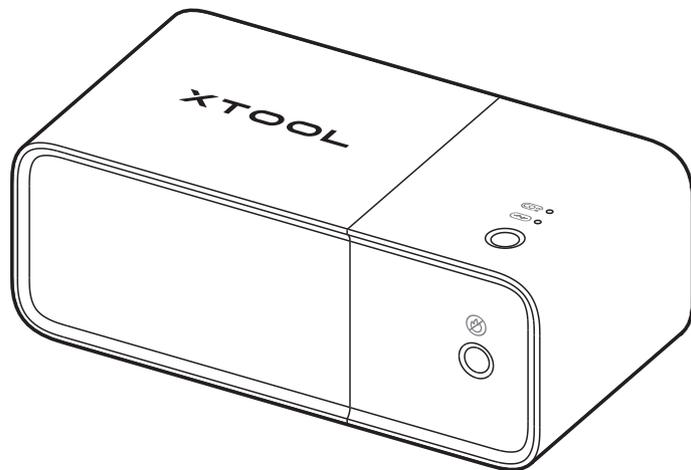


# XTOOL | Safety Set

用户手册



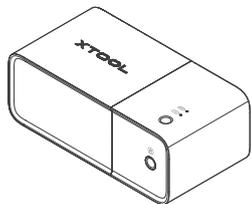
<b>概述</b>	<b>01</b>
<b>物料清单</b>	<b>02</b>
<b>认识火焰安全装置</b>	<b>03</b>
<b>安装火焰安全装置</b>	<b>04</b>
<b>使用前准备</b>	<b>04</b>
<b>使用火焰安全装置</b>	<b>08</b>
<b>保养与维护</b>	<b>15</b>

## 概述

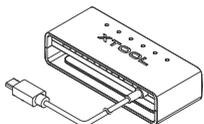
xTool 火焰安全装置是专为桌面级激光加工产品设计的一款安全辅助工具，通过其火焰传感器对设备的工作区域进行监测，检测到火焰即可触发报警，火焰较大时还可触发灭火动作，自动完成从监测到灭火的全过程。

