

XMTR12B & XMTR12C Quick-start Guide

These controllers can fire up to 144 consecutive cues organized on 12 digital channels of 12 cues each. The controller can be configured by the user to operate on any single channel or on any specific range of the 12 available channels. The configuration is saved in non-volatile memory even when power is off. So it need not be entered before each use.

Configuration Procedure:

Each transmitted controller command contains a system code, channel number, and cue number. The system code is fixed in software at the factory and cannot be changed by the user. The range of channel numbers on which the controller operates is defined by 3 parameters: "Base Channel", "High Channel", and "Low Channel". Each of these can be assigned the number 1 through 12 by pressing the appropriate numerical key during the following configuration procedure:

1. **Configuration is started** by pressing a special code on the keys during the LED scan period that follows power-up. The special code consists of pressing the 5 and 11 key simultaneously. This code can only be sensed during the initial LED scan after power-up.
2. **Configuration parameters are entered** by pressing 3 digits in sequence. The parameters should be entered rapidly, as there is a timeout period of just a few seconds for parameter entry. If this period expires before entry is completed, the controller must be power cycled and configuration restarted as above. Configuration parameters are entered in the following order:
 - a. **Base Channel** - the channel on which the controller starts after power-on.
 - b. **High Channel** - the last channel the controller uses before cycling back to "Low Channel" after firing cue 12 on "High Channel".
 - c. **Low Channel** - the next channel the controller uses after firing cue 12 on "High Channel".

The controller prompts the user for entry of each parameter by lighting continuously the "1", "2", or "3" indicator for "Base", "High", or "Low" channel, respectively.

3. **Configuration Examples**
 - a. **12-hit unit on fixed channel 3** - key in 3,3,3 after entering the special code.
 - b. **144-hit unit operating on channels 1 through 12** - key in 1,12,1.
 - c. **72-hit unit operating on channels 1 through 6** - key in 1,6,1.
 - d. **84-hit unit operating on channels 3 through 9, starting on Base Channel 5** - key in 5,9,3.

After completion of configuration or timeout, the battery flashing indicator resumes.

Operating Procedure:

1. **Turn Power On** by momentarily pressing the “PWR / RST” button.
2. **Configuration Is Displayed** as Base Channel, High Channel, and Low Channel numbers flashed in sequence before the LED scan begins.
3. **Fast LED Scan** verifies that all red and green indicators are operational.
4. **Battery Status & Cue Number** are displayed as a flashing numerical indicator. Four flashes = fresh battery. One flash = weak battery. Next cue # is indicated by green. Current channel # is indicated by orange.
5. **Change Channel if desired** to a different number by pressing the “PWR / RST” button momentarily (1/2 sec or less), followed by the desired channel number. The number must be one of the controller’s configured channels. The next cue will automatically change to cue 1.

If “PWR / RST” is pressed twice without a numeric entry, the current channel will change to Base Channel, and the next cue will change to cue 1.

6. **Set Next Cue** to a different number if desired by momentarily pressing a numerical button corresponding to the desired cue number.
7. **Arm the Controller** by pressing the “Arm” button once. This also places the controller in single-shot (semi-automatic) mode.
8. **Select Machine-gun (automatic) Firing Mode if desired** by pressing the “Arm” button again. If this mode is selected, the numeric cue indicator will begin flashing at the selected automatic firing rate. This rate can be changed on the fly by pressing a numeric button, where “1” corresponds to 1 shot / sec, and “12” corresponds to 20 shots / sec. The selected firing rate is remembered in non-volatile memory even while power is off. So it is not necessary to perform this entry each time machine-gun fire is selected. Channel may be changed as in section 5 above.
9. **Fire Cues Sequentially if desired** by pressing the “Fire” button. In single-shot mode, each button press fires the current cue and then advances to the next cue in preparation for the next depression of the button.

In machine-gun mode, cues are fired sequentially at the selected automatic firing rate as long as the “Fire” button is held down.

10. **Fire Cues Randomly if desired** in single-shot mode by pressing the numeric button corresponding to the cue to be fired. The cue will fire immediately (without pressing the “Fire” button). Cues may be fired on different channels in single-shot mode by first selecting the channel as in section 5 above.
11. **Set Controller to “Safe” mode** by pressing the “Arm” button once if in machine-gun mode, or twice if in single-shot mode. “Safe” mode is indicated by green flashes on the numeric indicators.
12. **Turn Power Off** by holding the “Pwr / Rst” button down for at least 0.75 sec. If no buttons are pressed for a period of 90 minutes, power will turn off automatically.