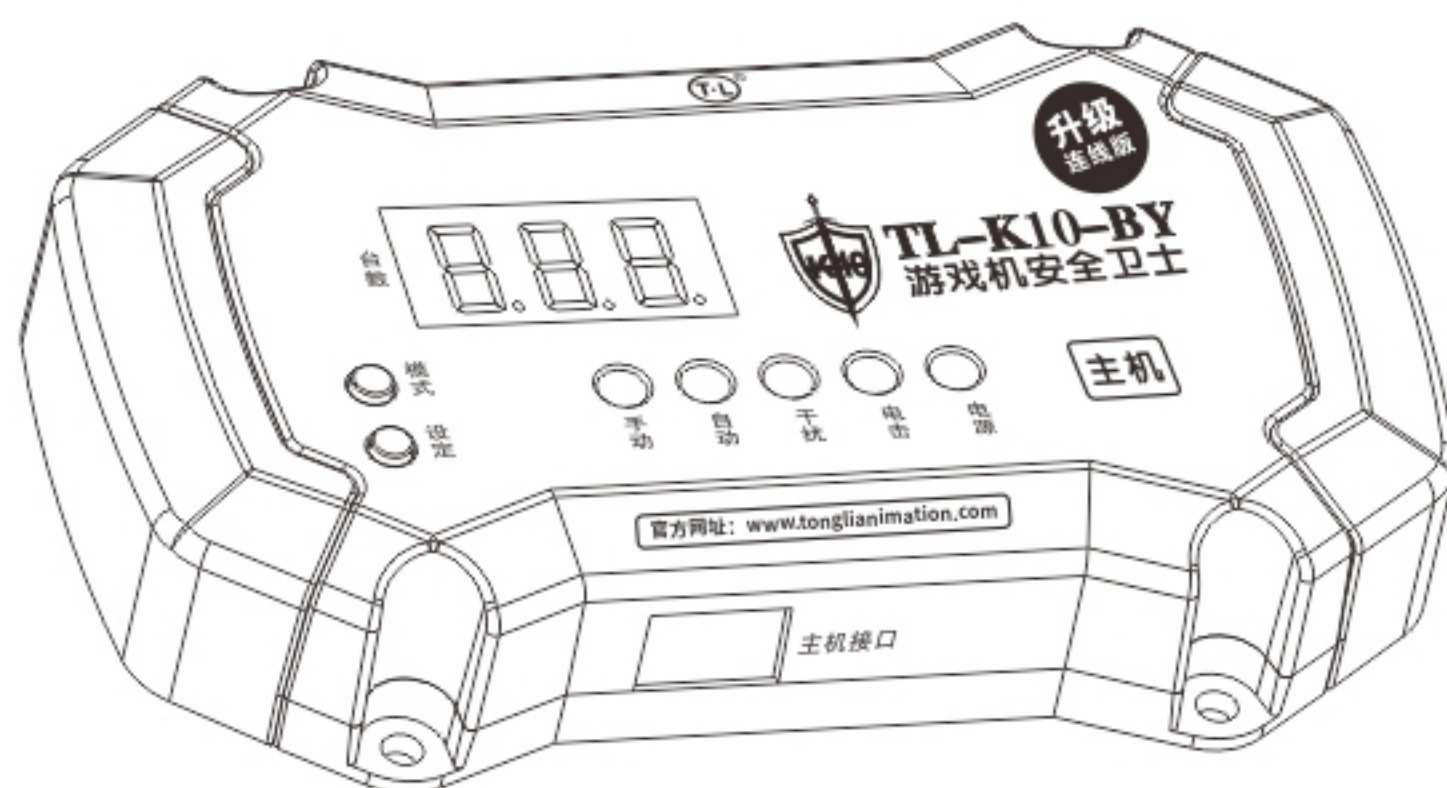


# 用户指南



**TL-K10-BY**  
**游戏机安全卫士**

连  
线  
版

- **感谢您购买**
- **在使用前，请务必阅读此说明书。**

## **一、产品规格：**

输入：AC100~240V~50/60Hz 1.0A

输出：DC12V=== 2A

工作温度：-15℃ ~ +50℃

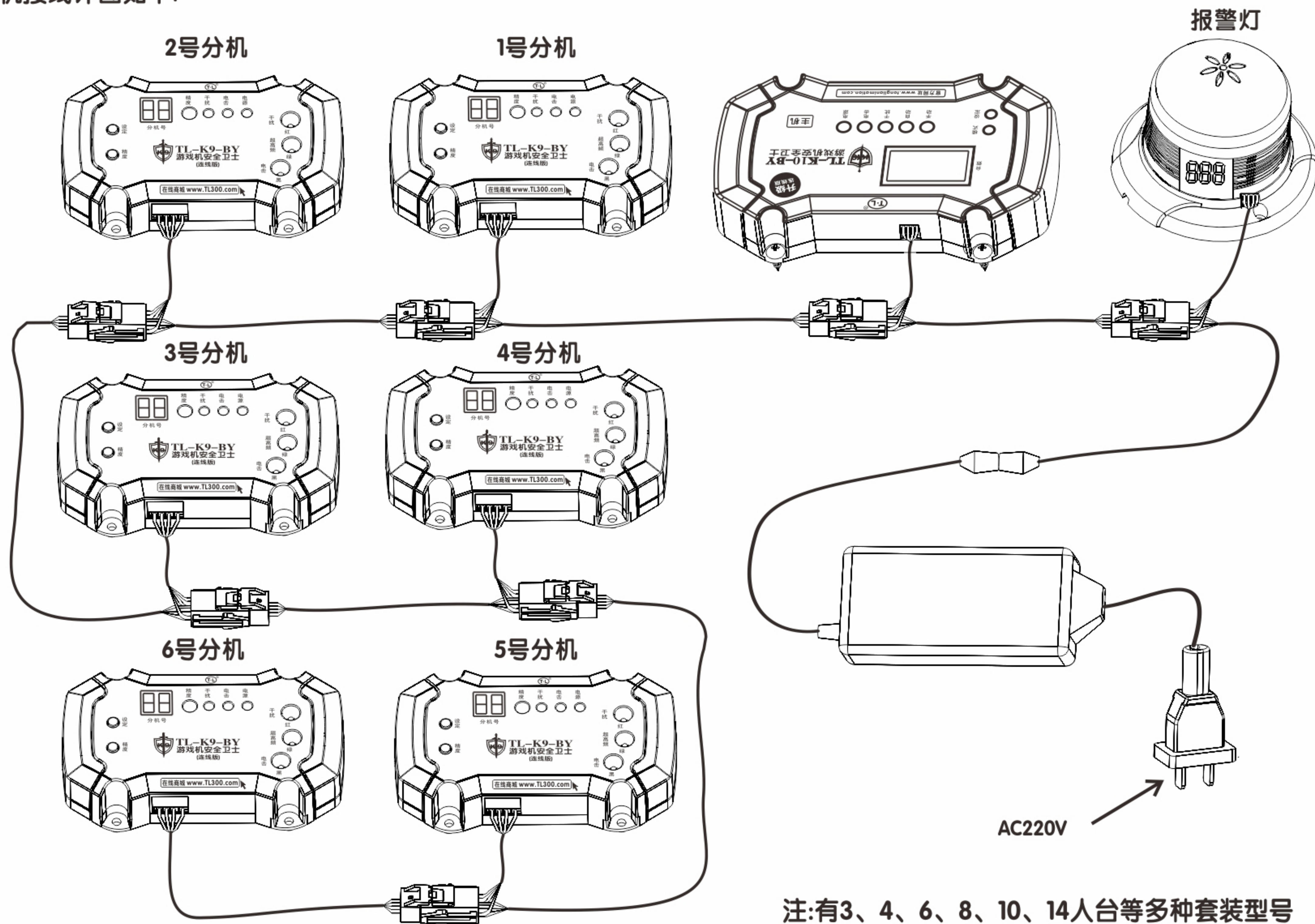
## **二、产品特点及功能：**

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. 智能检测且LED显示干扰信号源。
4. 报警模式及信号灵敏度5段可调（LED指示）。
5. 新增主分机数码设定并显示分机数量及分机号。
