Overview

PXLDRIVE™ is a detachable dongle placed at the display end of a Ultra HD link with the ability to revive 100% truly uncompressed Ultra HD signals up to the maximum 18Gbps bitrate over new or pre-existing long reach Ultra HD cables.

Designed from the ground up in Canada, PXLDRIVE™ works by using an adaptive equalizer and re-timing block to maximize its effectiveness as a highly reliable, robust and interoperable Ultra HD signal extender.

PXLDRIVE™ Features

- 18Gbps (4K60 8-bit 4:4:4) Ultra HD extension up to 20m using Pixelgen™ Max 4K Interconnect cable
- 18Gbps (4K60 8-bit 4:4:4) Ultra HD extension up to *15m using a pre-existing cable
- Dolby Vision High Dynamic Range compatible (4K60 12-bit 4:2:2 - 18Gbps)
- HDR10, HDR10+ & HLG compatible (4K60 10-bit 4:2:0 - 11.1Gbps)
- ARC, CEC 2.0 supported & HDCP 2.2/1.4 compatible
- Plug and Play (no external tuning required)
- Powered by a Ultra HD display using any available USB port
- Adaptive equalization ideal for retrofitting applications where cable length/type unknown

* Ultra HD cable type

PXLDRIVE™ Max 4K Interconnect System

Available in 10, 15 lengths to achieve full 4K (18Gbps) functionality
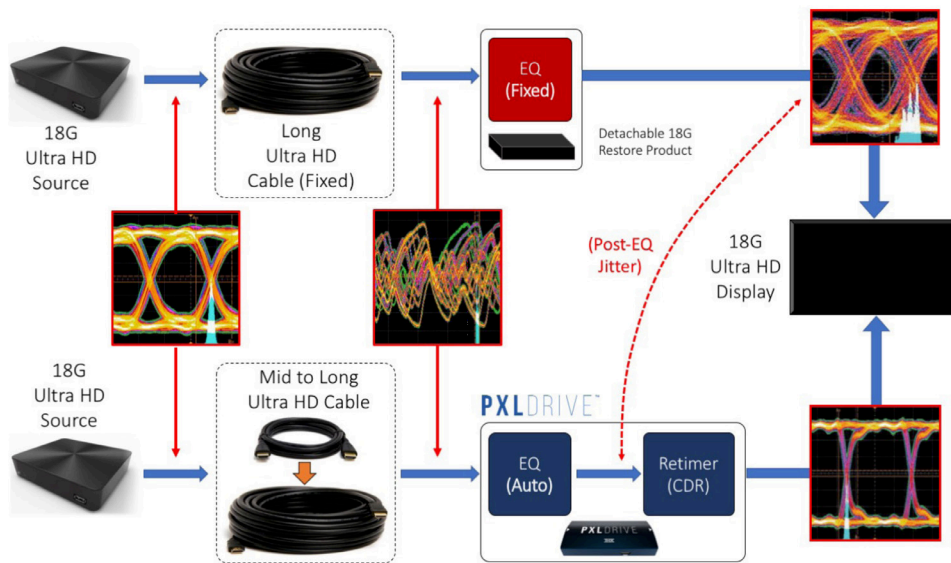

PXLDRIVE™ Standalone (Retrofit)

Upgrade previously installed Ultra HD cable to full 4K (18Gbps) functionality

NEW 2.1 Future-proofed!

All installed long-reach Pixelgen cable lengths (provided within the Max 4K Interconnect System) are future-proofed for 2.1 8K/48Gbps usage in conjunction with next generation PXLDRIVE unit.

PXLDRIVE™ Adaptive Equalization + Retiming vs. Fixed EQ (Competition)

PXLDRIVE™ Connections

- Video Input Connection: (1) Ultra HD Connector – Female 19 pin (Ultra HD 2.0b, HDCP 2.2, ARC)
- Video Output Connection: (1) Ultra HD Connector – Female 19 pin (Ultra HD 2.0b, HDCP 2.2, ARC)
- USB 2.0 Power Connection: (1) MicroUSB Type-B – Female

Ultra HD Input	Power - MicroUSB	Ultra HD Output
(long-reach Ultra HD cable from	(from Ultra HD display or wall wart)	(short Ultra HD cable to display)

Video/Audio

- THX® Certified 4K Interconnect
- Maximum TMDS Data Rate: 18Gbps/6Gbps per CH (4K60 8bit 4:4:4)
- Resolution Range: 480i, 576i, 1080i, 480p, 576p, 720p, 1080p, 1440p, 4Kx2K

Environmental & Regulatory Compliance

- Safety: CE, UL
- EMI/EMC: CE, FCC Class B – Section 15
- Environmental: RoHS, WEEE
- ESD Rating: 8kV contact (IEC 61000-4-2 Level 2)
- CMG Rated

Power Consumption & Operating Specs

- 2.5W via 5V/0.5A USB Supply
- Operating Temperature: 0°C ~ 70°C
- Storage Temperature: -20°C ~ 70°C
- Operating Humidity: 10% ~ 90%, RH, non-condensing

Ordering Information

- PXL-DRV10-01: 10m Max 4K Interconnect System
- PXL-DRV15-01: 15m Max 4K Interconnect System
- PXL-DRV-01: PXLDRIVE™ Standalone (Retrofit)