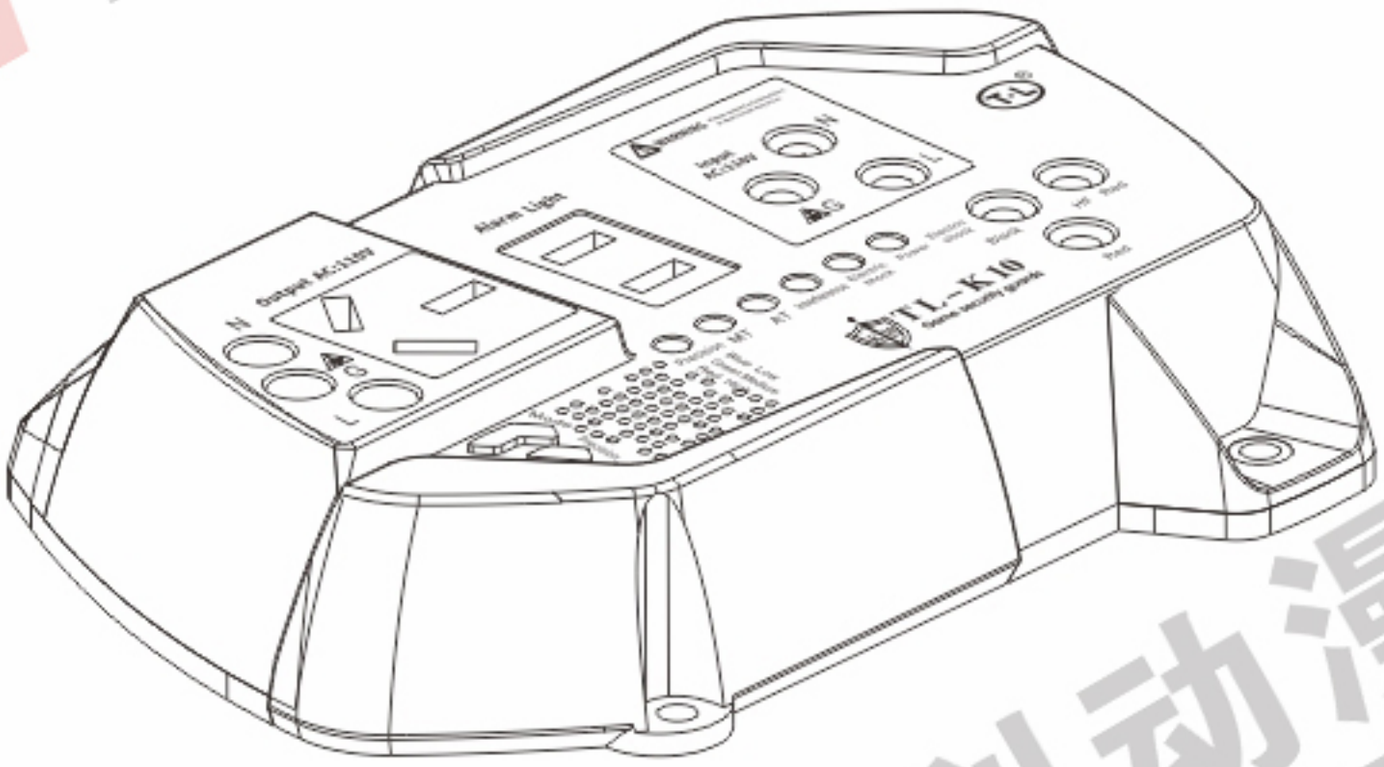
通利
源于1991年

用户指南

Revision:21-03-25



单机版

TL-K10
游戏机安全卫士

注：如需环保产品需另行订购

通利动漫 TONG LI ANIMATION

- **谢谢您购买**
- **在使用前，请务必阅读此说明书。**

一、产品规格：

输入:AC110V⎓30mA　　重量：230g

工作温度：-15℃ ~ +50℃

产品外观尺寸：180×127×34mm

二、产品特点及功能：

1.CPU程序控制，延时更精确。

2.智能处理干扰信号，过滤非干扰信号。

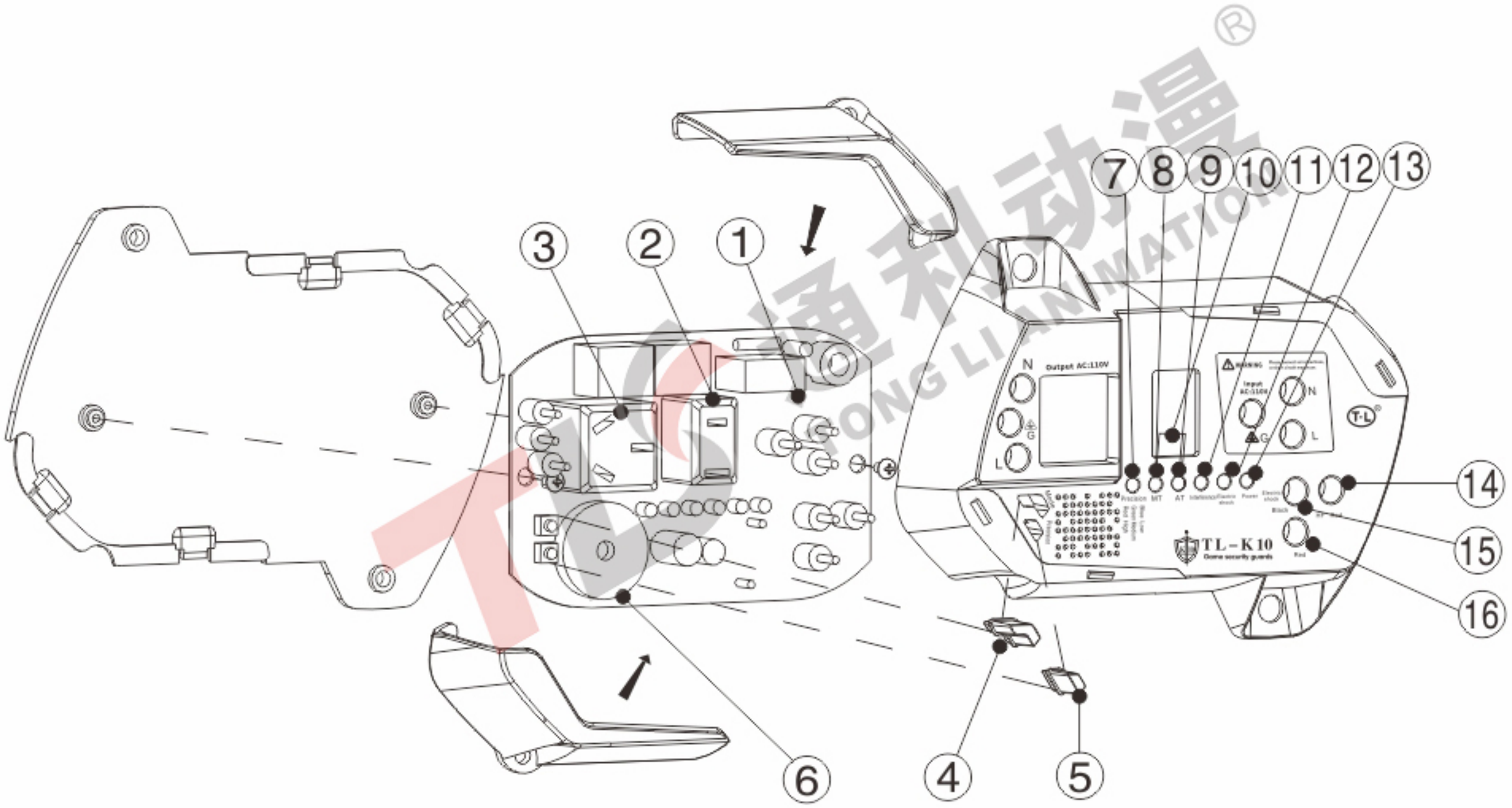
3.智能检测并区分干扰源(LED灯显示)。

4.报警模式及信号灵敏度6段可调(LED灯显示）。

5.3P电源插头兼容,安装更方便。

6.特设外接报警灯专用插座，方便外接 T·L® TC-008报警灯(※注：需另购)。

三、部件名称及功能详见下图和列表：



序号	部件名称	功能描述	备 注
1	AC110V输入端	两个端口相通都属交流电110V输入	只能一组输入交流电110V。警告:请按照标识接线,以免造成短路。L 火线、N 零线、G 地线
2	报警灯专用座	插报警灯或报警器	只能连接报警灯或报警器且工作电压为交流电110V
3	延时插座	具有开机时交流110V延时输出、报警断电功能	报警时可以通过模式开关控制它的输出状态及恢复状况
4	模式调节按键	调节三段报警模式	三段模式: 1. 断电报警手动恢复 2. 断电报警自动恢复 3. 报警不断电自动恢复(必须配报警灯)(出厂默认值)
5	精度调节按键	调节三段接收干扰信号灵敏度	三段灵敏度: 1. 灵敏度弱 2. 灵敏度正常(出厂默认值) 3. 灵敏度强
6	蜂鸣器	蜂鸣器	
7	精度指示灯	指示灯颜色三种变化表示三段精度模式	蓝色: 灵敏度弱 绿色: 灵敏度正常(出厂默认值) 红色: 灵敏度强
8	手动模式指示灯	LED灯显示报警模式	选择手动模式时该指示灯亮
9	自动模式指示灯		选择自动模式时该指示灯亮
10	报警模式指示灯		选择报警模式时,手动、自动模式指示灯都不亮
11	高频干扰指示灯	LED灯显示高频干扰	高频干扰时该指示灯红灯闪烁
12	高压电击指示灯	LED灯显示高压电击	高压电击时该指示灯红灯闪烁
13	电源指示灯	LED灯显示工作状态	刚通电时绿灯闪烁5秒后指示灯绿灯常亮,进入工作状态
14	防超高频干扰线插头	接收超高频干扰信号	一端缠绕在退币马达线、彩票机线、控台线及易受干扰的地方
15	防高压电击线插头	接收高压电击信号	防电击天线(**黑色**)夹到钱道螺丝、控台的金属、投币器彩票机面板螺丝及其它裸露在机台外的金属上
16	防高频干扰线插头	接收高频干扰信号	另一端天线(**红色**)缠绕在投币器线、开分线、控台线及易受干扰的地方

