The endotracheal intubation tube length for rat is 50mm, 16G, and that for mouse is 25mm, 18G.

The cordless portable optic fiber lighting system, which has been patented for an invention, improves the visibility of the airway and facilitates users to quickly and accurately finish endotracheal intubation.

The stand angle can be adjusted, including: 45°, 60°, 90°, to meet the requirements of users with different operation habits. The neck position of the endotracheal intubation stand is adjustable to help customers get the best view of operation.

Silk hanging line is provided as small animal silk yarn for teeth bar, and it is flexible and will not cause additional damage to the animal.

Auxiliary operation tweezer are provided for users to complete the operation.

An endotracheal magnifier with auxiliary positioning function and a tracheoscope mirror that helps to confirm intubation result are more user-friendly.
This program is the combination of anesthesia machine and ventilator. While keeping the animal under anesthesia, it provides a certain volume (tidal volume) of oxygen and respiratory rate to support the normal breathing of animals.

It can meet the requirements of long surgeries or surgeries on animals suffering from certain diseases (such as cardiovascular and cerebrovascular diseases, hypertension, cerebral infarction, thrombosis), and suitable for mice, rats, rabbits, cats and other animals within 1kg.

With the latest design, it can be applied to simultaneous anesthesia of multiple mice, rats, cats, rabbits and other animals (1-5 small animals), and every channel can be controlled independently.

A noninvasive endotracheal intubation kit for animals guided by cordless optic fiber, effectively reducing animal damage, and enhancing the experimental efficiency and precision of the experiment results.
Regular assembly (R500-A), vaporizer (R580), Inlet/Outlet End Caps (R580-IO) and tube accessory kit are included in the R500 anesthesia machine. Different air supply, induction chambers, small animal masks, filter canisters and gas evacuation apparatuses can be selected for anesthesia recovery of different animals.

**R500 Compact Anesthesia Machine**

- 120mL internal capacity, isoflurane concentration adjustment range 0-5% (sevoflurane 0-8%)
- 0.1-4L/min oxygen flowmeter, reserved additional flowmeter mounting hole, makes dual flowmeter achievable
- Isoflurane or sevoflurane vaporizer is optional
- You can choose Pour Fill or Easy Fill or Key Fill for adding drugs (see P25)
- Oxygen flush button, flush rate is up to 10L/min
- Oxygen or air can be chosen as gas supply
- Can be upgraded into portable anesthesia machine to save space and facilitate movement
- Stable concentration output unaffected by flow, temperature and pressure

**R548 Automatic Weighing Apparatus**

- One key to reset, real-time display the weight of filter canister, accurate to 1g.
- Two level saturation alarm to remind, replace filter canister.
  - Level I: large canister reaches 1000-1020g, small canister reaches 300-310g, 0.5Hz
  - Level II: large canister reaches 1020-1500g, small canister reached 310-500g, 2Hz
- Overweight alarm: more than 1500g, stable 1 second lasting lighting and buzzing
- Mounting bracket (R548-MB) is optional, to mount on the mobile stand.

Note: Oxygen flush is commonly used to flush out anesthetic gas to the filter canister before opening the induction chamber to avoid the escape of anesthetic gas into the personnel.
Animal ventilator is the commonest instrument for assisting animal respiration, which is widely used in scientific researches of preclinical medicine, clinical medicine and veterinary medicine (such as myocardial ischemia model), as well as respiratory management in animal surgery, emergency treatment and respiratory therapy.

Endotracheal intubation means that a special endotracheal tube is inserted through the glottis into the trachea to open the respiratory tract, providing the best conditions for airway unobstructed, oxygen supply, prevention of aspiration, pulmonary disease molding and infusion. However, due to the small size of rat and mouse and limited oral space, operators would often choose traditional endotracheal intubation (blind intubation, tracheotomy, visual intubation, etc.) for molding, which would not only cause certain damages to animals, but also result in low experimental efficiency and success rate.

In light of this, RWD newly introduces a noninvasive endotracheal intubation kit for animals guided by cordless optic fiber to support mouse, rat and other similar small rodents in a stable and comfortable position for experimenters to perform endotracheal intubation, drug infusion and other operations, effectively reducing animal damage, and enhancing the experimental efficiency and precision of the experiment results.