

Emerald® DESKVUE Multi-Source, Multi-View Receiver

Introduction

Control room and command center operators in transportation, broadcast, government, utilities, and healthcare face a constant challenge: managing dozens of disparate systems from multiple sources without losing efficiency. This is where Emerald DESKVUE comes in. It's designed to simplify your workspace by consolidating multiple computers, servers, and virtual machines onto a single desktop. With a simple mouse movement, you can seamlessly interact with up to 16 different systems across up to four 4K monitors, freeing you from a cluttered desk of keyboards and mice and giving you the power to manage your entire operation with ease and precision.

Streamline Your Workflow: Stop the chaos of managing multiple systems with separate keyboards and mice. Our technology consolidates all your physical and virtual machines into one seamless desktop, so you can interact with **up to 16 systems simultaneously** without ever breaking your focus.

Work Your Way: Whether you need a massive video wall or a customized command center, our solution is built to adapt to your needs. Easily **tailor your individual workspace** by positioning and sizing each system on up to **four high-resolution monitors**, giving you the flexibility to manage everything from live feeds to critical data dashboards.

Built for Your Environment: We understand that a clean, quiet workspace is essential. Our system operates silently and is designed with an **extremely small footprint**, allowing for flexible mounting and a distraction-free environment that prioritizes your concentration and comfort.

Instant Access and Quick Response. For large-scale operations with more than 30 connections, our folder system is a game-changer. It helps you tame a long, confusing list of connections and create a clean, organized interface that reduces visual noise and helps you stay focused on the task at hand.

Application

- Transportation (Air Traffic / Rail / Ports)
- Government & Defense Command Centers
- Broadcast & Media Control Rooms
- Healthcare Operations Centers
- Utilities & Energy Control Rooms
- Manufacturing & Industrial Control Centers

