

MasterCue V⁵ USB



Introduction.

The i2TX-1, i2TX-2 and i2TX-3 are hand held transmitters for use with the MasterCue V5 and compatible systems. They are all identical, except for the number of switches / buttons fitted (the last digit of the model number indicates the number of buttons). The same circuit board is used for all 3 models. The board has 4 positions in total although no four button model exists currently.

Overview.

The MasterCue V5 *USB* is the true professional's presentation cueing system. Featuring USB interfacing, the MasterCue V5 *USB* can now connect to computers and directly control PowerPoint presentations as well as providing visual and audible cues.

The V5 *USB* has continued to evolve throughout all MasterCue range models, building on such strengths as the robust case and the hard-wired remote controls.

If a production intercom system is being used, the audible cues can be injected into the operators headset using the Comms Loop-through feature.

Transmitter detail.

The transmitter is operated from a standard 9V alkaline battery. Button presses are recognised by simple control circuitry and a PIC is used to turn the transmitter on and off with a short message. The PIC limits the number of messages so that if a button is held down, transmission stops within 5 seconds.

The transmitter is an OEM SIL chip which contains a Phase Locked Loop using a crystal oscillator tuned to 434.075 MHz. CMOS data presented to the OEM chip is (when enabled) transmitted at 434.074 MHz using FM. The antenna is part of the PCB using a loop design with added capacitance for matching/tuning and in line resistance to limit power of the wanted transmissions.