6. 新增智能检测并显示（各分机干扰及连接）故障代码。
7. 新增报警灯数码显示功能（显示当前分机报警状况和连接状况）。
8. 新增报警查询功能（可查询最后一次干扰报警状况）。

## **三、游戏机安全卫士联机安装步骤：**

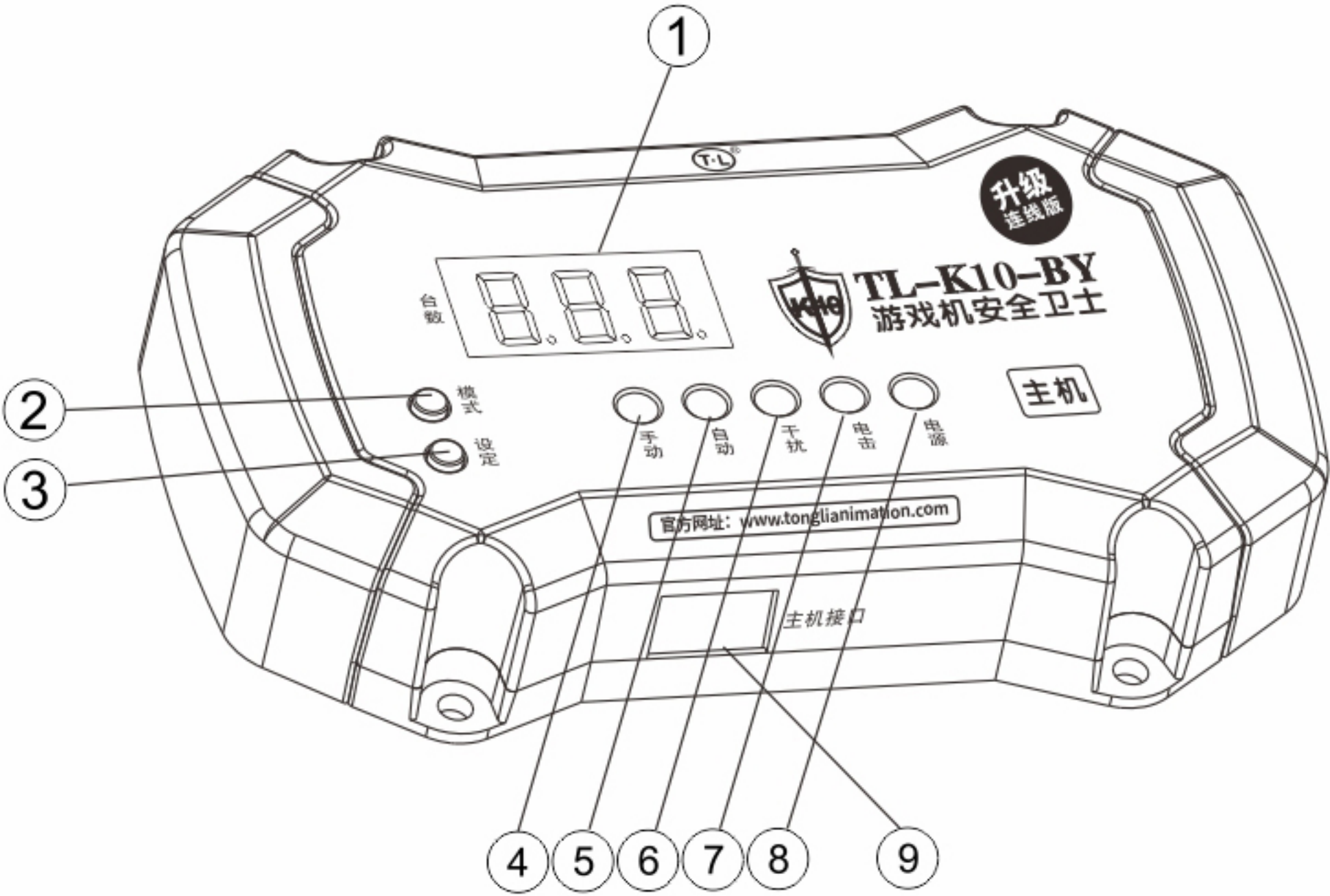
1. 在机台合适的位置固定分机、主机、数码报警灯。
2. 安装各分机防超高频天线、防高频天线、防电击天线。
3. 用专业通讯套线将分机、数码报警灯和主机连接。
4. 用自带12V电源适配器连接主、分机安全卫士通电。
5. 设定主机的报警模式、连线机台数。
6. 设定各分机的分机号和灵敏度，注分机号不可重叠和超过连线机台数。
7. 主机和分机设定完毕后，主机和数码报警灯上数码管静止显示连线机台数。  
若出现连接错误提示请按提示检查相应分机的通讯线连接和分机号设定。

联机接线详图如下:



