



Distributed & Visualized Fiber KVM Collaboration System

Phinx Applications in Metro & Railway OCC

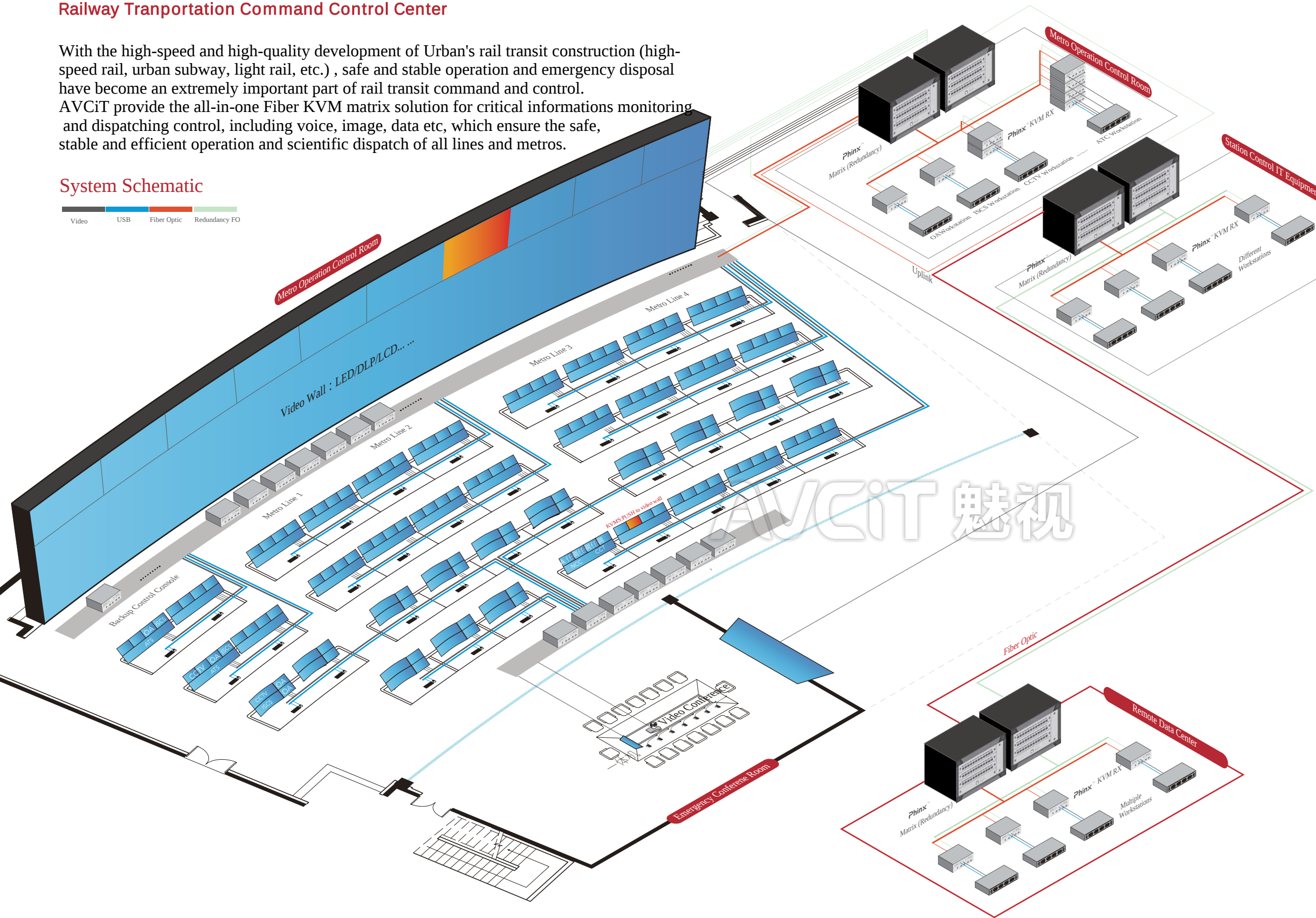
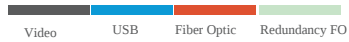