四、细节说明:

1. 报警模式可设定为手动模式、自动模式和报警模式。

   手动模式:手动模式指示灯亮，受干扰时自动切断电源且报警，需要人工解除。

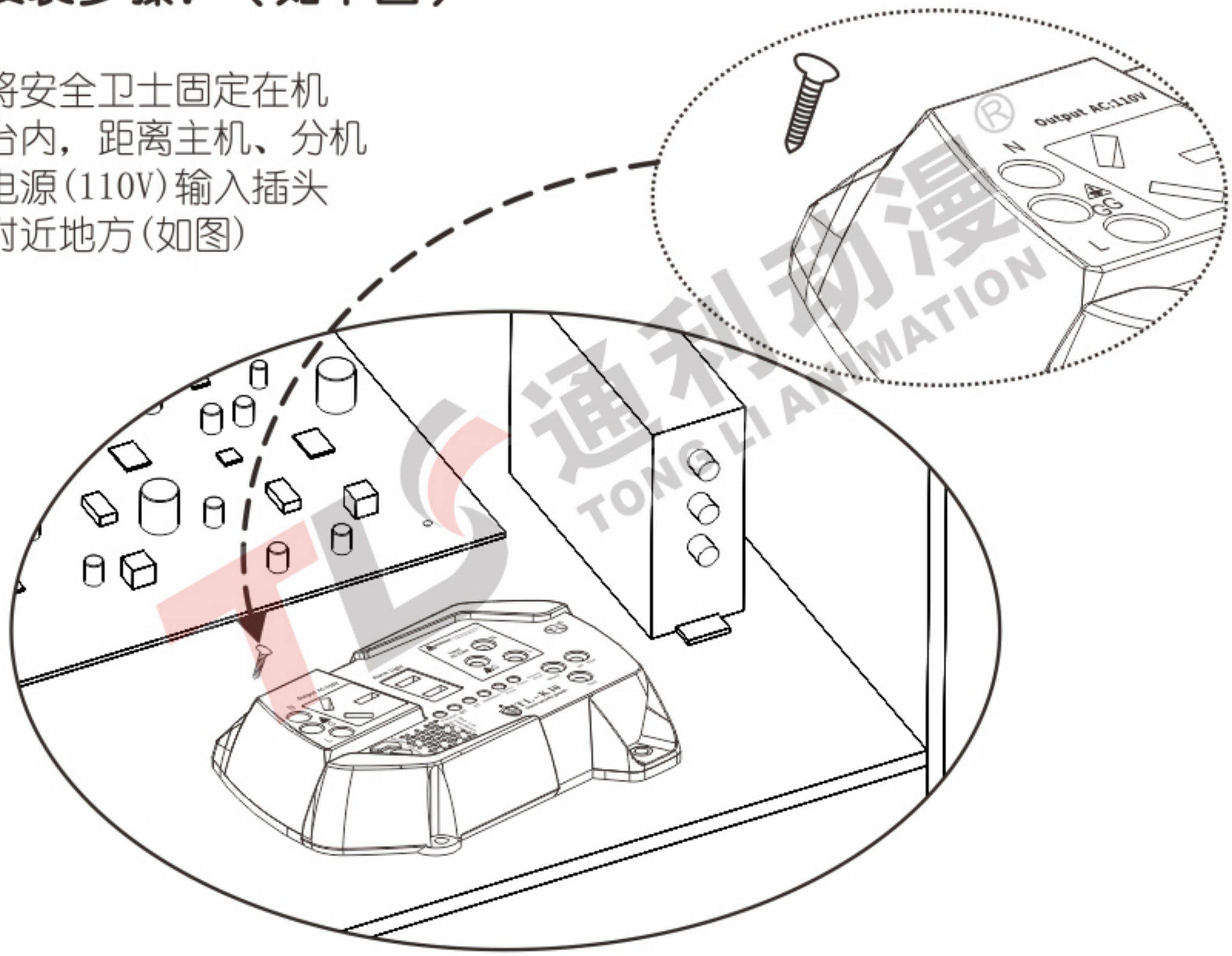
   自动模式:自动模式指示灯亮，受干扰时自动切断电源且报警，十秒后自动恢复。

   报警模式:手动、自动模式指示灯都不亮,受干扰时自动报警不断电,十秒后自动恢复(注:此模式配T·L® TC-008报警灯使用更佳)。

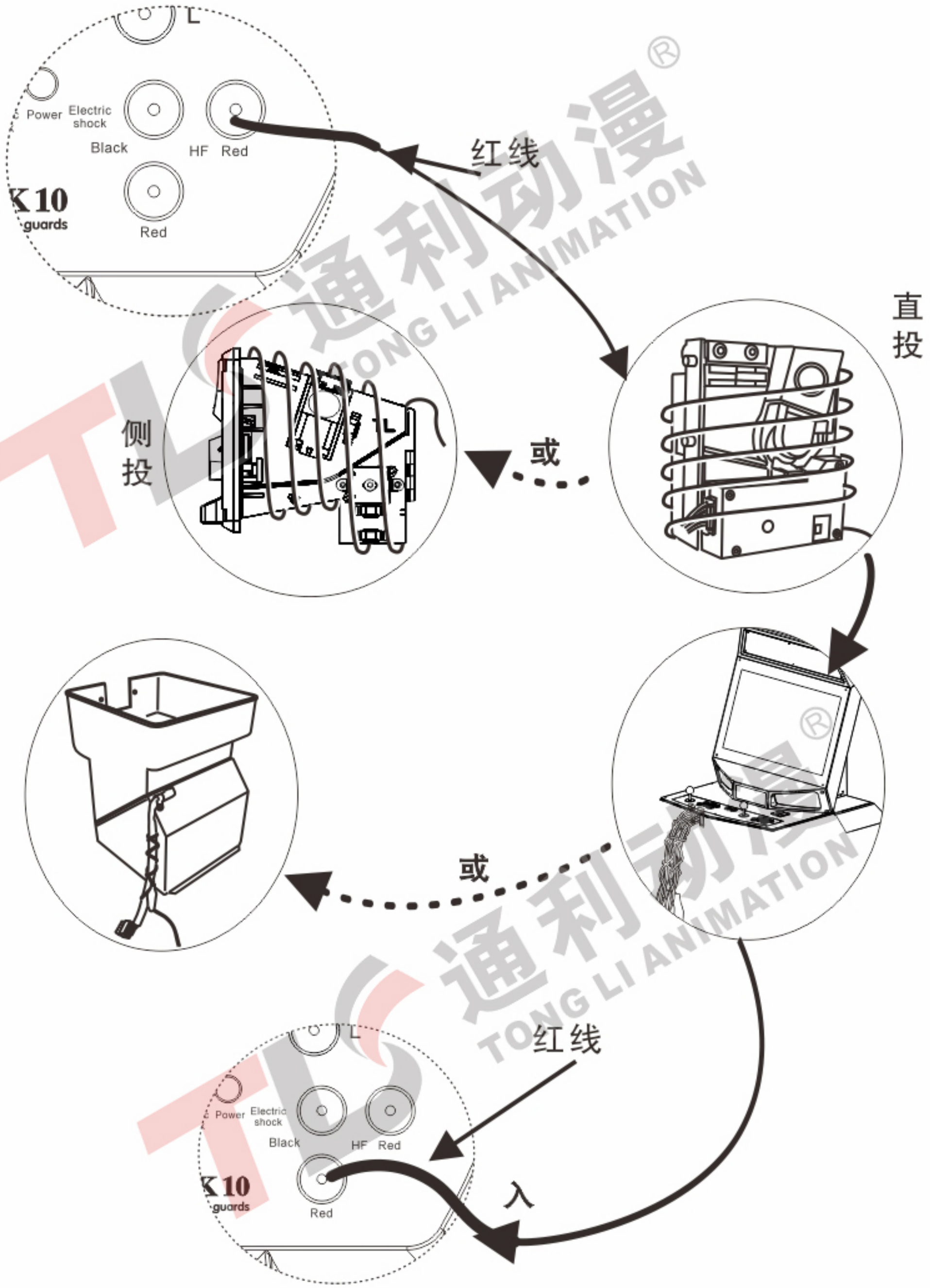
2. 精度分三段调节伴有LED灯指示，蓝色：灵敏度弱，绿色：灵敏度正常，红色：灵敏度强。
3. 安全卫士开机时电源指示灯闪烁，5秒后停止，继电器闭合给AC-110V输出及延时插座供电。
4. 若受高压电击干扰时，安全卫士报警、切断电源，高压电击指示灯闪烁。
5. 若受无线高频干扰时，安全卫士报警、切断电源，高频指示灯闪烁。

