MU 2855G

DATA SHEET

(CODE TABLE with Message)

Macro Technology Ltd.

(OCT. 2006)

MU2855G

⇨ Description

MU2855G 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 & LCD driver. It can support up to maximum 72 function keys and 280 different type of system waveforms. It provides a cost effective **URC solution for 15 systems in a single chip.**
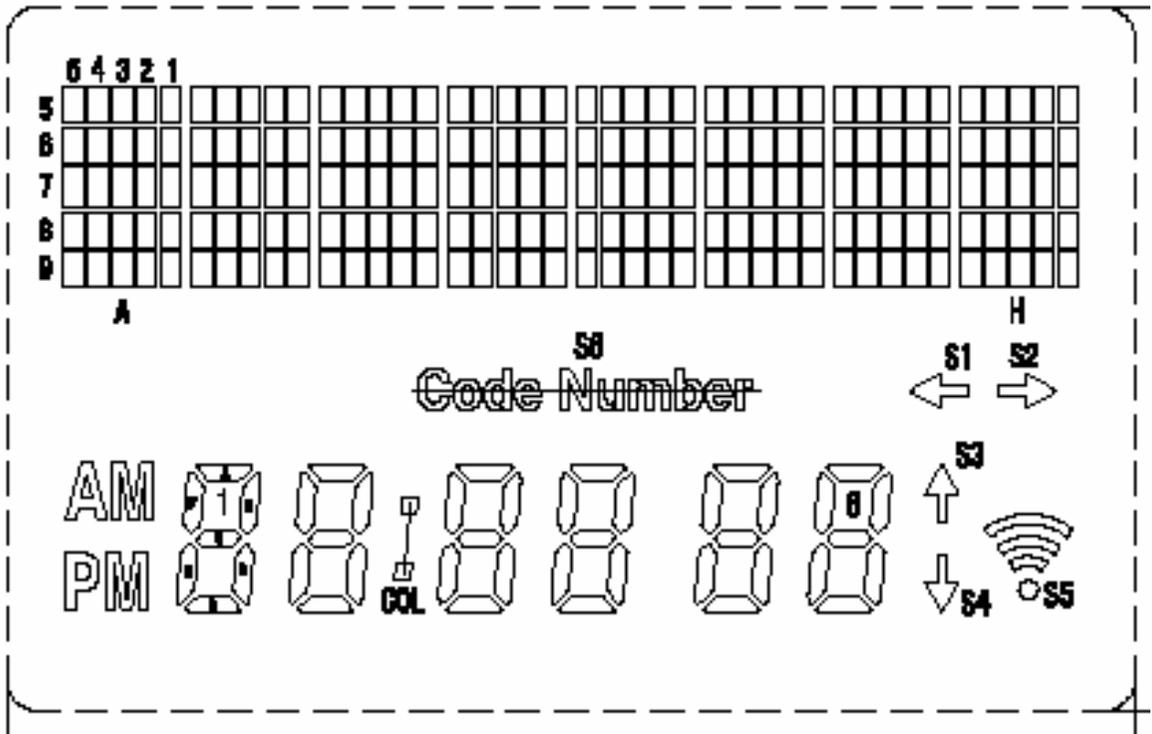
⇨ Features

- CMOS Technology With Low Power Consumption
- LCD Display
- Build in MACRO-SURC core
- Support up to maximum 72 function keys
- Support up to 280 different system waveforms
- TWO stand-alone Device Key for controlling 7/12 Devices
- Store up to 10 devices
- Cover more than 14000 different Codes for TV, TELETEXT, VCR, CABLE TV, Satellite TV, Receiver Amplifier, DVD Player, Hi-Fi System, CD Player, LD, MD, Tape & Home Automation etc.
- AUTO Power Search.
- Brand Name Search function
- Manual code setup
- Calendar & Time function
- Message Display "THANK YOU CHOOSING"
- Device Lock / Unlock

⇨ Application

Universal Remote Controller is for TV, TeleText, VCR, Cable TV, Receiver Amplifier & DVD Player in Global Market.

⇨ LCD Display

NOTES:
1. VIEWING ANGLE: 6:00 O'CLOCK
2. DISPLAY MODE:POSITIVE/TRANSMISSIVE/HTN
3. DRIVING VOLTAGE: 3.3V,DUTY:1/16,BIAS:1/4

⇨ Operation Manual

A. CALENDAR AND TIME SETTING

1. Press **[DEVICE]** (DEV1 OR DEV 2) Key to select the Calendar Mode. LCD will show "TIME". Or press **[TIME]** Key to select directly.
2. Press **[SET]** Key, "SETUP" will show on the LCD and flashing for 1 second.
3. "2006" will show on the LCD and flashing. You can press [UP] to increase the number of year, or [DOWN] to decrease.
4. Press [SET] key to save the data and then setup the next data, Month. The charter of Month will be flashing. Press [UP] or [DOWN] to adjust the data.
5. Setup Day, 12/24 mode, Hour, Minute are same as step 4. After pressing the [SET] key to store the data of Minute, it will exit this Setting Mode.

Note:

1. 12/24hr setting: Use [LEFT] or [RIGHT] key to select 12 or 24 format.
2. 12 format should be shown AM or PM. 24 format should not be shown AM or PM.

