Item (module #)	Picture	Parameter	Shopping link
Main Hardware			
DAQ card (1)	DAQ'ANECH 恒瑞锋测控 USB系列数据采集卡	USB_HRF4626, 72 MHz clock, 400 kHz 16 bits sampling rate for 8 I/O channels	https://item.taobao.com/item. htm?spm=a1z09.2.0.0.5f192 e8dNniICu&id=5461547709 15&_u=bojm6692c2f
LCD Screen (1)		Model CUXI14 (Creative Corp.) Size:13.3 inches, DPI:3840x2160 pixels.	https://m.tb.cn/h.fwmus9a?tk =yXcz2MFdpse
Graphic card (4)		Nvidia NVS 810 Support 6 outputs	/
Arduino (UNO) (3)	UNO	UNO R3 16 MHz clock	https://detail.tmall.com/item. htm?id=600400882089&spm =a1z09.2.0.0.371f2e8d1waP 1R&_u=h21iib7v891f
Arduino (2560) (3)	Section 19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ATmega2560 16 MHz clock	https://detail.tmall.com/item. htm?id=608423830404&spm =a1z09.2.0.0.371f2e8d1waP 1R&_u=h21iib7v9b2d

	Stainless steel needle		Diameter: 0.8 mm Length: 55mm	https://item.taobao.com/item. htm?spm=a1z10.1-c- s.w137712- 15243438341.3.5d6314e18F 0mQa&id=19140638425
	Plastic connector	© (**)	Type: 1/8 (Apply to the inner diameter: 1.6-3.2mm)	https://m.tb.cn/h.fEj0qiD?tk =d5r52MK98cw
Lick module (3)	Plastic tubing		Cut the pipe section	/
	Capacitance detector (Licking sensor)	1 2 3 4	Type: TTP224 working voltage: 2.4 – 5.5 V channel: 4 channels	https://detail.tmall.com/item. htm?id=42496584002&spm =a1z09.2.0.0.371f2e8d1waP 1R&_u=h21iib7vec1c
	Electromagnetic pump	XNUODE S.USZ2-IL-DC12V S.USZ2-IL-DC12V	UX22-1L-DC12V	https://item.taobao.com/item. htm?spm=a1z09.2.0.0.5f192 e8dNniICu&id=3984677267 8&_u=bojm669b7dc
Air puff module (3)	Dagan air controller	PMI-100 PRESSURE MICRO-INJECTOR	Duration:100 – 300 ms pression:5 – 10 psi (Dagan Corp. USA)	/

	Picospritzer III	POSIPOTETIAN IS	(Parker Hannifin Corp. Duration:100 – 300 ms pression:5 – 10 psi	https://ph.parker.com/us/en/p icospritzer-iii-intracellular- microinjection-dispense- systems-picospritzer-micro- dispense-system)
Computer (4)		/	standard workstation (e.g. CPU i5-1145G7, RAM 16 GB DDR4, hard disk 512G SSD, graphic card NVIDIA T500 2GB)	/
Las	er mouse (6)		Rapoo V310	rapoo.cn
Styrofoam cylinder (7)	Styrofoam cylinder	风米包装工艺制品厂 厚度尺寸 密度均可 注意定制 高密度泡沫蛋糕模型直径4寸~18寸 可注意定制! T。15021952483	Diameter: 20cm Height: 10cm	https://item.taobao.com/item. htm?spm=a1z09.2.0.0.68072 e8dRQsg6P&id=521693025 425&_u=621iib7v8083
	steel fuhe		Diameter: 5mm Length: 30cm	https://detail.tmall.com/item. htm?id=592773986503&spm =a1z09.2.0.0.5f192e8dNniIC u&_u=bojm6692fef
	Rubber block (Stuck on each side of the cylinder)		Diameter of bore: 5mm	https://item.taobao.com/item. htm?spm=a1z09.2.0.0.5f192 e8d418g9b&id=5718216062 10&_u=cojm66933e4

Head fixation setup (8)		Length 300 mm, diameter 12 mm	https://m.tb.cn/h.fxWwqZA? tk=5zC52qvvaty
	Circuit Com	ponent	
Step-down module	CORD CORD CORD CORD CORD CORD CORD CORD	Scope of application: 12v to 5V	https://detail.tmall.com/item. htm?spm=a1z10.3-b- s.w4011- 21581912015.38.56065535O seeA0&id=19905413537&rn =a939276b5bd2379c48bac0e ae2b8ed37&abbucket=17&s kuId=4114643951246
Dupont Line		/	https://detail.tmall.com/item. htm?spm=a1z10.1-b- s.w5003- 21634422719.1.74a9a5c11iN fDC&id=14466195609&rn= 751f7bb25e59412403df2602 50faf150&abbucket=10⪰ ne=taobao_shop&skuId=310 8214440215
Circuit board		Including base plate, switch, small bulb	https://detail.tmall.com/item. htm?id=527169796974&spm =a1z09.2.0.0.5f192e8d418g9 b&_u=cojm6697c96
PWN switch	YYNMOS-1	Type: YYNMOS-1	https://item.taobao.com/item. htm?spm=a1z09.2.0.0.371f2 e8d1waP1R&id=558189301 874&_u=h21iib7v065c
Power supply		Type: 12V2A	https://item.jd.com/1719935. html

Scaffolding and Behavioral Hardware			
Sliding table	SELNation Africa Service African Co., LTD	Type: LWD4060	https://item.taobao.com/item. htm?spm=a1z09.2.0.0.5f192 e8dNniICu&id=2355729624 4&_u=bojm669b2b8
Magnetic base	放性强劲 稳定耐用	Length:60mm Width:50mm Height:55mm	https://detail.tmall.com/item. htm?spm=a230r.1.14.21.30a 97341siivd0&id=653910209 484&ns=1&abbucket=4&sk uId=4716667164616
Clamp	金属款 10-10mm → 10mm	Inner diameter: 10*10mm	https://m.tb.cn/h.fwQUW6h? tk=2eST2MKMQ73
	13925511296	Inner diameter: 12*12mm	https://item.taobao.com/item. htm?spm=a1z0k.7386009.0. 0.31d84700tp67hF&id=5752 38555451&_u=t2dmg8j2611 1

The approximate costs are list in the following. The visual display (a dedicated graphic card and 6 LCD screens): 12000 CNY. The computer to run the software and control the hardware device: 15000 CNY. The custom-made head-fix preparation: 3000 – 6000 CNY. The DAQ system: 1000 CNY. The Arduino-based modules (e.g. water pumps, licking detector): 3000 CNY. The commercial device to control air puff (Dagan controller or Picospritzer III): 20000 CNY. The laser mouse (2 – 10 items): 500 CNY. The styrofoam cylinder and related electric items: 1000 CNY. In summary, the approximate total cost 60000 CNY.