BrightEye NXT 415, 430 and 430-X
Compact Routers

New Routing Technology

The BrightEye NXT 430 family of compact routers is famous for clean and quiet switching of video and audio sources. The exclusive front panel LCD displays realtime full motion video of your router sources. There is incredible power built into a small 1RU by 1/3 RU wide footprint – about the size of a club sandwich.

Clean Switch – Use Asynchronous Sources

The BrightEye NXT 430 Compact Router gives you two clean switched outputs. The router's built-in clean switch provides full frame synchronization which means you can switch or dissolve cleanly between asynchronous sources. Features include variable duration mix transitions, independent audio level adjustments and channel assignment of all 16 audio channels on an input-by-input basis.

If you don't need clean switching, you may prefer the BrightEye NXT 415 Compact Router. The NXT 415 has all the capability of the 430, except for clean switched outputs. The NXT 415 also supports ASI signals.

Assignable I/O and Flexible Architecture

You get to configure the number of inputs and outputs; the configuration is changeable on the fly. There are 2 fixed input BNCs, 2 fixed output BNCs and 7 assignable BNCs that you configure either as inputs or outputs. The two SFP (small format plugable) cages can be populated with dual SFPs that have fiber optic or other connectors, allowing you to determine the best connector for your installation.

Convert While You Route

The new BrightEye NXT 430-X Compact Router with U/D/C Conversion and Clean and Quiet Switching allows format conversion to take place while routing signals to destinations. Now, various formats of high definition and standard definition content can be converted to a common format and routed seamlessly to destinations. All you have to do is assign a SMPTE standard format to a destination and all sources routed to that destination will be converted to the assigned format – just select the source and hit TAKE.

Control From Third Party Devices

BrightEye NXTs can be controlled from third party devices using serial protocols via TCP/IP, RS-232 and SNMP. If RS-232 control is desired, please specify at time of purchase and your unit will come with the connector cable pre-installed. Field installation after the fact is not supported.

Web-Browser Control

The BrightEye NXT family of compact routers has a web server and Ethernet connector built right in. This allows full control and set up from virtually anywhere with any web browser enabled device. Operators can see updating video thumbnails of each source and each destination on their mobile device providing complete confidence during routing operations. Engineers can assess all aspects of set up and configuration.

Features

- **Router for 3G, HD, SD SDI, fiber and HDMI video**
- **Built-in dual Up/Down/Cross converters**
- **Dissolve and Cut transitions**
- **Salvo Registers – Save/Recall from your tablet and computer**
- **Flexible I/O – You configure BNCs and SFPs as inputs or outputs**
- **RS-232 and TCP/IP interfaces – use with any 3rd party device**
- **LCD display with realtime full motion video of your sources**
- **Safe driving mode**
- **Compact and rugged**
- **5-Year warranty and free software upgrades forever**

- **Clean switching of video and embedded audio**
- **Audio level adjustments**
- **Direct Take mode**
- **System wide configuration registers**
- **Front panel and web-based control**
- **Built-in test signal generators**
- **Genlockable and timeable**

ENSEMBLE
D E S I G N S

2014 Best of Show — digital VIDEO

2014 Best of Show — TVTechnology

Order Info – Three great choices:

BrightEye NXT 430-X
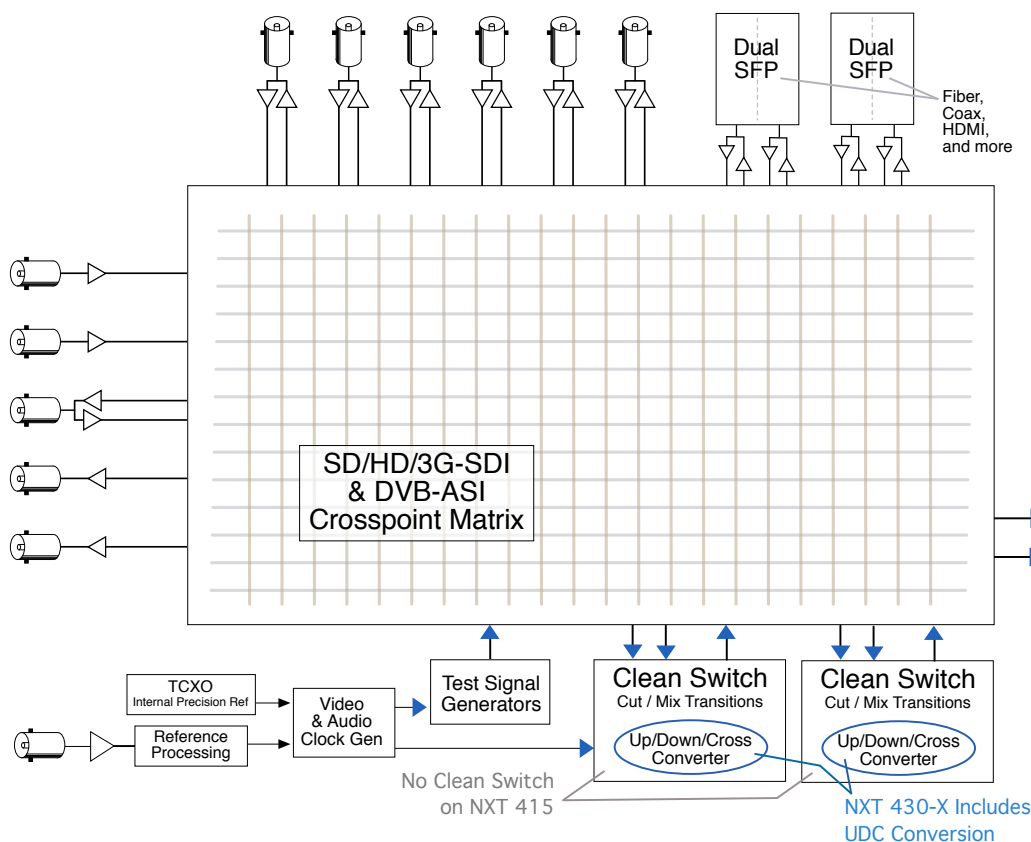Clean Compact Router with U/D/C

BrightEye NXT 430
Clean Compact Router

BrightEye NXT 415
Compact Router

Assignable I/O and Flexible Architecture:

- **2** dedicated SDI inputs
- **2** dedicated SDI outputs
- **7** SDI ports that can be configured individually as inputs or outputs
- **2** dual SFP cages
- **1** reference input

Resources

Interconnected by agile Crosspoint Matrix

Ports

SD/HD/3G SDI & DVB-ASI

2	BNC Input
2	BNC Output
7	BNC Bi-Directional
2	Dual SFP Positions
	Up to 4 simultaneous signals possible
	Bi-Directional according to chosen SFP Module
15	Total

Clean & Quiet Switches (NXT 430 & 430-X)

Full Frame Synchronization, Mix & Cut Transitions

2	Independent Clean Switches
	Up/Down/Cross Conversion - NXT 430-X only
	Assign to any Destination (output)

2 Test Signal Generators

Patterns, ID, Cyclops, 16 channels Audio

Genlock Reference

Locks Clean Switches and TSGs to common Ref

Dual SFP — Dual SFP

Fiber, Coax, HDMI, and more

SD/HD/3G-SDI & DVB-ASI Crosspoint Matrix

TCXO — Internal Precision Ref

Reference Processing

Video & Audio Clock Gen

Test Signal Generators

Clean Switch — Cut / Mix Transitions — Up/Down/Cross Converter

Clean Switch — Cut / Mix Transitions — Up/Down/Cross Converter

No Clean Switch on NXT 415

NXT 430-X Includes UDC Conversion

Thumbnail Processing — Graphics — Live Output

System Control — HTTP / Web Server — TCP/IP

Ethernet 10/100

Command & Control