工作温度	0°C~35°C
存储温度	0°C~45°C
支持的最大加工空间	0.13 立方米

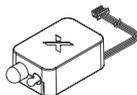
## 物料清单



控制盒



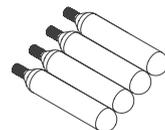
传感器集成盒



传感器 1



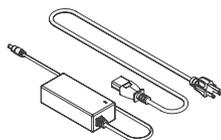
传感器 2



气瓶



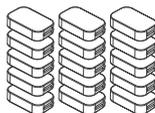
智能开关



电源适配器及电源线



xTool P2 连接线



线夹



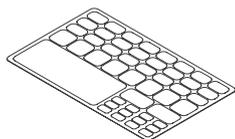
气管夹



气管



扎带



3M 胶纸



换气瓶提示贴纸



用户手册

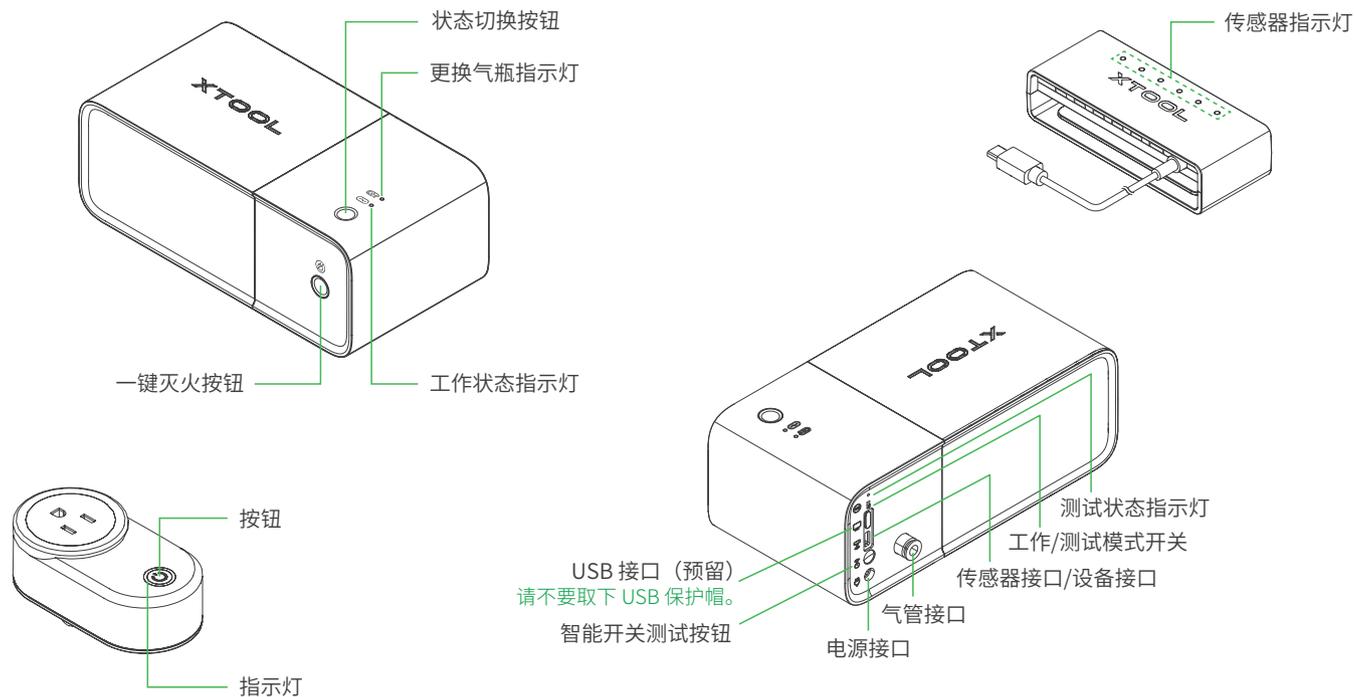


安全说明



不同套装包含的智能开关可能会有所不同，图片仅供参考，请以实际物料为准。

## 认识火焰安全装置



## 安装火焰安全装置

火焰安全装置的安装需以实际设备为准。

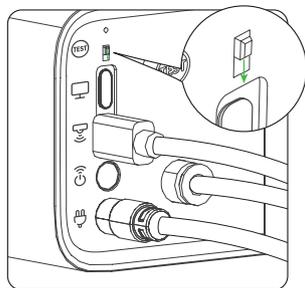
如使用 xTool 设备，可访问 [makeblock.com/cn/docs](https://makeblock.com/cn/docs) 或扫描二维码查看火焰安全装置详细的安装步骤。如使用第三方设备，可参考 xTool 类似机型的安装方式进行。



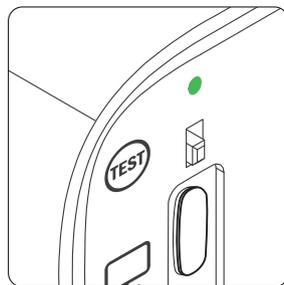
[makeblock.com/cn/docs](https://makeblock.com/cn/docs)

