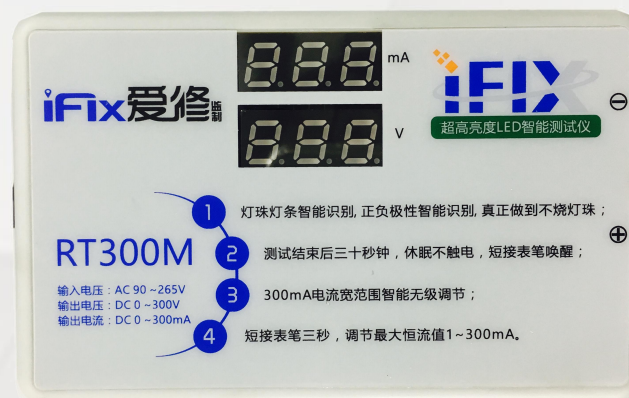


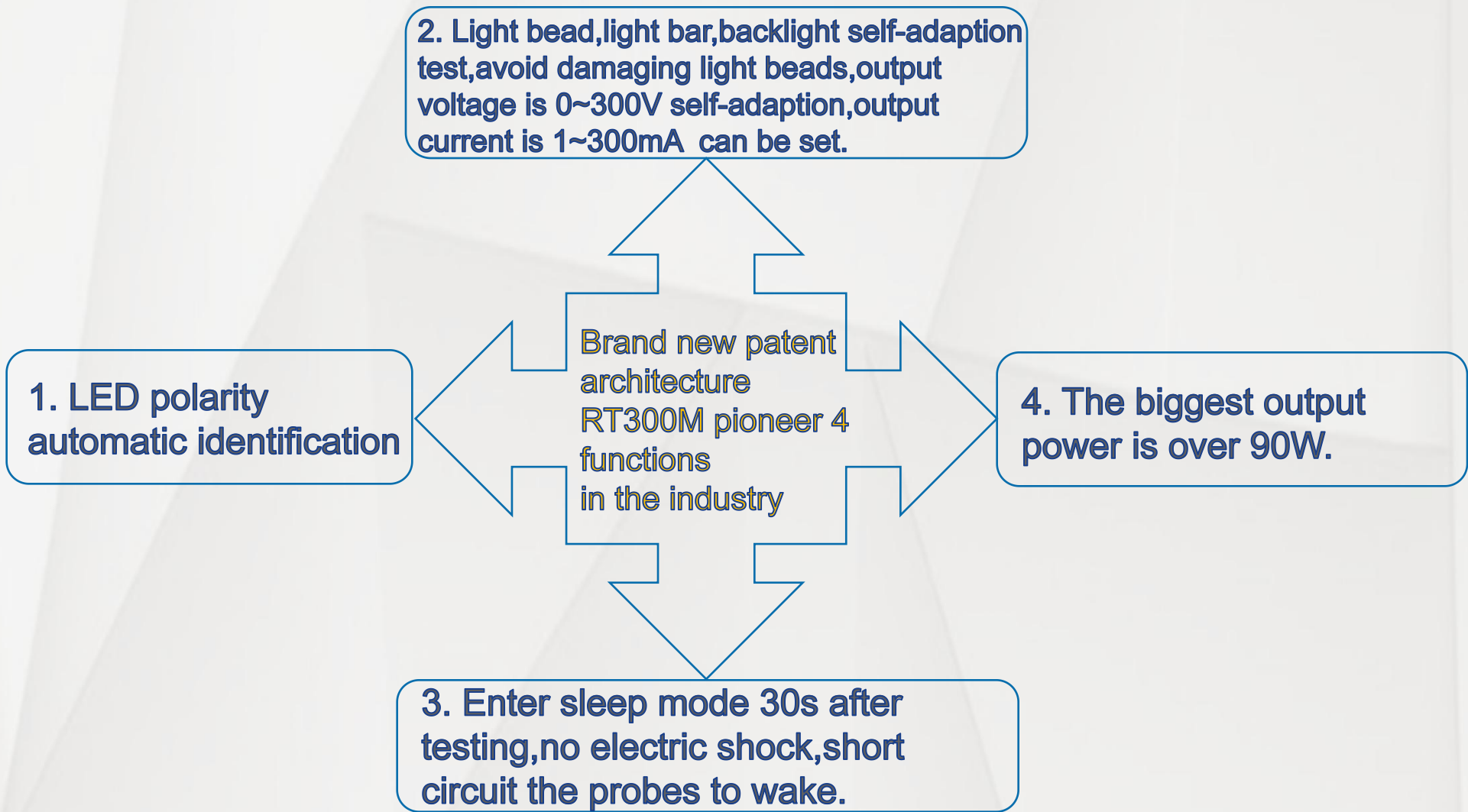


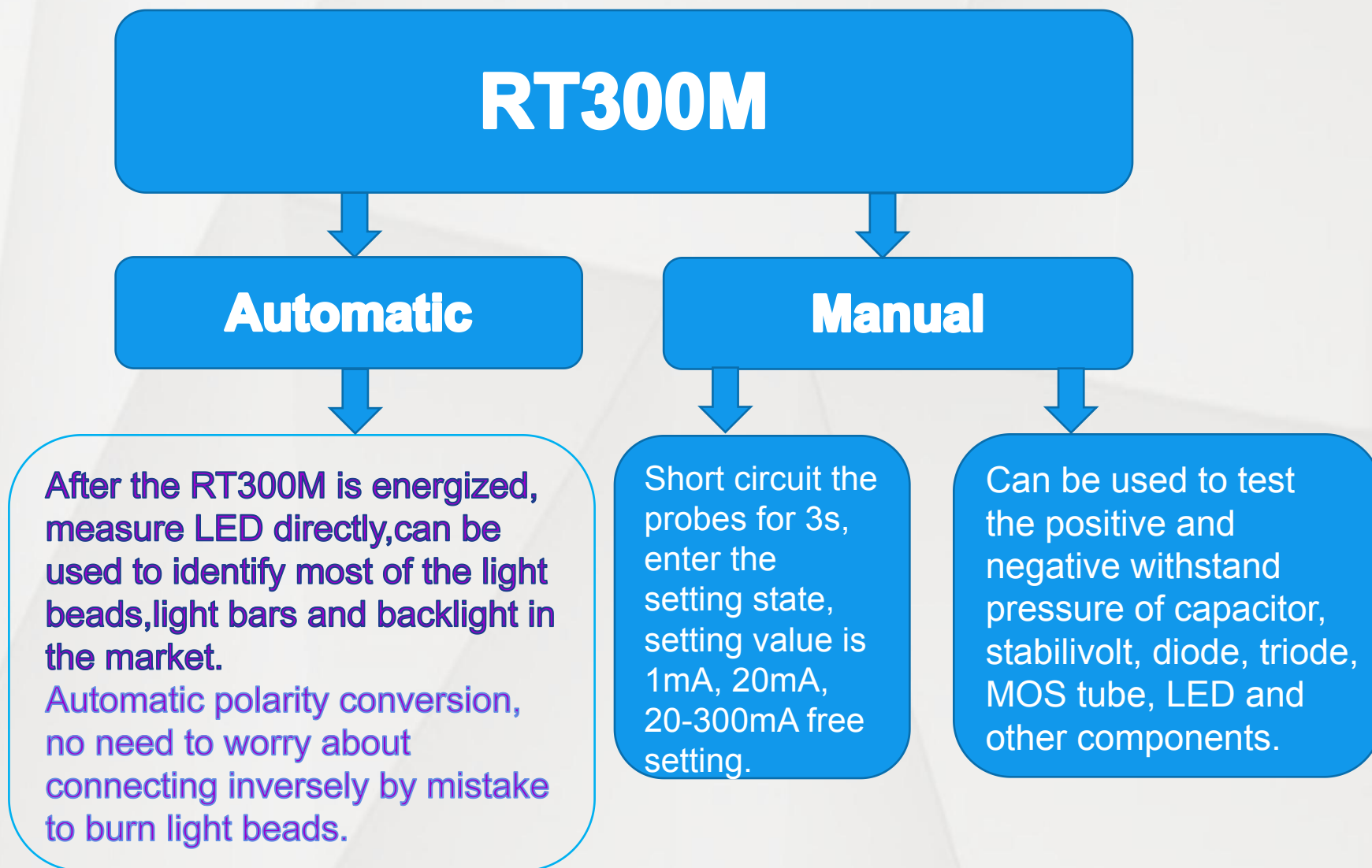
广州市海柯电子有限公司

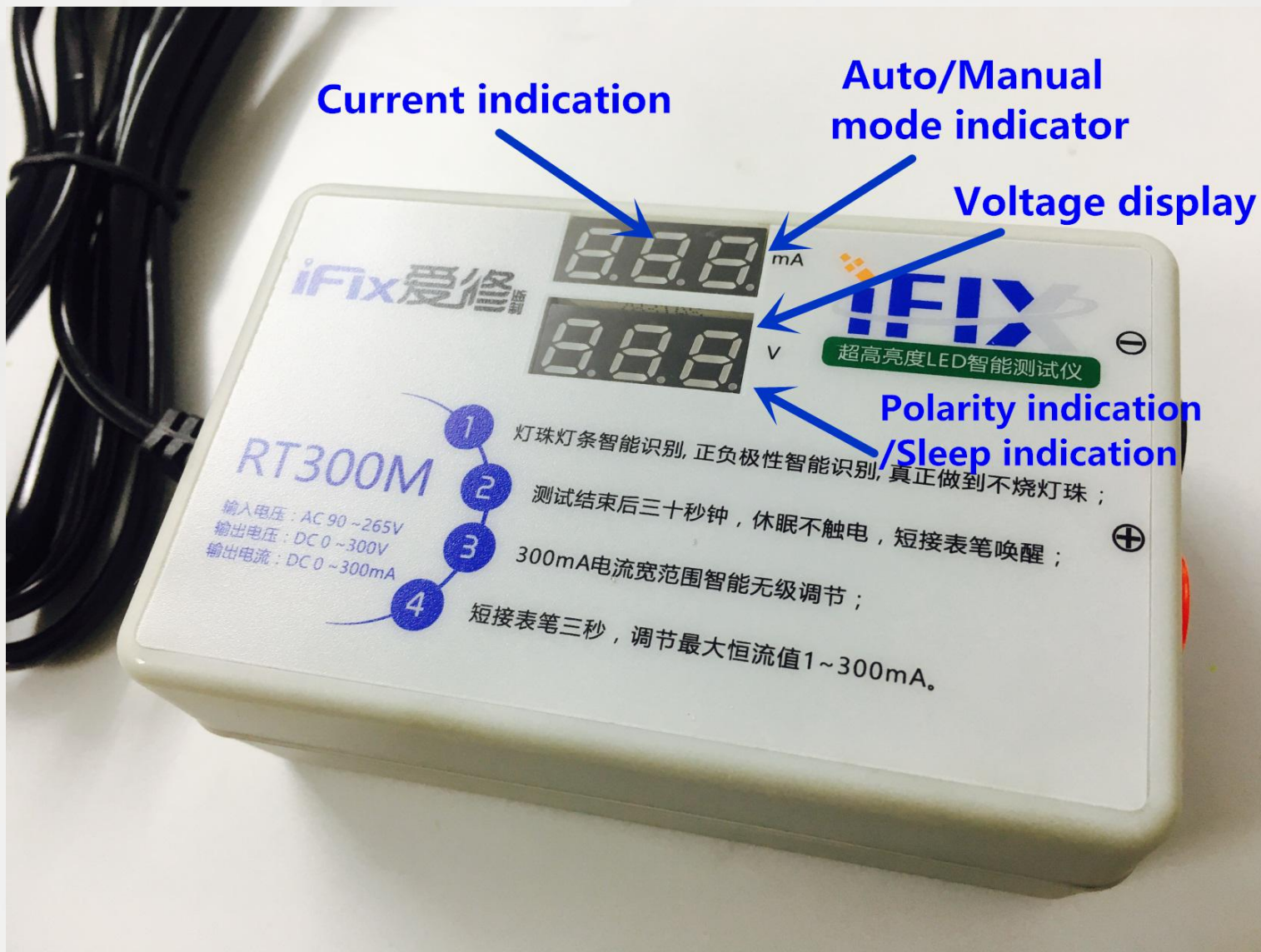


RT300M

LED Smart Tester Specification







When automatically test, the frame in front of "mA" is the current indication, the one in front of "V" is voltage display.

The red probe is "+", the black probe is "-". When measuring, red probe connect to LED +, black probe connect to LED-, polarity/dormancy indicator light is not light.