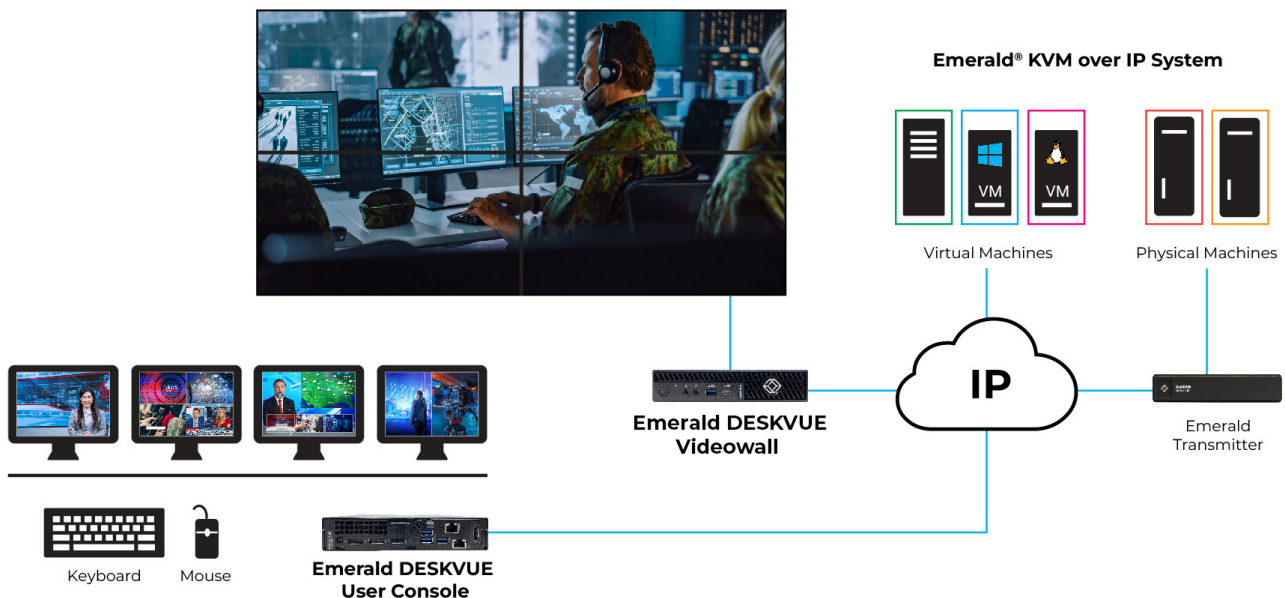
Product Images



Key Features

- **Centralized Control:** Manage up to 16 systems at once from a single workstation, giving you a comprehensive view of all critical operations.
- **Future-Proof Integration:** Seamlessly connect and control both physical and virtual machines, allowing you to easily scale your network and protect your long-term investment.
- **Clutter-Free Workspace:** Consolidate multiple workstations into one streamlined desktop, reducing clutter and improving response times with a single keyboard and mouse.
- **Mission-Critical Reliability:** Ensure your systems are secure, auditable, and always online with centralized, enterprise-class management.
- **Enhanced Team Collaboration:** Instantly share critical information by converting your workstation into a 2x2 video wall, keeping your entire team on the same page.
- **Intuitive Organization:** Use connection folders to organize, group, and manage your systems in a familiar, file-explorer-like structure for quick access.
- **Simplified Dual-Screen Management:** Dual-head KVM systems now appear as separate tiles, making it easier to arrange and interact with multi-head sources.
- **Multi-Touch Monitor Support:** Interact with your critical systems directly using touch screen monitors for a more intuitive and efficient workflow.

Application Diagram



Specifications

Physical	
Black Box Product SKU	EMD5104-R
Black Box Product Name	Emerald® Deskvue KVM receiver
Product Type	Emerald Deskvue
Dimensions (HxWxD)	7.17" H x 1.42" W x 7.01" D (182 x 36 x 178 mm)
Weight	2.91 lb. (1.32 kg)

General	
Processor	Intel Core i9 processor 14900 vPro (36 MB cache, 24 cores, 32 threads, up to 5.4 GHz Turbo, 65W.
Memory	16GB DDR5 Memory, 2X8GB, 5600, Non-ECC, SoDIMM
Storage	M.2 2230, 256GB PCIe NVMe SSD Class 35
Connectors	(4) DisplayPort™ outputs: (3) 4K and (1) 5K; (3) USB 3.2 Gen 2x1, Type A (SuperSpeed USB); (1) USB 3.2 Gen 1x1, Type A (SuperSpeed USB); (1) USB-C, USB 3.2 Gen 2x2 (SuperSpeed USB); (1) 3.5 mm Analog Audio Output; (1) 3.5 mm Analog Microphone Input; (2) RJ-45 1Gbps Network Ports; (Note: Only the bottom RJ-45 is functional. The top RJ-45 is for future use.) (1) Power Input
Compatibility	Boxilla® Managers, Emerald Transmitters, and Virtual machines (RDP, PCoIP, H.264/H.265).
Density	Access to infinite number of systems and control and view up to 16 simultaneously
OS Support	Microsoft Windows® 10/11, macOS®, Linux®.

Network	
Maximum Distance from Network	328 feet (100m) using CATx cabling
User Interface	Emerald On Screen Display (OSD)

Specifications (continued)

Power	
Power Source	Internal, External [Wall Adapter w/ adapter clips, Desktop-Inline], USB Powered
Power	180 Watt AC adapter, 4.5 mm barrel
Input Voltage/Volts	100-240VAC, 50/60Hz
Input Current/Amps	2.34 Amp
Output Voltage/Volts	19.5 VDC
Output Current/Amps	9.23 A
Power Consumption	180 Watts maximum
BTU (British Thermal Units)	613.8

Environmental	
Operating Temperature	50 to 95°F (10 to 35°C)
Storage Temperature	-40 to +149°F (-40 to +65°C)
Humidity Operating	20 to 80% (non-condensing)
Humidity Storage	5 to 95% (non-condensing)
Vibration (Maximum)	Operating: 0.26 gRMS Storage: 1.37 gRMS
Shock (Maximum)	Operating: 40 G† Storage: 105 G†
Altitude Range	Operating: <5,518 ft (1,681 m) Storage: <19,234 ft (5,862 m)

Regulatory and Warranty	
Approvals/Certifications	FCC, CE, RoHS, UL
Country of Origin	Poland
Standard Warranty	2 Year standard Warranty
Warranty Options	Extension by 1 or 3 years available

Product Includes:

- (1) Emerald DESKVUE KVM Reciever
- (1) 19.5V, 9.23A Power Adapter with Detachable Power Cord

Ordering Information

Product Code	Description
EMD5104-R	Emerald® DESKVUE KVM reciever

Footnotes

1. Dual-display Virtual Machine set up is supported when using DESKVUE, and Emerald Dual Head Receivers only.

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Black Box is a trusted IT solutions provider delivering cutting-edge technology products and world-class consulting services to businesses across the globe in every industry. The breadth of our global reach and depth of our expertise accelerate customer success by bringing people, ideas, and technology together to solve real-world business problems.

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