## 使用前准备

### 1. 进入测试模式

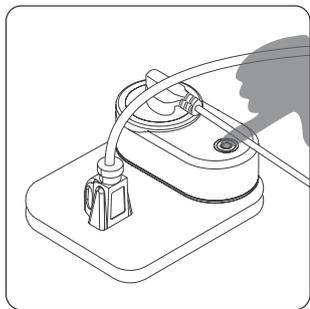


拨动开关至测试模式

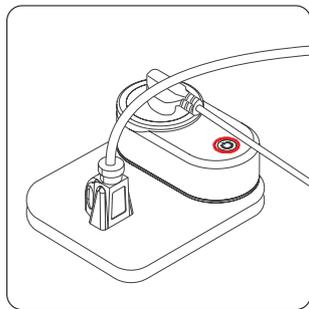


常亮

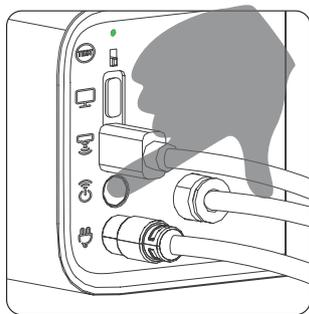
## 2. 控制盒和智能开关配对



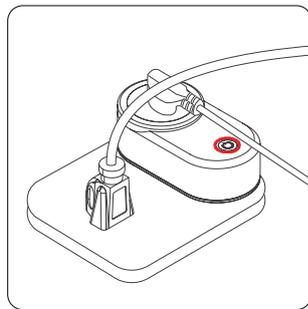
长按 5s



常亮

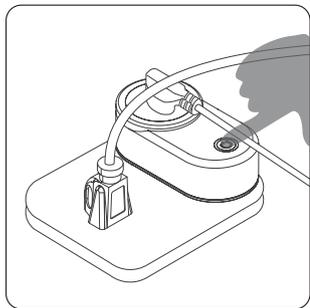


按下

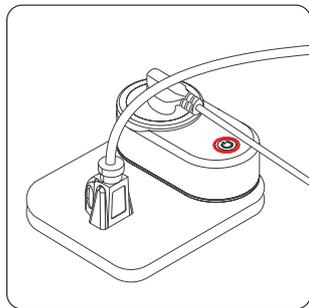


闪烁 3 次后熄灭，配对成功

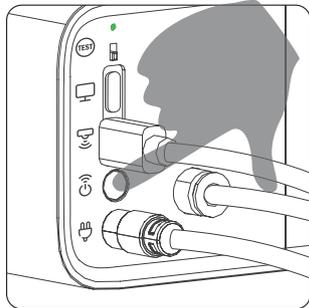
## 3. 测试智能开关的控制



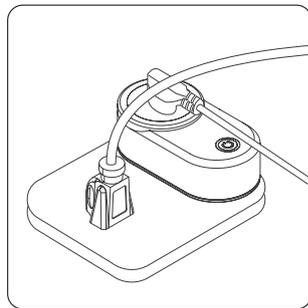
按下



常亮

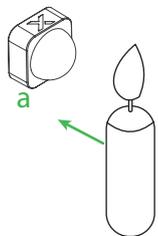


按下

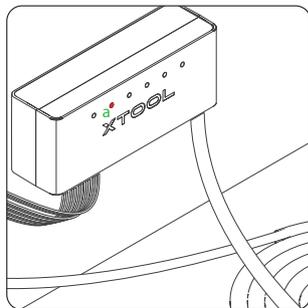


熄灭

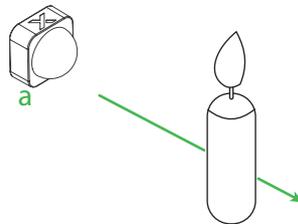
#### 4. 测试传感器



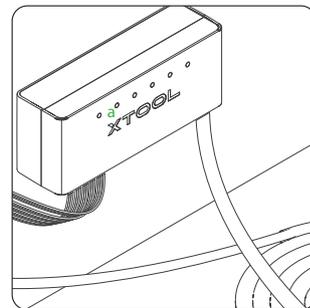
明火靠近传感器



对应指示灯闪烁



明火拿开

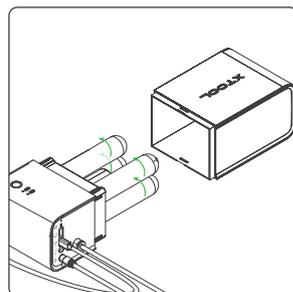
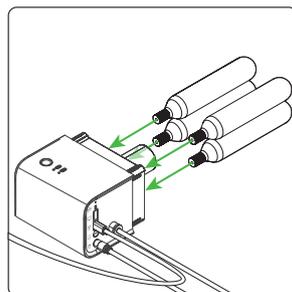
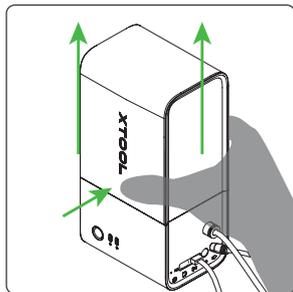
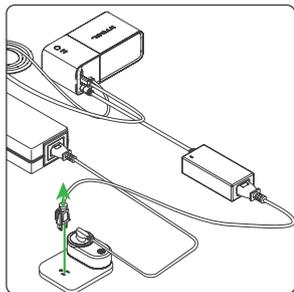


