

MU 2830G DATA SHEET (Global)

Macro Technology Ltd.
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⇒ DESCRIPTION

MU2830G is an universal remote control transmitter with CMOS Technology which is designed for general purpose of infrared application. The device consist an 8-bit MCU with MACRO-SURC core. It can support up to maximum 72 function keys and 180 different types of system waveforms. It provides a cost effective **URC solution for 12 systems in a single chip.**

⇒ FEATURES

-  CMOS Technology with Low Power Consumption
-  3-Volt Operation Voltage.
-  Build in MACRO-SURC core
-  Support up to maximum 72 function keys
-  Support up to 180 different system waveforms
-  **Store up to 13 Device keys**
-  Cover more than 6000 different models for TV, TELETEXT, VCR, Satellite, CABLE TV, Receiver Amplifier, Hi-Fi System, CD, LD, MD, Tape & DVD.
-  Code Table setup
-  Quick and **Auto** Power Search Mode

⇒ APPLICATION

MU2830G is Universal Remote Controller for TV, Teletext, VCR, Satellite, Cable TV, Receiver Amplifier, Hi-Fi Audio System, CD Player, Laser Disc, MD desk, Tape & DVD Player in Global Market.

A. GENERAL FUNCTION

Code Stored

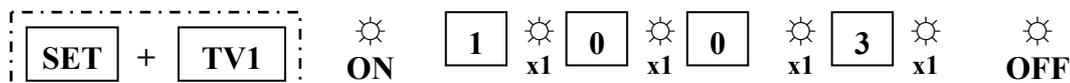
1. For the **Manual Setup Mode**, all brand code can be stored in any Device (E.g. TV1, VCR, DVD, etc.)
2. For the **Quick Power Search Mode**, it can search their device's code range only. (E.g. TV, search range is from TV code's library.)

Others

1. Backlight LED: Press "LIGHT" Key, the back light LED will be turned on. If you press "LIGHT" key again. LED will be turned off.
2. REC Key:
 -  For the Record Function in VCR1 and VCR2, you should press and hold [REC] and [PLAY].
 -  For other devices, you should press [REC] key only. (Such as VCR3 and other devices)

B. MAUAL SETUP

1. Look up the four-digit code for your brand and type of equipment in the Code Tables on the following pages.
2. Press and hold the **[SET] Key and Device Key** (e.g. TV, VCR, SAT, etc) until the indicator lights turn on.
3. Press the **four-digit** code for your equipment. Each time you press, LED flashes once.
4. If the LED turns off, it indicates that the code is accepted.
5. If the LED flashes two times and then on, it indicates that the code is wrong. You need to repeat the step "3" again.
6. Example: TV, Code 1003

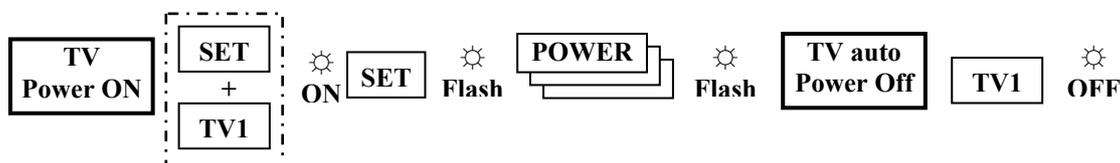


Note:

- If no key on your remote is pressed for 10 seconds, the programming process will stop automatically. You will have to start over.
- Exit the setting mode: Press any device key in the setting process. LED turn off.

C. POWER SEARCH SETTING (QUICK and AUTO)

1. Turn on the equipment you want the remote to control, and point the remote toward it.
2. Press and hold the [SET] Key and Device Key (e.g. TV, VCR, SAT, etc) until the indicator lights turn on.
3. Press and release the [SET] Key. LED will flash. It stands for entering the Power Search Mode.
4. **Quick Power Search Mode**: Each time you press the [POWER] Key, a new code number will be transmitted. Keep trying until your Device operates by receiving the transmitted signal. (You can power on the device again by hand and test the CH+ function works, playback starts, etc.) Be patient as you do this; it may take about more than 100 tries until the correct code number is located.
5. **Auto Power Search Mode**: Hold the [POWER] key over 3 second in step 5. LED will turn on and then flash by 0.5Hz. You can release the [Power] key. Code will be transmitted one by one automatically. If you find that the equipment is Power OFF, you can press any key to stop the Auto Power Searching.
6. If you want to change the direction of the searching mode, you can press and release the [SET] key. (Only for Quick Power Search Mode).
7. When the correct code is found, press and release any **DEVICE** Key to store the code number. LED will turn off.
8. Example: Television (TV1)

