



MT38U0106B 1

DATA SHEET

Macro Technology Ltd.
Technical Marketing Dept.
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Description

MT38U0106 is an universal remote control transmitter with CMOS Technology which is designed for general purpose of infrared application. The device consists an 8-bit MCU with MACRO-SURC core. It can support up to maximum 6 function keys and 83 different type of system waveforms. It provides a cost effective **URC solution for TV system in a single chip.**

Features

- CMOS Technology With Low Power Consumption
- 3 Volt Operation Voltage.
- Build in MACRO-SURC core
- Support up to maximum 6 function keys
- Support up to 83 different system waveforms
- Cover more than 1300 different codes for TV system.
- Quick Power Search for the IR system code list.

Application

Universal Remote Controller for TV system in Europe Market.



Key Characteristic

KEY #	KEY NAME	DESCRIPTION
01	CH+	Channel Up
02	CH-	Channel Down
03	VOL +	Volume Up
04	VOL -	Volume Down
05	POWER	TV Power On/Off
06	MUTE	MUTE Function

Application Manual

Power Quick Search:

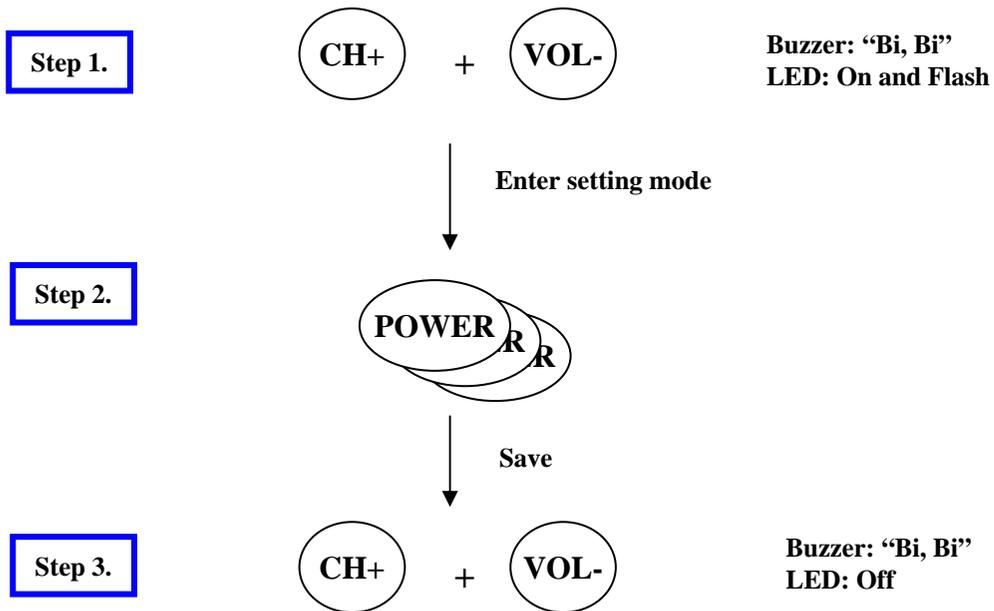
1. Turn on the TV and point the remote toward it.
2. Press **CH+ & VOL-** buttons simultaneously for about 2 second until it has “beep, beep” sound and LED flash. It stands for entering the **Quick Search Mode**.
3. Slowly press the **POWER** key repeatedly until the TV turns off. When this happens a correct code may have been found. Turn your TV on again and test functions **CH+**, **CH-**, **VOL+**, **VOL-**. If these functions do not work correctly it is necessary to find another code from the available library until all the functions work.
4. When all the functions work, it can exit the setup function by pressing the keys **CH+ & VOL-** simultaneously for about 2 second until it has “beep, beep” sound and LED off. This will save the code for your TV.

Note:

1. Each time you press the **POWER** key, it will skip to the next code and transmit a Power signal to turn off your TV.
2. If you fail to stop pressing the **POWER** key when your TV has switched off, switch your TV on again manually and press the “**MUTE**” 2 times and press **Power**. It can send one previous code data. Repeat to press Mute x2 & Power until the TV off again. Then, press **CH+ & VOL-** to lock in the code.
3. If no key on your remote is pressed for 30 seconds, the programming process will stop automatically, and you will have to start over.
4. For the quick search function, it will stop after searching one cycle from stored code.
5. ~~Auto Power Search Mode doesn't function on this Mode.~~



⇒ Operating Flow





Version History

DATE	VERSION	DESCRIPTION	REMARK
08-2002	V1.00	ORIGINAL	
12-2006	V2.10	Update Note of operation	

Macro Technology Sales Network

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