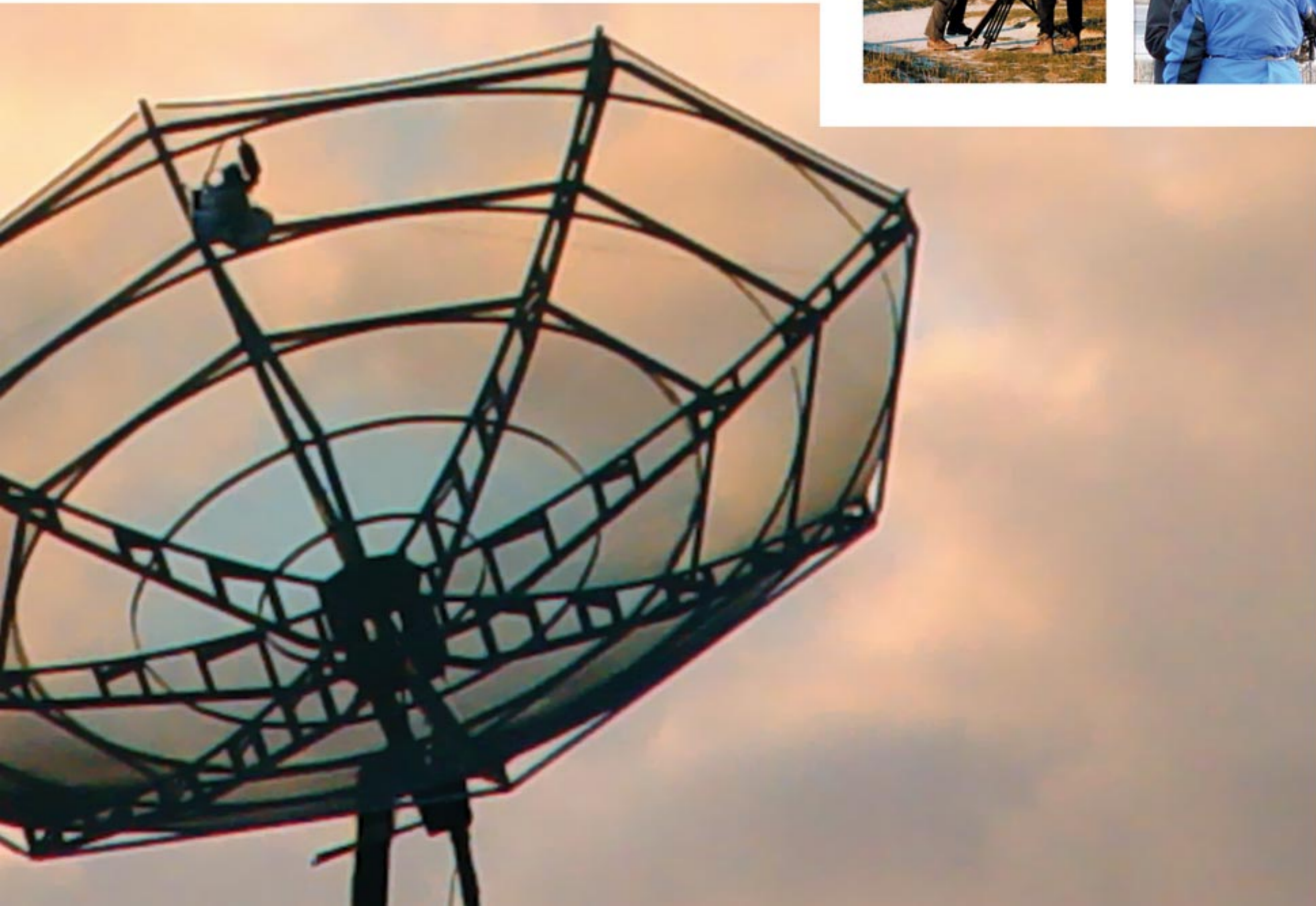
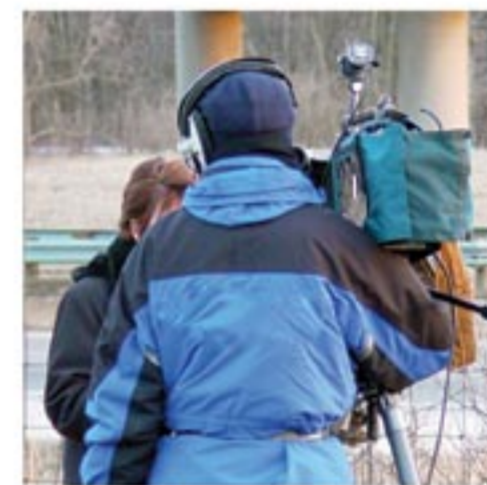


Trion[™] Broadcast



Legendary
reliability

On-Air **Broadcast** Console Solutions



true audio mixing

40-bit processing throughout

MirroredCompu

Ne



Broadcast Trion™



share resources via fiber

I/O Resource Sharing

One of the Trion's many advancements is its ability to share resources. Resource sharing is assured when networking more than one console, via fiber, to a Harrison digital.engine™. Sharing guarantees each console has combined resources consisting of system I/O and digital 40-bit channels.