对应指示灯熄灭

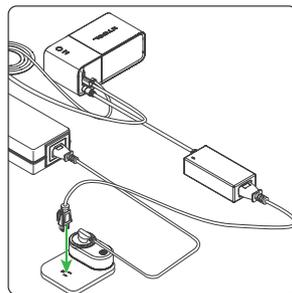
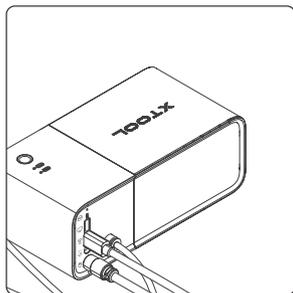
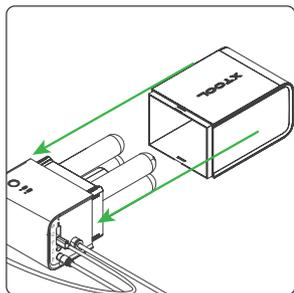
## 5. 安装气瓶



安装气瓶前，请先将火焰安全装置断电，避免在安装气瓶过程中误触一键灭火按钮，导致触发灭火动作。

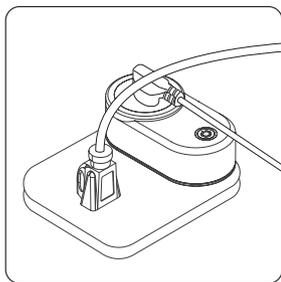


捏住盒子，然后向上拉

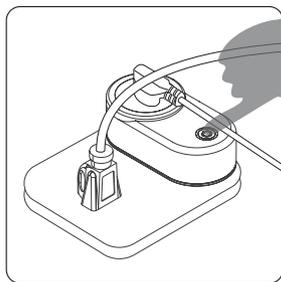


## 使用火焰安全装置

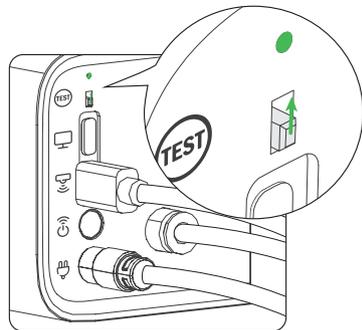
### 自动监测



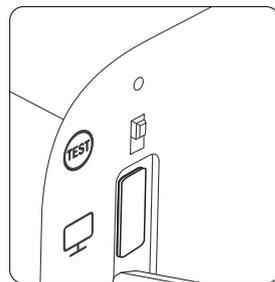
连接电源



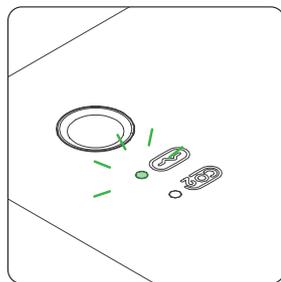
打开开关



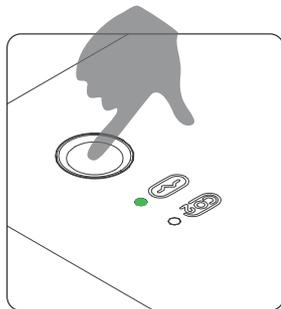
拨动开关至工作模式



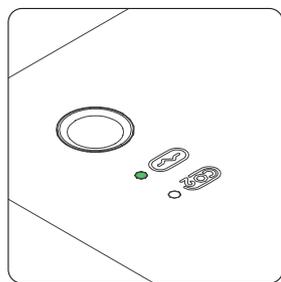
熄灭



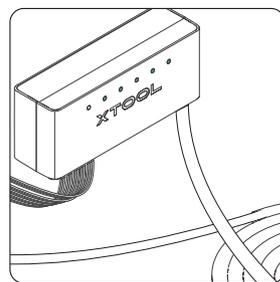
闪烁

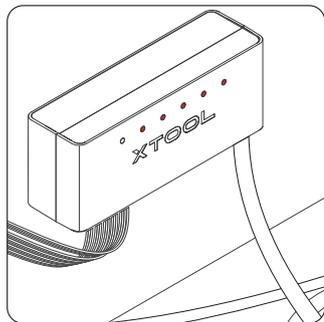


按下

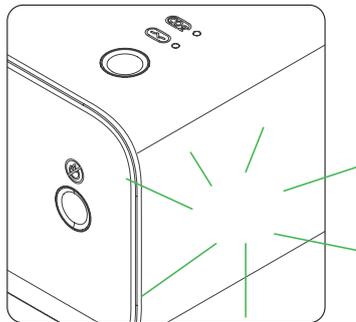


绿色常亮, 进入监测状态





红色闪烁



蜂鸣器响

