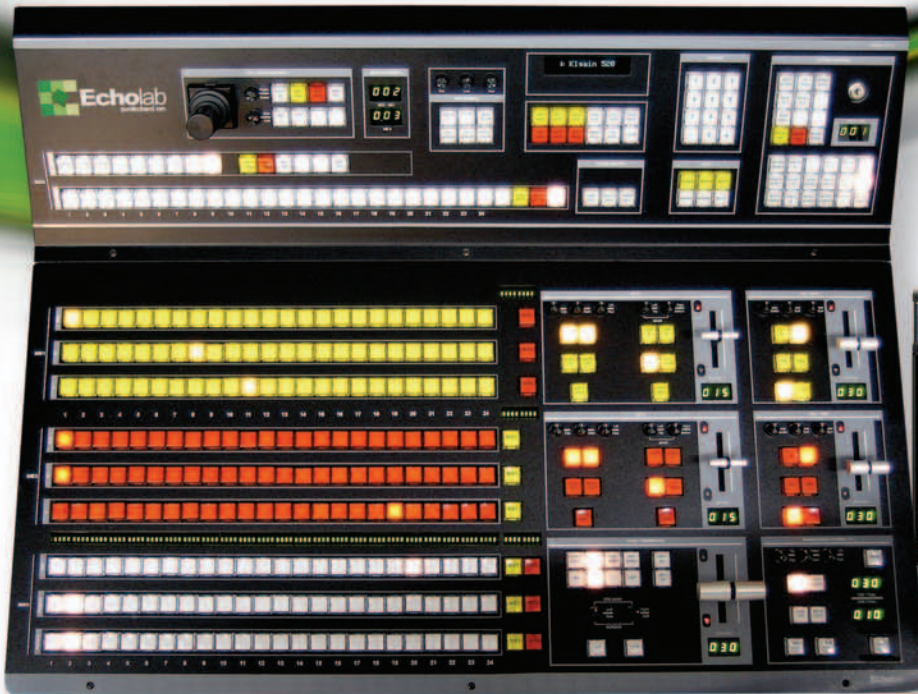




Nova 1932

Digital Format



Pictures shown are not to scale.

The world's most flexible 2.5ME SDI Video Production Switcher.

The Nova 1932 Production Switcher is the top of the Echolab SDI range. The powerful Classic 9 Panel is designed for fast paced live productions with single button per function access, extensive layering capability and ME re-entry. This switcher provides a remarkable price-point for entry into the highest level of broadcast technology. As well, Echolab's industry leading System on Chip architecture assures you of a technological platform that will be as relevant and commanding in future years to come.



For extended workflow performance, through an integrated server, Nova 1932 X Models provide unique ability to control devices internally or over a network via the brilliant Echolab Commander.

The Echolab Commander is a versatile auxiliary panel that extends the switcher's control to internal and networked devices providing easily customizable shortcuts to all switcher and studio functions.

No other big switcher gives you comparable features and performance for the price. These switchers are equally at home in large broadcast studios as in big churches, sporting venues, outside broadcast vehicles and corporate facilities.



Included as standard:

- Classic 9 control panel
- Nova 32/16 chassis
- 10-bit (4:2:2 NTSC/PAL)
- 32 SDI inputs
- 16 SDI outputs
- 4 effects keyers
- 2 downstream keyers
- 6 chromakeyers
- Still store frame buffer with alpha channel
- 3 pattern generators
- 2 matte generators
- 2 floating 2D DVEs
- 2 DVE border generators
- Organic wipes
- Adjustable transition rates
- Redundant dual power supply

Echolab Interface / Converters

We have developed our range of Echolab Converters to give you freedom of choice. The move to the digital platform can sometimes be difficult and expensive one. Echolab Converters bridge the analog and digital divide as well as resolve wide screen formatting issues now common in everyday production.

Echolab Converters have been specifically designed to complement the Echolab Nova SDI range of remarkable System on Chip next generation switchers allowing you to seamlessly upgrade your existing infrastructure while retaining many of the expensive analog devices still so crucial to your production environment.

