

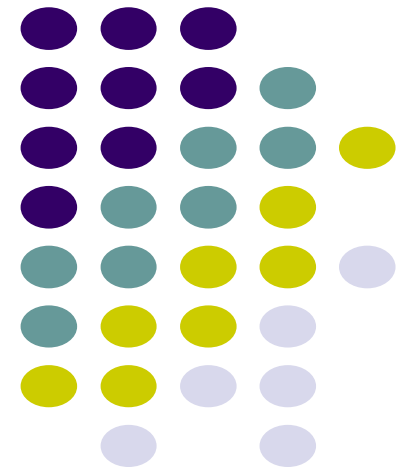
LI-6400/XT光合仪硬件组成

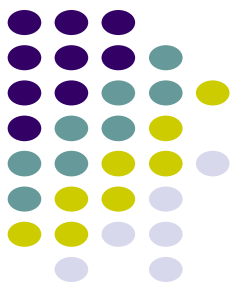


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基因有限公司 农业环境科学部

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网址：www.ecotek.com.cn





LI-6400/XT光合仪硬件组成

➤ 基本硬件组成

分析器头部
主机
连接线
充电器和电池

- 6400-01 CO₂注入系统
- 6400-02B 红蓝光源
- 6400-40 荧光叶室
- 6400-18 RGB光源

满足不同需求的叶室设计

1. 6400-05 簇状叶室
2. 6400-17 拟南芥叶室
3. 6400-24 苔藓叶室
4. 6400-07/11 针状和狭长叶室
5. 6400-08 2×3透明底叶室
6. 6400-37 适用于厚叶片（如兰科植物）
7. 6400-15 鸭嘴叶室
8. 6400-89 昆虫呼吸室
9. 6400-09 土壤呼吸测量室
10. 自制叶室



