How to Improve Mission-Critical Control Room Operations with High-Performance KVM Extenders

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Vertiv™ Avocent® LV 5500 and Avocent® 5520 Deliver a Better Experience, Meet Business Needs

Control room applications are growing across industries, as enterprises direct mission-critical operations. That's why the global control room solutions market is slated to reach $58.2 billion by 2030.[1]

Now, buyers can modernize control room operations by using plug-and-play extenders for keyboard, video and mouse (KVM) devices with 4K resolution. Here's why organizations need Vertiv™ Avocent® LV 5500/Avocent® LV 5520 – and how they can use these extenders to empower users to do their best work, interpreting and using high-resolution video imagery in real-time.

Industries Use Control Rooms for Time-Sensitive, Complex Operations

Control rooms are used for the time-sensitive, complex operations, and KVMs extend remote computer imagery onto users' desktop monitors. Applications include:

- Media and entertainment, including video gaming; live TV news and sports and music events; and post-production on TV shows and movies
- Banking, government, healthcare, manufacturing, military and utility operations
- 911 call centers and other emergency response operations
- Briefing rooms, R&D labs, training rooms and testing facilities

KVM extenders can be used to provide remote, secure access to key business applications, whenever and wherever needed: in facilities, broadcast trucks or booths, ships and more.

Addressing Current Control Room Challenges

Control rooms may have modern technology, such as LED video walls, wireless presentation systems and video surveillance systems. Yet, users may work on computers that crowd their desks and offer average resolution. That creates a substandard experience, as workers log long hours on the job.

In addition, control rooms often feature a mix of legacy solutions from multiple vendors. This approach may lead to suboptimal outcomes, such as latency issues that harm users' responsiveness and productivity, technical failures or even power outages.

Deliver a Better Control Room Experience with KVM Extenders with 4K Resolution

Vertiv™ Avocent LV 5500/Avocent 5520 helps provide a better user experience in several ways. The solution offers plug-and-play extenders that:

- **Separate computing devices from users**, providing more desk space for working
- **Offer crisp, high-definition 4K resolution at 60 Hz**, making it easier to see fine detail that could influence decision making
- **Enable two users to see imagery from multiple sources** at the same time with the single-head extender, improving teamwork
- Use a high-speed USB to **support the use of isochronous devices**, such as headsticks, webcams and joysticks with the dual-head extender, which makes it easier to do the job at hand
- Empower teams to **take instant action**, based on their interpretation of real-time video imagery

Vertiv™ Avocent LV 5500/Avocent 5520 helps teams improve situational awareness and share information, increasing the speed and quality of decision making.

Support Business Needs with KVM Extenders

Vertiv™ Avocent LV 5500/Avocent 5520 also provides value to the business by:

- **Increasing physical security of computing devices**, by separating them from control room users or visitors
- Supporting two users with local passthrough on the single-head extender, **minimizing cabling and capital expenditures**
- **Simplifying IT management**, by reducing the number of computers needed to support operations
- Providing point-to-point extensions to **support ethernet and fiber connections**, while avoiding the complexity and cost of deploying a KVM matrix
- **Configuring devices automatically**, increasing IT productivity
- **Avoiding video tearing and latency issues**, which can occur with legacy equipment

Industry organizations can use Vertiv™ Avocent LV 5500/Avocent 5520 to modernize and secure control room technology, keeping pace with the mission. In addition, they can streamline equipment purchasing and vendor management by using Vertiv to meet more of their control room technology needs.

Conclusion

Organizations that use KVM extenders with 4K resolution provide teams with the work and video experience they expect, while delivering more value to the business and IT organizations.

Learn more about Vertiv™ Avocent® LV 5500 and Avocent® LV 5520 today.

[1] Transparency Market Research Report Synopsis, March 15, 2021.

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