



INTRODUCING UNIFIED KVM – A WHOLE NEW CLASS OF KVM

HIGH-PERFORMANCE 4K KVM OVER IP AND PROPRIETARY MATRIX SWITCHING

Emerald is a new high-performance KVM matrix switching solution developed by Black Box. The zero-client based proprietary and IP-based KVM platform delivers pixel-perfect 2K/HD or 4K/UHD video resolution over an IP network, a proprietary direct connection or both. It provides KVM connectivity between any combination or number of physical and virtual desktops and servers. Emerald supports true USB emulation, letting you connect external hard drives, Wacom® tablets and other high-speed USB 2.0 devices.

Emerald is the first KVM platform to support 4K video at 60 Hz over standard IP network switches and connections. Even if you're not quite ready for 4K, you're still ready for Emerald. Start with HD and add 4K at your own pace. Deploy IP or direct connect KVM from any unit, and support both physical and virtual servers. Your Emerald KVM network can start small, but it's infinitely scalable just by adding endpoints with no additional chassis or cards needed. With Emerald, you're always ready for the future – no matter what form it takes.

Emerald System Components

- Emerald HD or 4K Transmitters / Receivers
- Emerald IP Switches
- Emerald KVM Matrix Switches
- Emerald SFP Modules



FUTUREPROOF

HD and 4K video transmission over standard IP network infrastructure. Ready for whatever comes next.

INFINITELY SCALABLE

Unlimited scalability of endpoints (non-blocking). Highly configurable. No distance limitations.

COMPLETELY LOSSLESS COMPRESSION

Pixel-perfect image transmission with every pixel visualised at 60 fps with 10-bit color depth.

VIRTUALISATION

Simplified access to both physical and virtual servers. Virtual machine support for VMware®, Microsoft® and Citrix™, using RDP, RemoteFX and PCoIP.

WAN SUPPORT

Users can work anywhere with access to all connected resources, just as if they were directly connected.

AFFORDABILITY

Superior value with greater capabilities than other solutions at a competitive total cost of ownership.

RESILIENCY

Designed with 24/7/365 critical applications in mind, providing for network resilience at every level.

EMERALD APPLICATION