LI-6400/XT光合仪硬件组成

6400-01 CO₂注入系统



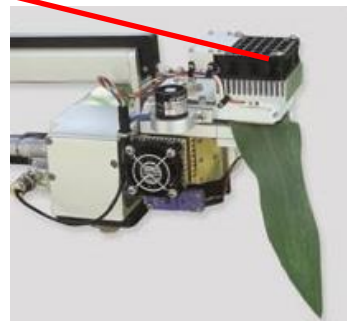
连接线

主机

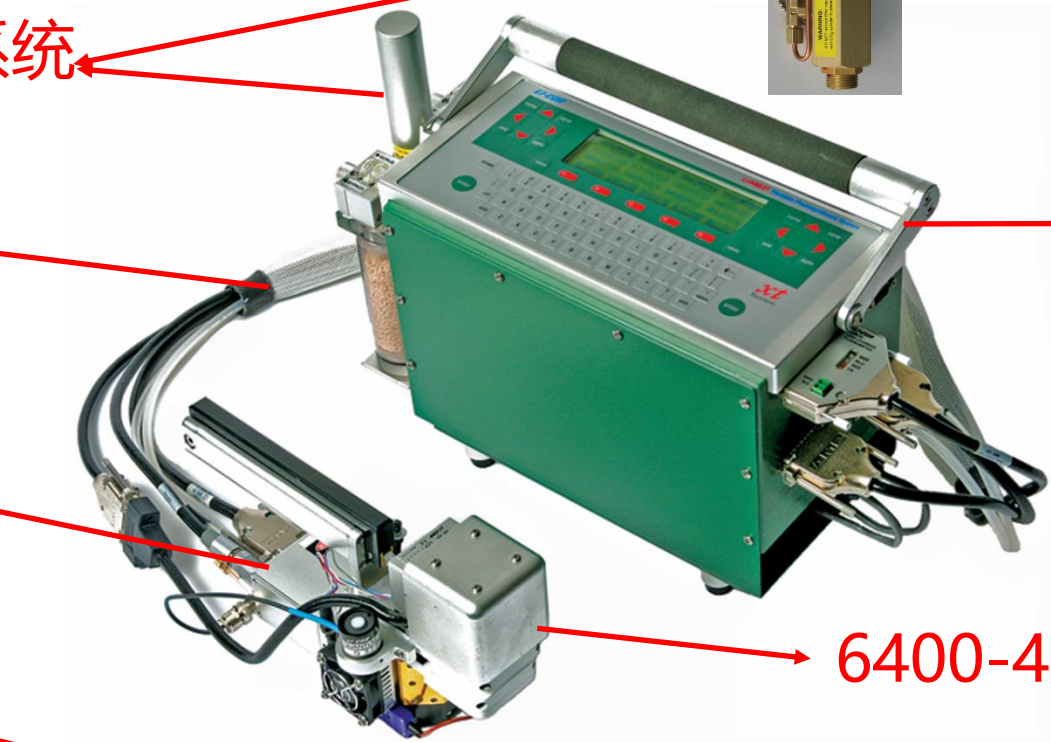
分析器头部

6400-40荧光叶室

6400-02B LED
红蓝光源

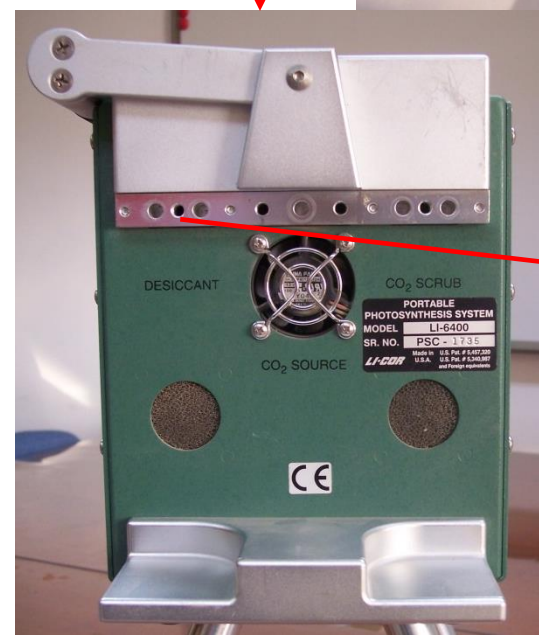


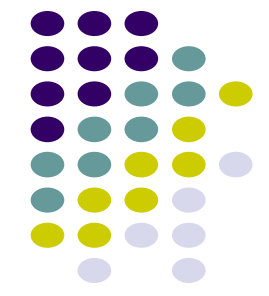
标准叶室 (透明膜)
2cm×3cm



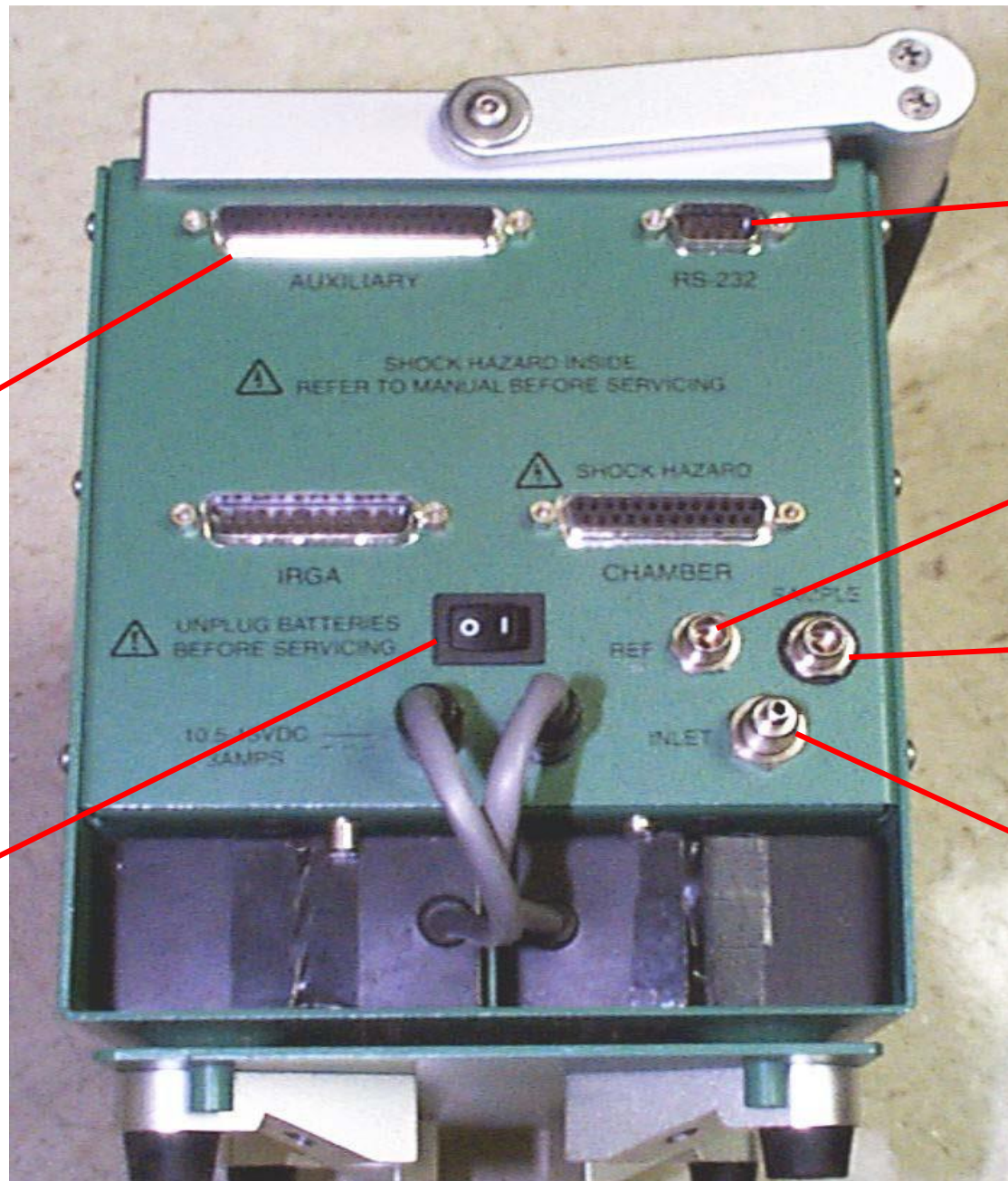


主机全方位介绍





主机全方位介绍



RS232
数据线端口

荧光叶室
或RGB光源
或土壤温度

参比室