五、安装步骤：（如下图）

❶ 将安全卫士固定在机台内，距离主机、分机电源(110V)输入插头附近地方(如图)

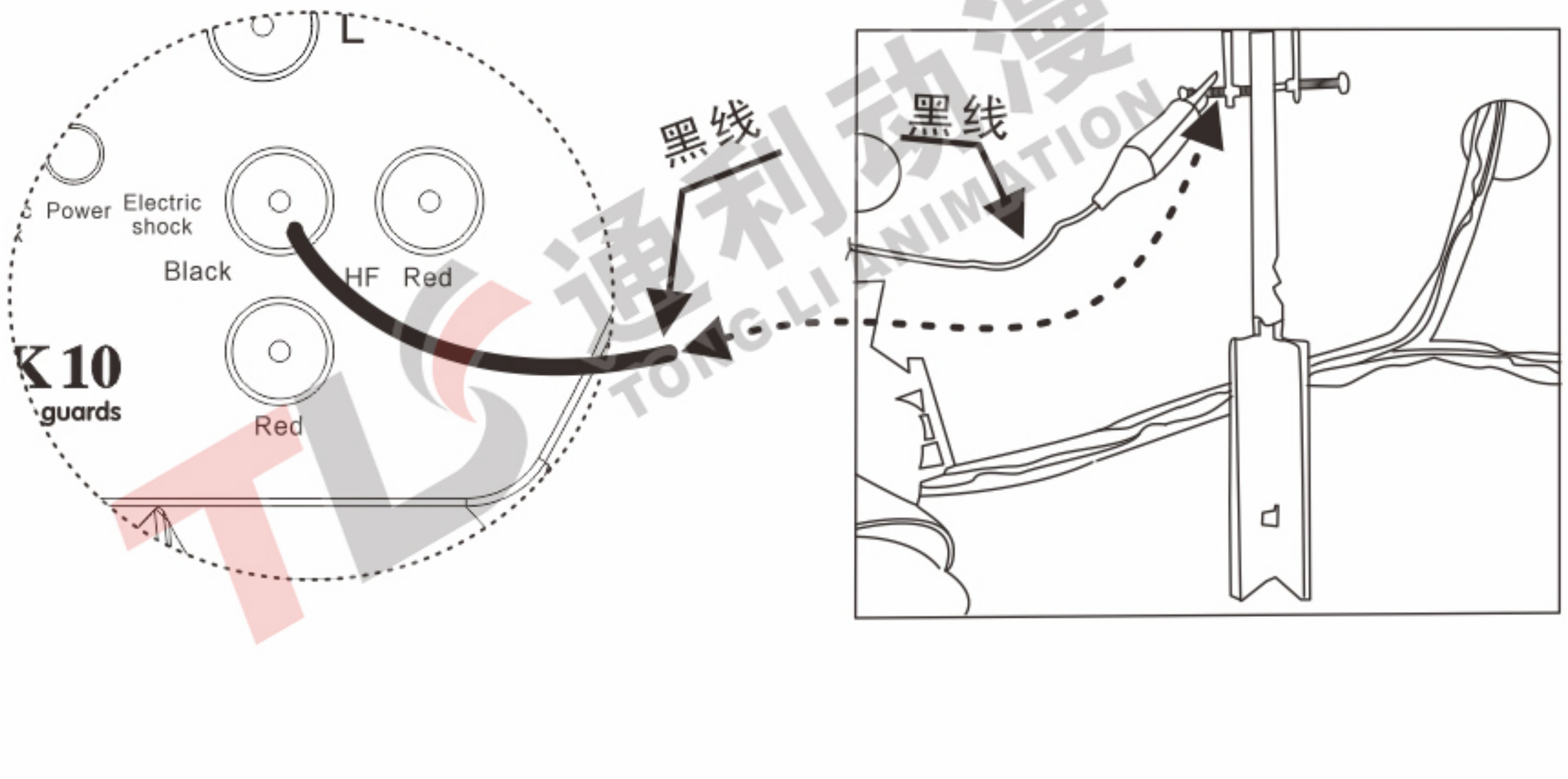


❷ 防高频端子接红色线，缠绕在投币器、开分线、然后缠绕控台线组及易干扰的地方。（如下图）

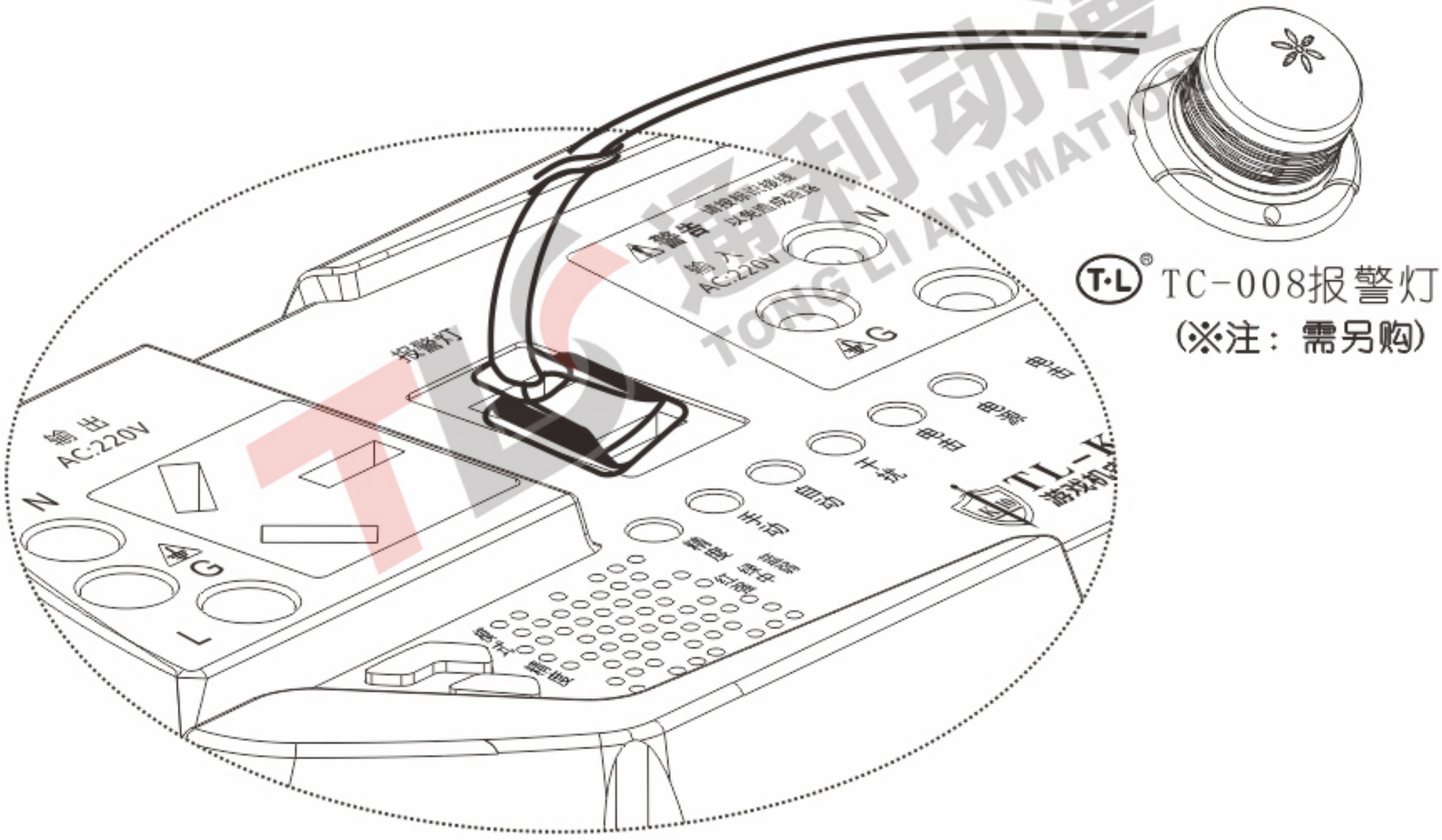


❸ 缠绕结束后把另一端插回高频的位置上，形成环绕型的接受方式。

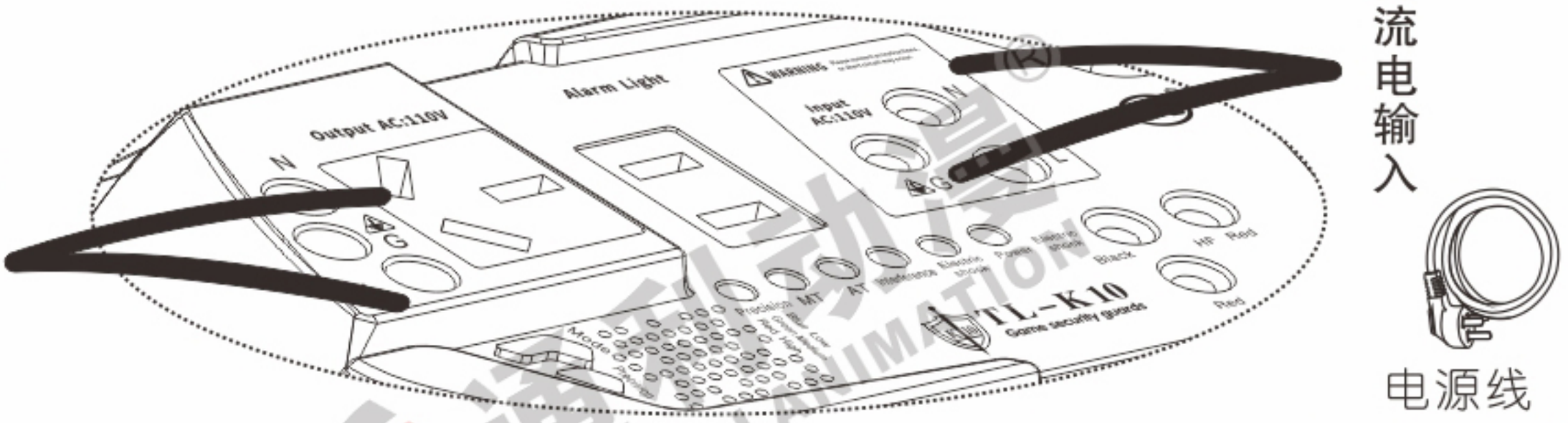
❹ 防电击端子接黑色线，夹到钱道螺丝、控台的金属、投币器出票器面板螺丝及其它裸露在机台外的金属上。（如下图）



❺ 报警座为TL®TC-008报警灯(需另购)专用插座，另外直通座直接与交流电输入端相连，它无延时、自动断电功能。(如下图)

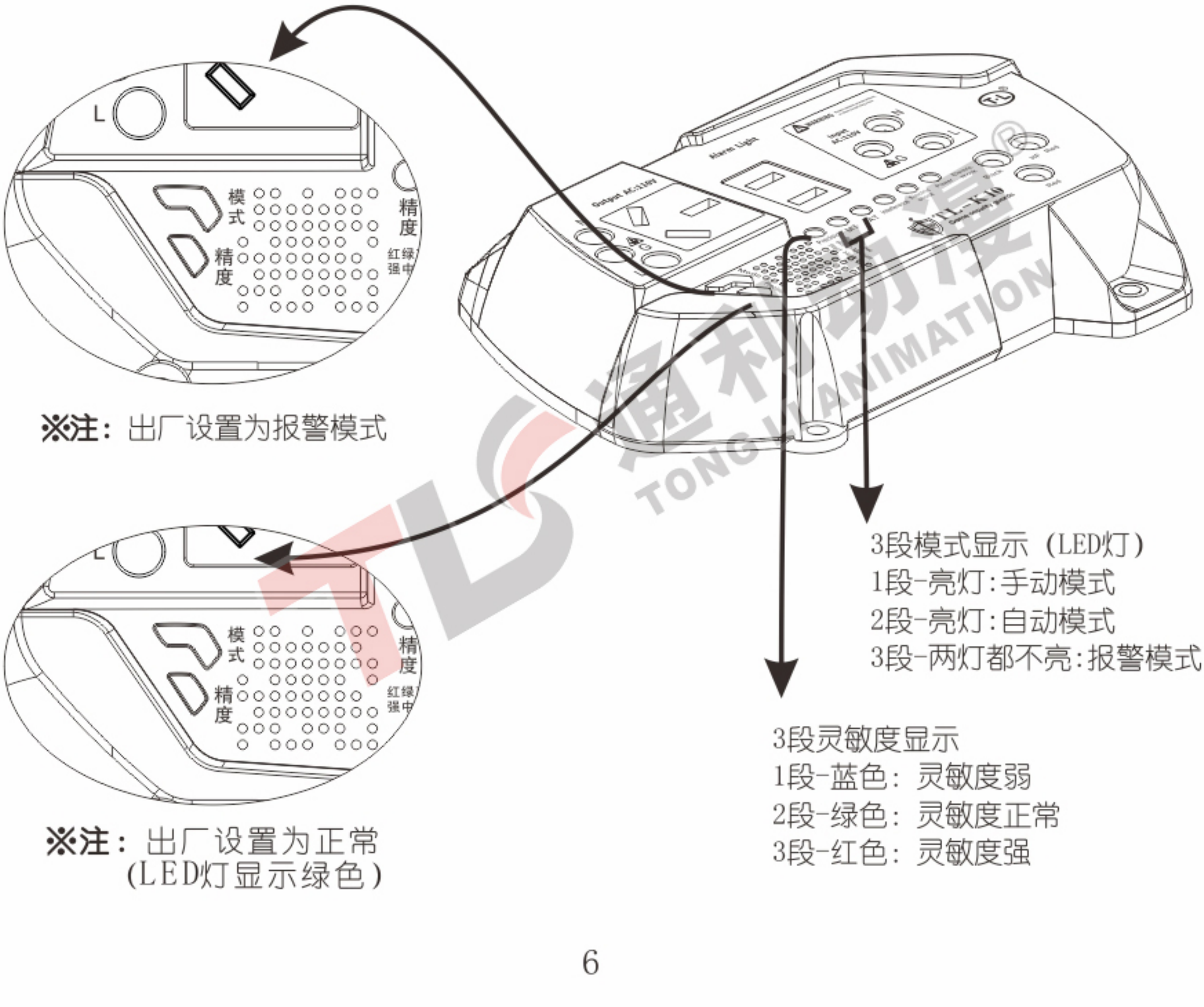


6 输入端子接交流电110V，输出端子和延时插座为110V交流电输出(给受保护的游戏机台供电)，它具有开机延时及受干扰时自动断电功能。



(与交流电110V连接通电，此时蜂鸣器鸣叫两声,同时电源指示灯闪烁，5秒后绿灯常亮，此时安全卫士给游戏机台主电源供电并进入工作状态)

