



# kramer

## 612R/T

4K60 4:4:4 DP Transmitter/Receiver over  
Extended-Reach MM Fiber Optic

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



612R/T is a compact fiber optic transmitter and receiver capable of extending uncompressed DisplayPort 1.2 over fiber optic cable. This set of extenders supports 4K@60 (4:4:4) resolution up to 656 feet (200 meters) on a dual LC multi-mode fiber cable

## FEATURES

- Compliant with DisplayPort™ v1.2 specifications
- Max. Resolution - 4096x2160@60Hz
- Max. Data Rate - 21.6Gbps (5.4Gbps per lane)
- Supports Dual-mode DP (DP++)
- Max. Extension - 656ft (200m) over dual LC multi-mode OM3 fiber optic cable
- Supports Auxiliary I<sup>2</sup>C channel over fiber
- Compact Design - For easy plug and play installations
- Pure fiber connectivity for secure applications



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## TECHNICAL SPECIFICATIONS

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Video	Max. Resolution: 4K @60Hz 4:4:4 (4096x2160) Data Rate: Maximum 21.6 Gbps (HBR2) Compliance: Supports HDCP 2.2, EDID and DPCP (DisplayPort Content Protection) DisplayPort Support: Dual-mode DP (DP++)
Ports	612T (source end): Male DisplayPort gold plated 612R (display end): Male DisplayPort gold plated 612T (source end): Micro USB (for power supply) 612R (display end): Micro USB (for power supply)
Power	5V: Via USB source, external source, or DisplayPort PIN #20
Recommended Cable	Structure: Dual Multi-mode OM3 (50/125um) glass fiber Optical Connectors: Duplex LC connectors Max. Fiber Cable Attenuation ( $\lambda=850\text{nm}$ ): 2.5dB/KM Max. Skew: 0.4ns Max. Insertion Attenuation: 0.5dB Total Optical Attenuation: 1dB max @ 656ft/200m extension Maximum Length: 200m (656ft)
Environmental Conditions	Operating Temperature: 0° to +50°C (32° to 122°F) Storage Temperature: -30° to +70°C (-22° to 158°F) Operating Humidity: 0 to 85%
STANDARDS COMPLIANCE	CE: EN 55032:2012/AC: 2013 (Class A), EN 61000-3-2:2014, EN 61000-3-3:2013, EN 55024:2010, EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013 FCC: CFR 47 part 15 SUBPART B, Section 15.101 Environmental: RoHS (2011/65/ EU)
Accessories	Included: 2 Micro USB to USB type-A cables, 2 Wall-mount power adaptors, 1 20cm DisplayPort (M) to (F) copper extension cable