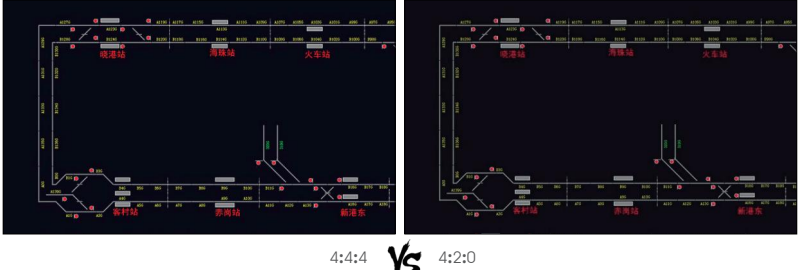
PHNIX Fiber KVM Matrix Solution has been installed in many Railway Transportation Command Control Center

With the high-speed and high-quality development of Urban's rail transit construction (high-speed rail, urban subway, light rail, etc.) , safe and stable operation and emergency disposal have become an extremely important part of rail transit command and control. AVCiT provide the all-in-one Fiber KVM matrix solution for critical informations monitoring and dispatching control, including voice, image, data etc, which ensure the safe, stable and efficient operation and scientific dispatch of all lines and metros.

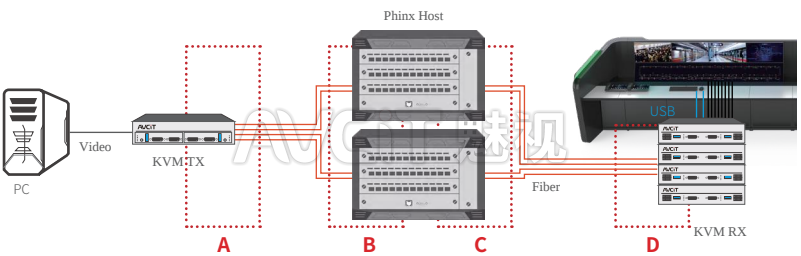
System Schematic



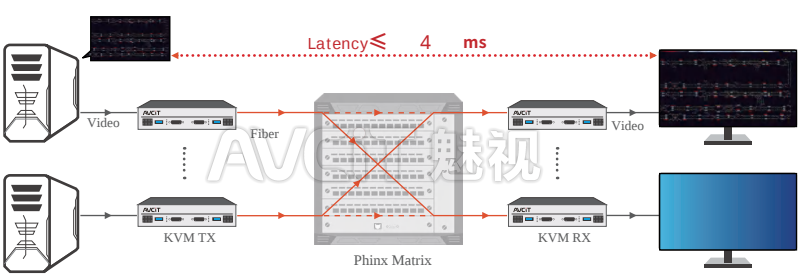
» FPGA structure with original image quality
Phinx System desinged by FPGA structure with leading image processing technology, ensure the uncompressed image transmission over 12 G bandwidth fiber in 4:4:4 chroma, without frame loss, any mosaic.



» High Stability & Full Redundancy
Benefit from preventive strategies and nanosecond monitoring, Phinx Fiber KVM Matrix system can realize 365x24 non-stop & redundancy running, in Railway/Metro Operation Control Room, Station Control Room, SCADA Room etc., which is with no black screen splash, no pause or noise could be detected by user, even in the case of failure of any point. For example, any point of A, B, C or D is failure will not affect the system running.

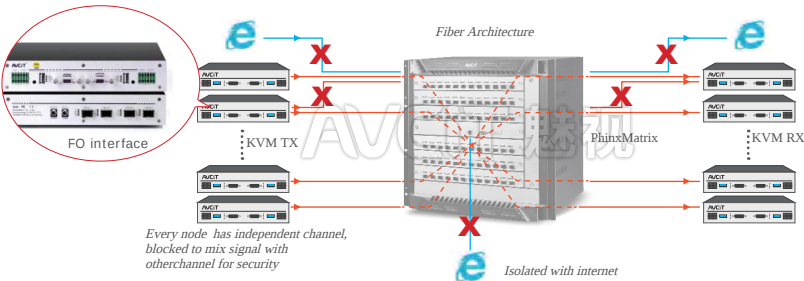


» Extremely Low latency
In order to minimize the fatigue and maxmum the efficiency of operators, Phinx Fiber KVM Matrix system achieves a point-to-point latency up to 0.004s, fixed the inaccurate mouse pointing and mouse drifting due to latency; with a great user experience, which is same to the local computer mouse.