Red probe connect to LED-, black probe connect to LED+, Leds will be lighted up normally, polarity/sleep indicator light is light.

In automatic mode, the automatic/manual mode indicator light behind the mA box is not light. In manual mode, the automatic/manual mode indicator light behind the mA frame is light.

Production Name	Specification	Positive	Negative	Max on-load current
AOT3030	3V/1W	2.5	0.7	400mA
Dongbu 3535	3V/1.5W	2.5	0.7	600mA
AOT4020	3V/0.5W	2.5	0.7	280mA
LUMENS3535	3V/1W	2.5	0.7	400mA
Donper 3535	3V/1W	2.5	0.7	400mA
LEXTAR3030	3V/1W	2.5	0.7	400mA
Samsung3537	3V/1W	2.6	42	400mA
Ju Fei2835	3V/1W	2.6	70	400mA
Everlight3030	3V/1W	2.6	0.7	400mA
LG3528	3V/1W	2.6	0.7	400mA
Seoul3528	3V/1W	2.6	0.7	400mA
Jufei2835 double-core	3V/1W	2.6	48	400mA
WOOREE 3535	3V/1.85W	2.6	0.7	710mA
Donper 3528	3V/0.1W	2.6	43.7	38mA
OSRAM3528	3V/1.5W	2.6	0.7	600mA
Samsung 3528	3V/1W	2.5	0.7	400mA
LG7020	6V/0.8W	5	0.7	235mA
LUMENS3535A1L7	3V/1W	2.6	0.7	400mA
Hongli 3528	3V/1W	2.6	48	400mA

