B)：**Astro2**, when"Astro2 and "Start" icons blinking, you can choose the 2nd period ON time AM00:00-AM05:59 (DST AM01:00-AM06:59)

Remark: when in Astro1 time period, the "End" time is set at sunrise time, the Asrto2 will show " OFF", means can not set in Astro2 mode, (press "Enter" to confirm the setting) When "End" [icon] and "+00 " icons blinking, press ⬆ or ⬇ to choose ±10,±20,±30, ±40,±50 minutes before or later than the local sunrise time to TURN OFF the lights, Press" Enter" button to confirm the set.

Remark: When the Astro2 can not be set, the "Astro2" icon not shows on the LCD.

LOCATIONS/CITY CODES;

USA			
Code Area/City	**Code Area/City**	**Code Area/City**	**Code Area/City**
01 Alabama North	23 Illinois South	45 Missouri South	67 Pennsylvania West
02 Alabama South	24 Indiana (Eastern time zone)	46 Montana East	
03 Alaska		47 Montana West	68 Rhode Island
04 Arizona (no DST)	25 Indiana Southern (Central time zone)	48 Nebraska East	69 South Carolina
		49 Nebraska West	70 South Dakota East
05 Arkansas North	26 Iowa East	50 Nevada North	
06 Arkansas South	27 Iowa West	51 Nevada South	71 South Dakota West
07 California Central	28 Kansas East	52 New Hampshire	
	29 Kansas West	53 New Jersey	72 Tennessee West
08 California North	30 Kentucky East	54 New Mexico North	
09 California South	31 Kentucky West	55 New Mexico South	73 Tennessee East
10 Colorado North	32 Louisiana North	56 New York South	
11 Colorado South	33 Louisiana South	57 New York Upstate	74 Texas East
12 Connecticut	34 Maine	58 North Carolina East	75 Texas North
13 Delaware	35 Maryland East		76 Texas South
14 Florida North	36 Maryland West	59 North Carolina West	77 Texas West
15 Florida South	37 Massachusetts		78 Utah
16 Florida West	38 Michigan North	60 North Dakota East	79 Vermont
17 Georgia North	39 Michigan South	61 North Dakota West	80 Virginia East
18 Georgia South	40 Minnesota North	62 Ohio	81 Virginia West
19 Hawaii	41 Minnesota South	63 Oklahoma	82 Washington
20 Idaho North	42 Mississippi North	64 Oregon East	83 West Virginia
21 Idaho South	43 Mississippi South	65 Oregon West	84 Wisconsin
22 Illinois North	44 Missouri North	66 Pennsylvania East	85 Wyoming

CANADA			
101 Whitehorse, Yukon	102 Montréal, Quebec	103 Quebec	104 Charlottetown, Prince Edward Island
105 Ottawa, Ontario	106 Toronto	107 Barrie, Ontario	108 Iqaluit, Nunavut
109 North Sydney, Nova Scotia	110 Halifax, Nova Scotia	111 Calgary	112 Vancouver
113 Vancouver	114 Surrey	115 Winnipeg	116 Brandon
117 Moncton	118 aint John	119 St. John's	120 Yellowknife

Version 2022-1

Model: DIGITAL ASTRO TIMER

-Input: 100-240V AC 50/60Hz (2-prong standard plug),   - Output; 10A（max）
-Capacitor type load 10A（max）,   - Induction type load 8.3A（max）
-Power consumption - Standby mode: Max 0.15W，Working mode: Max 0.7W

WARNING!! To avoid electric shock and/or fire hazard
    1.Check that the electric outlet meets local electrical compliance
    2.Plug into 3-pronged grounded outlet
    3.Do not use this time for any application where a power failure could result in injury or death. (Example: medical equipment)
ATTENTION!!
    The timer is built with American DST (daylight saving time) built in.

1. Product info
A: LCD display
B: Operating panel
C: Input plug
D: Output socket
E: Photo sensor eye

D ← → D

C

2: Setting Buttons
Mode: Operation mode
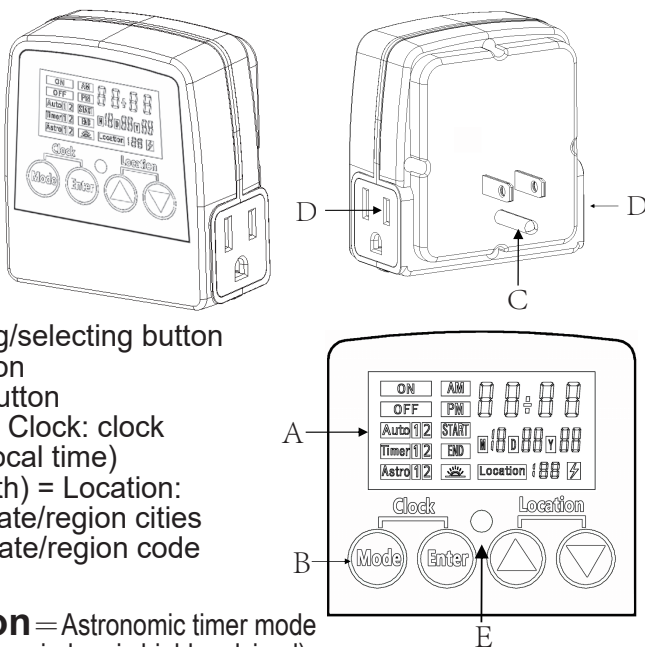   selection button
Enter: Confirm the setting/selecting button
⬆ : UP selection button
⬇ : Down selection button
"Mode" + "Enter" button = Clock: clock
    setting (set your local time)
⬆ + ⬇ (press down both) = Location:
    Choose nearest state/region cities
Astronomic mode (See state/region code
    chart below)