7 根据机型需求，设定安全卫士报警模式和灵敏度(如图)



※注： 出厂设置为报警模式

※注： 出厂设置为正常
(LED灯显示绿色)

六、常见故障及解决方法见以下列表

序号	故障现象	解决方法
1	电源指示灯不亮，机台电源无电	A、检查安全卫士交流110V输入线是否连接。 B、安全卫士交流110V输入线的电源插座是否有110V
2	电源指示灯亮，机台电源无电	A、交流电110V是否低于100V B、机台电源是否和安全卫士相连接好。
3	受干扰一直报警，不能自动恢复	A、请将模式开关切换到自动模式 B、模式开关不良 C、交流电低于100V。
4	受无线干扰而不报警	A、请检查防高频天线、防超高频天线是否和安全卫士已连接。B、缠绕后另一端是否插回高频的端子上，形成环绕的接收方式。C、调节精度开关。
5	电击不报警	A、请检查防电击线是否和安全卫士已连接。 B、将防电击线鳄鱼夹夹在裸露机台外的金属上，如投币器的金属面板、彩票机金属面板、控台金属上。不能夹在电脑板的金属上、和大地相连的金属上以及和地线相连的金属上。
6	偶尔乱报警	A、将安全卫士安装尽量远离电源盒。 B、降低环境干扰，如大型马达、电焊机、大功率无线发射台、因老化而不稳定的照明灯具等。C、调节精度模式，降低灵敏度。 D、将防高频天线、防超高频天线折叠缩短。