**Note:**

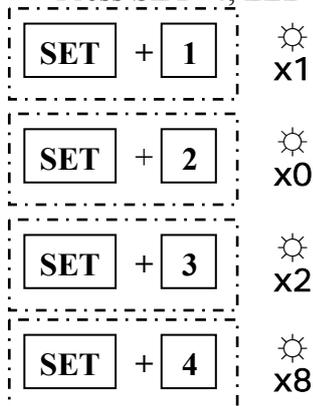
- If no key on your remote is pressed for 30 seconds, the programming process will stop automatically, and you will have to start over.
- If the LED indicator is off on the setting mode, it stands for stop the setting mode.
- If the code is not match with your equipment, then repeat step 1 to 8.
- If the code searching is going to the end or the first code, it will stop and exit the setting mode automatically. LED will turn OFF.

D. READING THE PROGRAMMED CODE

1. Select the Device Key, e.g. TV1
2. Press and hold the **SET** key, and press Key 1, 2 or 3. Release all key.
3. LED flashing time stands for Code Number.
4. If LED doesn't flash, it stands for number 0.

Example: TV Code=1028

- Press **SET+1**, LED flash 1 time; (☀: **LED Flash**)
- Press **SET+2**, LED doesn't flash;
- Press **SET+3**, LED flash 2 times.
- Press **SET+4**, LED flash 8 times.


DEVICE CODE RANGE

After resetting or battery installation, the device code range is as follows:

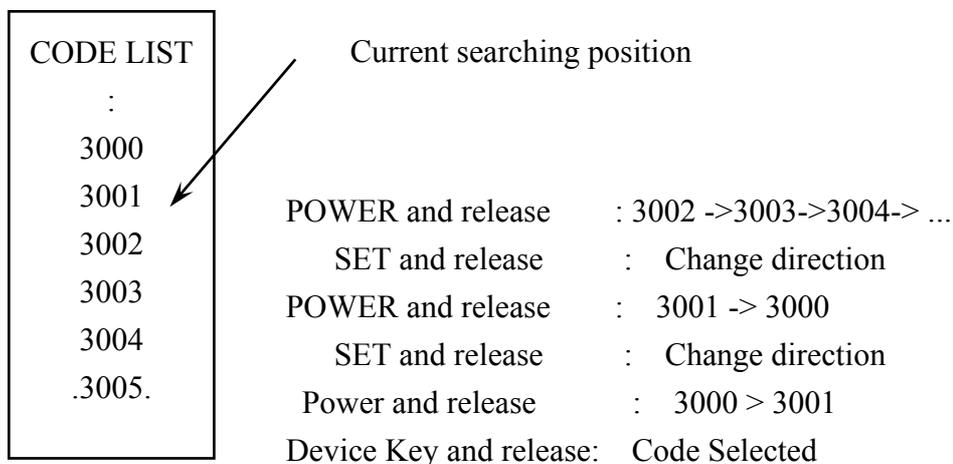
Device	Range (Searching)	Remark
1. TV1	1000-1372	Global
2. TV2	1192-1372	CHI, US
3. TV3	1000-1372	Global
4. VCR1	3000-3093	Global
5. VCR2	3000-3093	Global
6. VCR3	3000-3093	Global
7. SAT	4000-4069	Global
8. CATV	4052-4069	Global
9. DVD1	6000-6148	Global
10. DVD2	6000-6148	Global
11. RCVR	8029-8064	US
12. AUDIO1(AUX1)	8000-8064	Global
13. AUDIO2(AUX2)	8000-8064	Global

⇒ INITIAL RESET

1. After resetting or battery re-installed, LED will flash within 3 second.
2. After Power on or RESET, it will be defaulted at "RCVR", AVR4002, 8063

⇒ QUICK POWER SEARCH CONCEPTS

1. During the power search mode, if you repeat to press and release [POWER] key, the power code data is transmitted one by one.
2. If you press and release [SET] key, the power code data is transmitted one time in reverse direction.
3. When you press and release Device Key, the current code data is selected.



⇒ Version History

DATE	VERSION	DESCRIPTION	REMARK
1-04-2004	V1.0	ORIGIN	
12-04-2004	V2.0	Change the Key #	
12-08-2005	V2.1	Change the 2Hz to 0.5Hz	

⇒ Macro Technology Sales Network

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