SHARP2828	3V/0.5W	2.5	38	200mA
Dongbu 3528	3V/1W	2.5	0.7	400mA
Xinruida3535	3V/1W	2.6	38	400mA
Seoul8520	3V/0.7W	2.5	0.7	280mA
Samsung 2828	3V/1.5W	2.6	0.7	600mA
Jufei7020	6V/0.8W	5	112	160mA
4020	6V/1W	5	64	200mA
AVAGO	6V/1W	5.1	59.5	200mA
Jufei 2835	6V/1W	5	157	200mA
LG6030	6V/1W	5.1	0.7	200mA
LG7020	6V/1W	5.1	0.8	200mA
SHARP7030	6V/1W	5	78	200mA
Dongbu 7020	6V/1W	5	0.8	200mA
LEXTAR3030	6V/1W	5	0.7	200mA
AOT7020	6V/1W	5	0.8	200mA
Puguang 3030	6V/2W	5	0.7	400mA
LG3535	6V/2W	5	0.7	400mA
Hongli 3528	6V/1W	5	78	200mA
Seoul 3535	6V/2W	5	0.7	400mA
AOT3030	6V/1W	5	0.7	200mA

SHARP3535	6V/1.2W	5.1	147	235mA
SHARP2828	9V/1W	7.8	108	128mA
LUMENS7032	3V/0.5W	2.5	0.7	200mA
LEXTAR4014	3V/0.2W	2.5	0.7	80mA
Puguang 7030	6V/1W	5	0.7	200mA
LEXTAR5630	3V/0.5W	2.5	0.7	200mA
Hongli 3528	3V/1W	2.5	52	400mA
SHARP2828	6V/0.8W	5.1	77	160mA
AOT6030	3V/0.5W	2.6	30	200mA
Samsung 5630	6V/0.6W	5.1	0.7	117mA
OSRAM3528	3V/1.5W	2.5	0.7	600mA
OSRAM5630	3V/0.5W	2.6	0.7	200mA
LUMENS5252	3V/0.3W	2.5	0.7	120mA
LG5630	3V/0.5W	2.5	0.7	200mA
OSRAM4014	3V/0.5W	2.5	0.7	200mA
1206	3V/0.2W	2.5	61	80mA
Lite-On 5630	3V/0.5W	2.5	0.7	200mA
Donper 215	3V/0.2W	2.5	42	80mA
OSRAM4520	3V/0.5W	2.5	0.7	200mA

These are the measured parameter of iFix team's collection of about 60 different kinds of light beads. From the above form, the minimum on-load current is 38mA, which in turn is 80mA-117mA-120mA-160mA-200mA -200mA-235mA-280mA-400mA-600mA-710mA.

There are less light beads of 38mA, the light beads of 200mA-400mA are used more widely,also can't see the parameter when we haven't opening the inside of screen, most of the Front-line maintenance personnels are used to measure directly, with certain risk.

Since RT300M power has sufficient power,can be used for long time light bar aging and measuring with maximum current of 300mA, but this is only a maintenance method to be used to judge the soft failure of light bars,can't be mastered by all maintenance personnel.

Considering the unified opinions of many maintenance engineers,the security consideration and the measuring effect of actual combat.

