



# RT2产品手册

RT2 PRODUCT MANUAL

## 锐拓仪器

RAYTOR INSTRUMENTS

药物溶出度仪与溶出解决方案专业提供商  
Dissolution Device and Solution Professional Provider



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# 锐拓仪器

RAYTOR INSTRUMENTS

深圳锐拓仪器 (Raytor Instruments) 位于中国智造之都深圳, 是国家高新企业、ISO9001认证企业。锐拓仪器致力于药物溶出仪器与解决方案的研发、生产、销售和服务, 拥有多项技术专利。

Raytor Instruments is located in Shenzhen, the capital of Intelligent Manufacturing in China. It is a national high-tech enterprise and a ISO9001 certified enterprise.

Raytor Instruments is committed to the research and development, production, sales and service of drug dissolution instruments and solutions, with a number of technical patents.

锐拓仪器旗下的溶出产品包括: 流池法溶出系统、往复筒法溶出系统、普通溶出自动取样系统、扩散池自动取样系统、溶出仪机械性能验证工具箱、溶媒制备仪等, 全面覆盖国内外药典中各种溶出释放度测试装置。锐拓仪器同时能够为用户提供溶出度整体解决方案。

Raytor Instruments dissolution products include: flow-through cell dissolution system, reciprocating cylinder dissolution system, ordinary dissolution automatic sampling system, diffusion cell automatic sampling system, dissolution apparatus mechanical verification toolbox, dissolution medium preparation instrument, etc., which fully cover all kinds of dissolution release test devices in Pharmacopoeia. At the same time, Raytor Instruments can provide users with the overall solution of dissolution test.

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深圳锐拓仪器

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锐拓仪器  
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# 完善的产品线

Perfect Product Line

## RT7

### 流池法溶出系统

Flow-Through Cell Dissolution System

药典流池法



## RT3

### 往复筒法溶出系统

Reciprocating Cylinder Dissolution System

药典往复筒法、往复支架法



## RT6

### 普通溶出系统

General Dissolution Series

药典篮法、浆法、小杯法、浆碟法、  
转筒法、浸没池法.....





## RT8

### 药物透皮扩散系统

Transdermal Diffusion System

药典扩散池法

## RT5

### 溶出介质制备脱气系统

Medium Preparation Degassing System

溶出介质的制备、脱气



## RT2

### 溶出仪物理校准工具

Dissolution Mechanical Calibration Series

校准工作站、校准工具包



锐拓仪器  
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# RT2 溶出仪物理校准系列

Dissolution Mechanical Calibration Series



## 型号配置 Model Configuration



RT200 溶出度仪物理参数校准工具包  
RT200 Dissolution Mechanical Calibration  
Tool Kit



RT260 溶出度仪物理参数校准工作站  
RT260 Dissolution Mechanical Calibration  
Workstation

锐拓仪器拥有自主知识产权的溶出仪机械校准工具，适用所用标准普通溶出仪的桨法、篮法、小杯法机械验证。相关工具部件均符合计量所检定标准，符合现行版中国药典和美国药典的要求。

Raytor Dissolution Apparatus Mechanical Calibration Workstation is applicable to the mechanical calibration of standard ordinary dissolution apparatus by paddle method, basket method and mini vessel method. Relevant tools meet the calibration standards of Metrology Institute and the requirements of current Chinese Pharmacopoeia and United States Pharmacopoeia.

# RT200 溶出度仪物理参数校准工具包

## Dissolution Mechanical Calibration Tool Kit

### 主要部件:

#### Main Components:

- 无线数据收集器  
Wireless Data Collector
- 数字水平仪  
Digital Gradienter
- 数字温度计  
Digital Thermometer
- 同轴度摇摆度计  
Centering Wobble Meter
- 转速计  
Tachometer
- 深度计  
Depth Meter
- 无线功能模块  
Wireless Function Module



RT200配备多种计量机构认证的高精度测量模块，满足下列各项校准项目的需求：溶出仪水平度，溶出杯垂直度，桨轴\篮轴垂直度、摇晃度、同轴度、高度、转速，转篮摇摆度、溶出杯内温度均匀度等。

RT200 is equipped with a variety of high-precision measurement modules certified by measurement institutions to meet the needs of the following calibration items: shaft wobble, basket wobble, shaft verticality, vessel/shaft centering, vessel verticality, height check/basket depth, rotational speed, temperature uniformity in dissolution vessels, etc.





