



## 676R

4K60 4:4:4 HDMI and RS-232 Receiver over  
Ultra-Reach MM/SM Fiber Optic

| HDMI | 4K/60 UHD (4:4:4)



676R is a high-performance HDMI fiber receiver for ultra-reach extension of 4K@60Hz (4:4:4) HDMI signals. 676R receives the transmitted optical signal from a compatible transmitter and converts it to an HDMI and RS-232 signals. 676R includes a multi-mode SFP+ transceiver, but can be used with any Kramer certified SFP+ transceiver, such as a single-mode SFP+ transceiver

### FEATURES

**High Performance Standard Fiber Extender** - HDMI fiber receiver for providing ultra-reach signals over either multi-mode or single-mode optical fiber infrastructures, using Kramer pluggable OSP SFP+ units (multi-mode SFP+ included). Near-zero latency video chroma sub-sampling conversion technology, is employed to auto-adapt above 10G HDMI signals to 10G optical link signal data-rate. Note: To ensure specified performance, support, and warranty of this product, use only Kramer's certified hi-performance OSP SFP+ pluggable optical units

**Multi-drop Signal Distribution** - Use optical splitters to extend the input signals from a single transmitter to multiple receivers, for displaying the same content on multiple display devices using optical splitting only, with no need for AV distribution amplifiers

**HDMI Signal Extension** - HDCP 2.2 compliant and supports up to 18G (6G per channel) data rate, LPCM 7.1, Dolby True HD, and DTS-HD as specified in HDMI 2.0

**Power Saving** - With CEC ON/OFF function, shut down a display device automatically when not in use, and auto power it ON upon presentation start

**I-EDIDPro™ Kramer Intelligent EDID Processing™** - Intelligent EDID handling, processing and pass-through algorithm that ensures Plug and Play operation for HDMI source and display systems

**Bidirectional RS-232 Extension** - Serial interface data flows in both directions, to enable data transmission and control of devices

**Cost-Effective Maintenance** - Status LED indicators for power, source, sink and fiber link connections detection facilitate easy local troubleshooting

**Easy Installation** - DigiTOOLS® rack mountable fan-less enclosure enables side-by-side mounting of 3 units in a 1U rack space with the recommended rack adapter



## TECHNICAL SPECIFICATIONS

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| Inputs                                       | Fiber Optic: On LC connector(s)   |
| Outputs                                      | HDMI: On a female HDMI connector  |
| Ports  | RS-232: On a 3-pin terminal block connector<br>USB: On a female micro USB connector for firmware upgrade  |
| Video  | Max Bandwidth: 18Gbps<br>Max Resolution: 4096x2160@60Hz 4K@60 (4:4:4)<br>Compliance: HDMI 2.0 and HDCP 2.2  |
| Extension Line                               | Optical Fiber: Multi-mode (MM) or single-mode (SM)<br>Optical Module: Kramer 10Gbps SFP+ IEEE 802.3ae compliant modules (MM is included)            |
| Multi-mode Line                              | Compliance: G.651.1 OFNR fiber<br>Max Reach over OM3 MM Fiber: 3km (1.8 miles)  |
| Single-mode Line                             | Compliance: G.652D OFNR fiber<br>Max Reach over OS1 SM Fiber: 33km (20.5 miles)   |
| Extended RS-232                              | Baud Rate 300 to 115200   |
| User Interface                               | Indicators: Source detection, sink detection, optical link and power LEDs<br>Controls: Reset button   |
| Power  | Consumption: 380mA<br>Source: 12V DC, 2A  |
| Environmental Conditions                     | Operating Temperature: 0° to +40°C (32° to 104°F)<br>Storage Temperature: -40° to +70°C (-40° to 158°F)<br>Humidity: 10% to 90%, RHL non-condensing |
| Regulatory Compliance (Standards Compliance) | Safety: CE, UL<br>Environmental: RoHs, WEEE   |
| Enclosure                                    | Size: Tool<br>Type: Aluminum<br>Cooling: Convection ventilation   |
| Accessories                                  | Included: MM SFP+ transceiver, power adapter, power cord, mounting bracket set  |
| Product Dimensions                           | 12.00cm x 7.15cm x 2.44cm (4.72" x 2.81" x 0.96" ) W, D, H  |
| Product Weight                               | 0.2kg (0.5lbs) approx   |
| Shipping Dimensions                          | 15.70cm x 12.00cm x 8.70cm (6.18" x 4.72" x 3.43" ) W, D, H   |
| Shipping Weight                              | 0.7kg (1.6lbs) approx   |