样品室

开关键

进气口
接缓冲瓶

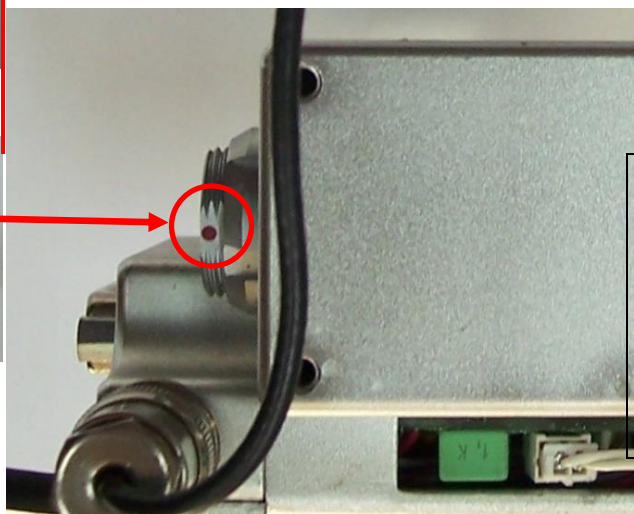


连接线全方位介绍



Sample Reference

Reference Sample



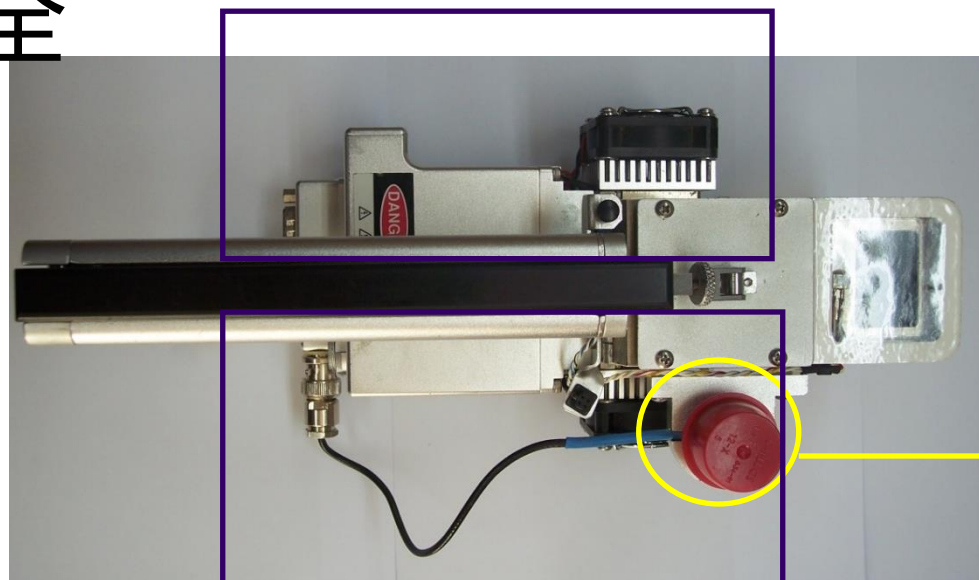
接线端

分析器端

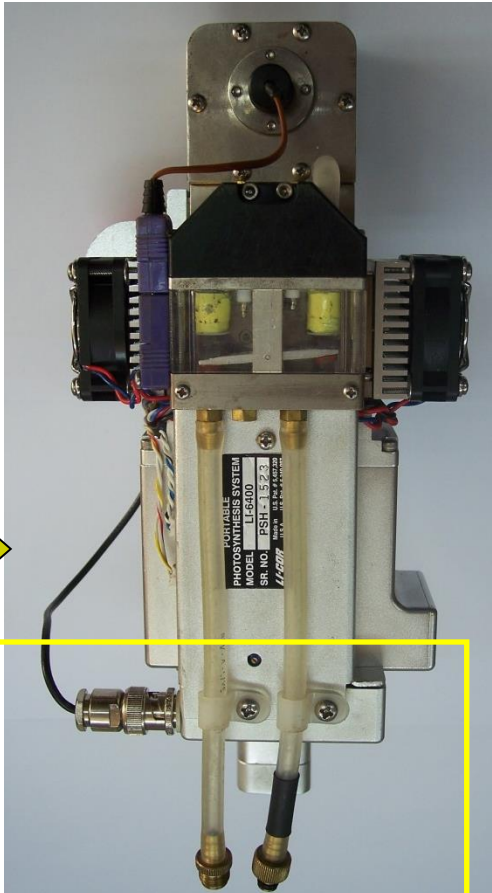
红点相对，直插直拔，不可旋转

分析器头部全方位介绍

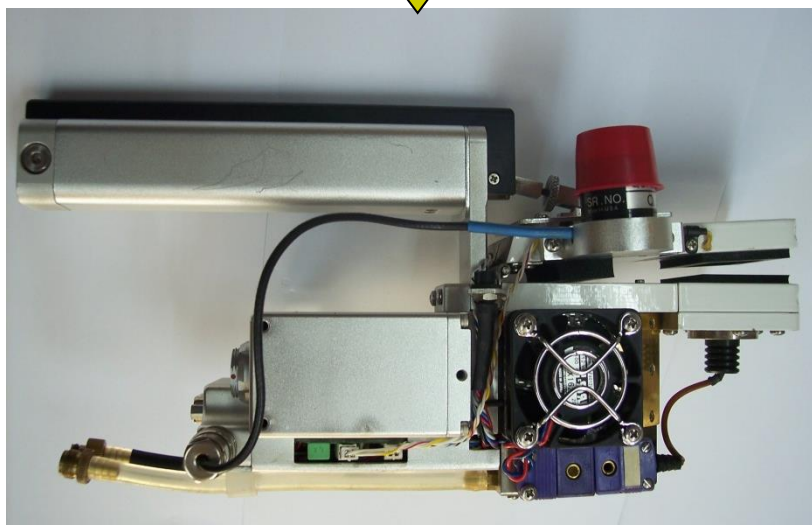
正面



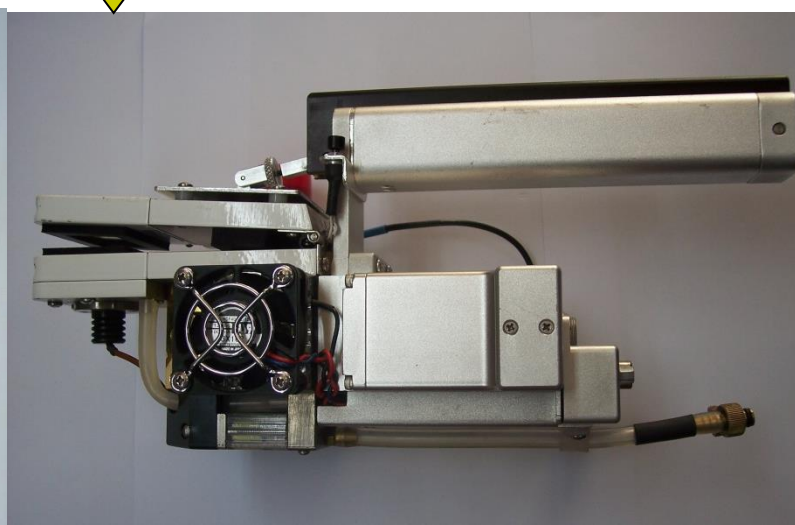
背面



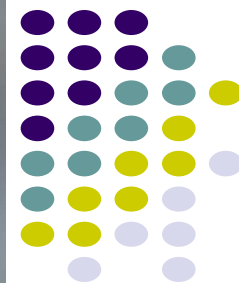
右侧