Echolab Converters can also be coupled with almost any brand and type of switcher as standalone interface. The Converters are bundled with Echolab Converter Frames that provide smart control and power supplies in 1, 2, 4 RU or Desktop units.

Echolab Converters separate themselves from the crowd by delivering superb 12 BIT conversion, providing true 10 Bit conversion output. Ask any of our competition if they can match this and we make sure you will see that only our converters deliver 100% reliable, BEST 12 Bit in 10 Bit OUT QUALITY conversion against broadcasting standards.

Discover the unmatched power and flexibility of our Nova SDI Range now with full conversion gear for those with remaining analog infrastructure.

Analog to Digital (AtoD) Card

converts NTSC/PAL, composite, Y/C or YUV video to SDI.

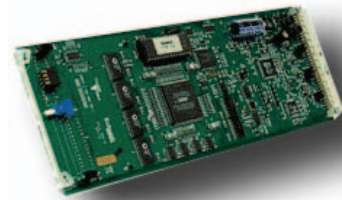
Digital to Analog (AtoD) Card

converts SDI into flexible combinations of NTSC/PAL, Composite, Y/C, YUV or RGB video using a high quality 12 bit encoder.

Aspect ratio Converter (ARC) Card

The Echolab ARC converter performs two conversions - 16:9 to 4:3 Full Screen and 4:3 to 16:9 Pillarbox.

Echolab Conversion products are a space-saving 4 x 10.5 inches module which can be housed in the Echolab smart frame for your application.



Echolab Smart Frames also house all Crystal Vision interface gear. Please visit their site for more information: www.crystalvision.tv

SPECIFICATIONS NOVA1932

Video Processing 10-bit 4:2:2 Serial Digital
Standards 525/60 NTSC or 625/50 PAL
External Reference Digital

Inputs

Number of Inputs 32
Input Type SDI
Input Timing Requirement plus / minus 18uS
Equalization Auto, 280 meters maximum
Return loss 15dB minimum

Outputs

Output Standard SDI, SMPTE 259M, 270 Mbps bit-serial
Output Signal level 750-850 mV p-p
Rise/Fall Time 400 pS min / 800 pS max (20% - 80%)
Overshoot 8% maximum
Additive Jitter 25 pS p-p typical
Pgm Outputs SDI (2)
Pww Outputs SDI (1)
Pgm Clean Feed Out SDI (1)
Aux Outputs SDI (12) timed
Aux Output routes Any source, M/Es Pgm, M/Es Pww, Cin/fd
Aux Memory / Recall Yes
Aux monitor output Selectable

Connectivity

Edit port Yes (Used for Integration)
Serial Port Yes (Integration / diagnostics)
Ethernet Yes (Used for Network Integration)
XML-RPC Server Yes (Integration / diagnostics)
Tally 32 / 8 (4 wiring blocks)
GPIO 3 in, 2 out / User programmable
External memory Compact Flash
Status indicators Yes
CF operation LEDs Yes
Panel display Yes
Power status With Redundant PSU option
User Configurations
Number of user Modes 8
User Mode selection Yes, hardware
User Mode interface PC based editing
Source naming Yes
Source mapping Any source to any x-point
M/E 1 + ME2 Flip-flop On/Off
GPIO events User programmable
Lamp saver mode User programmable
NTSC / Pal switchable User programmable
Network settings User programmable
Redundant power supply Yes, Optional

Operation

M/E 2.5
M/E take Fader bar, auto take, cut
M/E transitions Fader bar, auto take, cut
M/E transitions rate Adjustable
M/E Memory / Recall Yes
Upstream Keyers 4
Key take Fader bar, auto take, cut
Key transition rate Adjustable
Key tie Yes
Key layer Yes
Key priority Yes
Key types supported Luminance, Linear, Shaped, Chroma
Key masks Yes
Key Mask resets Yes