# RT260 溶出度仪物理参数校准工作站

## Dissolution Mechanical Calibration Workstation

### 主要部件:

#### Main Components:

- 智能检测工作站  
Intelligent Detection Workstation
- 数字水平仪  
Digital Gradienter
- 转速计  
Tachometer
- 数字温度计  
Digital Thermometer
- 深度计  
Depth Meter
- 同轴度摇摆度计  
Centering Wobble Meter
- 无线功能模块  
Wireless Function Module



RT260拥有RT200全套测试功能的同时，测试部件的校准数据可以无线实时传输到智能检测工作站（手持式平板），并自动生成测试报告，全程无需手工记录数据。数据记录实时准确，更加符合数据完整性要求。

While RT260 has a full set of test functions of RT200, the calibration data of test tool can be wirelessly transmitted to the intelligent detection workstation (handheld tablet PC) in real time, and the test report can be generated automatically. There is no need to record the data manually in the whole process. Data recording is real-time and accurate, meeting the requirements of data integrity.



# RT260软件系统

## RT260 Software System

RT260拥有功能强大的软件系统，例如新建/继续校准测试项目、检索和查阅已经执行的校准测试结果，校准数据导出（PDF文档）、账号管理、登录密码保护等。

RT260 has powerful software systems, such as creating / continuing calibration test items, retrieving and consulting the executed calibration test results, exporting calibration data (PDF document), account management, login password protection, etc.



用户密码登录  
User password login

创建测试项目  
Create test project



执行校准测试  
Perform calibration test



报告生成和导出  
Report generation and export





# 售后服务与技术支持

After Sales Service & Technical Support

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## 验证与确认

### Validation and Qualification

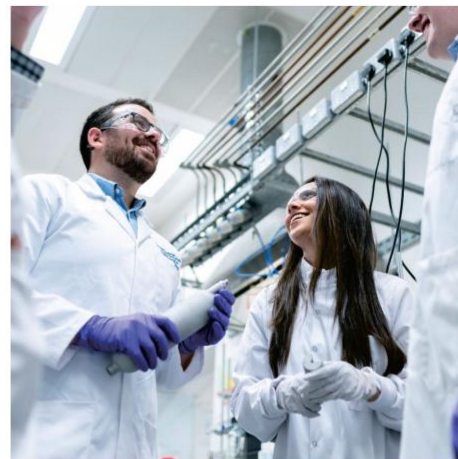
锐拓仪器能够为您的全系列溶出系统提供全面且专业的验证与确认服务。所有验证与确认服务都会附有符合法规要求的完整专业的文件报告。

Raytor Instruments can provide comprehensive and professional validation and qualification services for your dissolution systems. All verification and validation services will be accompanied by complete and professional documents meeting regulatory requirements.

我们能够提供的验证&确认服务包括且不限于：

The validation & qualification services we can provide include but are not limited to:

- 篮法、桨法 IQ/OQ/PQ  
Basket Method, Paddle Method IQ/OQ/PQ
- 中国药典小杯法 IQ/OQ/PQ  
ChP Mini Vessel Method IQ/OQ/PQ
- 桨碟法 IQ/OQ  
Paddle over Disk Method IQ/OQ
- 转筒法 IQ/OQ  
Dissolution Cylinder Method IQ/OQ
- 浸没池法 IQ/OQ  
Immersion Cell Method IQ/OQ
- 流池法 IQ/OQ  
Flow-Through Cell Method IQ/OQ
- 往复桶法、往复支架法 IQ/OQ  
Reciprocating Cylinder and Holder IQ/OQ
- 扩散池法 IQ/OQ  
Diffusion Cell Method IQ/OQ
- 计算机化系统验证  
Computerized System Validation
- 溶出系统清洁验证  
Dissolution System Cleaning Validation

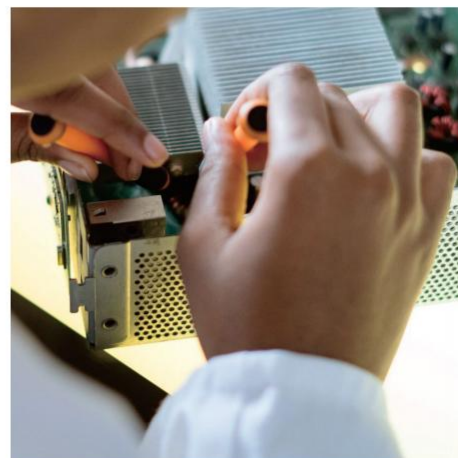


## 维修和预防性维护

### Repair & Preventive Maintenance

锐拓仪器售后服务团队能够快速应对您的仪器维修需求。锐拓仪器提供涵盖维修，预防性维护和维修后再确认的服务，让您的仪器始终处于最佳状态。

Raytor Instruments after-sales service team can quickly respond to your instrument maintenance needs. Raytor Instruments provides services covering repair, preventive maintenance and requalification after repair, to keep your instrument at its best.





