



National Park Service Photo

UHD 12G Video Routers

32x32, 144x144,
160x160, 288x288



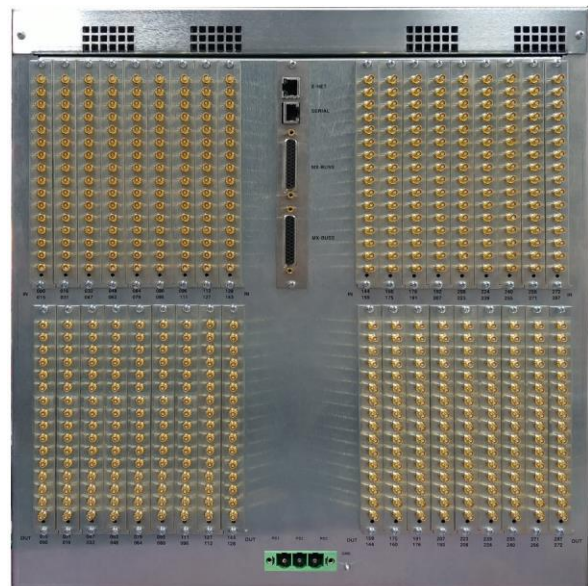
The First Single-Link Router for UHDTV

The demand for UHD content is exploding, and enterprise broadcasters are challenged to keep up. They need solutions today that can leverage their existing SDI signal infrastructure to transport real-time, full-bandwidth 4K UHDTV video signals. And they need more than a traditional 3G router, which can only process 4K signals through multiple paths.

At Utah Scientific, we get that – and it's why we designed the all-new UHD-12G digital routing switcher. The UHD-12G is the industry's first enterprise-class router to receive, route, and distribute the full range of SDI video signals over a single-link interconnect.

Key features and benefits

- Single-link interconnect for 4K-resolution signals
- Uses existing SDI network for simplified installations
- Distributes full range of SDI video up to 2160p60
- Supports SMPTE ST 2081 and ST 2082 standards
- Comes in enterprise-class frame configurations: 32 x 32, 144 x 144, 160 x 160, 288 x 288
- Is fully compatible with routing control systems including the SC-4, SC-40, and SC-400



288 x 288 Router

Small footprint 10 RU

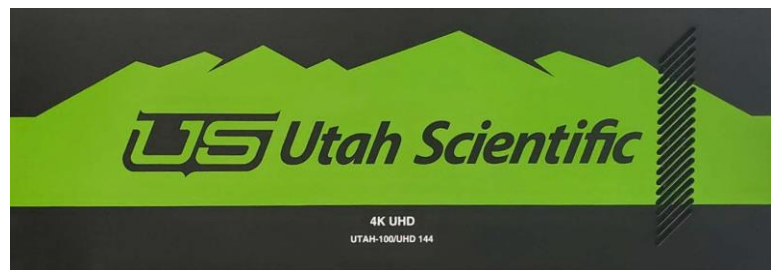
Low power consumption

Looking for a 12G SDI single link solution with redundant crosspoint cards? Your search ends with the Utah Scientific UHD-160R router.



160 x 160 Router Small footprint 5 RU
Low power consumption

Here's a router that can handle data rates from SD up to 2160p60 and everything in between, over the same industry-standard coax cabling on which you've always depended. That means simplified installations for signal transport that take up less rack space, need fewer cables to process 4K signals, and reduce operating expenses.



144 x 144 Router Small footprint 4 RU
Low power consumption

Perfect for live UHDTV content acquisition, the UHD-12G is fully compliant with SMPTE standards for SDI video. It works seamlessly with the full line of Utah Scientific products including previous-generation SDI routers – further protecting your facility's investment. Also, the UHD-12G can be controlled by any of our current routing control systems.



32 x 32 Router Small footprint 1 RU
Low power consumption

And of course, the UHD-12G is backed by Utah Scientific's four-decade track record of delivering the industry's finest router switching technology. Utah Scientific is still the only manufacturer to offer a 10-year hardware warranty.

I/O Module Specifications

Multi-Rate Digital Input Card

Number of ports per card: 16
Formats supported: From 18 Mbps up to 12 Gbps
Connector Type: HD-BNC

Multi-Rate Digital Output Card

Number of ports per card: 16
Formats supported: From 18 Mbps up to 12 Gbps
Reclocking: All SDI rates up to 12 Gbps
Connector Type: HD-BNC
Conforms to SMPTE 259C, 292, 424, 2081-1 and 2082-1

Frame Specifications

Width: 19" Rack Mount

Sizes: 1 RU – Capacity: 32 inputs, 32 outputs
Power Consumption: <30W
Depth: 3.5"

5 RU - Capacity: 144 inputs, 144 outputs
Power Consumption: <100W
Depth: 3.5"

10 RU - Capacity: 288 inputs, 288 outputs
Power Consumption: <400W
Depth: 6.0"

Digital Video Specifications

Jitter conforms to SMPTE 259, 292, 424, 2081-1, 2082-1

Reclocked data rates 270 Mbps, 1485 Mbps, 2970 Mbps, 5.94 Gbps, and 11.88 Gbps

Input return loss < -15 dB to 1.5 Ghz, -10dB to 3Ghz, -7dB to 6Ghz, -5dB to 12Ghz

Output return loss < -15 dB to 1.5 Ghz, -10dB to 3Ghz, -7dB to 6Ghz, -5dB to 12Ghz

Belden 4794R cable > 300 M @ 270 Mbps
> 150 M @ 1.485 Gbps
> 100 M @ 2.970 Gbps
> 80 M @ 11.8 Gbps

Specifications are subject to change without notice

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