The Trion™ on-air broadcast console is the latest digital console design from Harrison. By using Harrison's leading edge technology, Trion provides an efficient, cost effective, control solution for any high-end, TV or production application with or without dynamic automation.

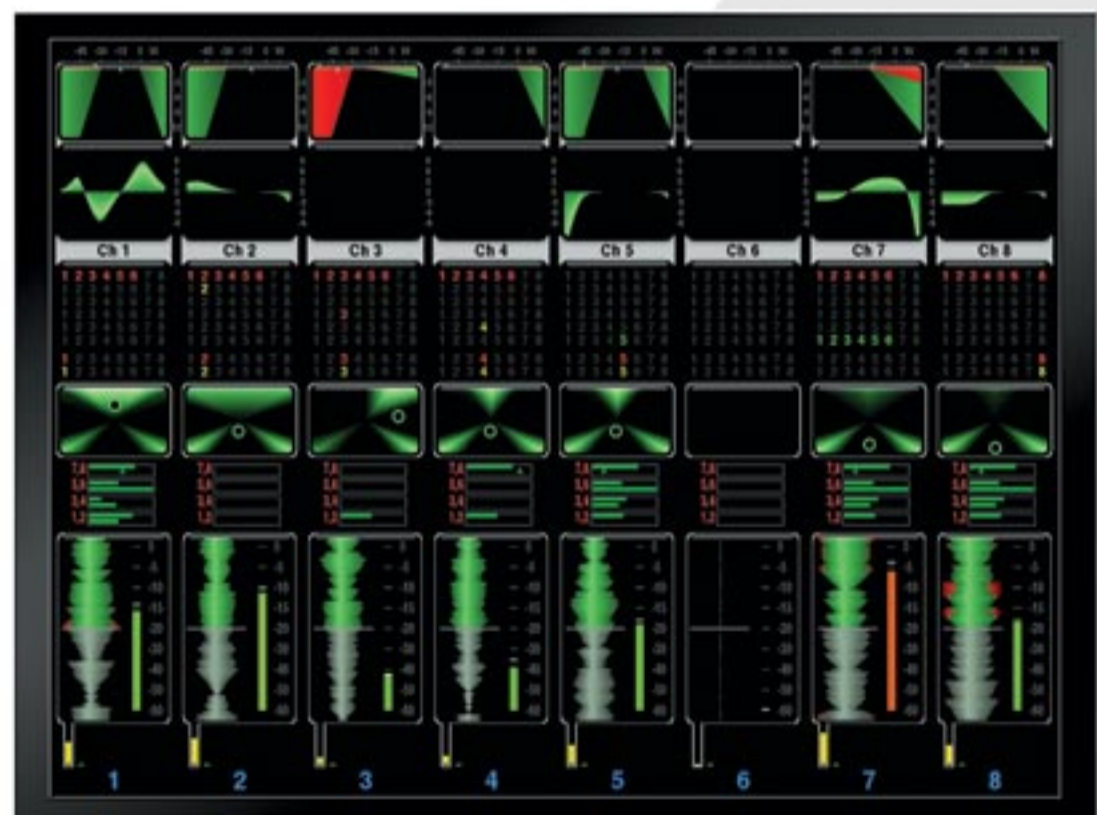
Trion™ Enhanced Broadcast Features:

- Exclusive end-to-end, 40-bit Wide Pipe™ architecture delivers no compromise sonic purity for any and all production needs.
- New surface architecture eliminates the need for a centrally located shared-control panel. Channel controls and assignments are always instantly accessible as vertically oriented strips or as a "fold-out" across 8 faders for a true knob-per-function adjustment, regardless of the operator's location at the console or at a remote panel.
- USB architecture minimizes the console profile, weight, and power requirements making droptrough panels possible.
- Harrison's digital.engine™, router, digital sources, and other systems hardware can be shared and remotely controlled by more than one audio console surface in your facility's network.

Surface Sharing

Place a single 8-fader panel and screen next to your video switcher or at master control for complete console access anytime a dedicated operator is not available. Never miss breaking news again.

