

### Video Limits

HDMI 1.4	1080p @ 120	15m/50ft
HDMI 2.0	4k @ 60	10m/30ft
DisplayPort 1.2	4k @ 60	15m/50ft
DisplayPort 1.4	8k @ 60	15m/50ft
HD SDI	1080i @ 60	100m/300ft
3G SDI	1080p @ 60	100m/300ft

### USB Limits

USB 2.0	480 Mbps
USB 3.0/3.1/3.2 Gen 1	5 Gbps
USB 3.1/3.2 Gen 2	10 Gbps
USB 3.2 Gen2x2	20 Gbps
USB 4.0	20 or 40 Gbps
USB 4.0 ver2	80 Gbps

### Projection Throw Ratio

Ratio = Distance/Width

Width = Distance/Ratio

Width = Ratio x Distance

### Data Rate Conversion

1 Mb	0.125 MB	0.001 Gb	0.000125 GB
8 Mb	1 MB	0.008 Gb	0.001 GB
1000 Mb	125 MB	1 Gb	0.125 GB
8000 Mb	1000 MB	8 Gb	1 GB

### Ethernet Limits

Cat 5e	1 Gbps	100M/300ft
Cat 6	10 Gbps*	55M/150ft*
Cat 6A	10 Gbps	100M/300ft

\*1Gbps @ 100M

### RJ45 Wiring

