

Function:

- 1>. It is DIY kit. User need to weld it.
- 2>. Clock display. Display hour and minutes minute under normal circumstances on 4-Bit digital tube.
- 3>. Display seconds on LEDs.
- 4>. Hour,minute and second can be adjusted independently.
- 5>. Timekeeping function.
- 6>. 2-Channel independent alarm.

NOTICE:

- 1>. There are 13 short circuit pad marked J1 to J13. User can weld it by pin from other components such as metal film resistors or LEDs.
- 2>. DC2 on PCB is standby power.
- 3>. Input power is 4.5V-5.5V. If users don't use standby power ,you don't need weld VD1-2(1N5819) on PCB but need to weld pad which has marked "A".

Component Listing:

Component	Number	Parameter	Quantity
Electrolytic capacitor	C1	10uF	1
Ceramic capacitor	C2,C3	30pF	2
0805 Capacitor	C4,C6-C12	104	8
Electrolytic capacitor	C5	220uF	1
Electrolytic capacitor	C13	100uF	1
1*2P Male pin	DC5V	2.54mm	1
4Bit digital tube	DS1		1
74HC595	IC1-IC5	SOP-16	5
20P IC Socket	IC6		1
STC11F04		DIP-20	1
3mm LED	LED5,LED10,LED15,LED20, LED25,LED30,LED35,LED40, LED45,LED50,LED55,LED60	Red	12
3mm LED		White	48
Buzzer	LS1		1
S8550	Q1-Q7	SOT-23	7
0805 Resistor	R1-R68 R80	470ohm	69
0805 Resistor	R69-R73,R76,R76,R77,R79	10K	8
Metal film Resistor	R74,R75	10K	2

0805 Resistor	R78	5.1K	1
6*6*5 Button	S1,S2,S3		3
HC-49S Crystal	Y1	12MHz	1
1N5819	VD1-2		1
PCB			1
DS18B20	DS2	TO-92	1
IR receiver	H1	HX1838	1
Infrared remote control			1

Button Debugging Instructions:

Button S1: Reset button.

Button S2: Mode selection button

Button S3: Function control buttons

Mode(Display on first 2 Bits)	Function	Debug(Display on 2Bits from right)	Instruction
01	Display and Correction seconds	Correction seconds	It can be used as a stopwatch
02	Display and Correction minutes	Correction minutes	
03	Display and Correction hours	Correction hours	
04	Hourly timekeeping	0:Timekeeping at 00:00-23:00 1:Timekeeping at 7:00-22:00 2:Close Timekeeping	
05	Adjust the time speed	0-99 Position. Default 50 The higher the number, the faster time	
06	1-Channel Alarm Clock minutes adjustment	Display and adjustment	
07	1-Channel Alarm Clock hours adjustment	Display and adjustment	
08	2-Channel Alarm Clock minutes adjustment	Display and adjustment	
09	2-Channel Alarm Clock	Display and adjustment	

	hours adjustment		
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Infrared remote control instructions:

- 1>. Button “0” :Display status 0. 60pcs LED display overlay.
- 2>. Button “1”: Display status 1. 60pcs LEDs flash display.
- 3>. Button “2”: Display status 2. 60pcs LEDs water lights display.
- 4>. Button “U/SD”: Open/Close display 12 Hourly time LED(Red LED).
- 5>. Button “Power”:Close all display.
- 6>. Button “Mute”: Close all timekeeping function.
- 7>. Button “EQ”:Display current temperature.
- 8>. Button “Mode”:Enter debug status.

Infrared remote control debug instructions:

- 1>. Button “0-9”: Enter status 0-9(Reference “Button Debugging Instructions”).
- 2>. Button “Pre” and “Next”:Status plus 1 or minus 1. (Display on first 2 Bits)
- 3>. Button “VOL-” and “VOL+”: Debug(Display on 2Bits from right)
- 4>. Quit status and normal display.

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