For automated news delivery, (additional software required) the touch-sensitive faders and knobs allow instant intervention for touch-ups or complete audio takeover.



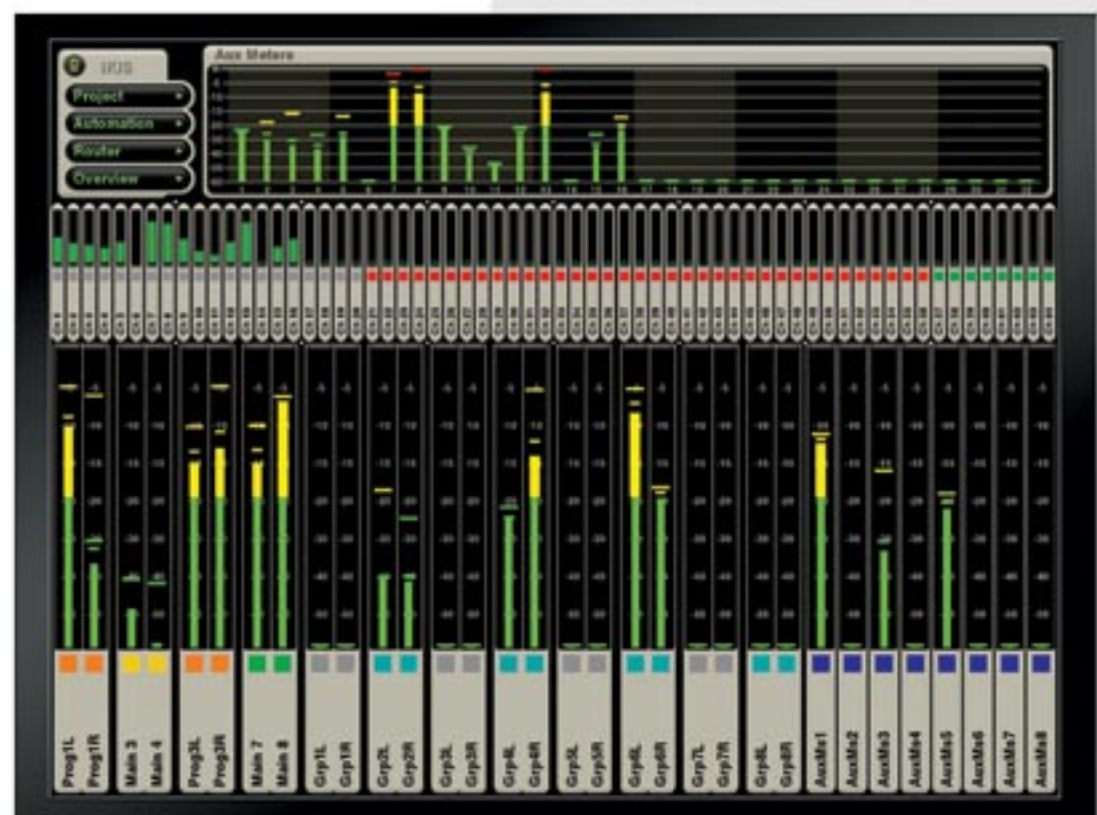
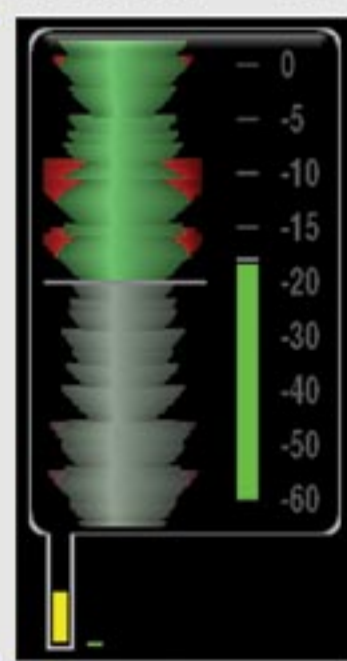
Channels Screen with PreView Waveform Displays

Integrated High-Resolution TFT Displays

The Trion is equipped with integrated, high-resolution, TFT screens. Above each 8-faders is a dedicated wideview TFT screen with a graphical representation of dynamics, EQ, input channel source, bus routing, panning, aux sends, input meter, and the PreView™ waveform display with history graphic. PreView's history is useful when identifying audio source problems.