※ **注：** 1.报警座为T·L® TC-008报警灯专用插座AC110V，请勿插其它插头。
2.请将本说明书放入机台内，方便使用者更清楚了解使用方法。

制造商：广州通利动漫科技有限公司
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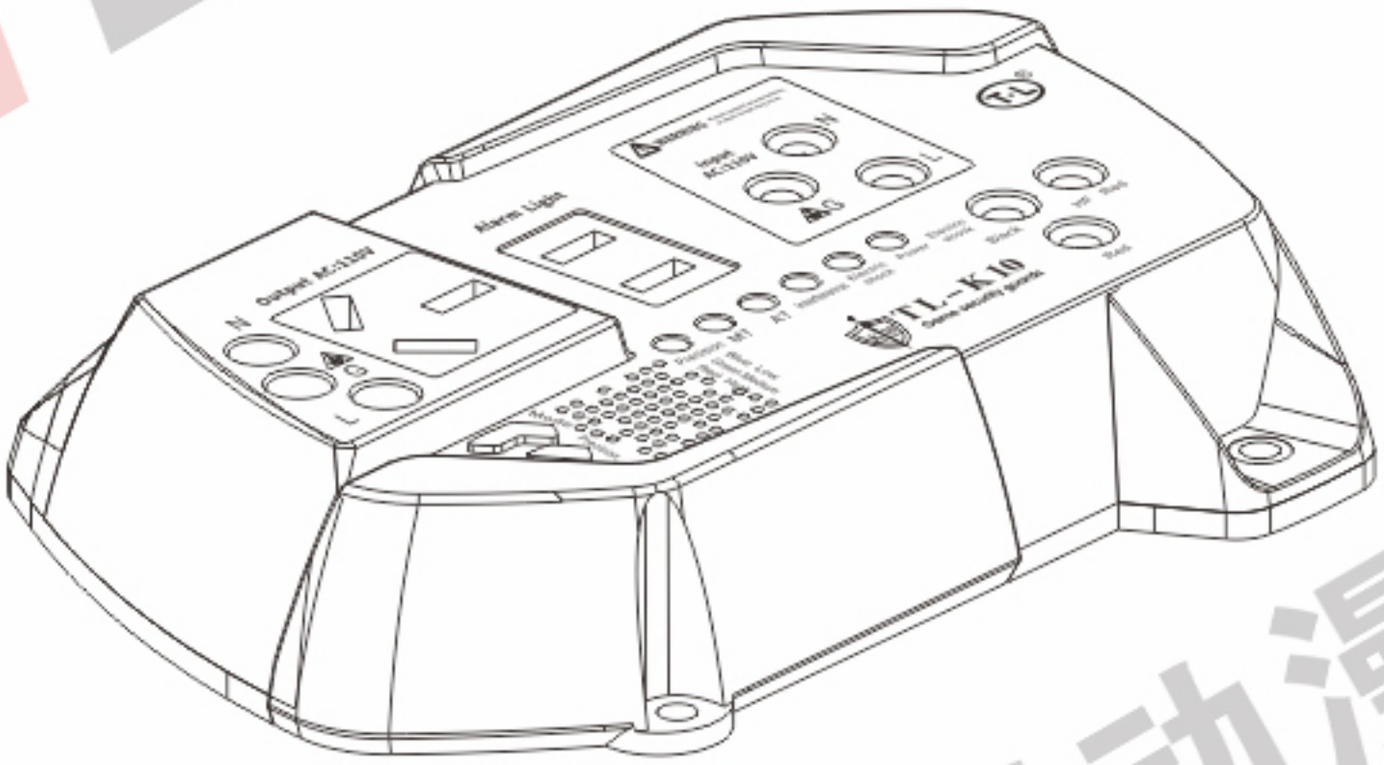
官方网址：www.tonglianimation.com

扫一扫查看安装视频

TONG LI
Founded in 1991

User Guide

Revision:21–03–25



TL-K10

Standalone version

Game Security Guards

Remark:CE and Rohs certified models are optional.

- **Thanks for your shopping**
- **Please read the use's manual before use**

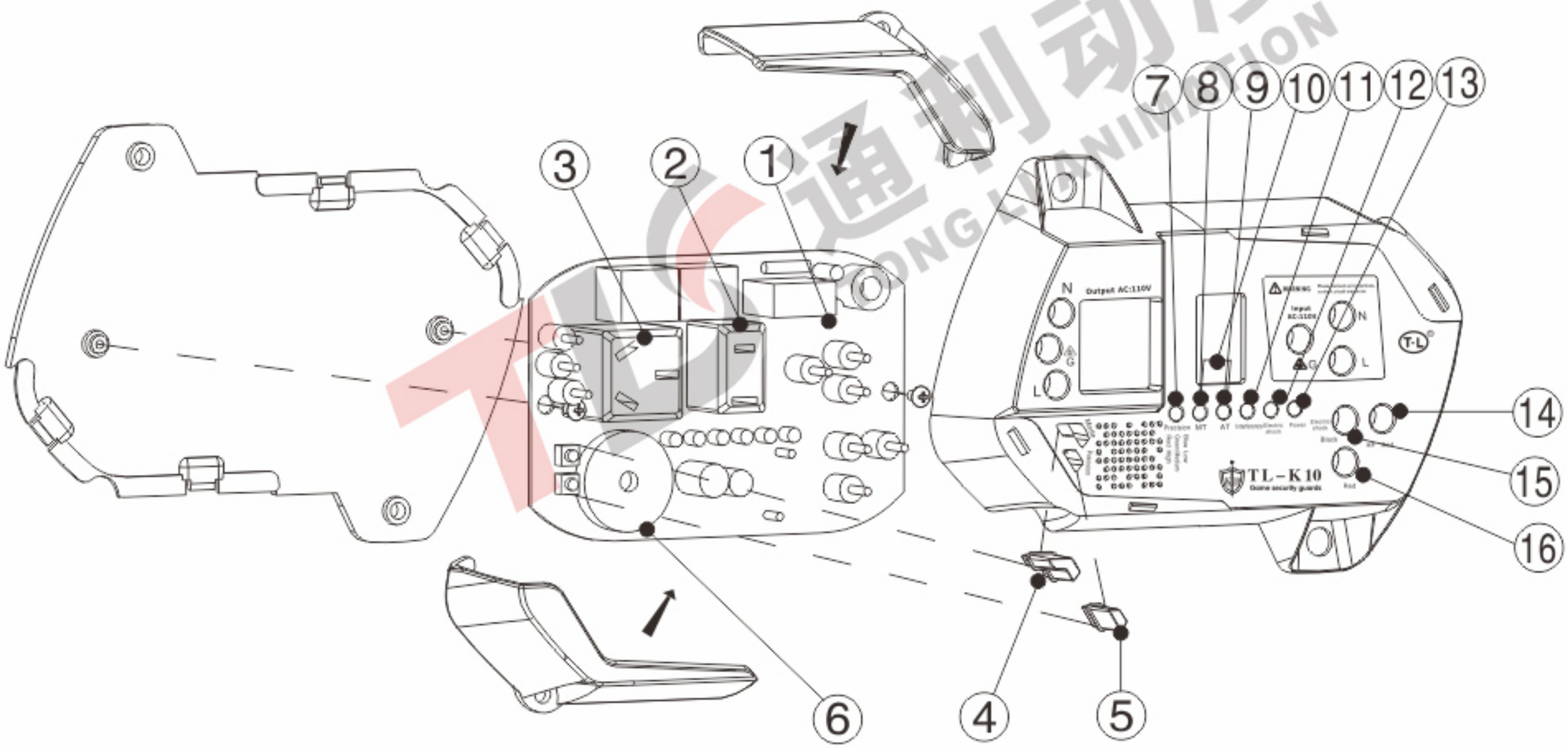
1. Product specification:

Input:AC110V⎓30mA Weight:195g
Working temperature： −15℃~+50℃
Product size:160*98*30mm

2. Product characteristics:

1.CPU program control and delay precisely.
2.Intelligent processing interference signal, filtering the interference source.
3.Intelligent detection and distinguishes the interference pattern (LED lights display).
4.Alarm mode and signal sensitivity, 6 sections are adjustable (LED lights display).
5.2P or 3P power plug are compatible and convenient for installation.
6.Special designing external power plug for alarm lamp, convenient to connect T·L® TC-008 alarm lamp (※Remark:needing to buy).

3.Component name diagram:



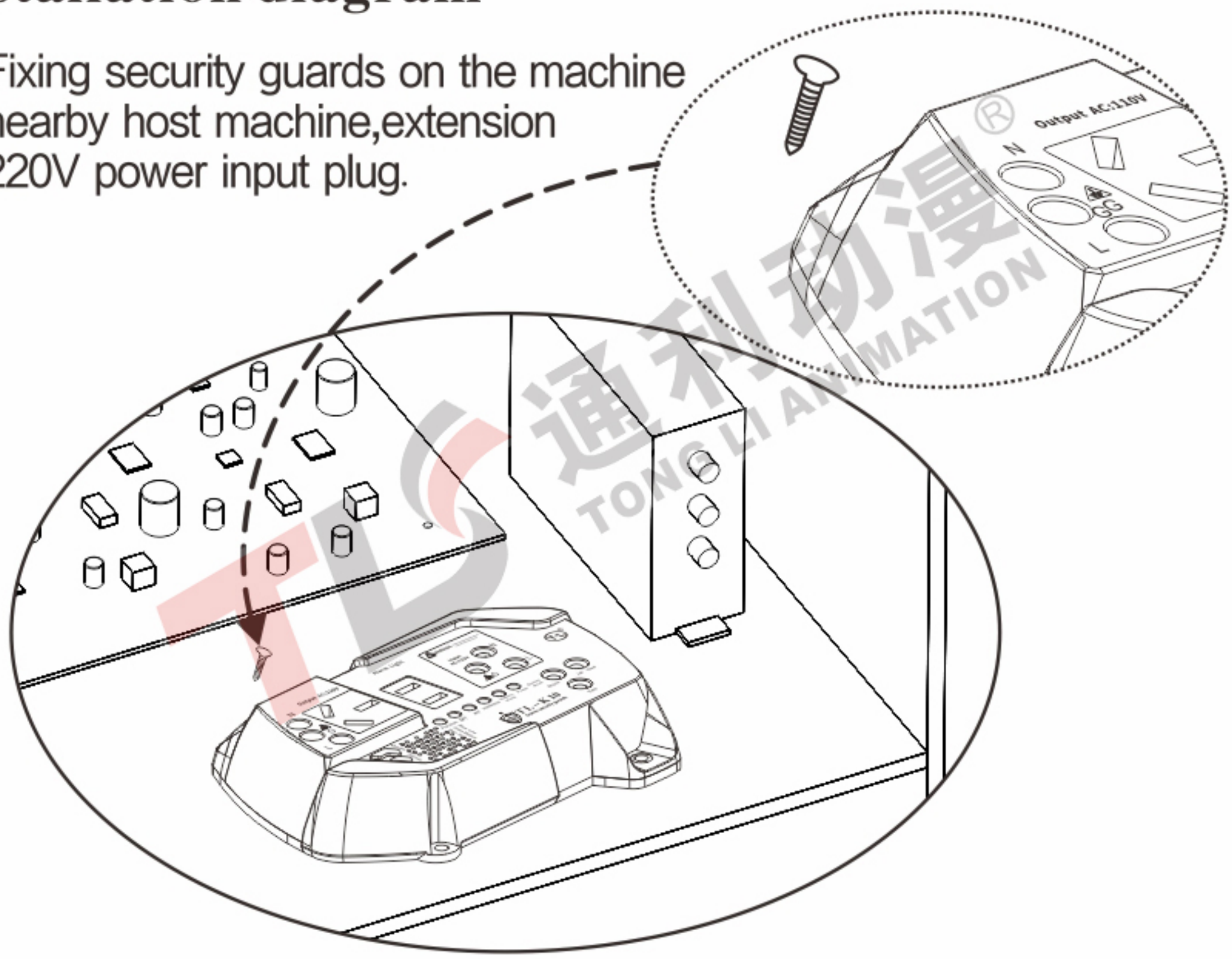
No.	Component name	Function description	Remark
1	AC110V Input terminal	Two ports are interlinked, belong to the alternating current 110V input	Only one port input alternating current 110V Warning: To avoid short circuit, the wires should be connected by fllowing the wiring connection instructions .L . N . G.
2	Ended at socket Special socket of alarm lamp	Plug with alarm lamp or alarm	Only connect with alarm lamp or alarm, input 110V alternating current
3	Delay socket AC110V Output terminal	AC110V delay output and alarm power off when power on	Control output status and recovery status by mode switch when alarm (Remark:dealy so-cket is compatible with 2P or 3P power plug
4	Mode adjust button	Adjust three sections alarm mode	Three sections mode: 1.power off and alarm during interference, manual recovery 2.power off and alarm during interference, automatic recovery 3.non-power off, only alarm during inter-ference, automatic recovery factory seting (must replace alarm lamp)
5	Precision adjust button	Adjust three sections sensitivity of receiving signal	Three sections sensitivity: 1.poor sensitivity 2.normal sensitivity(Factory default) 3.strong sensitivity
6	Buzzer	Buzzer	
7	Precision indicator light	Three color variation of indicator light show three sections mode	Blue:poor sensitivity Green:normal sensitivity(Factory default) Red: strong sensitivity
8	Manual mode indicator light	LED light show alarm mode	This indicator light will light during choosing manual mode
9	Auto mode indicator light		This indicator light will light during choosing auto mode
10	Alarm mode indicator light		Indicator light of manual and auto mode will not light during choosing alarm mode
11	High frequency interference indicator light	LED light show high frequency interference	High frequency interference when the lights flashing red light
12	High-voltage electric shocks indicator light	LED light show highvoltage electric shocks	High-voltage electric shocks when the lights flashing red light
13	Power indicator light	LED light show working status	Green indicator light stay light and flash after 5 seconds when power on,and then to be on working status
14	Anti ultra-high frequency interfe-rence line plug	Receiving ultra-high frequency interference signal	Anti ultra-high frequency antenna (green) wind around hopper line,ticket dispenser line,controller line and vulnerable to interference place
15	Anti high-voltage electric shocks line plug	Receiving high-voltage electric shocks signal	Anti electric shock antenna(black) grab lanes screw,controller metal,screw of coin selector ticket dispenser panel and other bare metal outside of machine
16	Anti high frequency interference line plug	Receiving high frequency interference signal	Anti high frequency antenna(red) wind around hopper line,separate line,controller line and vulnerable to interference place

4.Manual

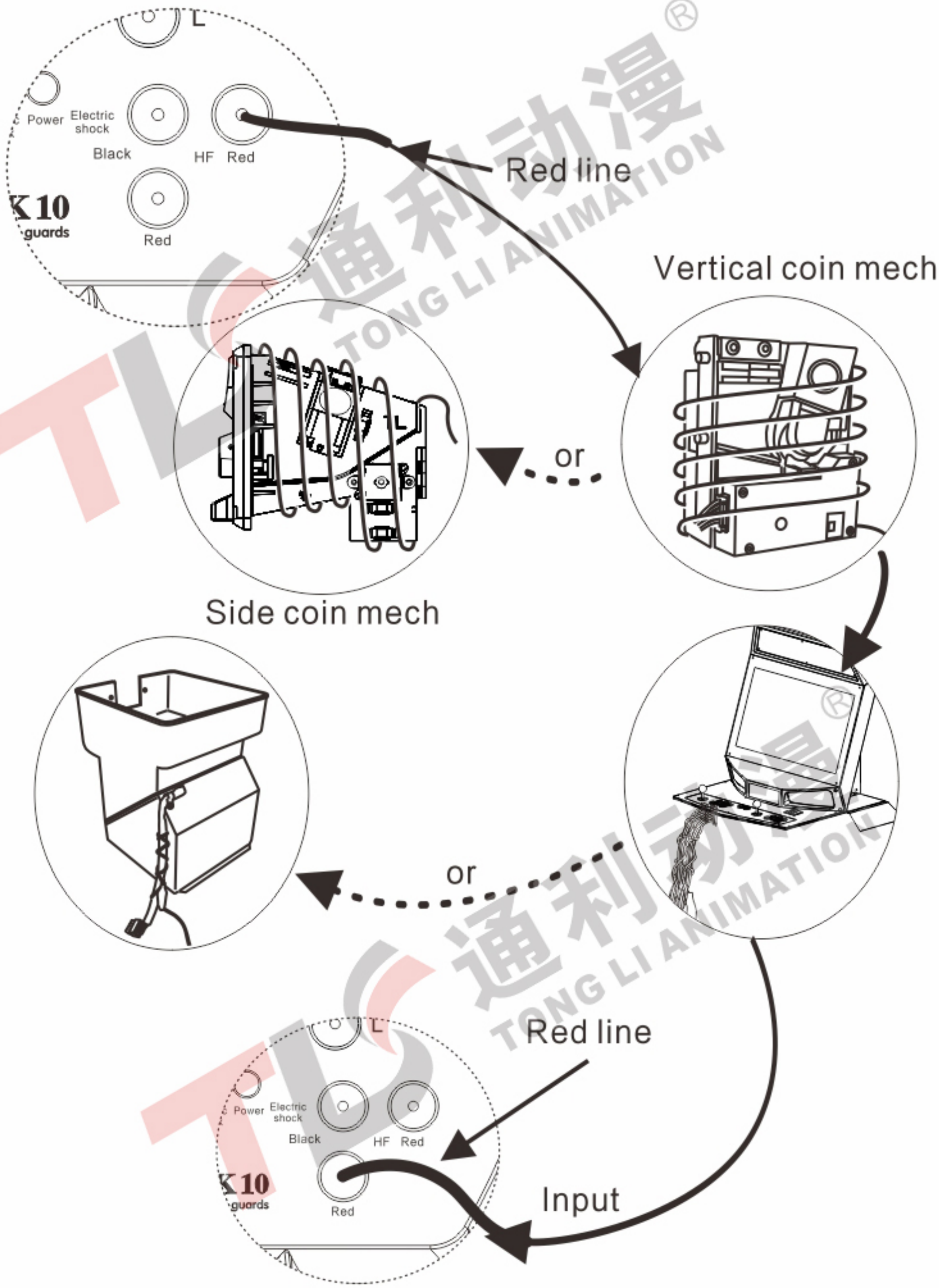
1.Alarm mode can choose manual mode,auto mode and alarm mode
Manual mode: indicator light will light when manual mode, manual relieve when power off and alarm during interference.
Auto mode: indicator light will light when auto mode, auto recovery after 10 seconds when power off and alarm during interference.
Alarm mode: indicator light will not light when manual and auto mode,auto recovery after 10 seconds when alarm but not power off during interference(Remark: Better to connect T·L® TL-008 alarm lamp).
2.Three sections adjust sensitivity with LED light,Blue:poor sensitivity; Green: normal sensitivity(Factory default),Red:strong sensitivity.
3.Power indicator light flash when security guards power on,stop after 5 seconds,relay disconnect AC110V output and delay power supply the socket
4.Security guards alarm and power off,high voltage electric shocks indicator light flash when high voltage electric shocks interference.
5.Security guards alarm and power off,high frequency indicator light flash when wireless high frequency interference.

