

給水ユニット<学習記憶>  
Water-supply unit <learning memory>

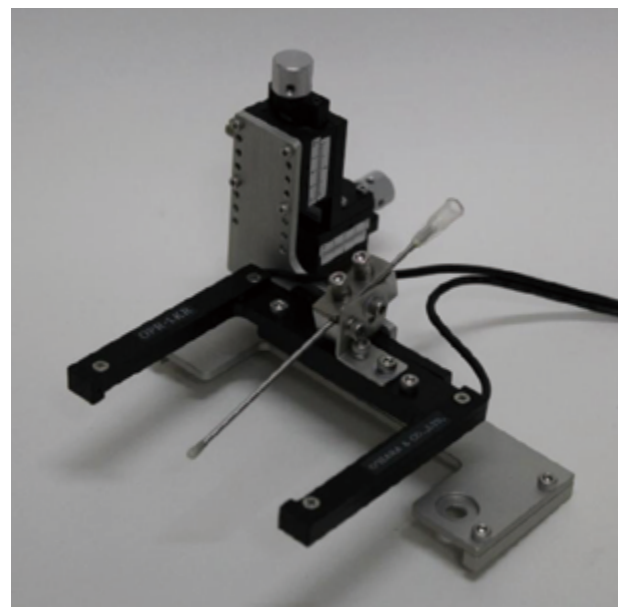


Controller box

This water pump & controller are able to dispense constant amount of water or liquid solution to the mouth of an animal as a reward of operant test. This pump can supply 1 - 7  $\mu$ l per one shot. Dispensing of water/liquid is controlled by 5 V TTL trigger signal. Both computer controlled and manual operation modes are supported. Water or liquid is dispensed without delay from trigger signal, dripless and no leakage by residual pressure, so accurate reinforcement is available.

1回あたり1~7 $\mu$ lを供給するように設定することができます。残圧による垂れや漏れがなく、時間的な遅れのない報酬強化が可能です。

リッキングユニット<学習記憶>  
Licking unit <learning memory>



amp box

This sensor unit detects whether subject animal licks water/liquid dispensing spout or not. It uses infrared photo beam sensor. Our pump unit can be combined with the licking unit. A position adjuster, such as XZ slider can be also added.

赤外線フォトビームセンサーを利用して、動物がスパウトを舐めた回数・時間を検知することができます。