PreView™ Waveform Display (patent pending)

The exclusive Harrison PreView display, located above every channel strip, offers a 20 second long waveform view of ANY AUDIO SOURCE. The waveform, which "follows" each audio channel, is generated as the audio passes through the channel and accompanied by a standard VU+peak meter. A horizontal line marks the "live" point. The waveform above the line represents a history of the signal level in the channel, while the waveform below the line represents a preview of audio yet to be played (in the case of a prerecorded audio source). The "live" point can be adjusted in real-time to show 20 seconds of preview, 20 seconds of history, or any value in between.



Customizable Meters Screen

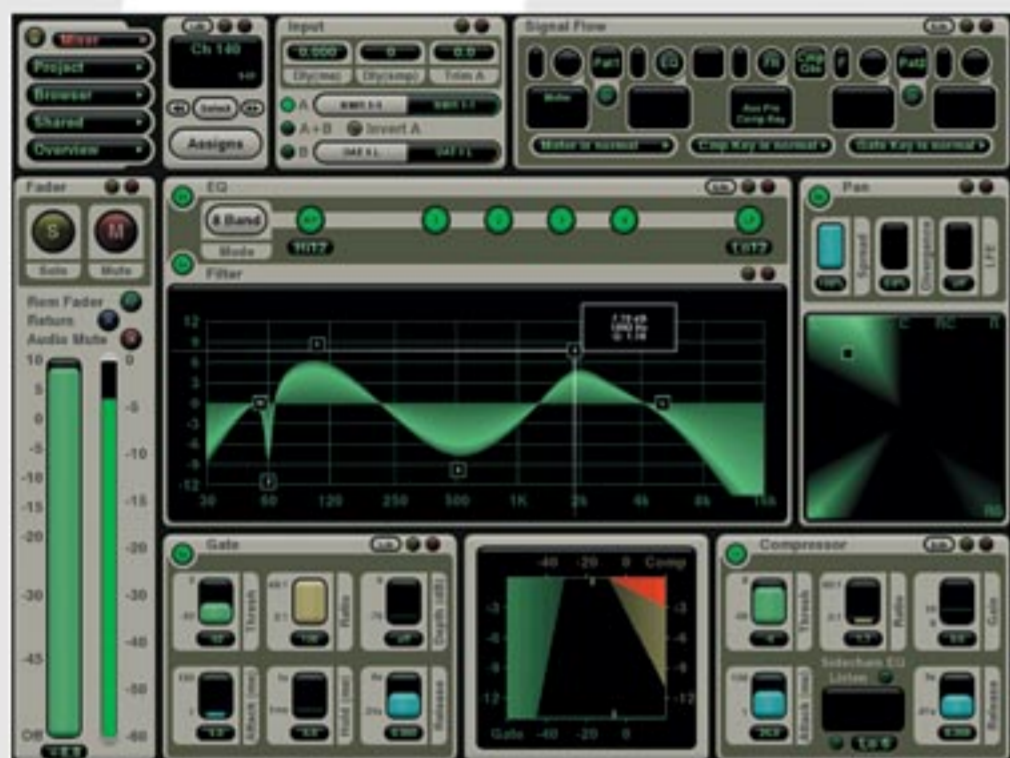
In addition to monitoring the signal level of the channel, the waveform also serves to graphically guide the user in setting compression levels. If the channel compressor is engaged, gain reduction is shown (in red) on the edges of the waveform, allowing the user to see how much gain reduction was applied to the audio signal. Showing the amount of gain reduction plus the resultant signal level for the last twenty seconds is another exclusive feature from Harrison!