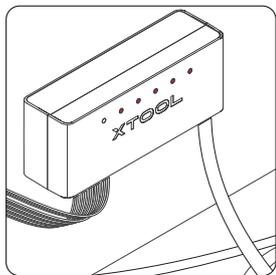
检测到火焰时，传感器指示灯闪，蜂鸣器响。

- 响声缓慢：火焰较小，仅报警
- 响声中速：火焰稍大，仅报警
- 响声急促：火焰较大，报警并触发灭火动作

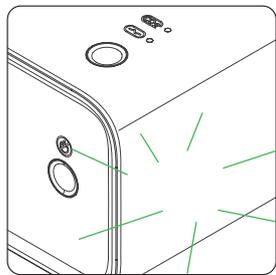
灭火过程中，气体会分两次喷射，间隔 20s 左右，请等待灭火过程结束再触碰控制盒。

检测到火焰变小，蜂鸣器响声逐渐变缓，火焰熄灭后停止报警。

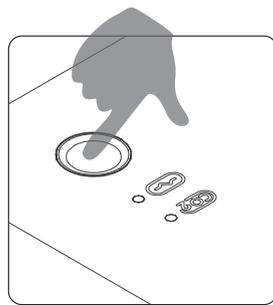
## 取消报警



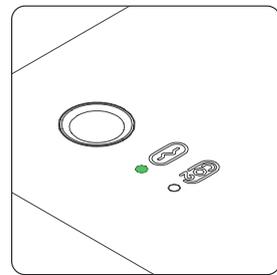
红色闪烁



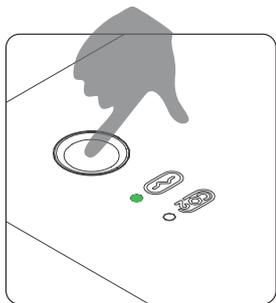
蜂鸣器响



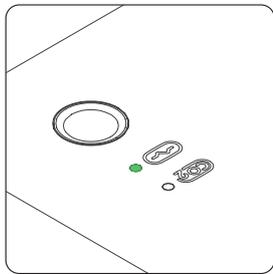
5s内按下



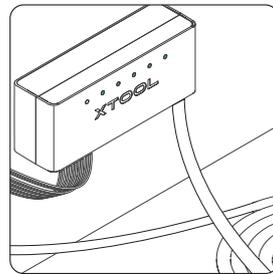
闪烁



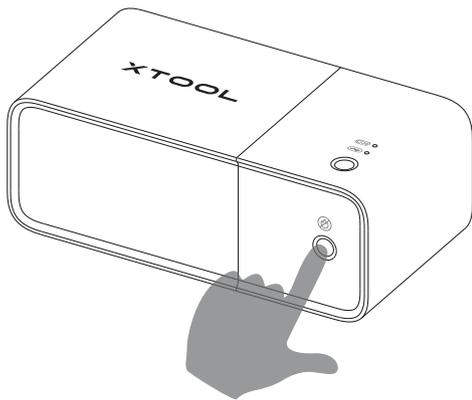
按下



绿色常亮, 进入监测状态



## 一键灭火



工作模式下,如发现火焰,需手动进行灭火,你可以按下一键灭火按钮手动触发灭火动作。

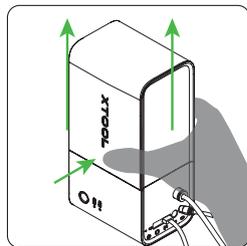
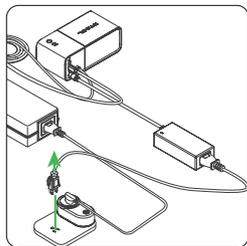
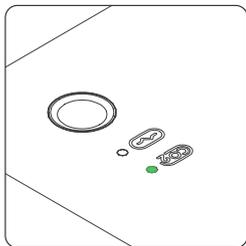
灭火过程中,气体会分两次喷射,间隔 20s 左右,请等待灭火过程结束再触碰控制盒。