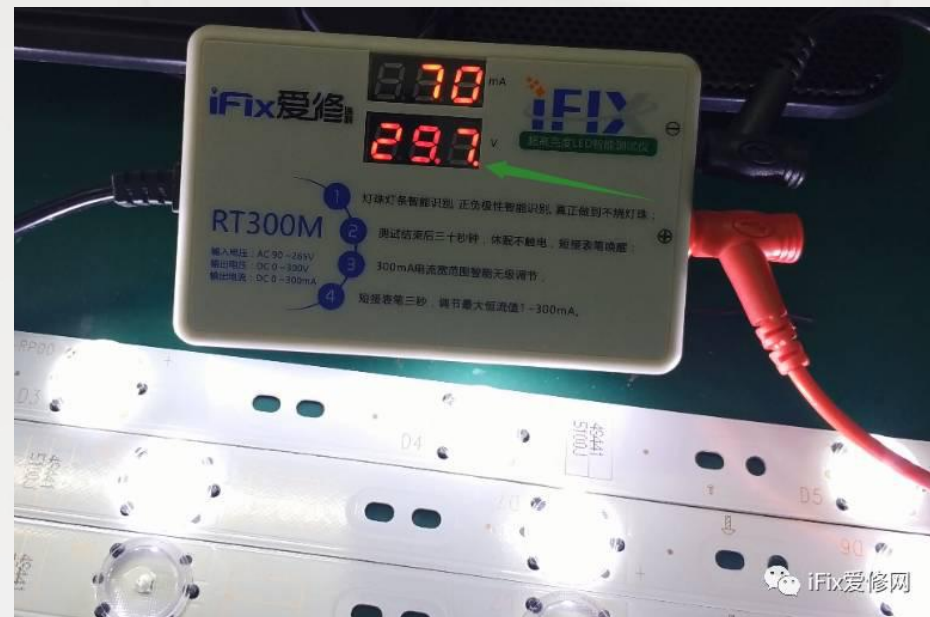
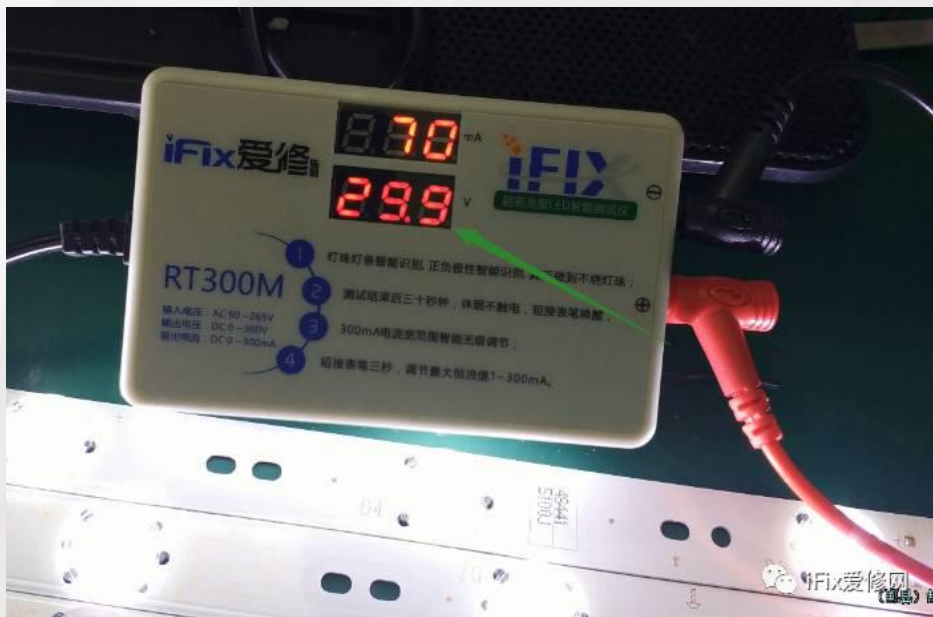
Automatic mode and manual mode both open the Anti-jitter safety measurement model, also is to prevent accidental damage caused by poor contact, it will not enter the measurement condition when keep shaking, the amperemeter always show 0, lights are dim.

Automatic mode: Measure optionally with anode and cathode probes, automatically identify the polarity, measurement starts, 1-20mA, after pause for 5s, 20-70mA, permanently stop (the same measuring method to light beads).

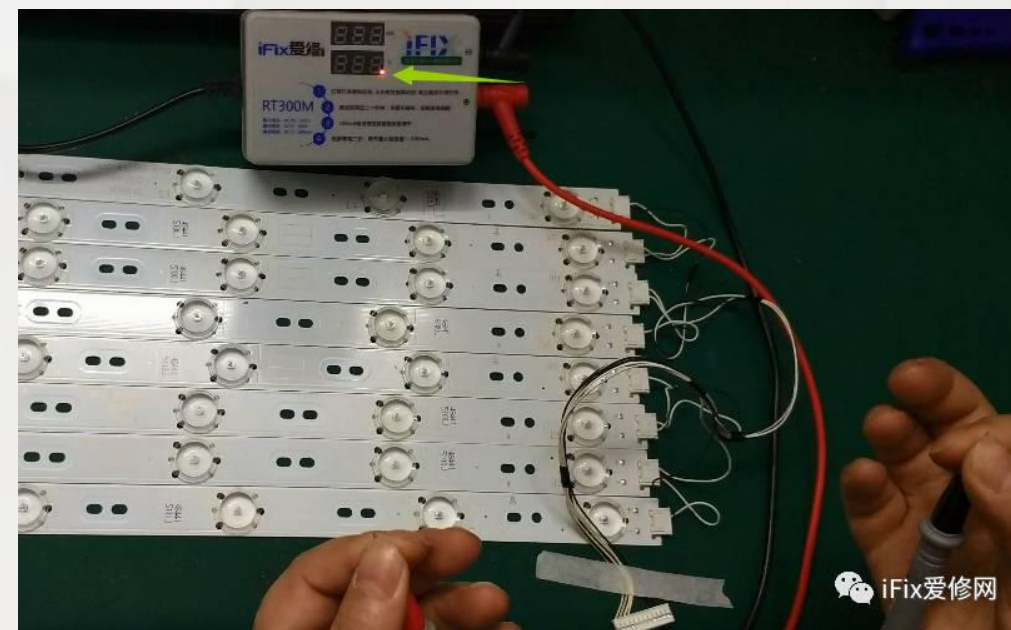
Note: RT300M automatically identifies light beads, light bars, entire backlight, over 60V, switch to backlight measurement mode, no pause at 20mA, pause for about 5s at 30mA, then continue to rise to 70mA.