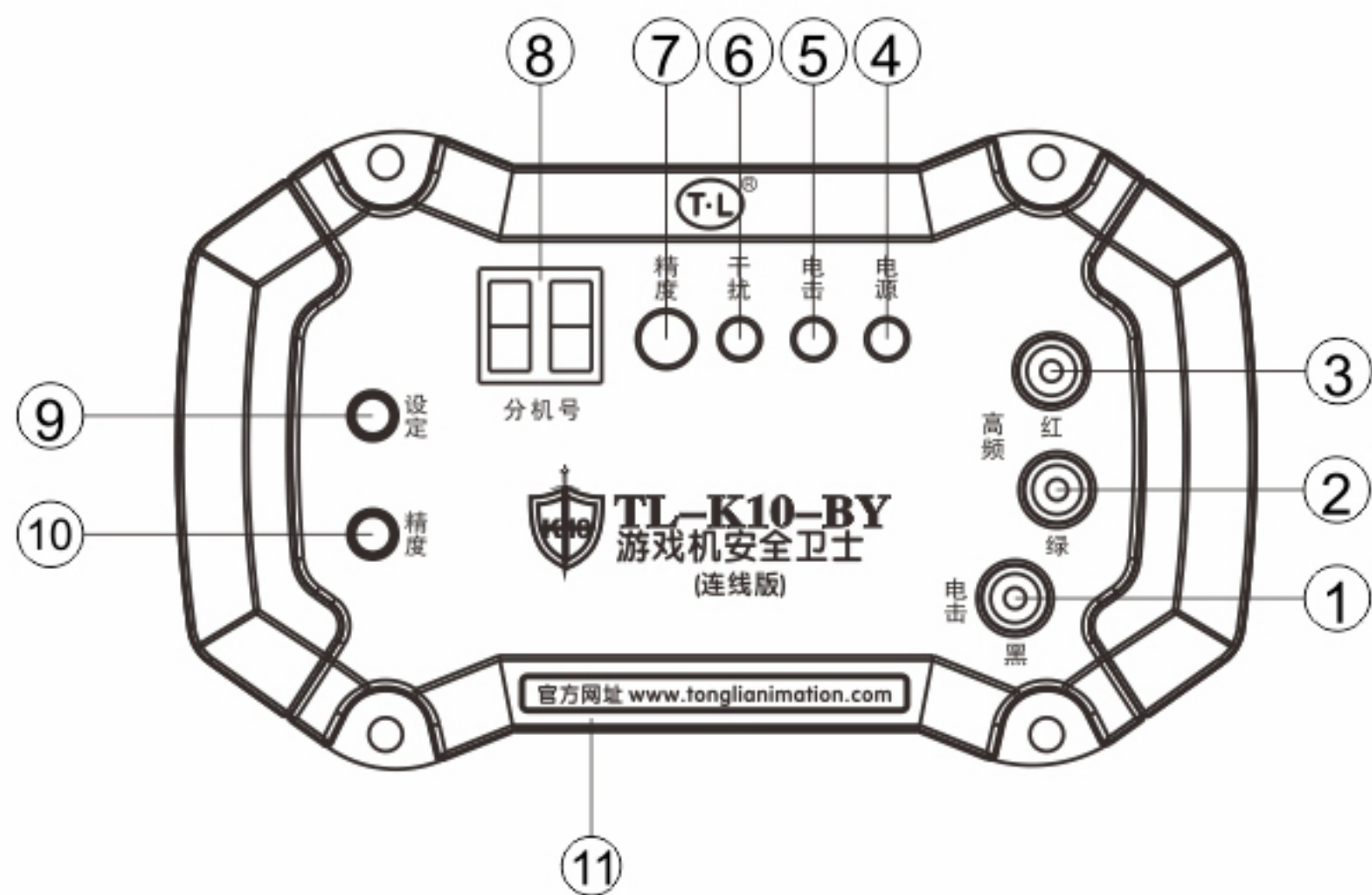
注:有3、4、6、8、10、14人台等多种套装型号

四、主机部件及功能键详见下图和列表：



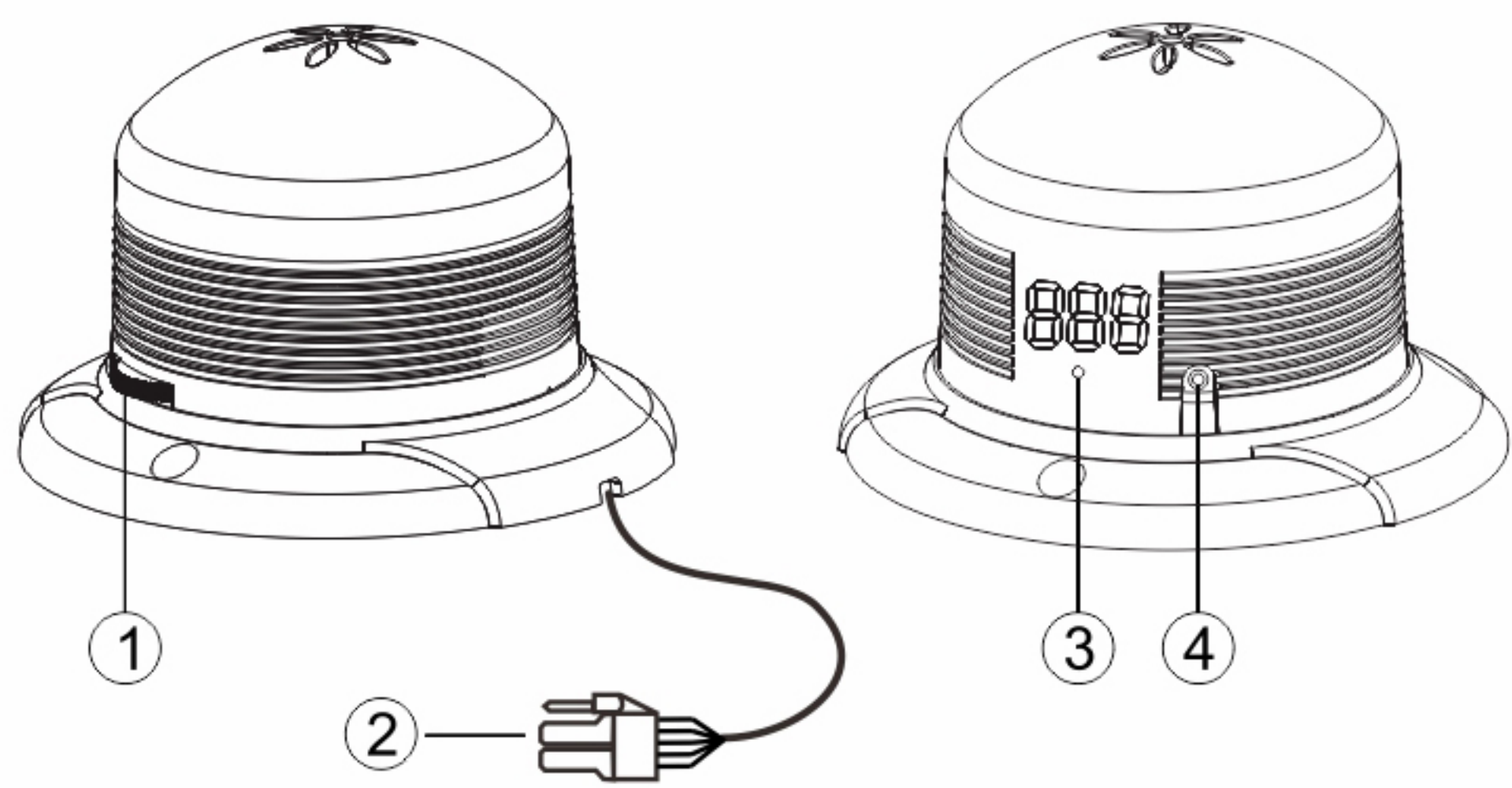
| 序号 | 部件名称    | 功能描述               | 备 注                                                                                                                                                |
|----|---------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | 数码管     | 显示连线机台数或某分机报警、连接错误 | 正常状态:显示联机机台数. 如: <b>006</b> 表示当前6台分机相连 报警状态:显示某分机报警. 如: <b>H02</b> 表示2号分机电击干扰报警, <b>F02</b> 表示2号分机辐射干扰报警. 连接状态:显示某分机连接错误. 如: <b>L03</b> 表示3号分机没连接. |
| 2  | 模式调节按键  | 调节二段报警模式           | 二段模式:<br>1. 报警手动恢复<br>2. 报警自动恢复(出厂默认值)                                                                                                             |
| 3  | 机台数设定键  | 按1次机台数加1           | 设定连线机台总数 (1-16)                                                                                                                                    |
| 4  | 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                                                                                                                                       |
| 5  | 自动模式指示灯 |                    | 选择自动模式时该指示灯亮                                                                                                                                       |
| 6  | 辐射干扰指示灯 | LED灯显示辐射干扰         | 辐射干扰时该指示灯红灯闪烁                                                                                                                                      |
| 7  | 电击干扰指示灯 | LED灯显示电击干扰         | 电击干扰时该指示灯红灯闪烁                                                                                                                                      |
| 8  | 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                                                                                                                         |
| 9  | 主机通讯口   | 主、分机和报警灯通讯         | 接套线上的主机插头                                                                                                                                          |