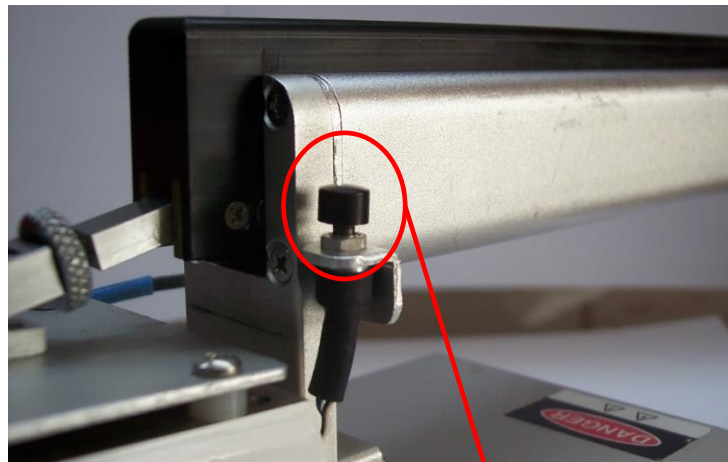
左侧



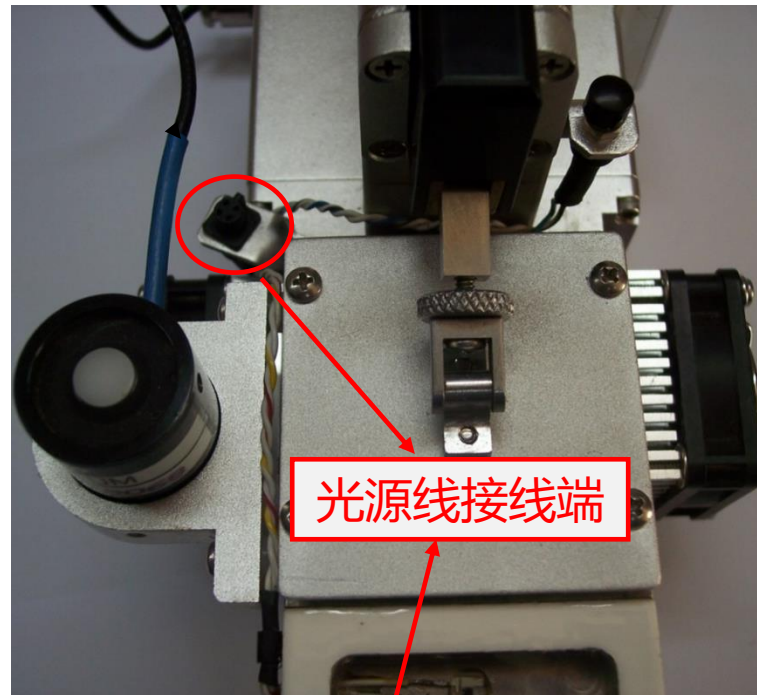
选配



分析器头部全方位介绍



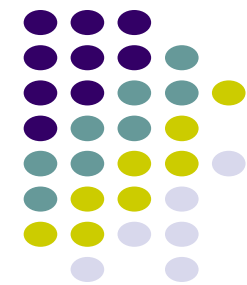
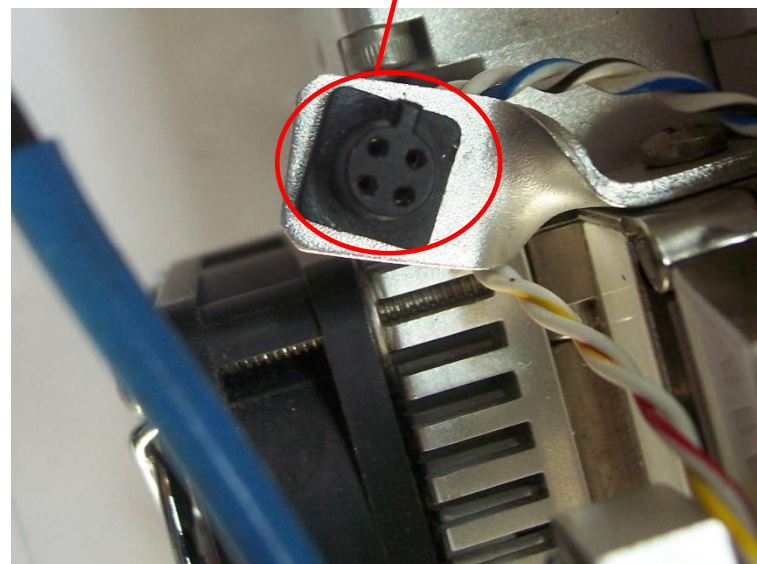
记数键



光源线接线端



叶温热电偶





电池及充电器 全方位介绍

正面



电源指示灯

充电指示灯

背面

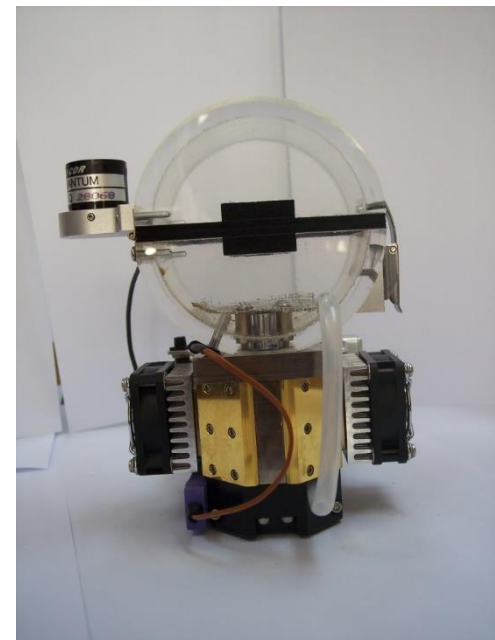
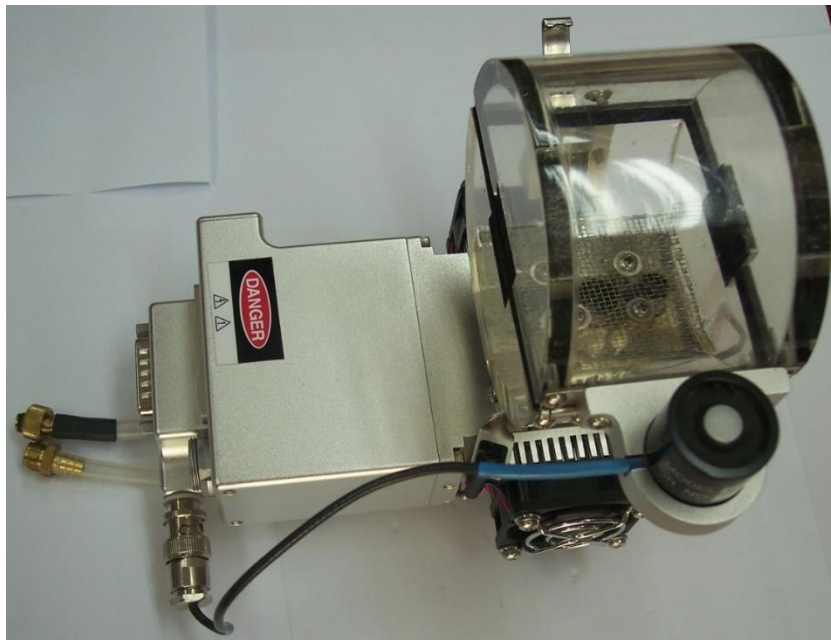
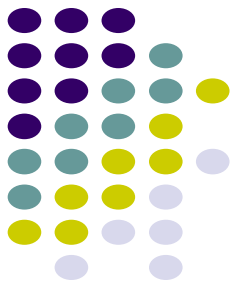