## 培训与交流

### Training & Communication

锐拓仪器能够为您提供全系列溶出系统的使用操作培训。另外，锐拓仪器的专业技术团队能够根据您的实验需求，针对特定的技术细节进行更深层次的交流。

Raytor Instrumens can provide you with a full series of training on the operation of dissolution system. In addition, the professional technical team of Raytor Instrumens can conduct deeper communication for specific technical details according to your experimental needs.



## 应用技术支持

### Application Technical Support

锐拓仪器拥有强大的应用技术实验室团队，能够承接客户的新颖溶出方法开发，例如流池法、往复筒法。并协助客户进行溶出结果异常调查。

Raytor Instrument has a strong application technology laboratory team, which can undertake the development of new dissolution methods from customers, such as flow-through cell method and reciprocating cylinder method. And assist the customer to investigate the abnormal dissolution results.

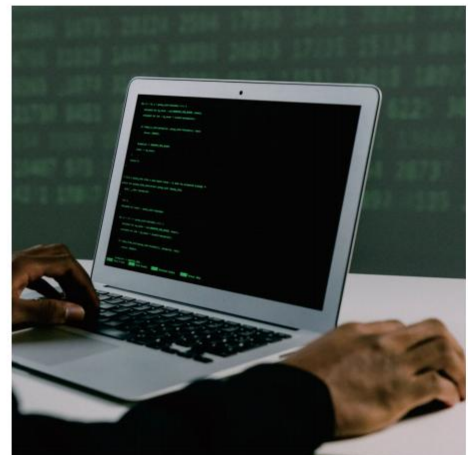


## 架设电子数据云系统服务器

### Electronic Data Cloud System Server

通过架设电子数据云系统服务器，连接多个实验室中的全部溶出系统，实现所有溶出系统的记录、用户、方法等电子数据的统一管理和自动备份。

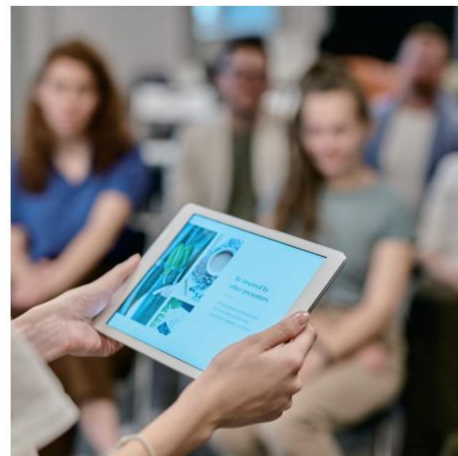
The electronic data cloud system server is to connect all dissolution systems in multiple laboratories to realize the unified management and automatic backup of electronic data such as records, users and methods of all dissolution systems.



## 技术研讨会 Technical Seminar

锐拓仪器会在全国各种制药技术研讨会中分享最新溶出研究成果。您可以关注锐拓仪器的参会安排，在研讨会现场跟我们的技术专家进行交流。

Raytor Instruments will share the latest dissolution research results in various national pharmaceutical technology seminars. You can pay attention to the participation arrangement of Raytor and communicate with our technical experts at the seminar site.



## 锐拓线上大讲堂 Raytor Online Lecture Hall

锐拓仪器会定期在线上举办大讲堂，介绍最新的溶出前沿技术。您可以进入大讲堂的直播平台收看技术宣讲，并在线上与技术专家进行交流互动。

Raytor Instruments will regularly hold a lecture hall online to introduce the latest dissolution cutting-edge technology. You can enter the live broadcast platform of the auditorium to watch the technical lectures and interact with technical experts online.



## 微信公众号 WeChat Official Account

锐拓仪器的微信公众号会定期分享应用实验案例、公布锐拓线上大讲堂和技术研讨会的安排。您可以关注我们的公众号，以获得最新的资讯。

The official account of WeChat public of Raytor Instruments will regularly share the application experiment cases, announce the arrangement of the lecture hall and technical seminar. You can pay attention to our official account for the latest information.





本文中的信息、说明和技术参数如有变更，恕不另行通知。

The information, description and technical parameters in this document are subject to change without notice.



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文件版本号：DS-S001-2303003