灭火动作一旦触发则无法取消,请谨慎操作。

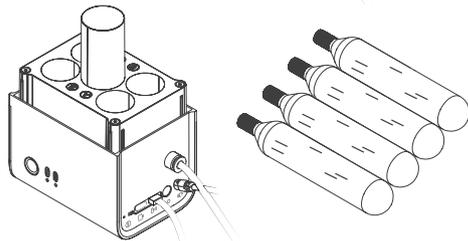
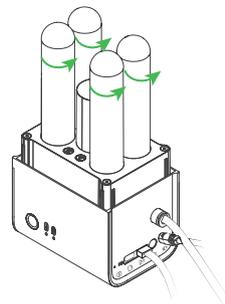
## 更换气瓶



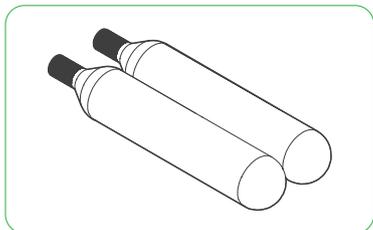
- 更换气瓶前，请拔掉电源，避免在更换气瓶过程中误触一键灭火按钮，导致机器进入工作模式。
- 如火焰安全装置执行过灭火动作，换气瓶指示灯亮，需更换气瓶才可继续使用。气瓶需另行购买。
- 注意气瓶仅可使用一次，喷气后请及时更换。



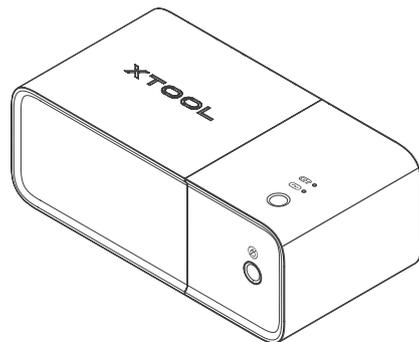
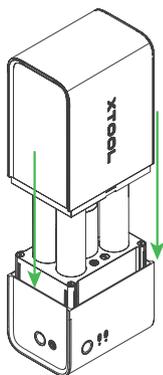
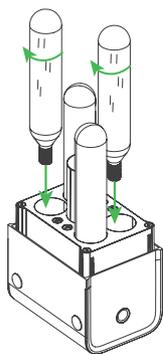
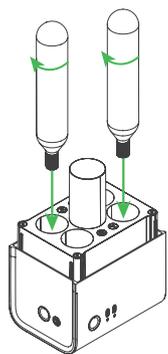
捏住盒子,然后向上拉



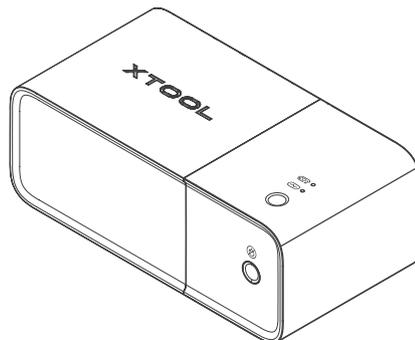
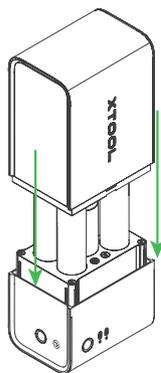
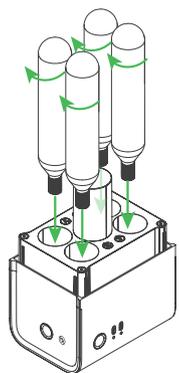
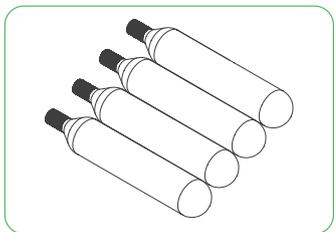
■ 设备加工空间  $\leq 0.065$  立方米, 可以选择更换 2 个或 4 个气瓶



使用 2 个气瓶时请将其安装在一条对角线上, 例如, 都安装在孔 A, 然后在另外一条对角线上的两个孔位安装空气瓶。



■ 0.065 立方米 < 设备加工空间 ≤ 0.13 立方米, 需使用 4 个气瓶



## 维护

请每个月至少进行一次检查和维护，包括如下：

- 清洁传感器
- 检查传感器是否正常工作
- 检查智能开关是否正常工作
- 检查火焰安全装置的工作状态
- 检查控制盒内气瓶是否拧紧