



## Kramer HDBaseT 2.0 Range Extenders

### Powerful Long-Range Transmitters & Receivers for Twisted Pair or Fiber Optic Cables

Kramer introduces the industry's first HDBaseT 2.0 range extenders: TP-590TXR/TP-590RXR for Twisted Pair and 691/692 for Fiber Optic. These groundbreaking transmitter/receiver pairs offer reliable high performance for long distances with the unique benefits of HDBaseT 2.0. Both include support for HDMI, audio, bidirectional RS-232, IR, and native USB 2.0 signals.

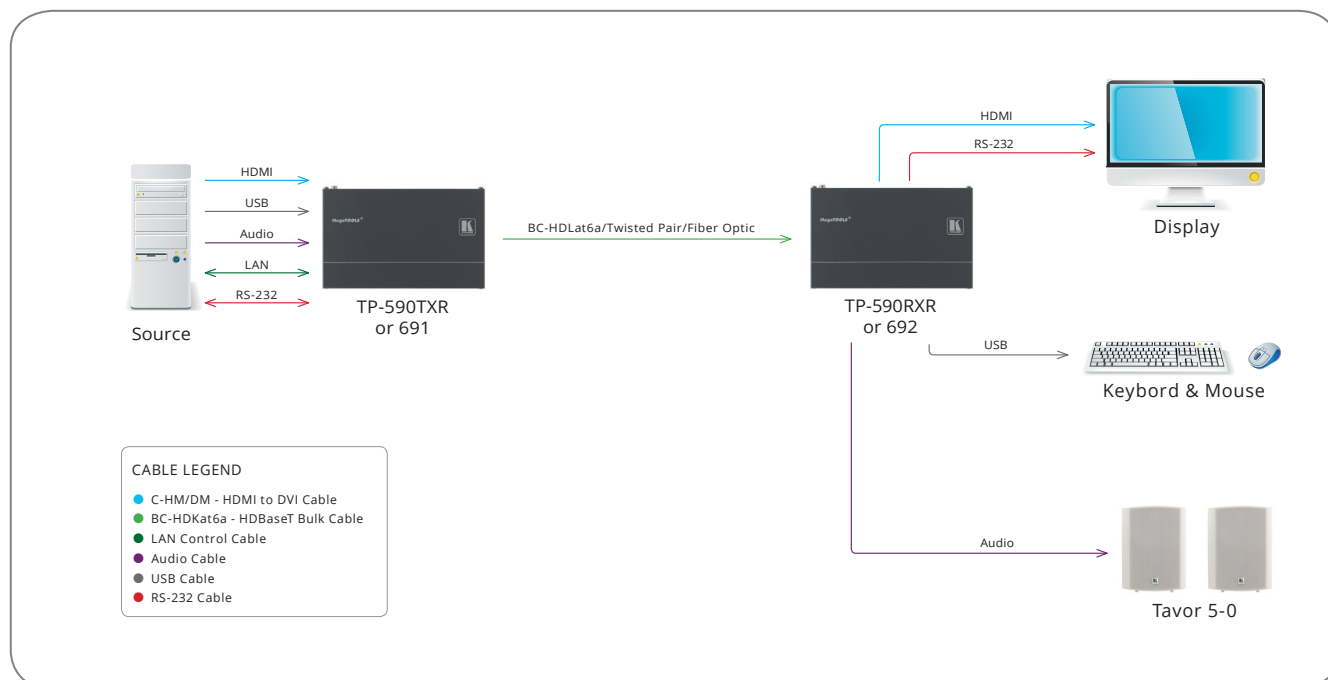
#### KEY FEATURES

- 2K and 4K support (10.2Gbps bandwidth)
- Native USB 2.0 host and device
- Power over Ethernet (PoE) for TP-590TXR/TP-590RXR — no power supply needed at the receiver
- 100BaseT Ethernet
- Flexible local and remote control

# HDBaseT 2.0 Range Extension Solution

## ADDITIONAL FEATURES

- Flexible control options: remote control over Ethernet (with built-in web pages), RS-232 and IR
- Backward compatibility with all HDBaseT 1.0 products
- HDTV compatibility and HDCP compliance
- HDMI support: deep color, x.v.Color™, lip sync, HDMI uncompressed audio channels, Dolby TrueHD, DTS-HD, and CEC
- 3D pass-through
- EDID pass-through: sends EDID signals between the source and display
- Support for Kramer's EDID designer (EDID customization)



TRANSMITTER	<p><b>Inputs:</b> HDMI connector, analog audio on a 3.5mm mini jack.</p> <p><b>Outputs:</b> HDBaseT 2.0™ on an RJ-45 connector (TP-590TXR) or Fiber Optic (691) connector, USB 2.0, IR on a 3.5mm mini jack, Ethernet 100BaseT on an RJ-45 connector, RS-232 on a 3-pin terminal block</p>
RECEIVER	<p><b>Outputs:</b> HDMI connector, analog audio on a 3.5mm mini jack, Ethernet 100BaseT on an RJ-45 connector 45 (TP-590RXR) or Fiber Optic (692) connector, RS 232 on a 3-pin terminal block.</p> <p><b>Inputs:</b> HDBaseT 2.0™ on an RJ-45 connector, USB 2.0, IR on a 3.5mm mini jack</p>

STANDARDS	HDBaseT 2.0™, HDMI with deep color, x.v.Color™ and 3D; HDCP: works with sources that support HDCP repeater mode
POWER SUPPLY	The transmitter is powered by a 12V power adapter. The TP-590RXR receiver can be powered by a remote TP-590TXR (PoE) or a 12V power adapter.
ACCESSORIES	Power supply

For more information, please visit us at [www.KramerAV.com](http://www.KramerAV.com)

© 2016 KRAMER ELECTRONICS, Ltd. All rights reserved. Reproduction in whole or in part without written permission is prohibited.