五、分机部件及功能键详见下图和列表：



| 序号 | 部件名称      | 功能描述                        | 备 注                                              |
|----|-----------|-----------------------------|--------------------------------------------------|
| 1  | 防高压电击线插头  | 接收高压电击信号                    | 防电击天线(黑色)天线夹到钱道螺丝、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 |
| 2  | 防超高频干扰线插头 | 接收超高频干扰信号                   | 防超高频天线(绿色)缠绕在出票器线、控制台线及易受干扰的地方                   |
| 3  | 防高频干扰线插头  | 接收高频干扰信号                    | 防高频天线(红色)缠绕在投币器线、开分线、控制台线及易受干扰的地方                |
| 4  | 电源指示灯     | LED灯显示工作状态                  | 刚通电时绿灯闪烁5秒后指示灯常亮,进入工作状态                          |
| 5  | 电击干扰指示灯   | LED灯显示电击干扰                  | 电击干扰时该指示灯闪烁                                      |
| 6  | 辐射干扰指示灯   | LED灯显示辐射干扰                  | 辐射干扰时该指示灯闪烁                                      |
| 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<br>绿色：灵敏度正常(出厂默认值)<br>红色：灵敏度强            |
| 8  | 数码管       | 显示此分机号                      | 分机号1-16间调节                                       |
| 9  | 分机号设定键    | 设定分机号使用<br>按1次分机台数加1        | 分机号1-16间调节                                       |
| 10 | 精度调节按键    | 调节三段接收干扰信号<br>灵敏度(伴有LED灯指示) | 三段灵敏度：<br>1. 灵敏度弱<br>2. 灵敏度正常(出厂默认值)<br>3. 灵敏度强  |
| 11 | 通讯接口      | 连接通讯线和主机进行<br>信号传递          |                                                  |

六、数码报警灯部件及功能键详见下图和列表：



| 序号 | 部件名称   | 功能描述        | 备 注                 |
|----|--------|-------------|---------------------|
| 1  | 音量调节旋钮 | 音量开关、调节音量大小 |                     |
| 2  | 电源信号接口 | 接收电源信号      |                     |
| 3  | 数码管    | 显示机台号或其工作状态 |                     |
| 4  | 查询按键   | 选择所需查询的机台   | 查询机台工作状态并在数码管上LED显示 |

注： 请用包装盒内自带DC12V电原专用适配器（恒压、恒流、滤波）使性能更佳安全稳定。  
兼容性强（输入AC100–240V)国内外通用。(如下图示)



## 七、细节说明:

1. 主机的连线机台数设定：按实际使用环境来决定，  
例如8人的连线机台，那么安全卫士的主机上设定为8，若大于8或小于8时产生连接错误、检测不到。
- 2、主、分机数码管各种显示说明：

|             | 数码管显示 |  |  | 显示状态 | 显示说明           |
|-------------|-------|--|--|------|----------------|
| 主机3位<br>数码管 |       |  |  | 常亮   | 表示当前主机设定为12人连线 |
|             |       |  |  | 闪烁   | 表示01号分机没有连接上   |
|             |       |  |  | 闪烁   | 表示05号分机电击干扰报警  |
|             |       |  |  | 闪烁   | 表示08号分机辐射干扰报警  |
| 分机2位<br>数码管 |       |  |  | 常亮   | 表示此台分机设为2号分机   |

注意：数码报警灯上3位数码管的显示意义和主机一样。

3. 报警模式可设定为手动模式、自动模式。  
手动模式:手动模式指示灯亮，受干扰时自动报警，需要人工解除。  
自动模式:自动模式指示灯亮，受干扰时自动报警，十秒后自动恢复。
4. 分机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。
5. 若某分机高压电击干扰时，该分机电击指示灯LED闪烁，主机同时响应，电击指示灯LED闪烁，主机数码管闪烁显示HXX（XX代表分机号），数码报警灯发出声光报警且数码管闪烁显示HXX（XX代表分机号）。
6. 若某分机辐射干扰时，该分机辐射指示灯LED闪烁，主机同时响应，辐射指示灯LED闪烁，主机数码管闪烁显示FXX（XX代表分机号），数码报警灯发出声光报警且数码管闪烁显示FXX（XX代表分机号）。

## 八、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  | 主机或分机的电源指示灯不亮, 数码报警灯不亮               | A、检查主机、分机的通讯插头 B、检查自配的12V电源适配器及适配器和套线的连接。                                                            |
| 2  | 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、防高频天线、防超高频天线尽量靠近易被人干扰的地方。C、调节精度开关                                      |
| 3  | 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。 |
| 4  | 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。     |
| 5  | 某分机受干扰报警而主机不报警                       | A、检查该分机的通讯接口。B、该分机号是否超过主机所设定的连线机台数。C、主机所设定的连线机台数小于实际的连线机台数                                           |
| 6  | 主机的数码管显示数据不能在数码报警灯上显示, 主机报警而数码报警灯无反应 | A、检查数码报警灯的通讯接口                                                                                       |
| 7  | 主机数码管上闪烁显示LXX                        | A、闪烁显示LXX表示XX号机台没有连接好, 检查此号分机通讯接口。                                                                   |

