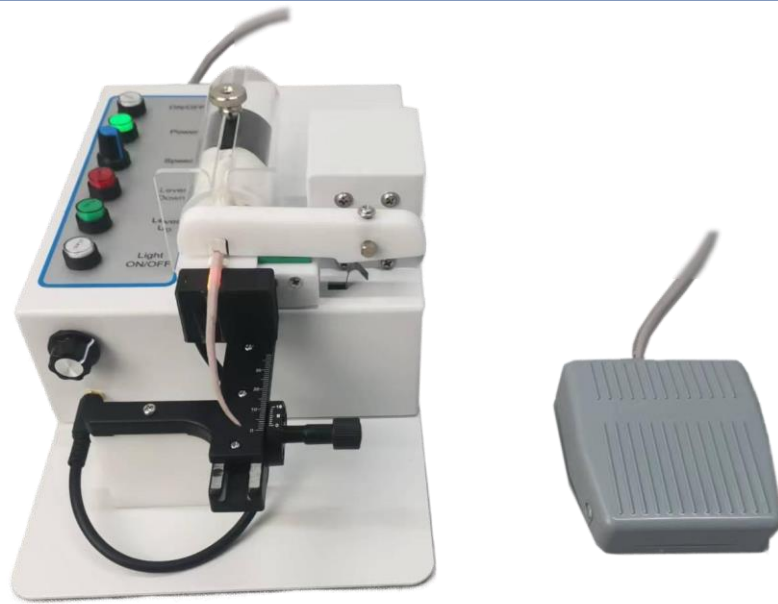


# Mouse Tail Vein Injection Imaging Equipment

BioMed Easy's Tail Vein Injection Imaging Device is innovative design to help the researchers easily achieve the accurate vein puncture. It ensures accurate vein identification and minimizes the risk of bleeding, making it the ideal restraint for tail vein injection. This device easily solve the below problems:

1. The animal fixation in vein injection
2. Tail blood vessel filling and visible
3. Needle filling in blood vessel

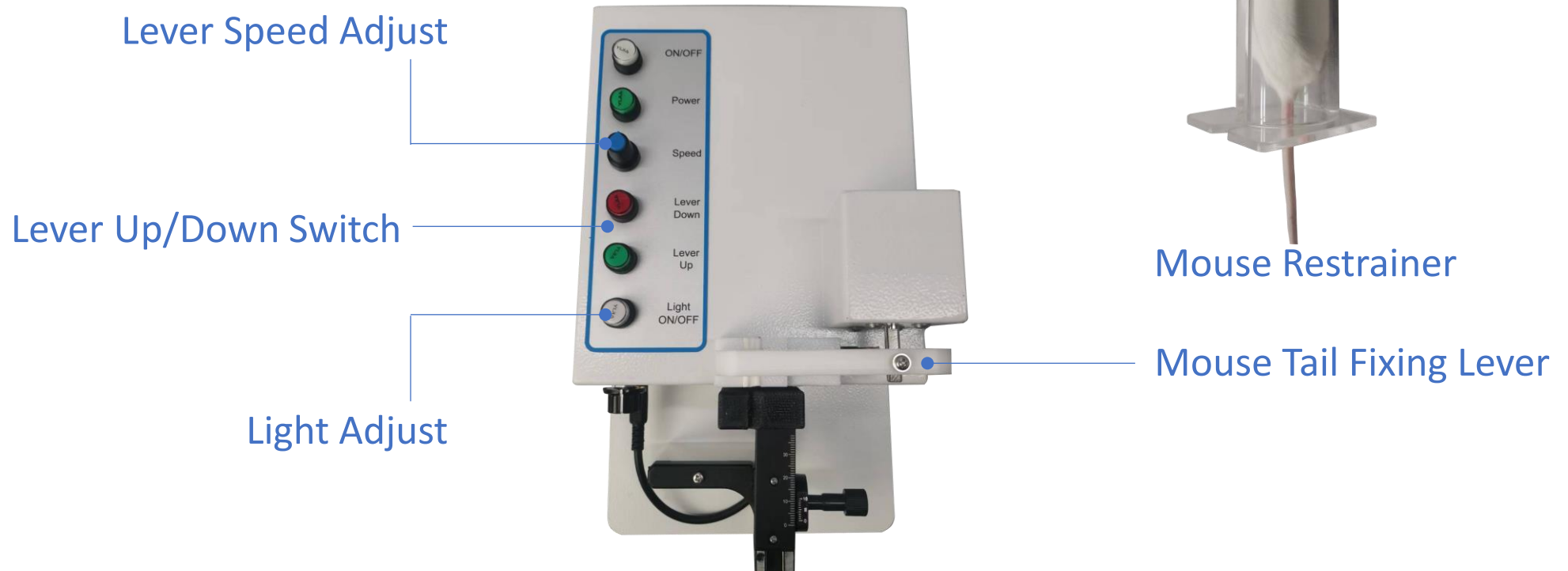


## Process

Secure the Rodent in the restrainer, use the yellow light to illuminate the rodent tail and the tail blood vessel can be clearly visible, which make the Tail Vein Injection easily.

## Technical Parameters

Application	Mouse 17-40g
Light source	Mouse: 1W LED Yellow light
Control Mode	Manual/Foot Pedal
Power	AC100-220V, 50Hz
Output	DC 12V 2A
Size	27*16*9cm
Weight	2.5KG



## Operation Instruction

### 1. Easy Rodent Restrainer

With O shape design, the easy rodent restrainer adopts the tail back pulling method to place the rodent in the restrainer quickly and easily. Completely transparent design for a clear view of the animal. To avoid the rodent rolling inside, a well fit plug is designed. The plug is designed according to the physiological condition of the mouse's skull, which effectively secure the head of the mouse without interfering with normal breathing, also put the forelimb in a comfortable position. Note: The fixed position of the plug should be able to restrict the animal but bring normal breathing.

### 2. Light Adjustment

Fix the easy rodent restrainer with Mouse well, keep the tail in the groove. Turn on the device and the light, make sure the tail blood vessel is in right position. Adjust the yellow light according to the transmission of blood vessels to reach the clearest imaging of it. (Note: Blood vessels imaging varies according to the condition of the environment, so it is recommended to operate in a dark room and avoid direct glare.)

### 3. Vein Identification and Injection Position Adjustment

Press button to make the lever down, well fit the tail and achieve the tail blood vessel filling and visible. Once the vein is identified, a needle connected to a syringe containing the substance to be injected is carefully inserted into the vein. No matter how old the mouse is, the needle should be injected from the bottom third of the tail, and the needle should be carefully injected to avoid injury and ensure proper administration. The injection position should be adjusted according to different rodents.

The needle used for injection should be smaller than No.5 needle, 4.5 or 4 needle is appropriate. The oversize needle will damage the vascular and bring hemostasis after the injection. The best way to confirm the injection is in correct position is to move the needle from side to side to check whether the blood vessel is moving the same.

### 4. Monitoring

After injection, the researcher may monitor the animal for any adverse reactions or to ensure that the substance is properly administered.

Researchers undergo these vein injection experiment should follow the follow ethical guidelines and regulations for the humane treatment of animals in research.