5.Installation diagram

❶ Fixing security guards on the machine nearby host machine,extension 220V power input plug.

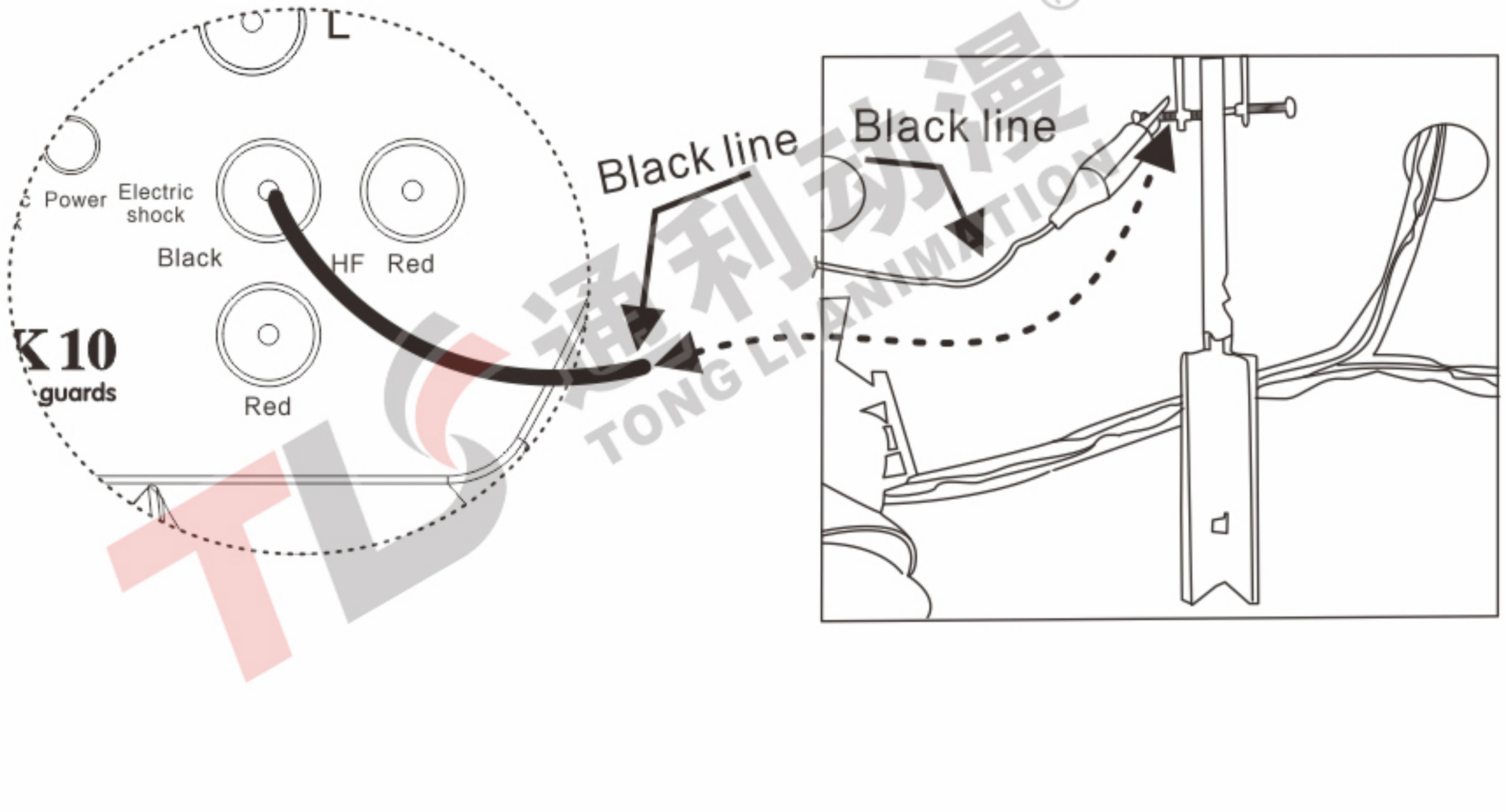


❷ Red line connect to anti high frequency connector,should wind around coin selector line,separate line,controller line and vuln-erable to interference place

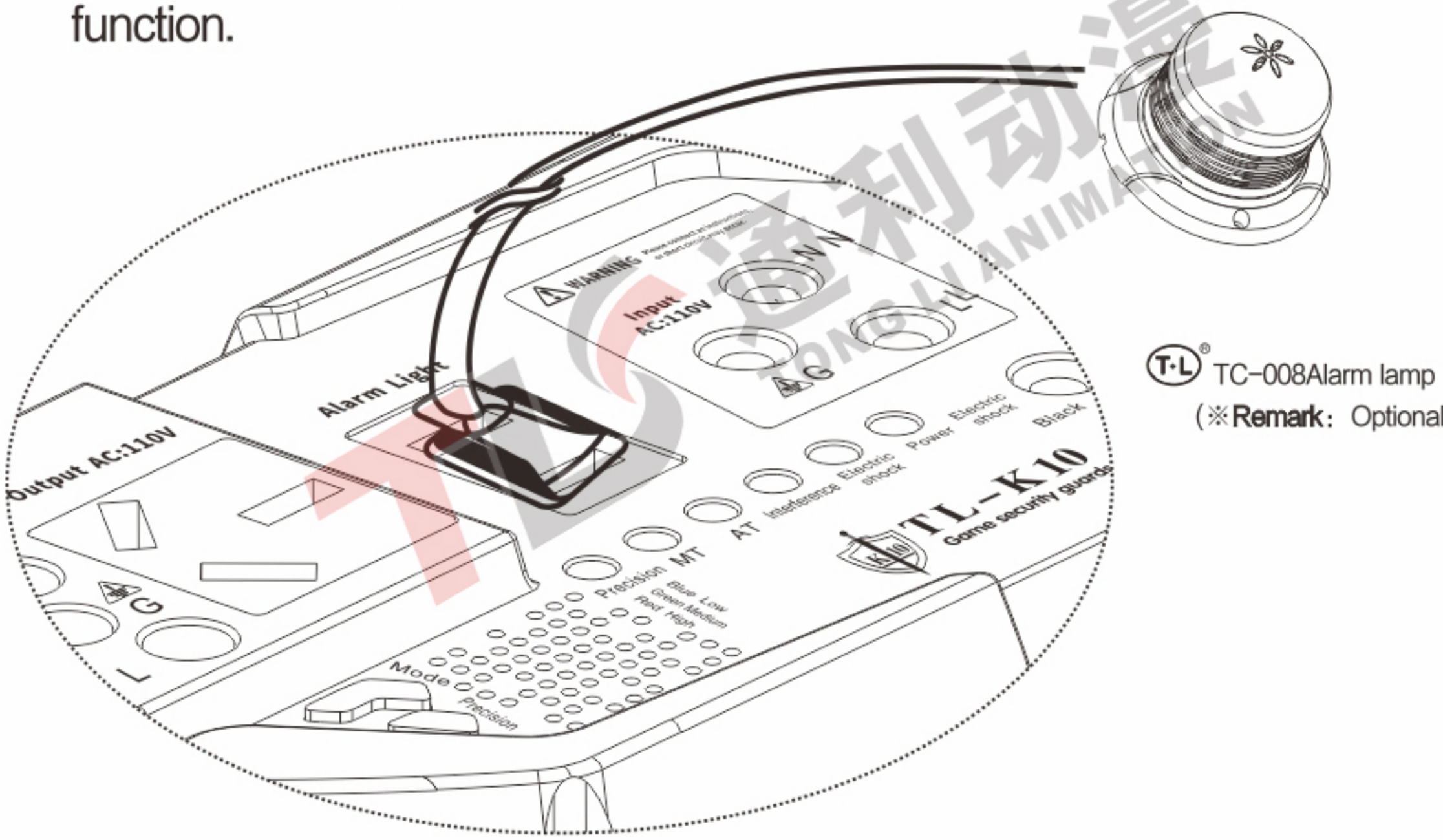


❸ After winding around,plug another side to high frequency position, composing a encircle accepting way.

❹ Black line connect to anti electric shock antenna connector,should grab lanes screw,controller metal,screw of coin selector ticket dispenser panel and other bare metal outside of machine.