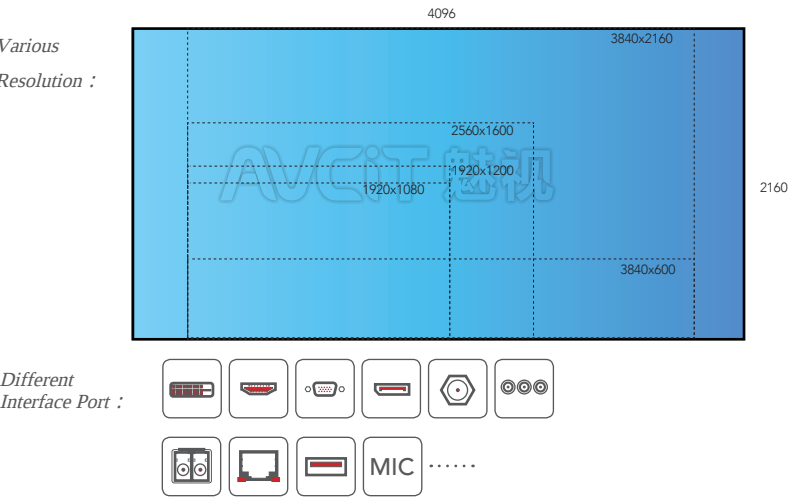
» Secure Data Transmission

Solution is based on FPGA processing technology and transmit data over fiber with abundant bandwidth for each channel. The whole system is isolated with internet and not available to access internet due to different protocol to avoid the Virus, Hacker attack etc.



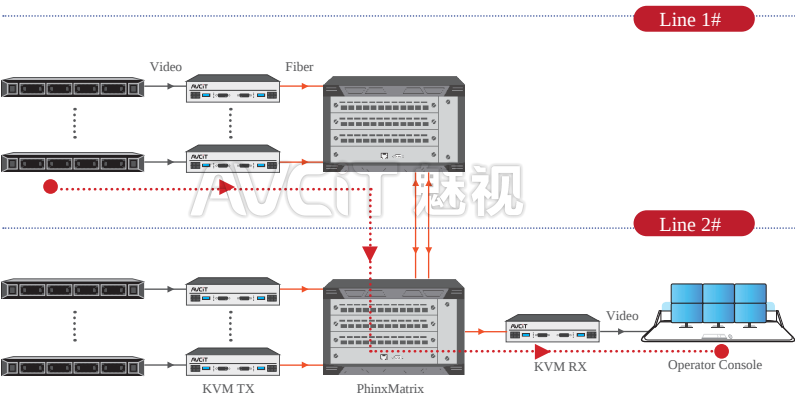
» Available for multiple signal format and various resolution

Resolution up to 3840x2160@60Hz (compatible with 4960x2160p@60Hz), 3840x600@60Hz, 1920x1200@60Hz, 1080p@60Hz and downward compatibility .Available for different signal format, including HDMI, VGA, DVI, DP, AV and SDI etc.



» Scalable Architecture

It's able to uplink the channels between two Phnix KVM Matrix for signal sharing and collaboration between different Metro Line's KVM system.



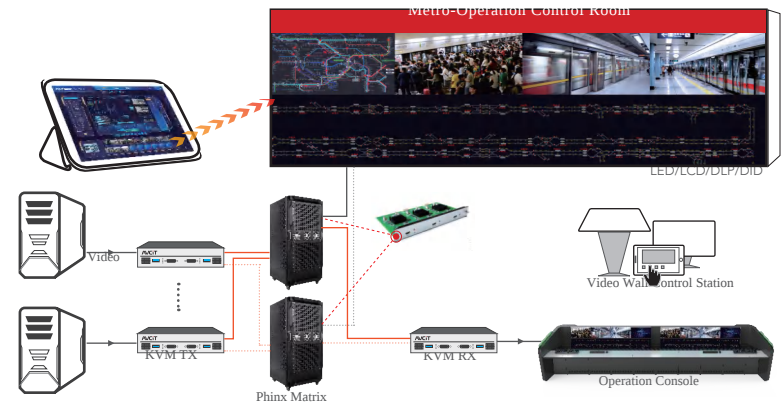
» Various Enclosure with Optional Interface Port

Phnix System is with various size of enclosure according project requirement, including 36, 72, 144, 288 and 576. Every fiber I/O could be connected with TX node or RX node, which will be detected automatically. Optional video interface port for TX, RX includes HDMI, DVI, VGA etc.



