

DATA SHEET

EMD5104-R

EMERALD® DESKVUE KVM RECEIVER

24/7 TECHNICAL SUPPORT AT 877.877.2269 OR VISIT BLACKBOX.COM



BLACK BOX®

OVERVIEW

EMERALD DESKVUE KVM RECEIVER DATA SHEET

INTRODUCTION

KVM users today need to view, monitor, and interact with multiple clients that can reside on various networks with different work information, such as post-production editing, IPTV, live feeds, email, and rendering jobs.

In a completely new concept in KVM over IP, Emerald® DESKVUE enables these users to arrange their individual workspace for optimal simultaneous interaction with up to 16 different systems. It supports connections to physical systems via Emerald transmitters, Virtual Machines using RDP, PCoIP, PCoIP ultra, and H.264/5.

The Emerald DESKVUE receiver—as part of the Emerald KVM family and Boxilla KVM Manager—uniquely allows users to tailor their own workspace by connecting a single keyboard, mouse, USB 2.0 devices, audio, and up to four 4K monitors (one of the monitors can be 5K). Each system can be positioned across the screens with pre-defined layouts or freely movable tiles. Interacting with each system is as simple as moving the mouse over a tile. In this way, each operator has complete situational awareness and full control within easy reach.

Interact with up to 16 systems simultaneously

Connect to physical systems via Emerald transmitters and Virtual Machines using RDP, PCoIP (Ultra), and H.264/5.

Tailor your individual workspace

Freely place and size your systems across up to four monitors; view and interact with them in the most efficient way.

Up to 4k/5k video resolutions

Attach up to four screens at once, with DisplayPort™ resolutions supporting up to DCI 4K 4096x2160 @ 60 Hz; one DP connection can display 5120x2880 @ 60Hz.

Highly Secure KVM over IP

Fully integrates with Emerald Unified KVM and the Boxilla KVM manager for device configuration, monitoring, and authentication.

Design follows User Needs

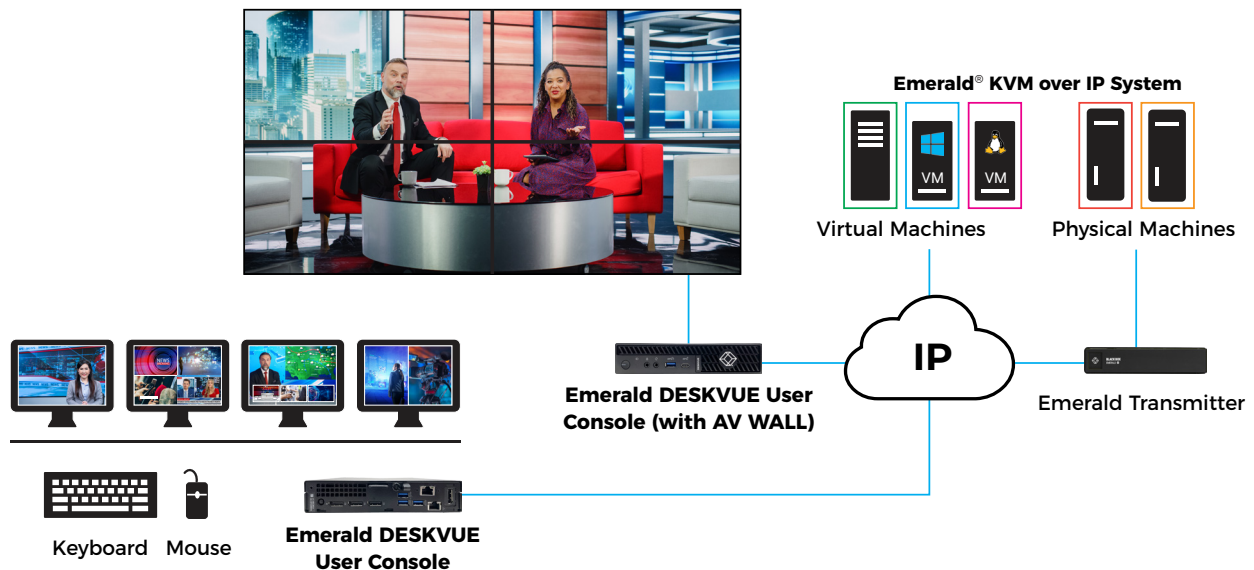
Silent operation, an extremely small footprint, and various mounting options provide a welcoming workspace.