A

B

E

3,Quick setup option = Astronomic timer mode
(Install this transformer/timer indoor is highly advised)
3.1: Check the clock time is right as your local time, if not, refer to **CLOCK TIME SETTING**
3.2: Press " ⬇ + ⬆ =Location", choose your city code; (remember your city code on the instruction manual)
3.3: Press "Mode" button for 3 sec, the "Location" icon will flash 3 times: default working mode set, i.e. Lights will be ON at your local sunset time and OFF at 11:00pm; then ON at 3:00am early next day, and OFF at sunrise time

4, Introduction of key features of this transformer;
4.1: This transformer is built with automatic DST; No need to set the clock from time to time.
4.2: The Astronomic sunrise/set time of 85 cities in USA and 20 cities in Canada are programmed in. Provide precision dusk to dawn working periods in your location.
4.3: Thanks to the Astro timer, this transformer can be installed indoor which prolong the lifetime than outdoor.
4.4: This transformer built with temporary ON/OFF/Photo sensor Mode set, which helps checking lights/ line's working and connection.
4.5: This transformer provided more energy saving working options for some hobby users. Refer to detail setting as bellow.

5. General set up
5.1: **CLOCK TIME SETTING** (Press [Mode] + [Enter] =Clock): Set your local time by press ⬆ and ⬇ with(Enter)button;
5.2: ASTRO TIMER SETTING (⬆ + ⬇ =Location) Press down " ⬆ + ⬇ "button, the "Location"icon flash, press or button to choose your city code (refer to attached city code sheet) and press (Enter) for confirm the set. e.g. you are in New York South, so choose location code 56.
5.3: Default working mode is Lights will be on at your local sunset time, and turn off at 11:00pm; Turn on at 3:00am again, switch off when sunrise. Press "Mode" button for 3 sec, the "Location" icon will flash 3 times which means default mode set.
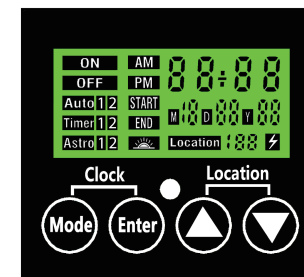
6：Operation buttons introduction ;
[Mode] : Modes choose button   [Enter] : setting confirm button
⬆ : up selecting button(hold down for quick selecting
⬇ : down selecting button(hold down for quick selecting)
"Mode+ Enter=Clock": local clock time set buttons;
" ⬆ + ⬇ =Location": City code setbuttons (Refer to the cities code sheet)

7; MODES SETTING in detail;
Press (Mode) button to select working mode, Always press (Enter) for confirm the mode set.
7.1： **ON: Always working mode**
7.2： **OFF: Always closing mode**
7.3： **Auto: Photo sensor mode (two periodsworking time options/Energy saving)**
A)： **Mode Auto1**; " Auto 1" icon blinking, press enter to confirm the ON by sensor automatic. (START) The lights ON by sensor as default ON way, so only need to set the END time; (END) The END icon blinking, press ⬆ or ⬇ to choose the clock "(--:--) and ☀ icons blinking, press the (Enter) for choosing the end time at Dawn with sensor.(END) Options end times, When END icon blinking, you may press" ⬆ or ⬇ "button to set the OFF time earlier than dawn time, optional close times are PM8:00-AM00:59 (DST are PM9:00-AM01:59)
B)： **Mode Auto2**： After "Auto1" set, it will turn to "Auto2"period set, the "Auto2" icon blinking after Auto1 first period working time set, there is a 2nd ON time option; The "Auto2 and "START" icon blinking, you can choose AM00:00-AM05:59 (DST are AM01:00-AM06:59) to open the lights again.The END time for 2nd period/Auto2 is by sensor at Dawn. Remark: When Auto1 end time is set at Dawn by sensor, the Auto2 will only show "OFF", means NO 2nd working period can be set.(press "Enter" to confirm the setting) And the "Auto2" icon will not show on the LCD.

7.4： **Timer mode; (set ON and OFF at any timefor testing and temporary using)**
A)： **Timer1**, press "mode", then press ⬆ or ⬇ button to choose Timer1, The "Time1 " and "Start"icon blinking, ready to set the ON time by press ⬆ or ⬇ and Enter button to confirm. "End" icon blinking, ready to set the OFF time bypress ⬇ or ⬆ and Enter button to confirm. You can set any time for working and OFF between 00:00-23.59; After Timer1 set, it will turn to Timer2 period working time set.
B)： **Timer2**, The "Timer 2" and "Start" icon blinking, ready to set the ON time by press ⬆ or ⬇ and Enter button to confirm. "End" icon blinking, ready to set the OFF time by press ⬆ or ⬇ and Enter button to confirm. You can set any time for working and OFF between 00:00-23.59
Remark: When there is same working time period in Timer 1 and Timer2 setting, it will be ignored by the system.

7.5： **Astro =Astronomic timer: Automatically tack the sunset and sunrise timing by selecting your location/city code Astro1 /2 (Astronomic timer two working periods, good to use when installed indoor and no light environment)**
A)： **Astro1**, press "mode", then press ⬆ or ⬇ button to choose "Astro1", the "Astro 1 "/"Start" / ☀ and "+00 " icons blinking, press ⬆ or ⬇ to choose ±10,±20,±30,±40,±50 minutes before or later than the local sunset time to TURN ON the lights, Press" Enter" button to confirm the set."End" ☀ and "+00 " icons blinking, Turn OFF at your local sunrise time, press "Enter" to confirm the set. Options for "End" time: when " End" icon blinking, you can choose PM8:00-AM00:59 (DST PM9:00-AM1:59) to OFF.