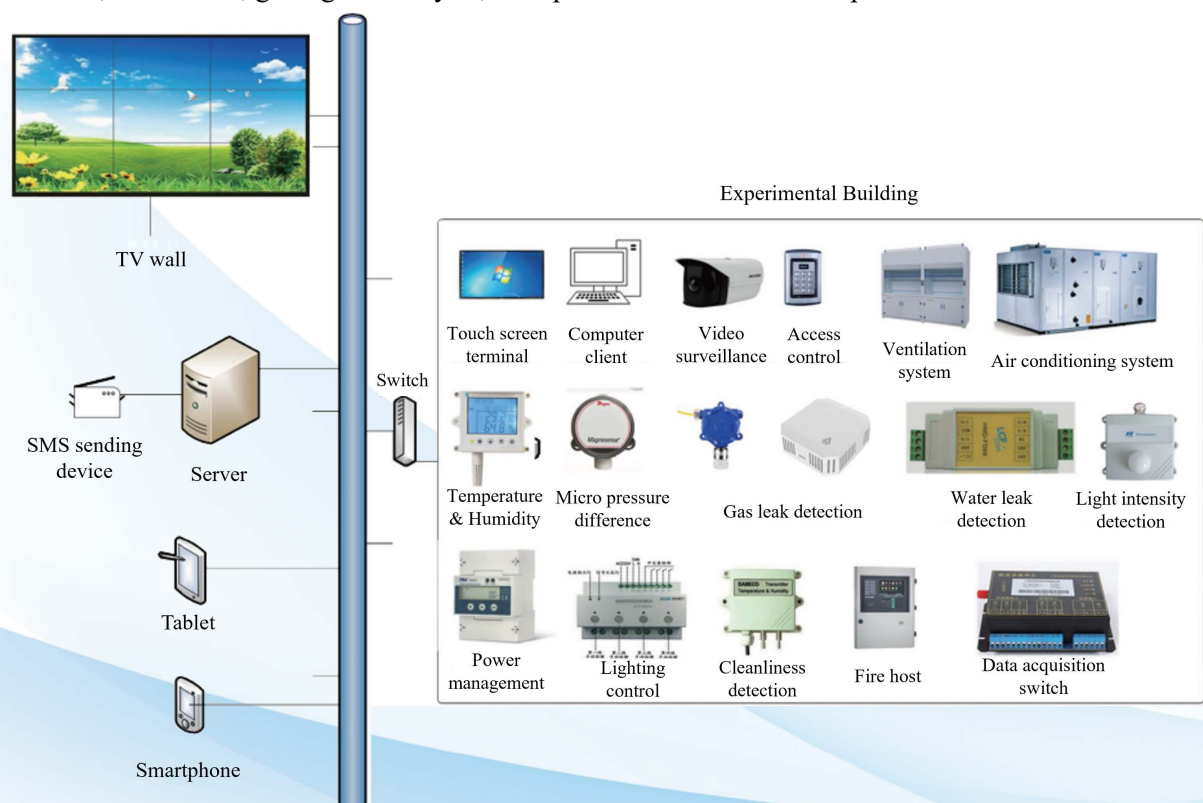


Intelligent Control System for Laboratory

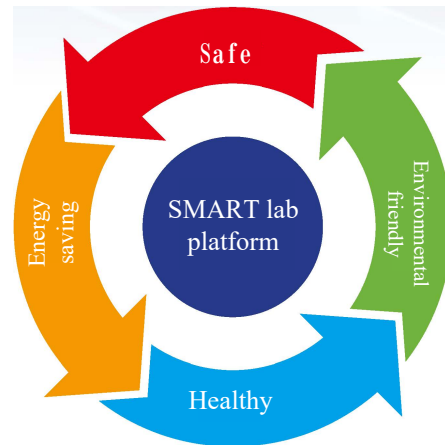


Platform Introduction

SMART laboratory comprehensive platform is based on many years of research and practical experience in the fields of laboratory design, construction, management, building automatic control, laboratory information system and other fields, combining computer technology, Internet technology, communication technology, automation technology, electronic technology and cloud service technology, combining software + hardware. The platform can centrally manage many professional subsystems in the laboratory field, such as ventilation, air conditioning, power consumption, centralized air supply and pure water, environment (temperature, humidity, air pressure difference, illuminance, dimming, noise, PM2.5/10, cleanliness, harmful gas, mixed water), video surveillance, access control, fire protection, RFID IoT, building intelligence, instrumentation, personnel, etc. The interconnection between subsystems is realized. As a typical application of Internet + laboratory, the platform can be widely used in scientific research institutes, universities, quality inspection, immigration, hospitals, pharmaceuticals, tobacco, coal mines, geological analysis, enterprise research and development centers and other fields.