**※ 注:** 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。

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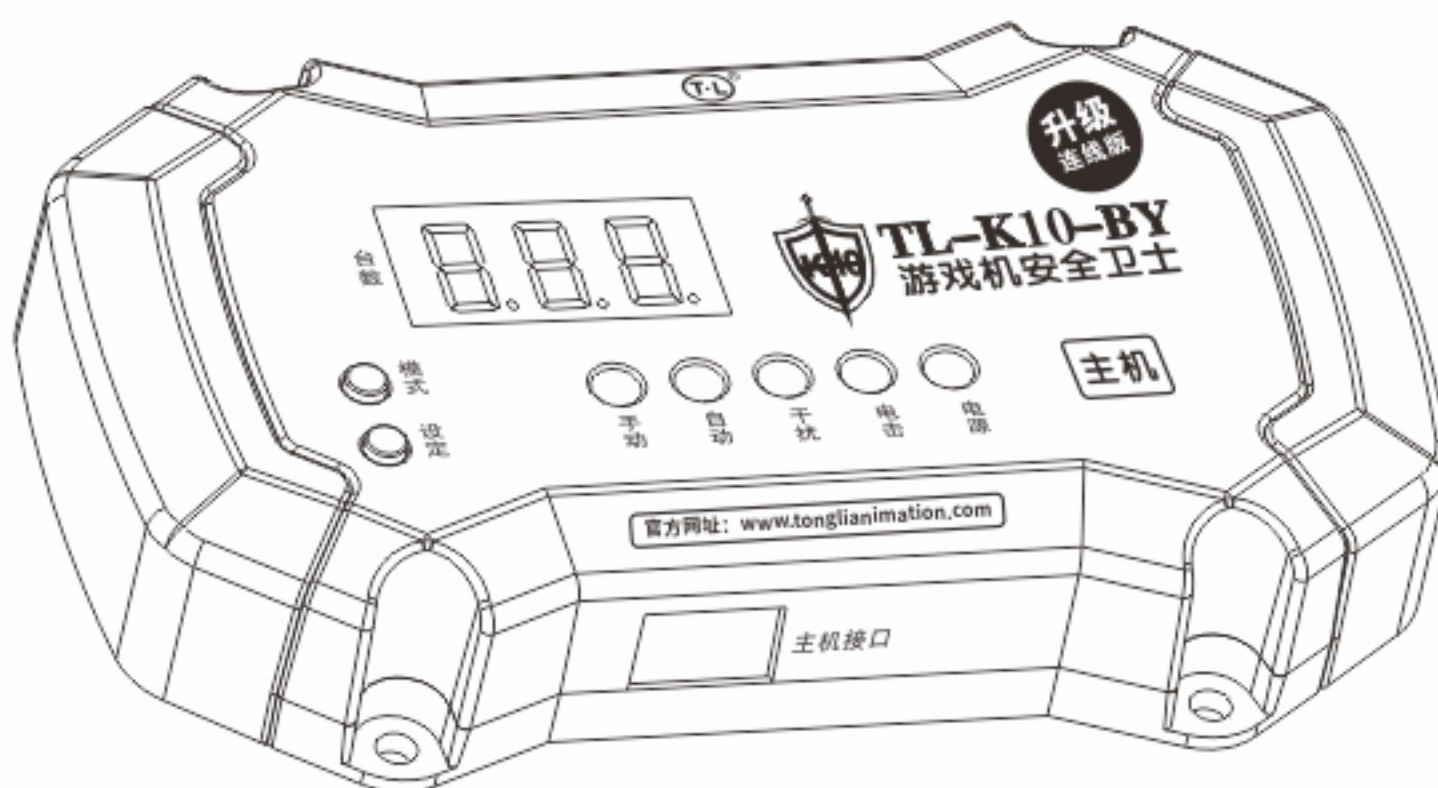
地址: 广州市番禺区东环街迎星东路143号星力动漫产业园H19号

官方网址: [www.tonglianimation.com](http://www.tonglianimation.com)



**TONG LI**  
Founded in 1991

# User Guide



## **TL-K10-BY**

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### **Game Security Guards**



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

## **1. Product specification:**

Input: AC100~240V~50/60Hz 1.0A

Output: DC12V——2A

Working temperature: -15°C~+50°C

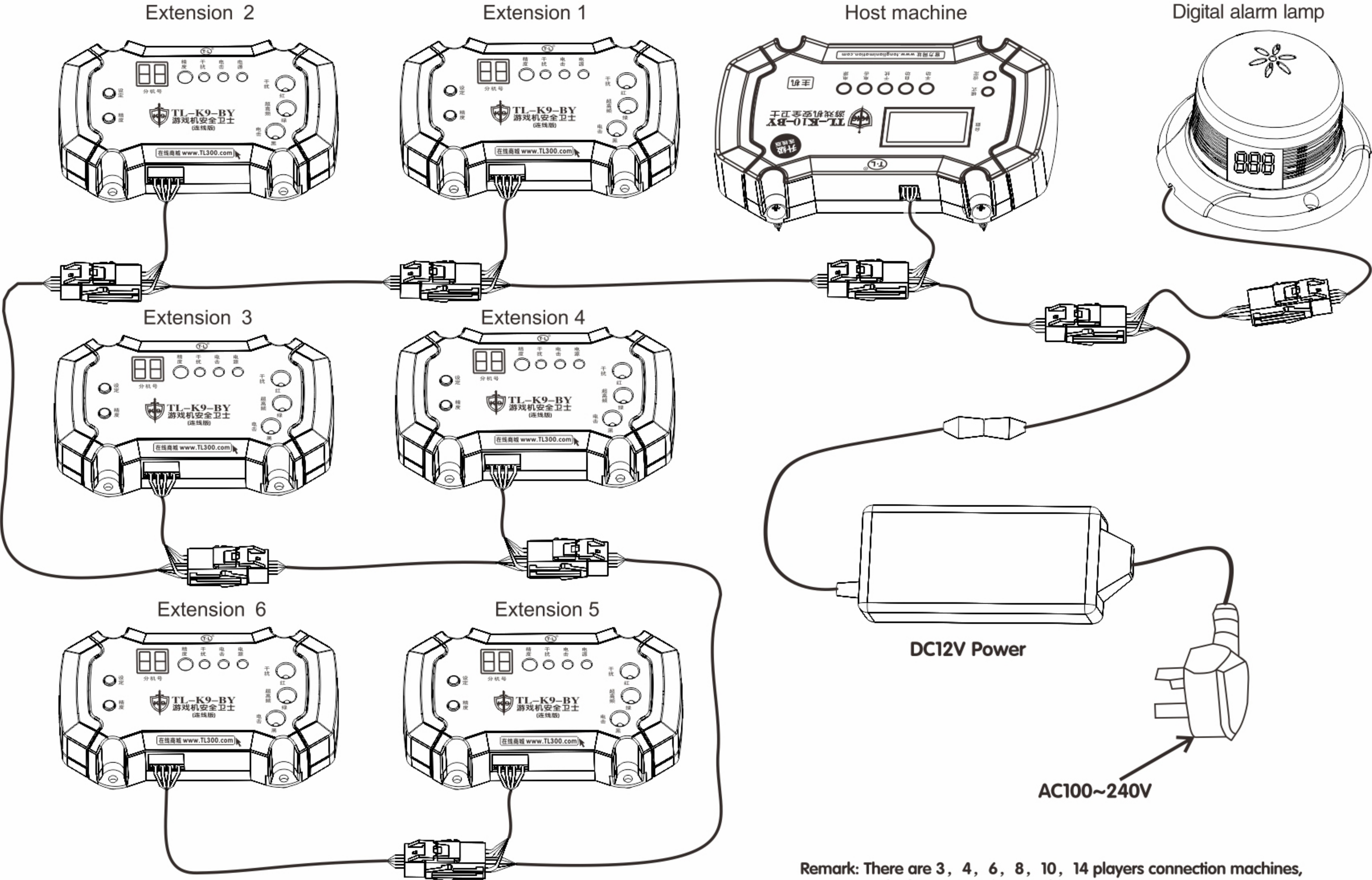
## **2. Product characteristics :**

- 1.CPU program control and delay precisely.
- 2.Intelligent processing interference signal, filtering the interference source.
- 3.Intelligent detection and distinguishing the interference pattern (LED lights display).
- 4.Alarm mode and signal sensitivity, 5 sections are adjustable (LED lights display).
- 5.New function of digital display extension number on master extension machine.
- 6.New function of intelligent detection and distinguishing fault code (extension interference and connection).
- 7.New digital display function of alarm lamp (display current extension alarm status and connection status).
- 8.New query function when alarm (you can query the last interference alarm status)