放置保险丝

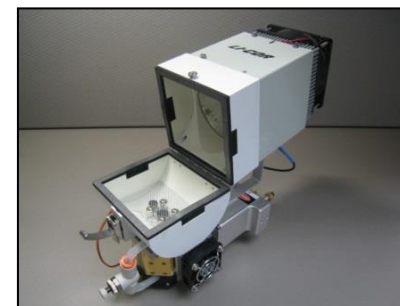
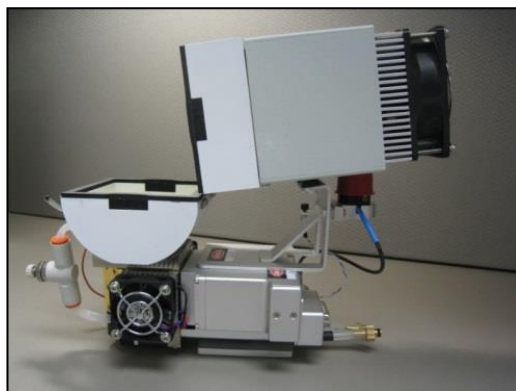
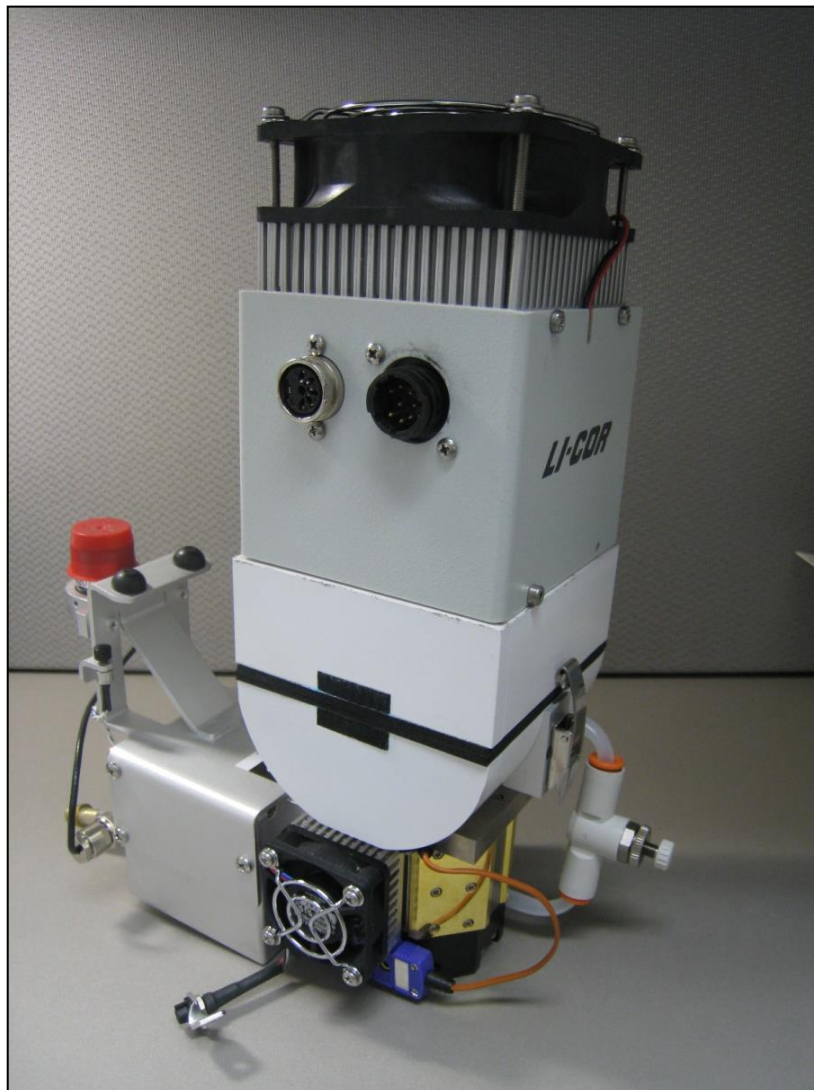
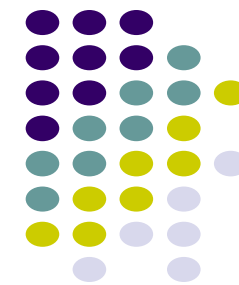


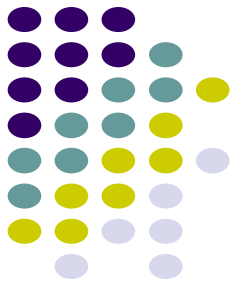
充电连接图

6400-05 透明簇状叶室



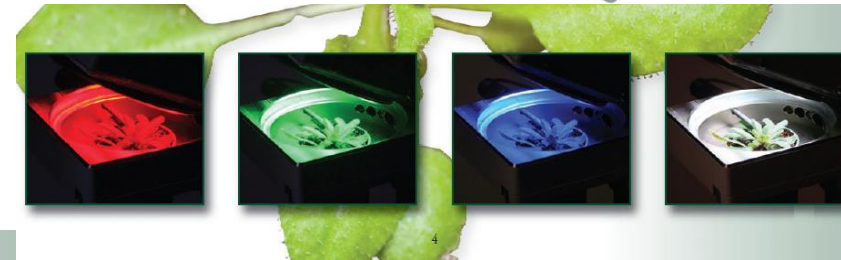
6400-22L 不透明簇状叶室带6400-18 RGB光源



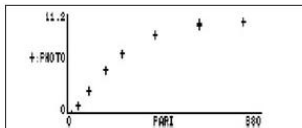


6400-17L整株拟南芥叶室带6400-18 RGB光源

- 6400-17 整株拟南芥叶室
- 6400-18 RGB光源
- 6400-17L 组件



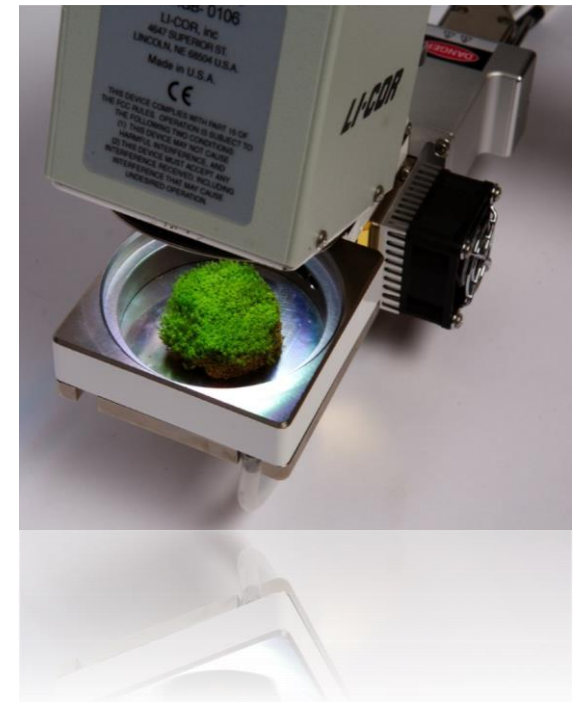
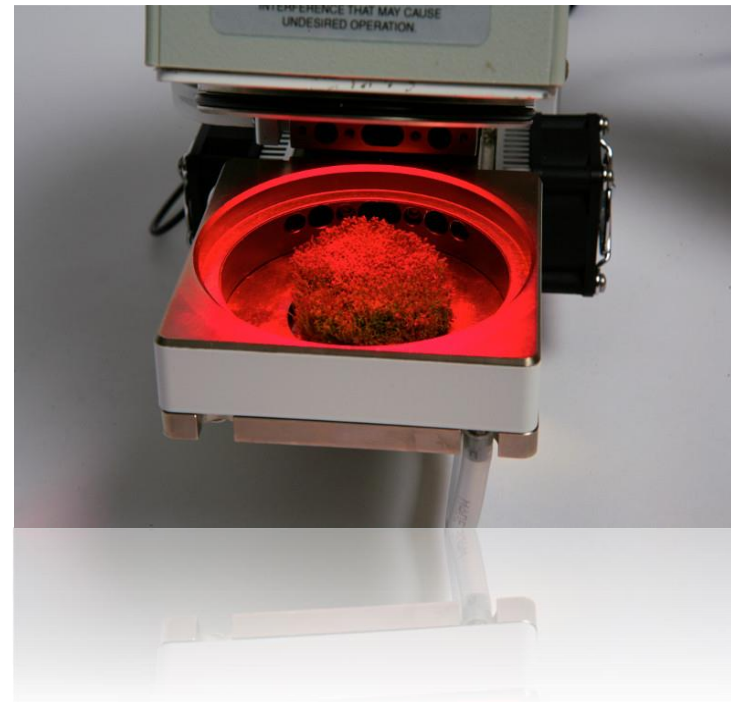
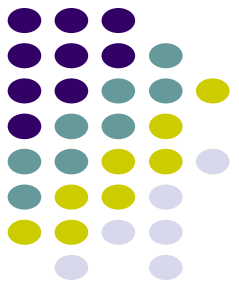
```
Light Curve
Desired loop settings (µmol/m2/s)
600 300 600 400 250 175 100 50 25 15 8 0
Minimum wait time (secs) 120
Maximum wait time (secs) 200
Match if IΔCO2 less than (ppm) 20 _
Del:n #ClrEnd #DelChar#Caplock#Inothar
```



