on the outside of the final product that contains the following text: "Contains FCC ID: VU65692"

7. The City Theatrical Inc. # 5692 SHoW DMX Radio Transceiver International Version modular transmitter has been designed such that all the parameters that affect FCC compliance are in control of the on-board microcontroller. The module will be provided with adequate instructions to explain how to use it but compliance with the FCC requirements will be assured by the design of the module. None of the optional settings available to the host product would cause the module to be non-compliant.
8. The City Theatrical Inc. # 5692 SHoW DMX Radio Transceiver International Version modular transmitter complies with applicable RF exposure requirements, and will be provided with specific instructions for installation and operation for users, installers and other interested parties to ensure compliance. The device operates at a low output power and the user manual contains the following warning:

**"RF Radiation:** The Product is an intentional radiator of Radio Frequency (RF) energy. In order to limit RF exposure to personnel in the immediate area, the Product should be located and installed such that a separation of at least 20 centimeters is maintained between the Product's antenna and personnel in the vicinity of the device. The antenna used for this transmitter must not be co-located or operated in conjunction with any other antenna or transmitter."

Sincerely,



Lauren E. Dunn – Head of Engineering  
City Theatrical Inc.