## **3.Game security guards connection assembling steps:**

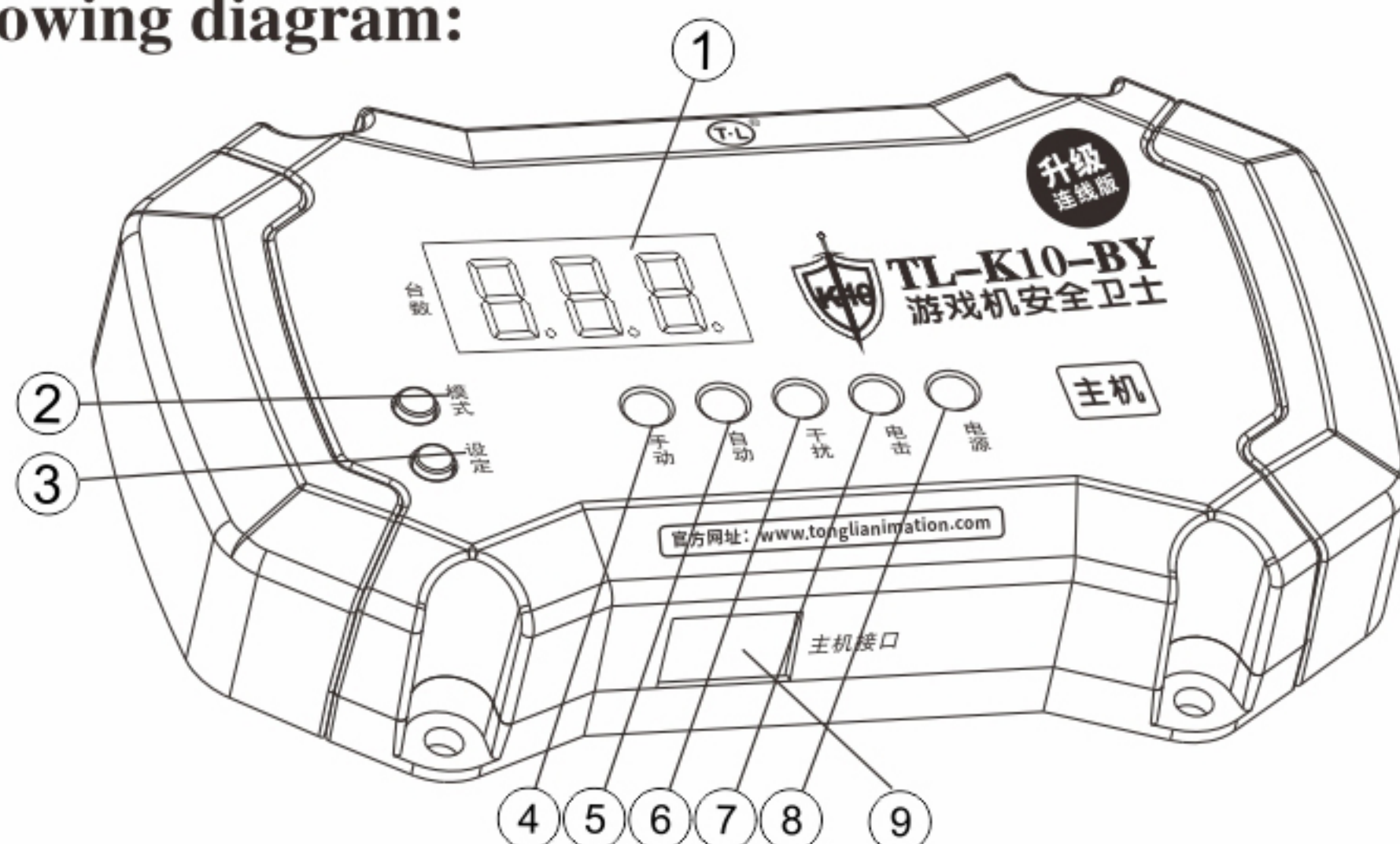
- 1.Fix extension,host machine and digital alarm lamp on suitable place of game machine.
- 2.Install anti-super high frequency antenna,anti-high frequency antenna,anti-electric shock antenna.
- 3.Use professional communication wires to connect with entension,digital alarm lamp and host machine.
- 4.Use 12V self-contained power adaptor to power on security guards extension,host machine.
- 5.Set alarm mode,numbers of connection machines for host machine.
- 6.Set extension number and sensitivity,extension number should not overlap and exceed amount of game machine.
- 7.Digital tube will display amount of connection machines on host machine and digital alarm lamp after finishing to set extension and host machine.If there are error display, please check the connection of communication wire and set it according to related displayed extension number.

Wiring of connection machines as following diagram:



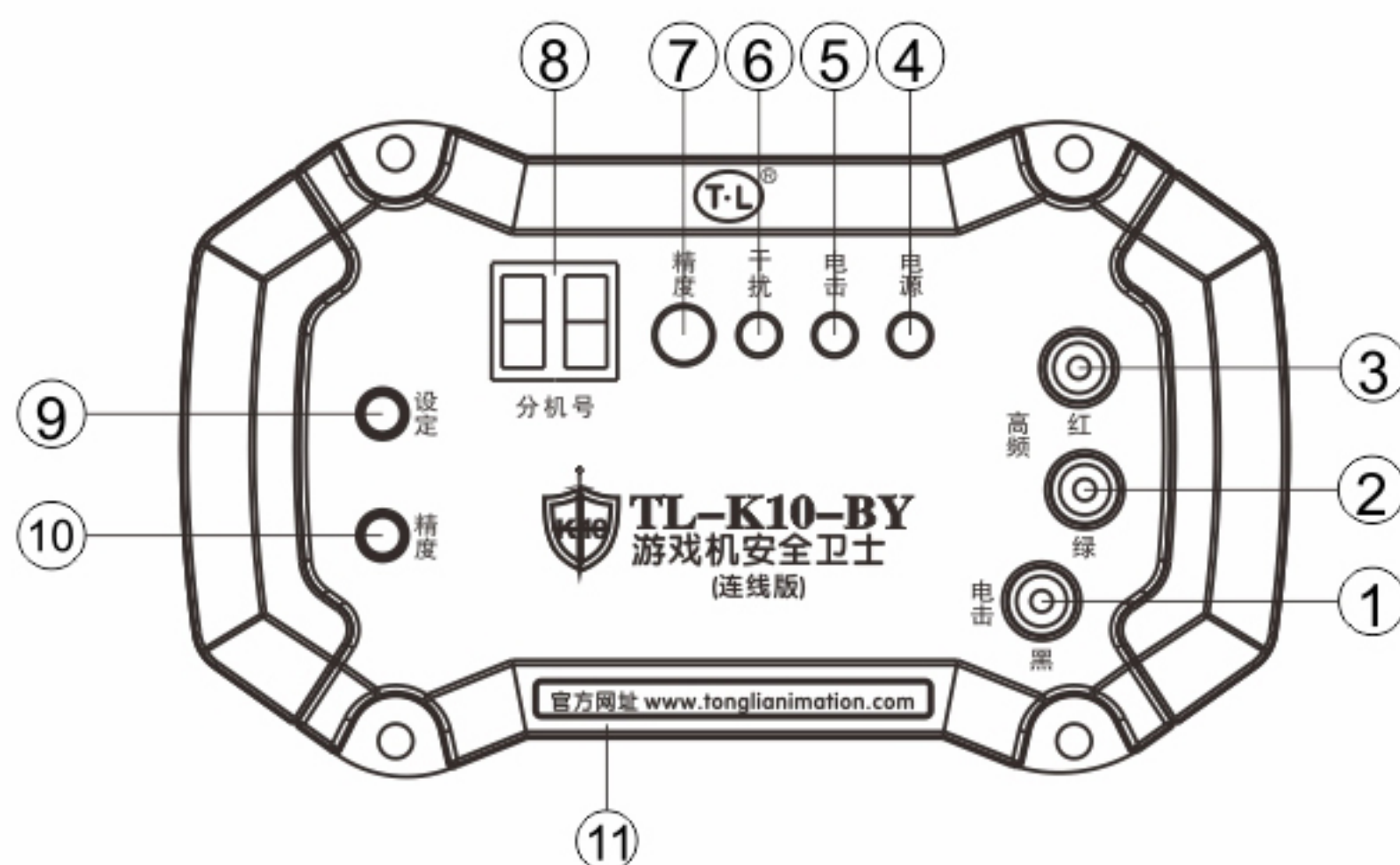
Remark: There are 3, 4, 6, 8, 10, 14 players connection machines, and other connection machines.

## 4.Component and function keys of host machine as following diagram:



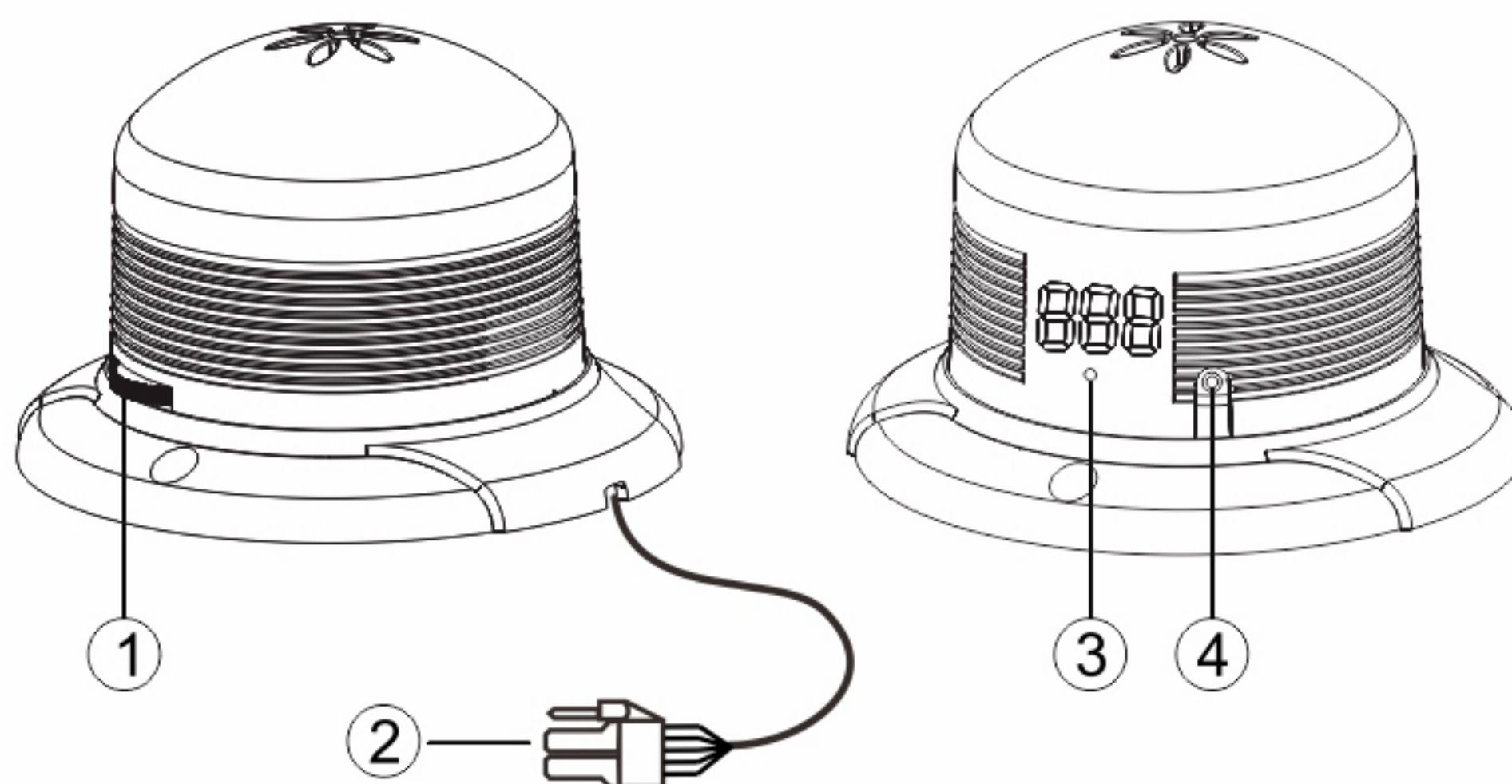
| No. | Component name                              | Function description                                                            | Remark                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----|---------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Digital tube                                | Display amount of connection machines or some extension alarm, connection error | Normal status:display amount of connection machines, for example: <b>006</b> show six extension machines are connected. Alarm status:display some extension alarm; for example: <b>H02</b> show extension 2 alarms by electric shock. <b>F02</b> show extension 2 alarms by radiator. Connection status:display some extension connects in error,for example: <b>L03</b> show extension 3 has not connected. |
| 2   | Mode adjust button                          | Adjust two sections alarm mode                                                  | Two sections mode:<br>1.Alarm during interference,manual recovery<br>2.Alarm during interference, automatic recovery(Factory default)                                                                                                                                                                                                                                                                        |
| 3   | Game machine number set button              | Add one according to one time game machine number                               | Set amount of connection machines (1-16)                                                                                                                                                                                                                                                                                                                                                                     |
| 4   | Manual mode indicator light                 | LED light display alarm mode                                                    | This indicator light will light during choosing manual mode                                                                                                                                                                                                                                                                                                                                                  |
| 5   | Auto mode indicator light                   |                                                                                 | This indicator light will light during choosing auto mode                                                                                                                                                                                                                                                                                                                                                    |
| 6   | Radiation interference indicator light      | LED light display radiation interference                                        | The red indicator light will flash when radiation interference                                                                                                                                                                                                                                                                                                                                               |
| 7   | Electric shock interference indicator light | LED light display electric shock interference                                   | The red indicator light will flash when electric shock interference                                                                                                                                                                                                                                                                                                                                          |
| 8   | 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                                                                                                                                                                                                                                                                                                    |
| 9   | Host machine communication connector        | Communication of host,extension machine and alarm lamp                          | Connect to plug of host machine                                                                                                                                                                                                                                                                                                                                                                              |