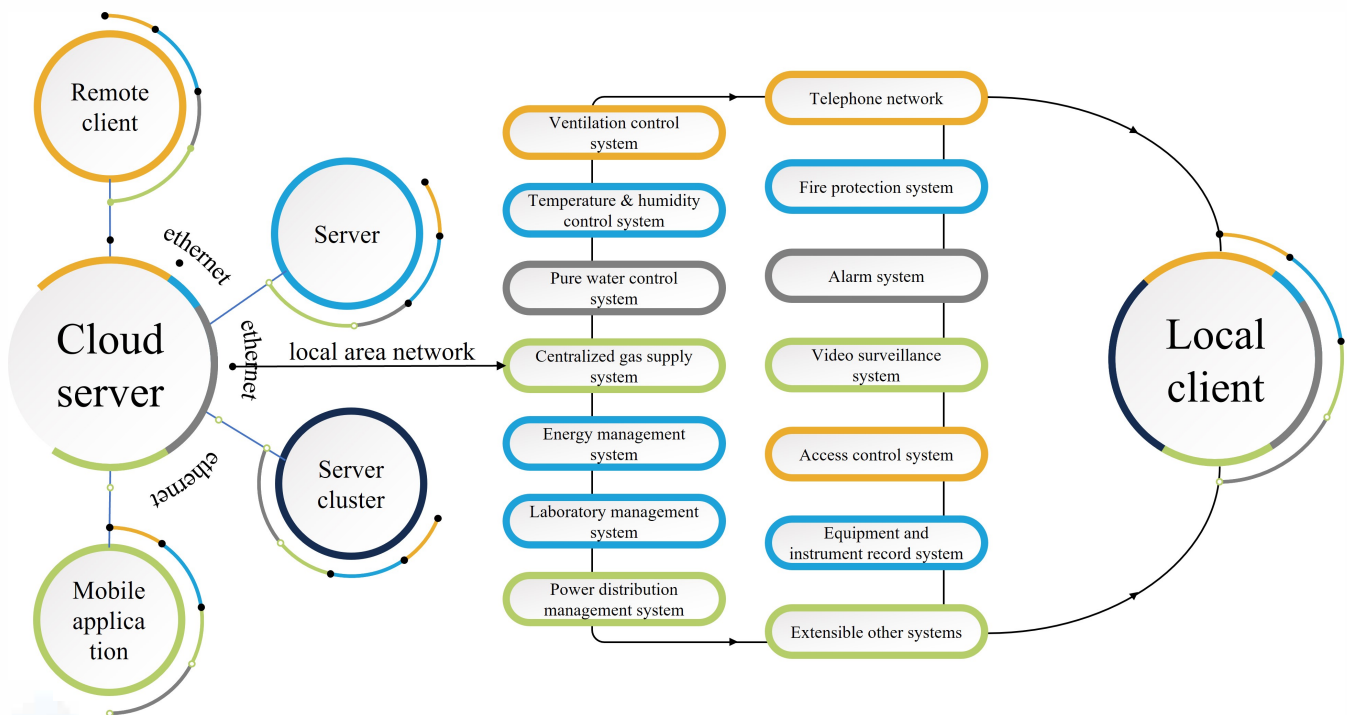


- * Integrate upstream and downstream software and hardware to form an ecosystem
- * Provide services to laboratories in various industries and build a laboratory big data platform
- * Support multi-platform remote management of PC and mobile apps
- * Build a 24-hour unmanned safety laboratory
- * Use intelligent management to ensure energy saving, environmental protection and a healthy experimental environment in the laboratory
- * Realize intelligent laboratory management, safety alarms and remote emergency response to dangerous situations



This platform can integrate laboratory industry specific software such as LIMS upwards, and integrate various kinds of subsystem software and hardware such as ventilation, air conditioning, security, etc. downwards. The combination of software and hardware can form an integrated platform to connect the upstream and downstream of laboratory-related businesses to form a big platform ecosystem.

Platform Architecture



Platform Features

- | | |
|---|--|
| ✓ LAB SCADA | ✓ Big data cloud service |
| ✓ Interconnection of subsystems | ✓ Remote control |
| ✓ Multi-platform management and operation | ✓ 24-hour unattended operation |
| ✓ Equipment work plan tasks | ✓ Safe, environmentally friendly and energy-saving |