B. CODE SETTING

B1: Brand Name Search

Power on or put the tape in the Device which you want to set up. (e.g. TV)

1. Press the **DEVICE (DEV1 or DEV2)** key to select the devices you want to control. If you have individual Device Key, such as TV1,TV2,VCR1, etc, you can select it directly.
2. Press the **[SET]** Key, LCD will show "SETUP" once and "BRAND ?" will show on the LCD and flashing for 1 second. Then it will show "ALL" on the LCD or the last brand name which you set at the last time.
3. LCD will show "←", "➡", "⬆" and "⬇". You should press " >" or "< " key to select brand name first. Then you can press the "^" or "v" to select the related code.
4. Press and release the ">" or "< ", it will show the next or previous brand name in the library. If you press and hold ">" or "< " key, the Brand Name will be shown quickly by forward or backward.
5. **BRAND name select (ABC): At the Brand Name selecting, you can press [2] once going to select "A" character's brand name "A.R.SYSTEM". Press [2] again, you can go to selecting "B" character's brand name "BAILE". 2(ABC), 3(DEF), 4(GHI), 5(JKL), 6(MNO), 7(PQRS), 8(TUV), 9(WXYZ).**
6. Press " ^ " or " v " key for code searching, the code number will show on the LCD and it will send "Data" automatically.
7. If your equipment can turn "On/Off" or "Play", you can press any function key (except [SET], "<", ">", "^" and "v") to test other function, such as CH+, CH-, VOL+, VOL-, etc.
8. If the code can't control the most function, you can repeat step 6-8.
9. After searching the corrected **CODE**, press **[SET]** Key to save and exit the setting Mode.
10. If you can't select your brand name or corrected code, you can follow Procedure B2.

B2: AUTO Code Search

1. Setup is as same as Procedure B1, step 1 to 3.
2. Select "ALL" in the brand name using "<" or ">".
3. Using the "^"or "v" to test the corrected code number from URC library. When you press "^"or "v" once, it will send one code Data. (Power or Play)
4. If you press "^"or "v" over 2 second and release, it will send code data one by one pre 2 second automatically.
5. When you find it can control the power or play function of your equipment, you can press and key to stop searching and test other function, such as CH+, CH-, VOL+, VOL-, etc.
6. After searching the corrected **CODE**, press **[SET]** Key to save and exit the setting Mode.

B3: Manual Code Setup

>   If you know the code number or Code List of your equipment, you can direct input the code number for quick setup.

1. Setup is as same as Procedure B1, step 1 to 3.
2. Select "ALL" in the brand name using "<" or ">".
3. Press the code number directly. The code number will show and flash on LCD.
4. After entering 4 digits code number, press [SET] key to save it. If the code is valid, LCD will show "OK" and exit. If the code is wrong, e.g. out of range, LCD will show "ERROR" and exit.

Note :
1. If you want to exit the Search Mode press DEVICE key any time.
2. If no key on your remote is pressed over 30 seconds, the programming process will stop automatically, and you will have to start over.
3. In the Auto Search Mode, the Brand Name can be shown cyclic; the Code cannot.
4. "Data" send automatically: In the setting mode, it will send the "POWER" data. If no "POWER" data, it will send "Play" data. If no "POWER" & "Play", it will no data to send.

⇨ **Special Function**
1.   Backlight LED: Press "LIGHT" Key, the back light LED will be turned on. If you press "LIGHT" key within 5 seconds, it will turn off LED. Otherwise, it will turn off automatically.
2.   Lock/ Unlock: It can lock or unlock the device code setting. After locking, it cannot set or change the device code.
       1.   Select the device key, (TV1) press and release [SET] key. Press [9] [9] [9] [1] for lock, press [9] [9] [9] [2] for unlock
       2.   Press [9] [9] [9] [8] for lock all device; press [9] [9] [9] [9] for unlock all device.

⇨ **General Features**
1.   Power On default: 1 JAN. 2006, 12:00:00 AM
2.   Screen Saver: It will display "TIME" if no key is pressed over 15 seconds.
3.   Stand-alone Device Key:
       ⇨   DEV1: "TIME" > TV1 > TV2 > VCR1 > VCR2 > SAT > CATV > DVD > TUNER > CD > TAPE > AUX ("TIME" + 11 Device keys)
       ⇨   DEV2: "TIME" > TV(1) > VCR(1) > SAT (SAT/CATV) > DVD > TUNER > TAPE ("TIME" + 6 Device keys)
       ⇨   If you press [DEV1] or [DEV2] once, you can press [<] for previous device or [>] for next device within 5 seconds.
4.   Transmitter Icon display: If it has DATA send, it will flash once.

⇨ **DEVICE CODE RANGE**
     After resetting or battery installation, the device code range is as follows:

Device		**Code Range**	**Remark (Initial)**
1.	TIME		1 JAN 2006
2.	TV1	1000-1313	1000
3.	TV2	1000-1313	1133
4.	VCR1	3000-3195	3036
5.	VCR2	3000-3195	3000
6.	SAT	4000-4477	4000
7.	CATV	5000-5080	5000
8.	DVD	6000-6216	6000
9.	TUNER	7000-7055	7000
10.	CD	8000-8123	8004
11.	TAPE	8000-8123	8000
12.	AUX	8000-8123	8000

  Remark:
    1.   For the **Manual Setup Mode**, all brand code can be stored in any Device (E.g. TV1, VCR, DVD, etc.), except "TIME".
    2.   For the **Quick Power Search Mode**, it can search their device's code range only. (E.g. TV1, search range is from 1000 to 1313)

⇨ Appendix

1 Version History

DATE	VERSION	DESCRIPTION	REMARK
10-2006	V1.00	ORIGINAL	

2. Macro Technology Sales Network

Macro Technology Ltd.
Rm. A5, 4/F, Sheung Shui Plaza, 3 Ka Fu Close,
Sheung Shui, Hong Kong
Tel: (852)2639 9800, 2639 9377   Fax: (852)2639 9733
Email: sales@macro-technology.com.hk