Light bar test example: Connect the red probe and black probe positively, the polarity indicator light is not light.

Light bar test example: Connect the red probe and black probe reversely, the polarity indicator light is light.

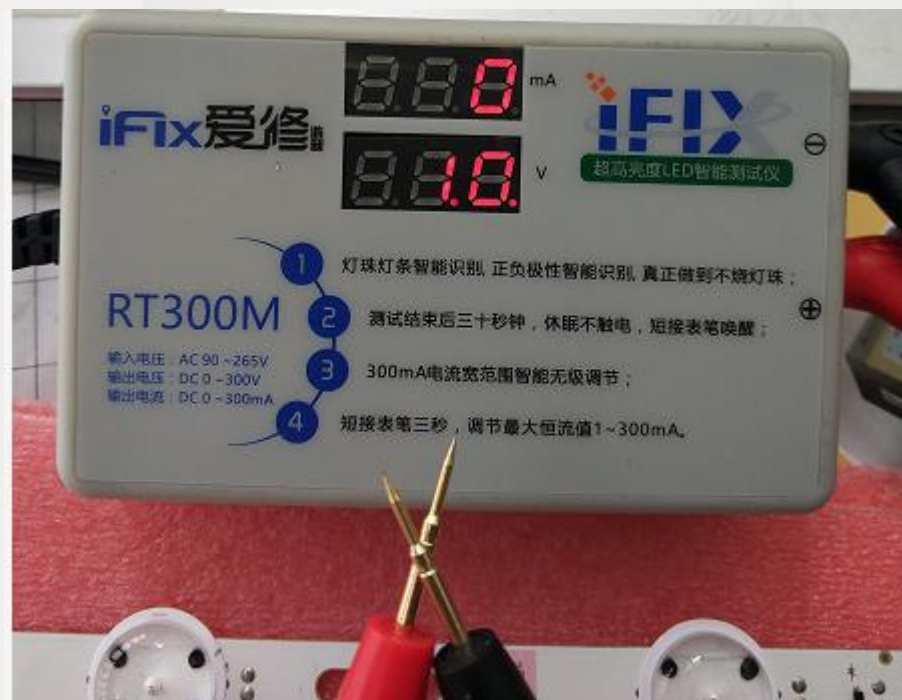


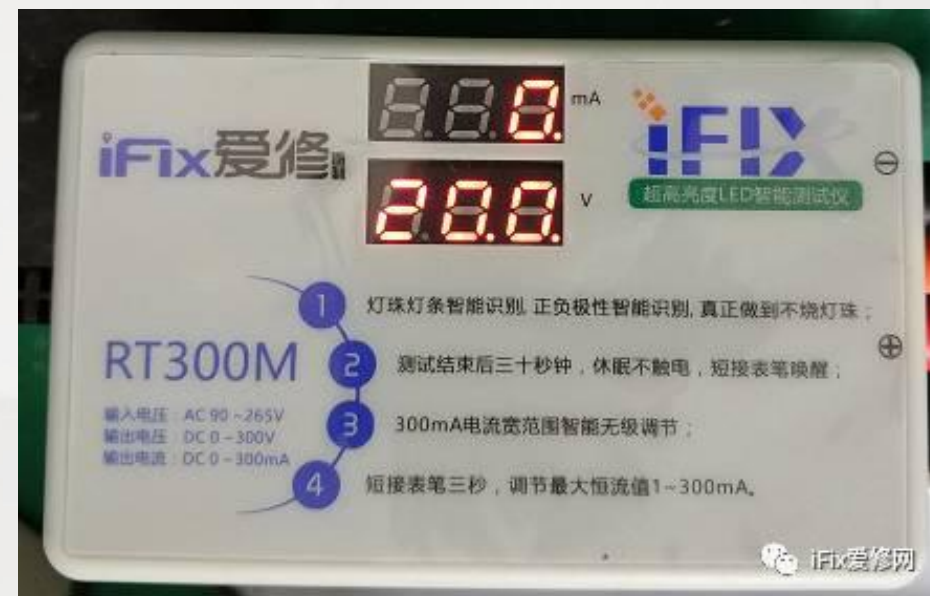
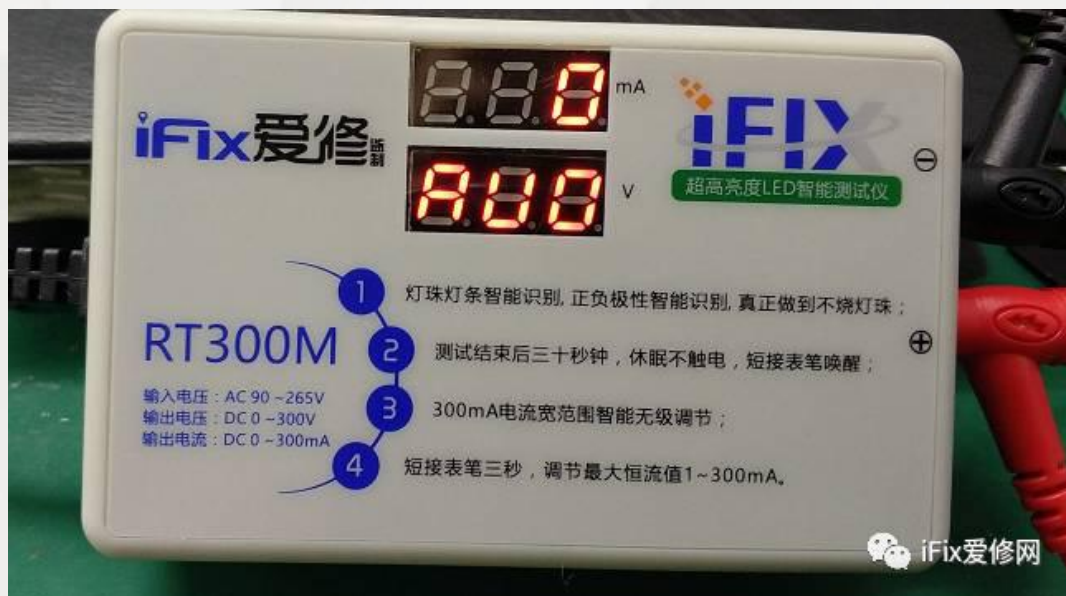
Stop measuring for 30s, enter sleep mode, the **polarity indicator/sleep indicator light** is lit, no electric shock, short circuit the red probe and black probe to wake.



