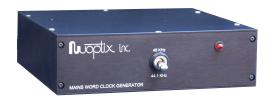# Mains to Word Clock Generator

Description:
The Nuoptix "Mains to Word Clock Generator" provides either a 44.1KHz or 48KHz word clock that is synchronized to the power mains. This word clock can be used to lock digital audio reproducers such as DA88/98 or hard drive systems to a line synchronized optical sound track recorder. The output connector is a BNC providing a TTL output.

Operation:
Apply power to the unit (100-240VAC). The unit requires five seconds to initialize after which time the output can be used. The red LED should illuminate after the initialization period and remain lit thereafter. If the unit fails to initialize, the red LED will never illuminate. If the unit ever loses sync, the red LED will begin to flash and will remain flashing until reset. To reset the unit, unplug the power cable for 5 seconds and then reconnect the power. The unit will automatically recognize the power line frequency, 50Hz or 60Hz, and adjust accordingly. Toggle the front panel switch for either a 44,100Hz or 48,000Hz output.

Remember, the power going to the "Word Clock Generator" must be the same power source as the power going to the camera. If the camera is powered by a UPS, then the "Word Clock Generator" must also be powered from the same UPS. If the camera is powered from the city power grid, then the "Word Clock Generator" must also be powered from the city power grid and not a UPS.

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