Key Memory / Recall Yes, referenced to fill source
Controls locked Yes, by KeyMem
Downstream Keyers 2
Key take Fader bar, auto take, cut
Key transition rate Adjustable
Key tie Yes
Key layer No
Key priority Yes
Key types supported Luminance, Linear, Shaped, Chroma
Key masks Yes
Key Mask resets Yes
Key Memory / Recall Yes, referenced to fill source
Controls locked Key Mem On
Chromakeys 6
Hue adjustment Yes
Luminance suppression Yes
Viewable matte Yes
Key lift (spill suppression) Yes
Chromakey Reset Yes
Color Matte Generators 2
Color Memory / Recall Yes
Main Pattern Generators 3
Basic Wipes 22
Organic Wipes 100 (optional 400 more)
Pattern adjustments Positioning, Symmetry (basic wipes)
Wipe borders Yes
Border sources Any source including upstream M/E
Width Variable
Softness Both sides, either side
Frame Buffers 1 with Alpha channel support (2nd optional)
Input Modes Pass-through, Freeze, Capture, Recall
View modes Frame, Field 1
Capture to Frame Buffer # of stills based on CF storage capacity
DVE 2 (2D)
DVE Resets Yes
DVE Memory / Recalls Yes
DVE Move keyframes 2
DVE Move length Adjustable
DVE border color generator 2, 1 for each DVE
Programmable Effects Memory
User Modes 8
Panel Saves/Recalls 99 per User Mode
Recall all Panel settings Yes
Recall only ME1 Yes of Saved Panel
Recall only ME2 Yes of Saved Panel
Timeline Sequencing User programmable macro automates any switcher functions to occur as a timed sequence of events and allows for user intervention
Total Timeline Sequences 65535
Active Timeline Sequences 10

Panel

Panel Classic 9 Panel
Direct Crosspoints 24 plus M/E1, M/E2
Shifted Crosspoints 24
Panel display Yes
Transition rate displays Yes
Fader bars 5
3-Axis Joystick Yes
Incremental Adjustments Yes
On-air indicators Yes
Lamp Saver Yes
Remote Panel Control Commander (Optional with X Model)
Remote Auxiliary Panel Commander (Optional)

Echolab 'X' Models

Echolab 'X Model' switchers harness the power of networking to maximize automated workflow efficiencies for an integrated live studio.

'X' is the nomenclature for the "extended functionality" models of Echolab switchers. 'X' models are dynamically bundled with a customized PC workstation providing the ability to integrate device options. There are also protocols available to control 360 Systems Image Servers, Compix Media CG's, Avitech Multiviewers and automation of other studio devices.

Echolab Commander

Through the integrated server, X Models provide unique ability to control devices internally or over a network via the unique Echolab Commander.

The Echolab Commander is a versatile auxiliary panel that extends the switcher's control to internal and networked devices providing easily customizable shortcuts to all switcher and studio functions.

Designed for LIVE production, the Echolab Commander linked to the Nova Series XP Server gives you easy access to many production tools normally run by a mouse and keyboard. VTR control, CG or Still Store Sequence control, and total switcher emulation are all available on user customizable "pages" of buttons.

Whether you need more control for a single operator, or remote control away from the main panel, the Commander is the ideal user interface. With up to 255 user designed pages of 18 buttons and 4 rotary encoders, VTR control buttons, menu driven support, and an interactive display, the Commander is exactly what you need it to be.

PCI based Options

X Model System upgrade Yes
Integrated Media Server 360 Systems Yes
Integrated CG Inscrubber, Compix Yes
VTR control V-LAN Yes
Avitech Multi-monitor interface Yes

400 Additional Wipes

Over 400 additional wipes, effects, transitions and dynamic mattes

Graphics Utility Tool - CD Rom / Software

Import / Export / Transfer images between Frame buffer and PC Includes Photoshop plug in to create native Nova (.nov) files Supports alpha channel, resizing and ethernet import/export

3 Year Full Warranty

Plus lifetime guarantee of free upgrades to the core software



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