Manual Mode: Short circuit the probe, voltage frame display "---", enter manual setting mode. Can set optional value freely around 1mA, 20mA, 20-300mA.

"---" flash 3 seconds later then show "1.0", loosen the probe, indicating to set 1mA, can test the positive and negative withstand pressure of capacitor, stabilivolt, diode, triode, MOS tube, LED and other components.





After "1.0" if you don't loosen the probes it will jump to the next value "AUTO", and now loosen the probes, switch to Auto mode.

Pull out the AC plug and recharge, it will also switch back to Auto mode.

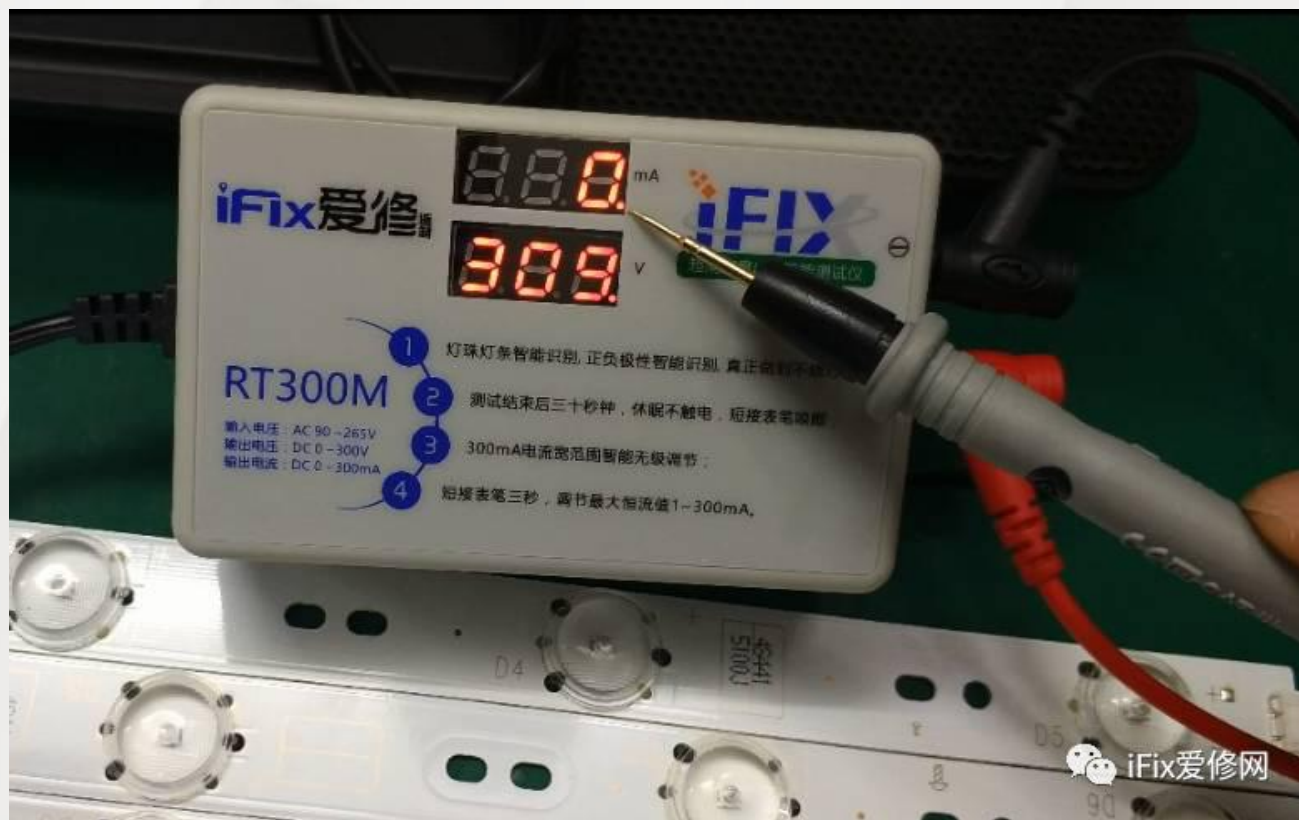
After "AU0" if you don't loosen your probes it will jump to the next value "20.0", and now loosen the probes, which shows that the setting value now is 20mA, the measurement under 30V would permanently stop at 20mA, and measurement more than 30V permanent would stop at 30mA.

