



# kramer

## KDS-USB2

USB 2.0 High-Speed Extension  
Encoder/Decoder Kit

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KDS-USB2 is a USB 2.0 high-speed extension kit for extending USB signals between a host computer and any USB peripheral device such as a mouse, keyboard, display, camera, mobile device, media player, or hard drive. The KDS-USB2 encoder connects to a host computer enabling communication with the USB devices that are connected to the KDS-USB2 decoder.

KDS-USB2 includes one encoder and one decoder for basic one-to-one USB extension, but with the purchase of additional units, you can diversify your USB extension system. For example, connect USB cameras in multiple locations to one computer or enable users in multiple locations to collaborate using the same host computer over a Local Area Network (LAN), in real time, using their own keyboards, mice and touch screens. Using Kramer's cloud-based control platform, you can map and/or control these multi-unit setups

## FEATURES

**High-Speed Extension** - Extends USB 2.0 signals up to 100 m with CAT 5e/6/7 cables, and up to 10km with fiber optics cable. Achieves USB 2.0 throughput up to 480 Mbps point-to-point or over LAN.

Note: Use recommended Kramer cables for best performance

**Extend Multiple Devices** - Connect to all 4 decoder ports simultaneously with 5 Volts, 500 mA available on each port

**Collaboration** - Pair up to seven decoders to one encoder/host computer for extended, multi-location collaboration

**SwitchableUSB™** - Construct one-to-many and many-to-many unit setups using Kramer's cloud-based control platform to manage the mapping and switch the connections

**Reliable and Certified** - Passes all key USB-IF compliance tests and FCC/CE Class B certified

**True Plug and Play** - No software drivers required

**Compatibility** - Works with all major operating systems including Windows®, macOS™ and Linux®



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## TECHNICAL SPECIFICATIONS

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Ports	<p>Encoder</p> <p>1 USB: On a USB type B connector for host computer</p> <p>1 CAT 5/6: On an RJ-45 connector</p> <p>Decoder</p> <p>4 USB: On USB type A connectors</p> <p>1 CAT 5/6: On an RJ-45 connector</p>
Extension Line	<p>Direct Connect: Up to 100m (330 ft) over solid core Cat 5e/6/7 cable</p> <p>Network Connect: Up to 100m (330 ft) between switches over solid core CAT 5e/6/7 cable (One local to seven remote pairings supported for Simultaneous Users Interaction)</p> <p>Note: For best performance use recommended Kramer cables</p>
General	<p>Maximum Throughputs: USB 2.0 – Up to 480 Mbps*; USB 1.1 – Up to 12 Mbps</p> <p>Traffic Types: All USB 2.0 and 1.1 Traffic Types (Control, Interrupt, Isochronous and Bulk)</p> <p>Device Types: All USB 2.0 and 1.1 Device Types and Classes</p> <p>Maximum Number of Connected USB Devices: 30</p> <p>Networking Standards: 1000BASE-T</p> <p>Networking Data Traffic: Layer 2</p> <p>Networking Control Traffic: Layer 3</p>
User Interface	<p>Controls: Front panel pairing button</p> <p>Indicators: Power, link, host, activity LEDs</p>
Power	<p>Encoder Source: Host computer</p> <p>Decoder Source: 24V DC adapter</p> <p>Consumption: 780mA</p>
Enclosure	<p>Type: Black anodized aluminum</p> <p>Cooling: Convection ventilation</p>
Accessories	<p>Included: 1 Power adapter, 1 USB2 type A male to type B male cable</p>
Product Dimensions	<p>18.75cm x 16.00cm x 2.54cm (7.38" x 6.30" x 1.00" ) W, D, H</p>
Product Weight	<p>0.4kg (0.8lbs) approx</p>
Shipping Dimensions	<p>35.10cm x 21.20cm x 7.20cm (13.82" x 8.35" x 2.83" ) W, D, H</p>
Shipping Weight	<p>1.2kg (2.6lbs) approx</p>