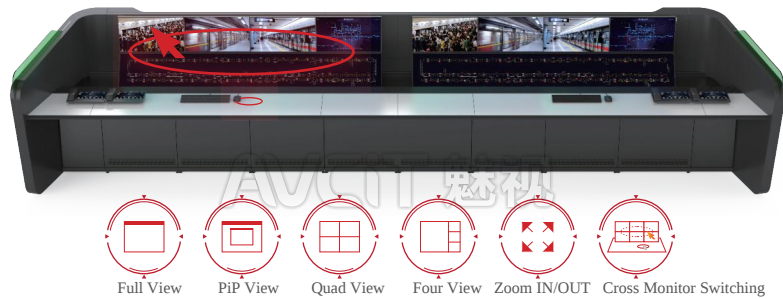
» Visualized Video Wall Control & Management

Phnix System is built-in video wall control feature for DLP, LED or LCD screens, with visualized management software, which is able to preview the source and content displayed on video wall in real time. Controlling software could be runned on Windows, iOS or B/S device. It's required to insert a video wall control module into Phnix Matrix only, no additional video wall controller required.



» Dynamic KVM by Multi-view Feature

Operator can access and control mutiple PCs on a single monitor simultaneously by customized monitor layout, including Full view, Picture-in-Picture view, Quad view etc. Each dynamic POP layout is available to save a preset and to recall in just a second, for even fast decision-making.



» Visualized Collaboration by GET and PUSH

Phinx system is flexible to equip operator with single or multiple monitors to manage remote workstations installed at data center, monitors group could be M*N.

Operator could set OSD hotkey for GET/PUSH feature and is able to get access multiple output of on relative monitors simultaneously. To increase collaboration efficiency, operator could push their monitor's content to video wall or other operator's monitor and make voice call.



» Permission Assignment

Metro Operation Control Room are equipped with different operator console for different tasks management. Administrator could assign the workstation access permission for every operator, who could login account at any Workspace Console to control their permissioned workstations.



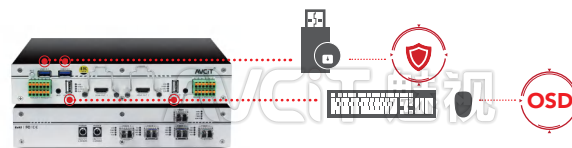
» Bidirectional Audio Transmission and Internal Call

Operator could get the audio simultaneously when accessing the workstation image by OSD. Workstation's audio could also be transmitted to Amplifier by node's phoenix audio port. For better collaboration, Phinx System allow operators to make voice call with each other by OSD.



» Secure USB data transmission

Sometimes AOC Operators need to transmit USB disk or U-Key data from operator desk to the workstation mounted at data center, Phinx System allows operator access and control the relative workstation by OSD and just insert USB disk at monitor's RX Node to transmit data.

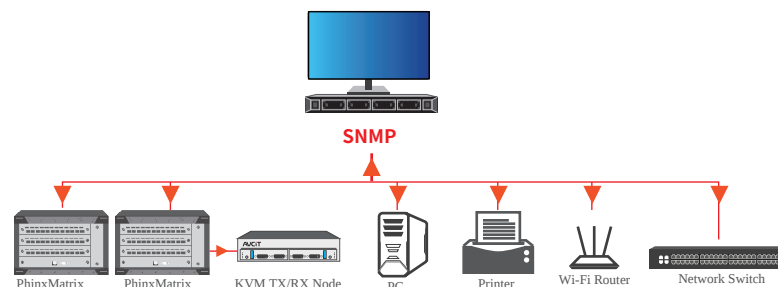


» Support SNMP Protocol

Available to monitor the status of system device by visual graphic, including real-time diagnosis, system alert, failure reason etc.

Support to automatically self-check, export the logs, alerts information etc.

3rd party software can integrate with our O&M Platform by SNMP protocol.



» Visualized Operation & Maintenance Platform

Metro Operation Control Room is high critical environment and should be equipped with professional monitoring and maintenance platform. AVCiT provide the Visualized Operation & Maintenance Platform for Phinx Fiber KVM System, by which all the critical devices and TX/RX node, logs, failure information and abnormal alert etc, could be monitored by visual chart and the failure information will be PoP in real time.





PHNIX Fiber KVM Matrix

Distributed & Visualized Fiber KVM Collaboration System



AVCiT Technology

Guangdong AVCiT Technology Holding Co.,Ltd.

Website : www.avcit.com.cn

Contact : 4000-139-300 / 020-89301789

HQ Address : 9/F, Financial City Greenland Center, 662 Huangpu Ave., Tianhe District, Guangzhou 510655, China