COMMSCOPE®

State-of-the-art network connectivity to power next-generation healthcare in China

Customer

Sir Run Run Shaw Hospital

Country

China

About

Sir Run Run Shaw Hospital is one of China's foremost medical organizations. The group opened its first site in 1994 and has since built a reputation as a leading international healthcare provider. In 2024, the group opened its latest site, the Sir Run Run Shaw Hospital Shaoxing Campus, a key project of the provincial government. The campus's mission is to provide a "one-hour medical service circle" to patients in Shaoxing, Jiaxing, Ningbo, and Taizhou cities.

The Sir Run Run Shaw Hospital Shaoxing Campus is a prestigious operation. The total investment for Phase 1 of the hospital build was around RMB 3 billion, and the campus site extends to an area of around 16.7 hectares. The hospital building covers around 380,000 square meters, with 2,000 beds ready to serve up to 8,000 patients with top-class clinical and emergency services. When the project is complete, the new hospital is set to become the largest triple-A hospital in the region.

Patients will benefit from services that leverage cutting-edge technologies, such as AI-powered medical assistants, a fully automated "smart pharmacy" dispensing system, and intelligent wristbands enabling "smart wards." Overall, the new Shaoxing Campus will give patients access to more convenient, precise, and efficient personalized medical services.

The challenge

As hospitals leverage the benefits of digital technologies and become increasingly connected, intelligent operations and the complexity of network deployment, connection, and access increase too. A cutting-edge structured network cabling system is a core component of the hospital's digital infrastructure, and it must be able to support multiple systems and applications at the same time, including intranet, extranet, audio network subsystems, building automation control systems, energy consumption detection systems, public security, core server rooms, smart outpatient systems, and smart ward systems.

All these systems are designed to provide next-generation patient care, and they must interact and work in harmony using high-speed, reliable, and secure connectivity. The hospital network also needed to provide high availability and redundancy, with zero downtime, and

low latency to enable real-time applications like telemedicine and remote monitoring. The network also needed to be scalable to support growing data demands from IoT-enabled medical devices, wearables, and expanding healthcare services as Sir Run Run Shaw operations grow in the future.

Sir Run Run Shaw Shaoxing Campus also needed to address certain specialized medical industry requirements, such as higher standards of network connections than many other kinds of construction projects. The project needed high-quality cabling solutions—such as Category 6A copper cables and ultra-fine patch cords—to give the hospital the necessary high-speed and stable connections and reduce management complexity.

> "CommScope's high-quality products and professional solutions were delivered conveniently during construction and application. It is essential for our hospital operations that disruption is minimized and the efficient and stable cabling system is effectively invisible, unnoticed in our daily operations, but also omnipresent, and gives our Shaoxing Campus the reliable foundation for hospital operations today and in the future."
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> **Sir Run Run Shaw Hospital spokesperson**

The solution

CommScope specified market-leading network and connectivity solutions from its portfolio, including 2 million meters of CS41 Cat 6A UTP twisted pair cables. Further, there were 80,000 meters of OS2 fiber-optic cable and more than 30,000 MiNo6A Cat 6A UTP patch cords.

The results

CommScope's cabling solutions enable the high-performance network that Sir Run Run Shaw Shaoxing Campus needs for today—and tomorrow. The speeds delivered, in excess of 10-gigabit connectivity, are above the industry average, and the RJ45 connectors specified are compatible with all mainstream market network equipment interfaces.

The design and manufacturing process of CommScope Cat 6A cabling solutions pays special attention to reducing signal attenuation and interference and utilizing advanced process technology and materials to ensure cables effectively inhibit electromagnetic or other forms of interference—perfectly suited to maintaining the integrity and accuracy of high-speed data transmission across Shaoxing Campus.

The hospital requires the highest levels of safety in all operations, and CommScope cables have flame-retardant properties that comply with all relevant safety standards. In the event of a fire, the cables are designed to slow the spread of flames and allow more time for patients to evacuate the building.

CommScope Cat 6A cables come with clear installation guidelines and easy-to-operate tools, making them easy to deploy and maintain. Simplified cable management is another project benefit that reduces Shaoxing Campus's costs and administrative and labor expenditures.

It all adds up to a high-speed, reliable, flexible, and scalable network that positions Sir Run Run Shaw Shaoxing Campus to be ready to serve patients with a world-class healthcare offering.

The right partner

CommScope's market-leading products and professional solutions delivered the state-of-the-art network solution that Sir Run Run Shaw Hospital required to equip its Shaoxing Campus to be ready to serve patients. The experienced CommScope team of experts worked closely with the customer and was able to specify and supply the system with maximum convenience and minimized disruption to daily hospital operations.

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