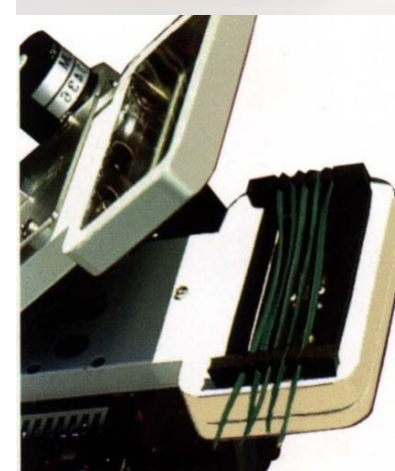
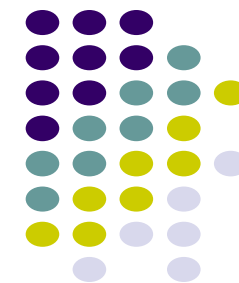
Simply set the desired chamber environmental conditions and light intensities from the 6400-18. The autoprogram prompts for the light levels at which measurements will be logged, the minimum and maximum time between measurements, and the stability parameter(s) that must be achieved before a measurement is logged. The 6400-18 light levels will be set, and all other environmental controls are maintained during the experiment.



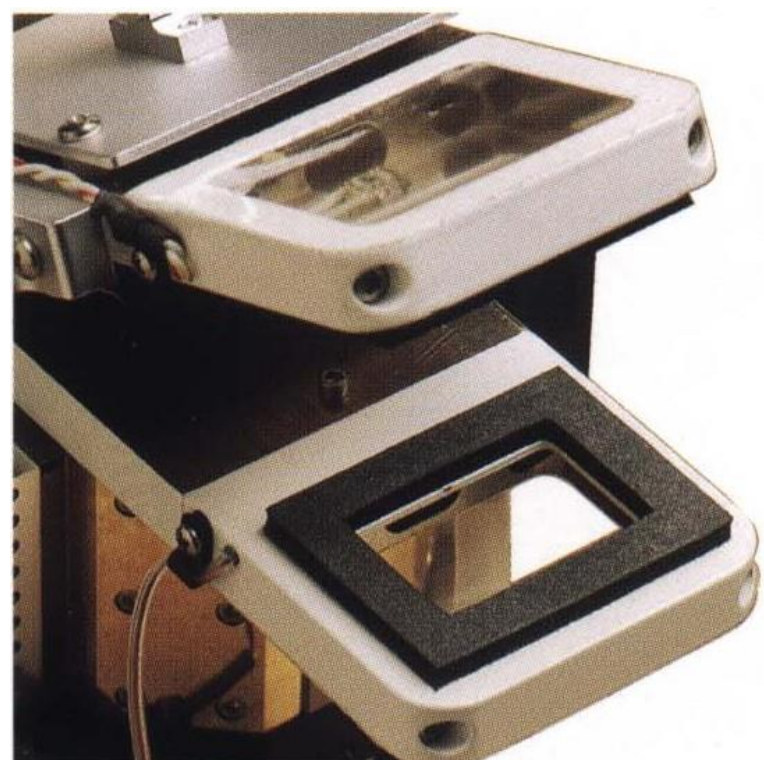
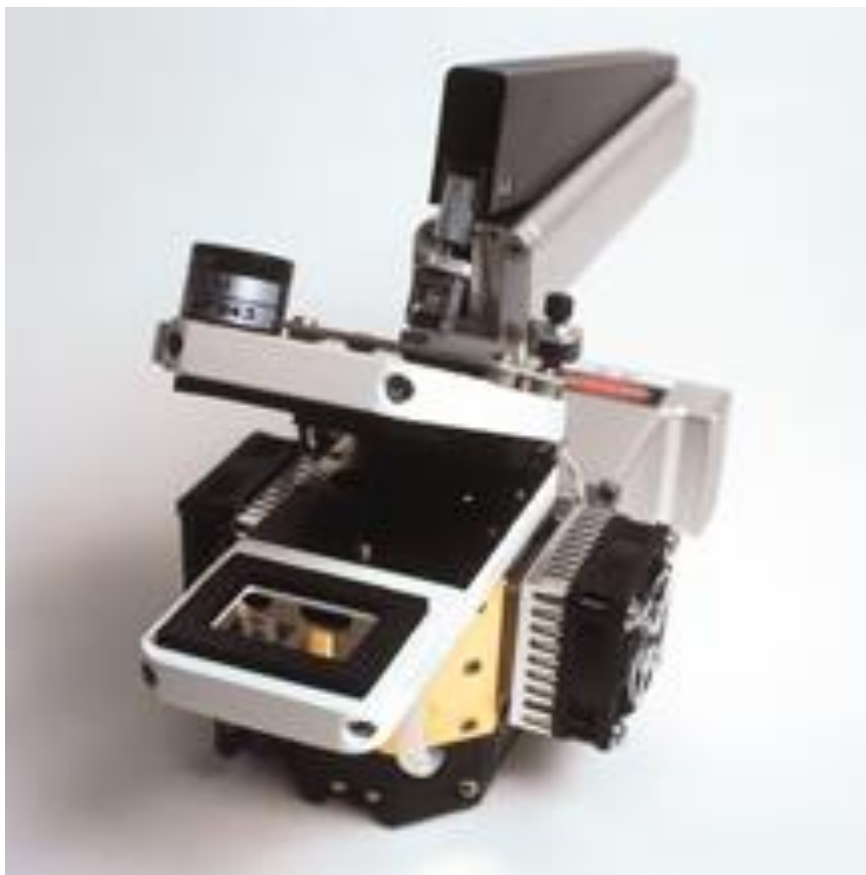
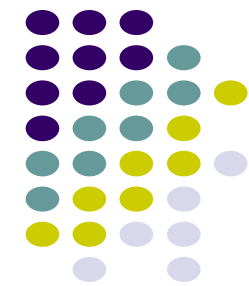
6400-24 苔藓叶室 可与6400-18 RGB光源结合使用