Attention : After the manual setting, the positive and negative polarity automatic recognition is shielded. When measuring, the red probe must measure the anode of the LED and the black probe measure the cathode.

Continue not to loosen the probes, start up from 20 and end at 300, you can set the current value optionally between 20-300mA. If you set 135mA, please loosen the probe at about 130, if it does not reach 135, continue to short circuit the probe, adjust the value slightly, and loosen when it reaches the standard value.



Now we can see that the manual mode indicator light was lit, and when measuring under the manual mode, **pay attention to positive and negative polarity and avoid connecting reversely.**

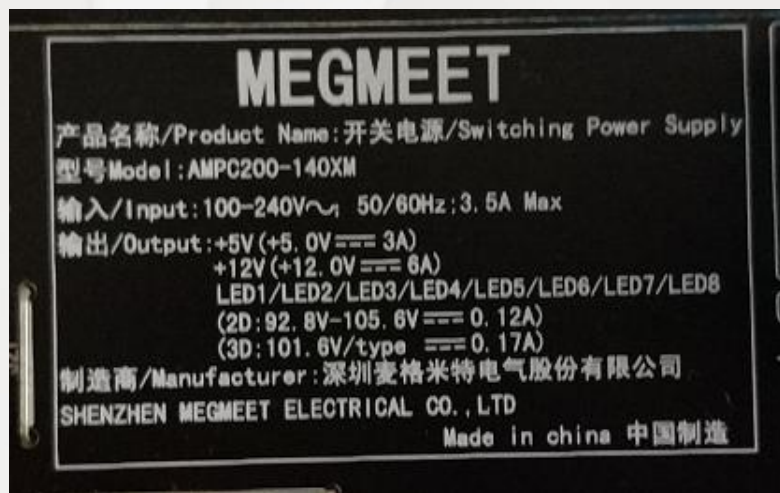


Taking Xiaomi2 TV measurement as an example, the manufacturer's power supply board parameters are as follows: 8 path of LED, rated current 120mA, voltage range 92.8~105.6V.

First set the current to about 120mA.



The measured result is consistent with the manufacturer's nominal value, which indicates that the backlight is ok. If the measured value differs with the manufacturer's nominal value greatly, the light bar is faulty.



RT300M can identify most of the light beads, light bars, entire backlight, but there are too many heterogeneous light beads on market, iFix team try their best to collect different types of light beads as far as possible, but cannot guarantee that all the LED can be identified.

When it cannot be identified automatically, please switch to manual mode for measurement.

When it switches from manual mode back to auto mode, please enter the setting state to AUO or pull out the AC plug of tester for outage, and then plug in after the internal capacitor discharge.

Due to the large power output, RT300M is equipped with a 256-level dimmer inside. As the current increases, the LED brightness gradually increases. Please protect your eyes when measuring, and do not look directly into LED.

When RT300M is baking machine at 300mA, it would drop to 150mA in 90 seconds, supporting the long time baking machine. iFix test roasting machine with 200V backlight, last for 10 hours without pressure, but after all it is still a testing tool, please don't bake for too long.

Non-professional, do not use!!

iFix, produce only quality goods!

THANK