FEATURES

- **FUTURE PROOF KVM, UNIVERSAL ACCESS SYSTEM - ACCESS BOTH PHYSICAL AND VIRTUAL MACHINES INCLUDING EMERALD TRANSMITTERS, PCOIP AND RDP TARGETS**
- **UP TO 16 CONNECTIONS OVER 4 VIDEO HEADS**
- **UP TO 4 UHD SCREENS, OPTIONALLY 1 CAN BE 5K**
- **OPTION FOR 'DUAL-HEAD' 4K DEPLOYMENTS OUTSIDE POST-PRODUCTION**
- **UP TO 4K VIDEO**
- **HIGHLY SCALABLE THROUGH IP NETWORKING / LOW BANDWIDTH**
- **REMOTE ACCESS TO KVM SYSTEMS TO ALLOW OPERATION ACROSS IP NETWORK THROUGH SOFTWARE APPLICATION**
- **COMPATIBLE WITH BOXILLA MANAGERS (FOR MANAGEMENT)**
- **CONNECTS TO PHYSICAL EMERALD TRANSMITTERS**
- **CONNECTS TO VIRTUAL MACHINES (RDP AND PCOIP)**
- **CAN ALSO BE USED AS A 2X2 VIDEO WALL PRODUCT**
- **TAA COMPLIANT**

APPLICATION DIAGRAM

EMERALD DESKVUE KVM RECEIVER DATA SHEET



WHAT'S INCLUDED/PRODUCT IMAGES

EMERALD DESKVUE KVM RECEIVER DATA SHEET

WHAT'S INCLUDED

- (1) EMERALD DESKVUE MULTI-SOURCE TAA RECEIVER
- (1) 19 VDC, 3A, DESKTOP POWER SUPPLY
- (1) COUNTRY SPECIFIC POWER CORD



SPECIFICATIONS

EMERALD DESKVUE KVM RECEIVER DATA SHEET

SPECIFICATIONS FOR EMERALD® DESKVUE KVM RECEIVER	
DIMENSIONS	7.17" H x 1.42" W x 7.01" D (182 x 36 x 178 mm)
WEIGHT	2.91 lb (1.32 kg)
PROCESSOR	V12th Gen i5-12500T (6 Cores/18MB/12T/2.0GHz to 4.4Ghz/35W)
MEMORY	8 GB
STORAGE	512 GB
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; (1) Power Input
MAXIMUM DISTANCE FROM NETWORK	328 feet (100m) using CATx cabling
USER INTERFACE	Emerald On Screen Display (OSD)
MOUNTING	None
POWER	65W AC adapter, 4.5 mm barrel
INPUT VOLTAGE/VOLTS	100-240VAC, 50/60Hz
INPUT CURRENT/AMPS	1.5 Amps
OUTPUT VOLTAGE/VOLTS	19.5VDC
OUTPUT CURRENT/AMPS	4.62 Amps
POWER CONSUMPTION	90 Watts maximum
HEAT DISSIPATION/BTU/h	306.9 BTU/h
TEMPERATURE RANGE	Operating: 50 to 95°F (10 to 35°C); Storage: -40 to +149°F (-40 to +65°C)
RELATIVE HUMIDITY (MAXIMUM)	Operating: 20 to 80% (non-condensing); 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)
COMPATIBILITY	Boxilla Managers, Emerald Transmitters, and Virtual Machines (RDP, PCoIP, H.264/H.265)



ORDERING INFORMATION

ITEM	CODE
Emerald® DESKVUE KVM Receiver	EMD5104-R

DISCLAIMER

Black Box Corporation shall not be liable for damages of any kind, including, but not limited to, punitive, consequential or cost of cover damages, resulting from any errors in the product information or specifications set forth in this document and Black Box Corporation may revise this document at any time without notice.

ABOUT BLACK BOX

Black Box® is a trusted IT solutions provider delivering cutting-edge technology solutions and world-class consulting services to businesses on every continent. The breadth of our global reach and depth of expertise accelerate customer success by bringing people, ideas, and technology together to solve real-world business problems. Our IT infrastructure solutions, services, and products enable secure, flawless connectivity and meaningful collaboration across town or around the globe. To learn more, visit the Black Box website at <https://www.blackbox.com>. Follow the company on Twitter @BlackBox_ns.

Black Box and the Double Diamond logo are registered trademarks of BB Technologies Inc. All other trademarks referenced herein are the property of their respective owners.