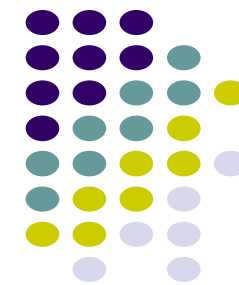
6400-07/11 狭长叶室/针状叶室 2cm×6cm



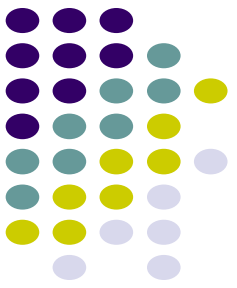
6400-08 透明底叶室



6400-37 适用于厚叶片的泡沫垫片



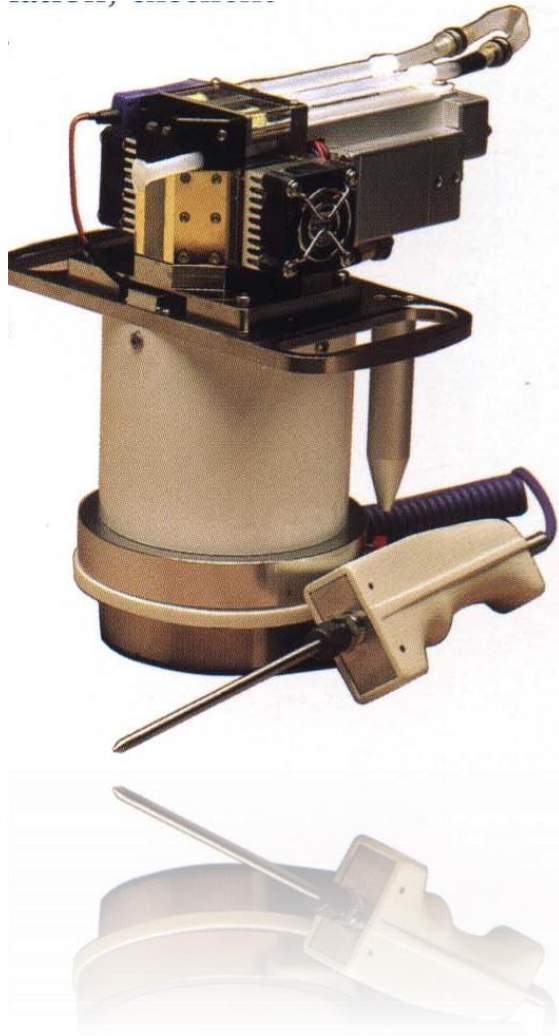
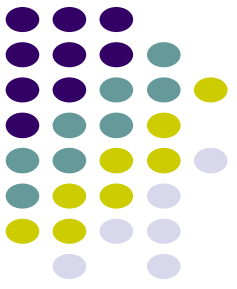
6400-15 鸭嘴叶室 直径1cm, 面积0.785 cm²

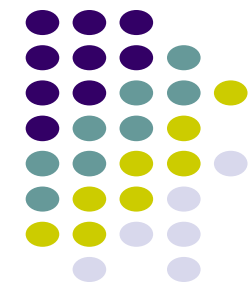


6400-89 昆虫呼吸室

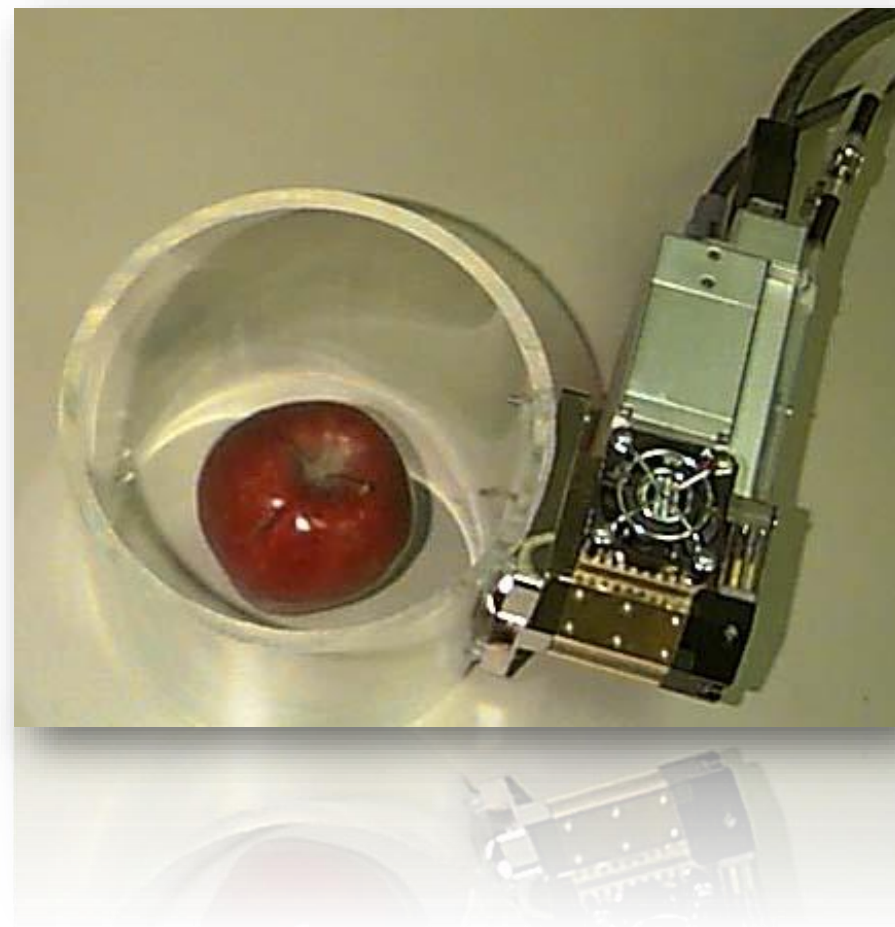


6400-09 土壤呼吸气室 (树干呼吸)

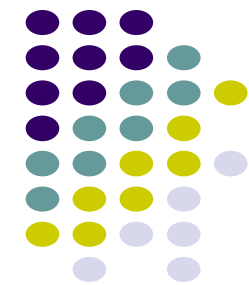


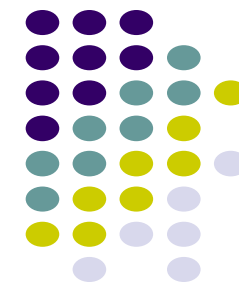


自制气室，需配置6400-19模块



自制气室





硬件连接注意事项总结

- 电缆线和主机的气路连接处:

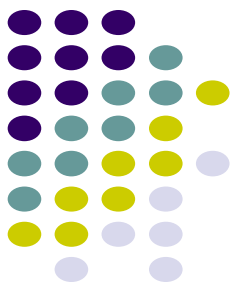
注意样品室 (Sample) 和参照室 (Reference) 不要混淆, 有黑色胶皮套的气路接Sample。



接缓冲瓶



先将电缆线和分析器、主机连接好之后, 最后再连接电池, 确保都连接好之后后再开机。



硬件连接注意事项总结

缓冲瓶的要求：

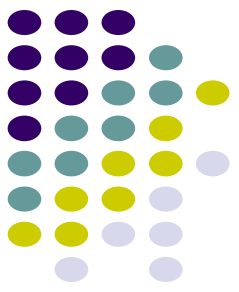
- 1) 干净、干燥的无色或浅色空水桶，塑料桶；有盖能密封，体积越大越好；野外工作考虑到携带方便性，至少4L体积，如果是室内或温室大棚，缓冲瓶需要再放置在一个大箱子内。
- 不可使用装过化学药剂的桶。