## 5.Component and function keys of extension as following diagram:



| No. | Component name                                   | Function description                                                                     | Remark                                                                                                                                                                      |
|-----|--------------------------------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Plug of anti-high voltage electric shock         | Receiving high voltage electric shock 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.                 |
| 2   | Plug of anti – ultra high frequency interference | Receiving ultra high frequency interference signal                                       | Green line connect to anti ultra-high frequency antenna connector,should wind around hopper line,ticket dispenser line,controller line and vulnerable to interference place |
| 3   | Plug of anti- high frequency interference        | Receiving high frequency interference signal                                             | Red line connect to anti ultra-high frequency antenna connector,should wind around hopper line,ticket dispenser line,controller line and vulnerable to interference place   |
| 4   | Power indicator light                            | LED light display working status                                                         | Green indicator light stay light and flash after 5 seconds when power on,and then to be on working status                                                                   |
| 5   | Electric shocks interference indicator light     | LED light display electric shock interference                                            | This light will flash when electric shock interference                                                                                                                      |
| 6   | Radiation interference indicator light           | LED light display radiation interference                                                 | This light will flash when radiation interference                                                                                                                           |
| 7   | Precision indicator light                        | Three colors variation of indicator light display three sections mode                    | Blue:poor sensitivity<br>Green:normal sensitivity(Factory default)<br>Red: strong sensitivity                                                                               |
| 8   | Digital tube                                     | Display extension number                                                                 | Adjust extension number between 1 and 16                                                                                                                                    |
| 9   | Extension number set button                      | Set extension number using, and add one according to one time game machine number        | Adjust extension number between 1 and 16                                                                                                                                    |
| 10  | Precision adjustment button                      | Adjust three sections to receive interference signal and sensitivity (LED light display) | Three sensitivities:<br>1. poor sensitivity<br>2. normal sensitivity (Factory default)<br>3. strong sensitivity                                                             |
| 11  | Communication connector                          | Connect to communication wire and host machine for signal transmission                   |                                                                                                                                                                             |

## 6、 Digital alarm lamp parts and function key as following diagram:



| No. | Component name         | Function description                         | Remark                                                      |
|-----|------------------------|----------------------------------------------|-------------------------------------------------------------|
| 1   | Volume adjusting knob  | Volume switch, adjusting volume              |                                                             |
| 2   | Power signal interface | Receiving power signal                       |                                                             |
| 3   | Digital tube           | Showing number of machine or working status  |                                                             |
| 4   | Query button           | Choosing the machine which you need to query | Querying the working status and LED display on digital tube |

**Note:** please use the dedicated DC12V power adapter(constant voltage,constant current,filter) inside the packing box to make the performance better,safier and more stable,high compatibility(AC 100–240V input)suitable for domestic and abroad use.



## 7.Details instruction:

1.You can set the amount of connection host machines according to actual using environment.

For example: Eight players connection machines,host machine of security guards set eight,if it is more than eight or less than eight,it will cause connection error and not be detected.

2. Extension digital tube display instruction:

|                                             | Digital tube display |  |  | Display status   | Display instruction                                                            |
|---------------------------------------------|----------------------|--|--|------------------|--------------------------------------------------------------------------------|
| Three sections digital tube of host machine |                      |  |  | Continuous Light | Indicate that there are 12 players connection for current host machine setting |
|                                             |                      |  |  | Flash            | Indicate that extension 1 has not connected                                    |
|                                             |                      |  |  | Flash            | Indicate that extension 5 alarms by electric shock                             |
|                                             |                      |  |  | Flash            | Indicate that extension 8 alarms by radiation                                  |
| Two sections digital tube of extension      |                      |  |  | Continuous Light | Indicate that this extension is set to extension 2                             |

**Remark:** Three sections digital tube display meaning on digital alarm lamp is as same as it on host machine

3. Alarm mode can be set to manual mode,auto mode .

Manual mode: Indicator lamp of manual mode will light,alarm automatically when interference,it is needed to manual handle.

Auto mode: Indicator lamp of auto mode will light,alarm when interference,it will recover automatically after 10 seconds.

4.Precision of extension have three sections and LED lamp lights. Blue:poor sensitivity, Green:normal sensitivity,Red:strong sensitivity.

5.If some extension is interfered by high voltage electric shock,LED electric shock indicator light of this extension will flash, host machine will response at the same time,LED electric shock indicator light flash,digital tube of host machine display HXX(XX shows extension number),there are sound and light alarm and digital tube display HXX(XX shows extension number)on digital alarm lamp.

6.If some extension is interfered by radiation,LED radiation indicator light of this extension will flash, host machine will response at the same time,LED electric shock indicator light flash,digital tube of host machine display FXX(XX shows extension number),there are sound and light alarm and digital tube display FXX(XX shows extension number)on digital alarm lamp.

## 8. Common fault handling

| No. | Normal fault                                                                                                                            | Method                                                                                                                                                                                                                                                                                                                                                 |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Power indicator light and digital alarm lamp of host machine or extension fail lighting.                                                | A. Check communication plug of host machine and extension.<br>B. Check the connection of 12V self-contained power adaptor, adaptor and wires.                                                                                                                                                                                                          |
| 2   | Fail alarming when interference                                                                                                         | A. Change whether anti-high frequency antenna, anti-ultra high frequency antenna connect to security guards. B. Anti-high frequency antenna, anti-ultra high frequency antenna are close to vulnerable interference place. C. Adjust precision switch.                                                                                                 |
| 3   | Fail alarming when electric shocks                                                                                                      | A. Check whether anti-electric shock line connects to security guards.<br>B. Anti-electric shock 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. |
| 4   | Alarm occasionally                                                                                                                      | 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.<br>C. Adjust sensitivity mode to reduce sensitivity.<br>D. Keep anti high frequency antenna, anti ultra-high frequency antenna folding to shorten.      |
| 5   | Alarm on some extension when interference, but host machine does not alarm                                                              | A. Check the communication connector of extension. B. Check whether this extension number exceeds amount connection machines of host setting. C. Host setting of amount connection machines is less than actual connection machines.                                                                                                                   |
| 6   | Digital tube of host machine can not display digitals on digital alarm lamp, host machine alarms but no response for digital alarm lamp | A. Check the communication connector of digital alarm lamp.                                                                                                                                                                                                                                                                                            |
| 7   | Digital tube display LXX on host machine                                                                                                | A. Display LXX show that extension number XX is in a poor connection, please check communication connector of this extension.                                                                                                                                                                                                                          |

※ Remark: In order to be more convenient for user to know how to use, please put this manual into game machine

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