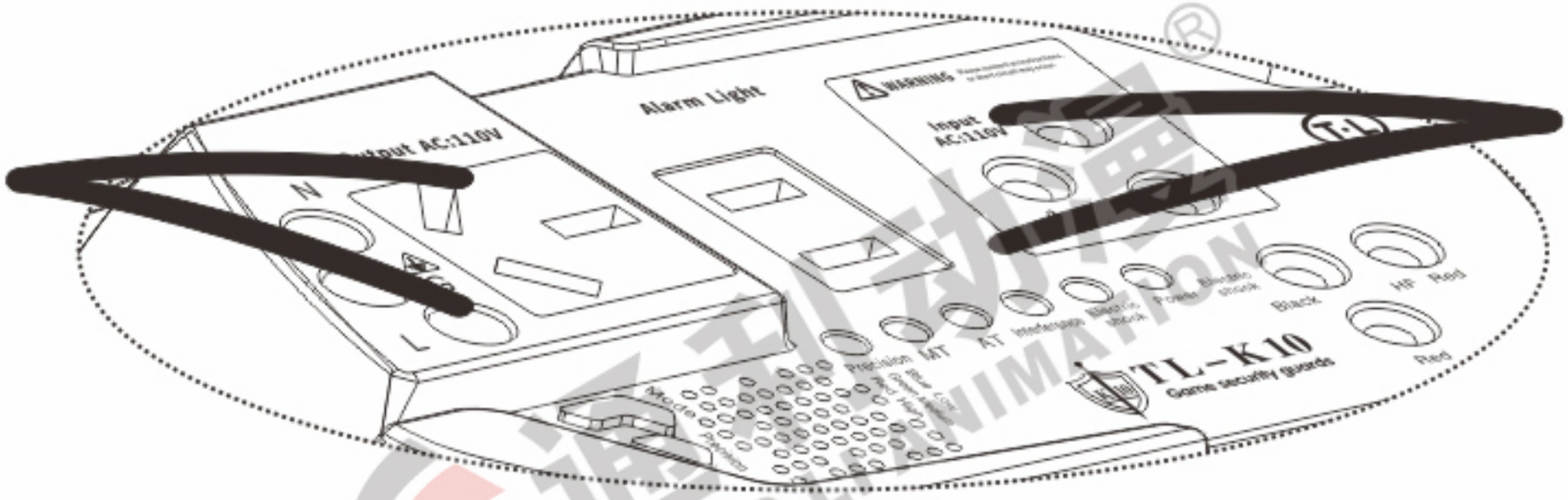
❺ Alarm socket is T·L® TL-008 alarm lamp(Optional) special socket, connect to alternating current directly,no delay and auto power off function.



T·L® TC-008Alarm lamp
(※**Remark**: Optional)

❻ Nput connector connect input AC110V,output connector and delay socket(power supply protected game machine) output AC110V, delay and auto power off function when power on and interference.

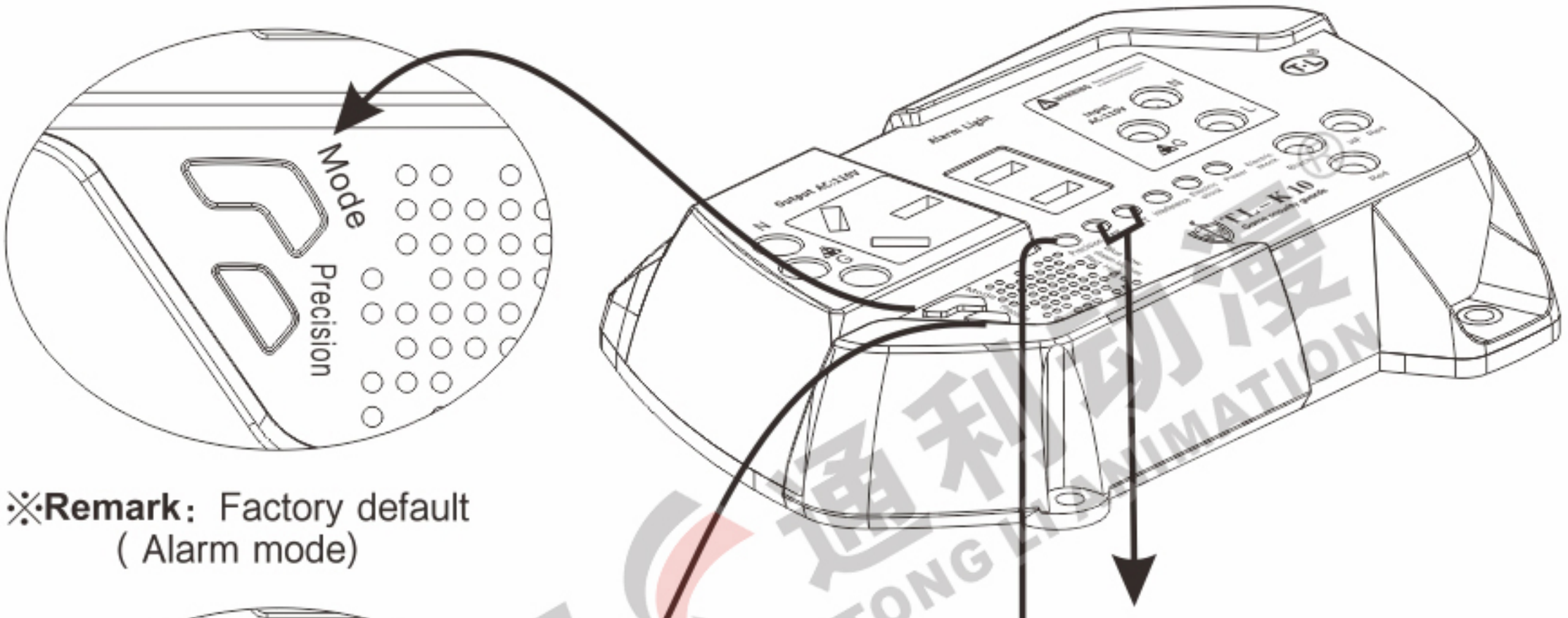
Connect to game machine



AC110V Input

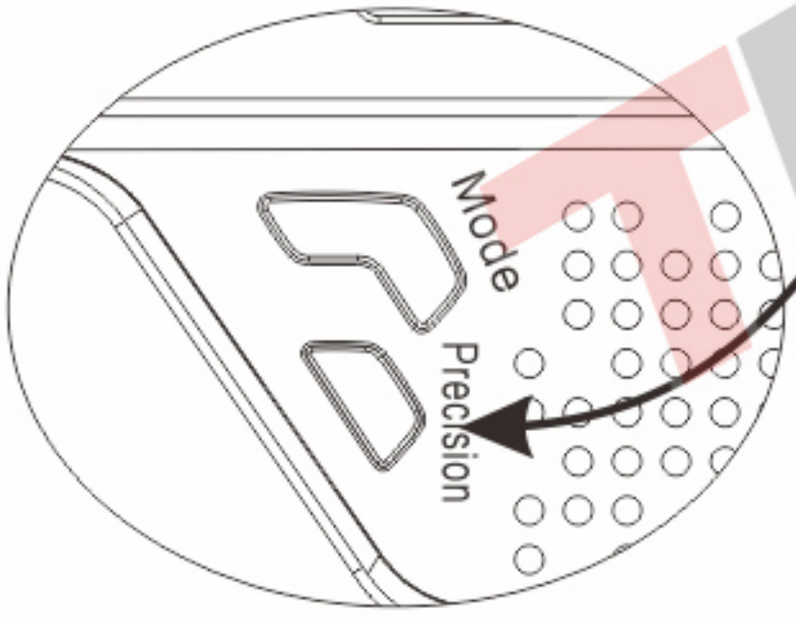
(Buzzle ring twice, power indicator light flash when powering on AC110V.Security guards start to power on game machine.)

❼ Choosing security guards alarm mode and sensitivity according to game machine needing



※**Remark**: Factory default
(Alarm mode)

Three sections mode:(LED light)
1 section-light:Manual mode
2 section-light:Auto mode
3 section-no light:Alarm mode



※**Remark**: Factory default:normal sensitivity
(LED light:Green)

Three sections sensitivity
1 section-Blue:poor sensitivity
2 section-Green:normal sensitivity
3 section-Red:strong sensitivity

6. Common fault handling

No.	Normal fault	Method
1	Power indicator light fail light,game machine without electric	A. Check whether security guards alternating current 110V line is connected B. Check whether power socket of security guards alternating current 110V line have 110V
2	Power indicator light lighing,game machine without electric	A. Check whether alternating current 110V is less 100V. B. Make sure that game machine and security guards power interface are in good connection.
3	Alarm always when interference,not auto recovery	A.Change mode switch to auto mode. B.Check whether mode switch is good. C.Alternating current is less 100V.
4	Fail alarm when wireless interference	A. Check whether anti high frequency antenna,anti ultra-high frequency antenna connect to security guards. B. Anti high frequency antenna,ultra-high frequency antenna should fix nearby vulnerable to interference place. C. Adjust sensitivity switch.
5	Fail alarm when electric shocks	A. Check whether anti electric shocks connect to security guards. B. Anti electric shocks line of crocodile clip should clip the metal outside machine, such as the metal panel of coin selector, the metal panel of ticket dispenser, controller metal. Can't clip in the computer board metal, and the metal connected earth to ground metal.
6	Occasionally alarm	A. Keep security guards far from power box. B. Reduce environmental interference,such as hopper, electric welding machine,high power wireless launching pad,aging unstable lamps and so on. C. Adjust sensitivity mode to reduce sensitivity. D. Keep anti high frequency antenna,anti ultra-high frequency antenna folding shorten.

※ **Remark**:

1. Alarm socket is special T·L® TL-008 alarm lamp socket AC110V,please don't connect to other plug.
2. Red line of security guards,green line of crocodile clip should clip corresponding red, green line to avoid damaging computer board by broking other line.
3. In order to be more convenient for user to know how to use, please put this manual into game machine

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