缓冲瓶的制作：

- 盖上留有两个洞，一个刚好将进气管插到近桶底，进气管的另一端连接到主机的INLET口上；另一个直径和进气管内径差不多，或者和前一个洞的直接一样，剪一截进气管（约30cm）插入该口，进气。

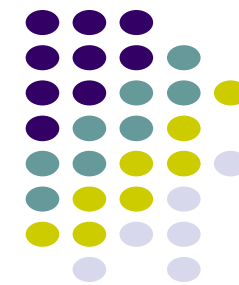




硬件连接注意事项总结

缓冲瓶的放置：

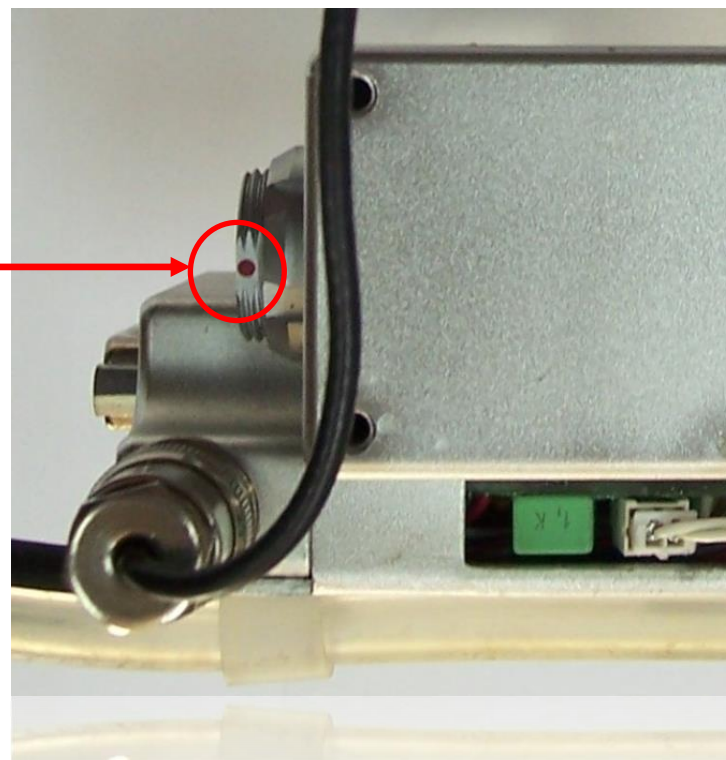
- 所测环境之中，但空气扰动相对小的地方。
- 在野外测定时，缓冲瓶应放置在距离人相对较远且位于人的上风向位置，并高出地面为好（如绑在一根杆上，离地面1米左右位置），避免人为扰动和土壤呼吸的影响。
- 在室内或温室大棚，由于是密闭环境，人的呼吸与活动导致CO₂浓度波动很大，缓冲瓶可放在一个较大的近乎封闭的空箱子中来确保进气稳定；

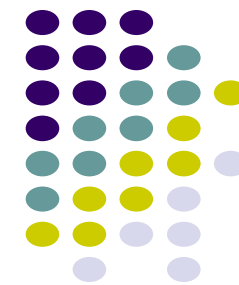


硬件连接注意事项总结

电缆线和分析器直接：

- 红点相对，直插直拔。不可旋转拧。



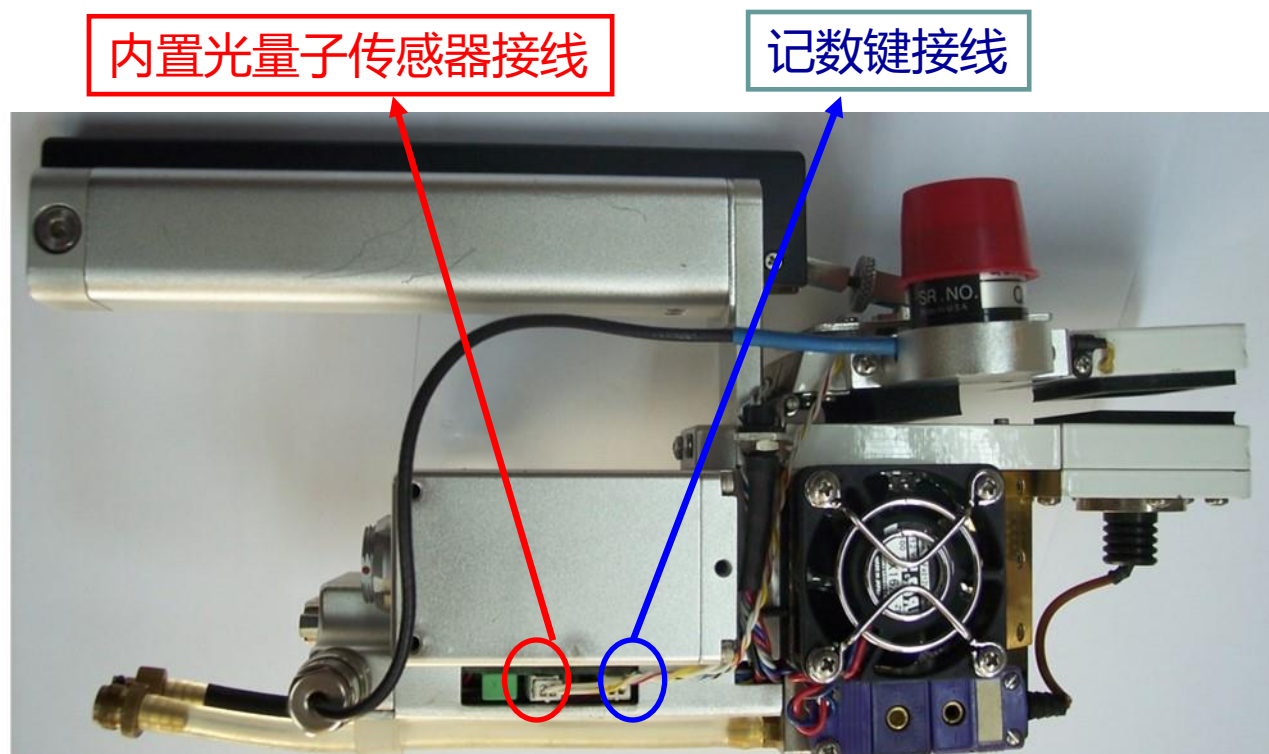


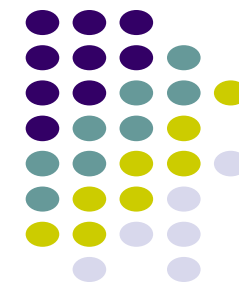
硬件连接注意事项总结

内置光量子传感器接线（颜色：红黄白相接，线长；）；

记数键接线（颜色：蓝白相接，线短；）

更换叶室后，确保位置正确。线长，接远端；线短，接近端；





感谢您的参与和关注

联系方式

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