

DATA SHEET

EMD5004-R

EMERALD[®] DESKVUE KVM RECEIVER

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



BLACK BOX[®]

OVERVIEW

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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, standard H.264/265 sources, and Virtual Network Computing (VNC). VNC functionality will be available via a firmware upgrade.

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 3/2 devices, audio, and up to four 4k monitors. Each system can be positioned across the screens with pre-defined layouts or freely movable windows. Interacting with each system is as simple as moving the mouse over a window. 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), H.264/5, and VNC.

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 HDMI resolutions supporting up to 3840x2160 and DP resolutions supporting up to 5120x1440.

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, RDP, AND H.264/H.265 TARGETS
- UP TO 16 CONNECTIONS OVER 4 VIDEO HEADS
- UP TO 4 UHD SCREENS, OPTIONALLY 1 CAN BE 5K (USB-C DISPLAYPORT™ ALT MODE)
- OPTION FOR 'DUAL-HEAD" 4K DEPLOYMENTS OUTSIDE POST-PRODUCTION
- PIXEL PERFECT VIDEO UP TO 4K
- HIGHLY SCALABLE THROUGH IP NETWORKING / LOW BANDWIDTH
- BUILT FOR 24/7 OPERATION WITH NO SINGLE POINT OF FAILURE - REDUNDANT MANAGERS / REDUNDANT LINKS, LOCAL DATABASE IN RECEIVER IN CASE MANAGER IS OFF-LINE
- 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, PCOIP, AND H.264/H.265)

WHAT'S INCLUDED/PRODUCT IMAGES

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WHAT'S INCLUDED

- (1) EMERALD DESKVUE KVM RECEIVER
- (1) 19 VDC, 3A, DESKTOP POWER SUPPLY
- (1) VESA MOUNT KIT
- (1) COUNTRY SPECIFIC POWER CORD
- SCREWS AND JUMPER

FRONT VIEW



BACK VIEW



SPECIFICATIONS

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SPECIFICATIONS FOR EMERALD® DESKVUE KVM RECEIVER	
DIMENSIONS	Unit: 1.47" H x 6.61" W x 4.52" D, (37.4 x 168 x 115 mm)
WEIGHT	Product: 1.21 lb. (0.55 kg); Power Supply: 0.56 lb. (0.25 kg); Product and Packaging: 3.10 lb (1.4 kg)
CONNECTORS	(3) HDMI Female; (1) USB C (USB4) for DP output; (1) 3.5mm Audio; (4) USB Type A Female; (1) Micro SD port; (1) 1G RJ-45 Network Connection; (1) 2.5G RJ-45 Network Connection; (2) BNC Connectors for Wi-Fi (disabled/reserved for future use); (1) 19VDC Barrel for power
MAXIMUM DISTANCE FROM NETWORK	328 feet, network limits, extend with network switches
USER INTERFACE	Emerald On Screen Display
MOUNTING KITS	VESA Mount included / Kensington Lock Support
POWER	12-19VDC Variable DC Input, but includes a 19V, 3A Supply
INPUT VOLTAGE/VOLTS	100-240VAC, 50/60Hz
INPUT CURRENT/AMPS	1.5 Amps
OUTPUT VOLTAGE/VOLTS	12 VDC, 5 VDC, 3.3 VDC
OUTPUT CURRENT/AMPS	Internal
POWER CONSUMPTION/WATTS	57 Watts MAX (typical usage is 2-3 Amps depending on number of plugged in peripherals)
HEAT DISSIPATION/BTU/h	194.37 BTU/h MAX (Voltage x Nominal Current) * 3.41 = BTU/h
POWER SUPPLY CORD LENGTH	4.5 feet (1.37 meters)
OPERATING TEMPERATURE	32 to 104°F (0 to 40°C)
STORAGE TEMPERATURE	-22 to +176°F (-30 to +80°C)
OPERATING HUMIDITY	10% to 90% non-condensing
MAXIMUM ALTITUDE/FEET	<6,561 feet (2,000 meters)
COMPATIBILITY	Boxilla Managers, Emerald Transmitters, and Virtual machines (RDP, PCoIP, H.264/H.265)

APPLICATION DIAGRAM

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