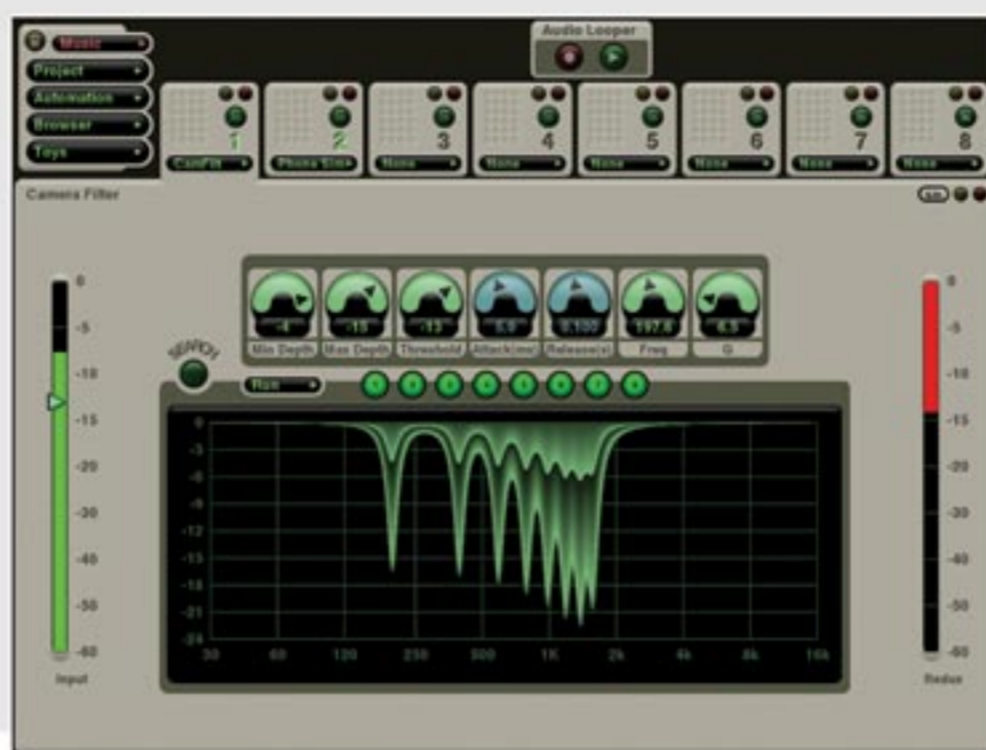


Trion and the IKIS™ Automation Platform

IKIS is a dedicated, dual processor, custom configured, PCI-based system. Graphically rich screens guide the operator's every command. With IKIS, the Trion takes advantage of the many developments gained in building world renowned post production consoles.



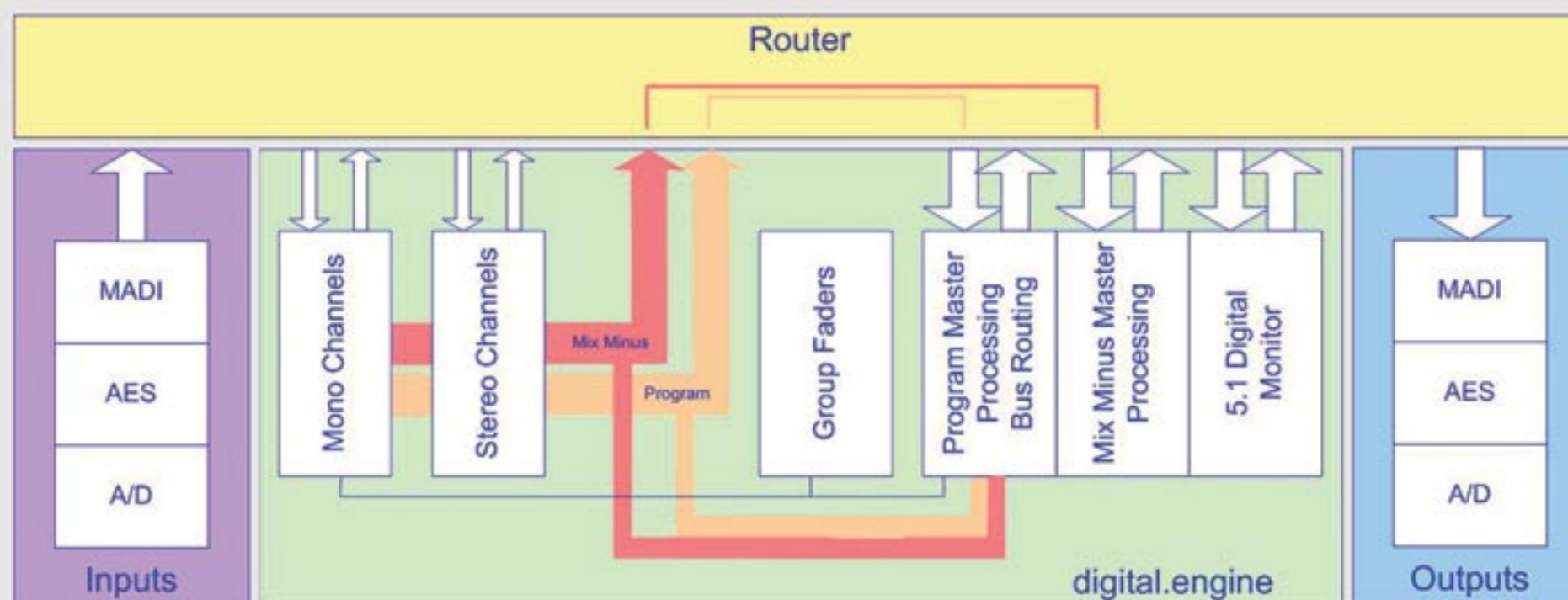
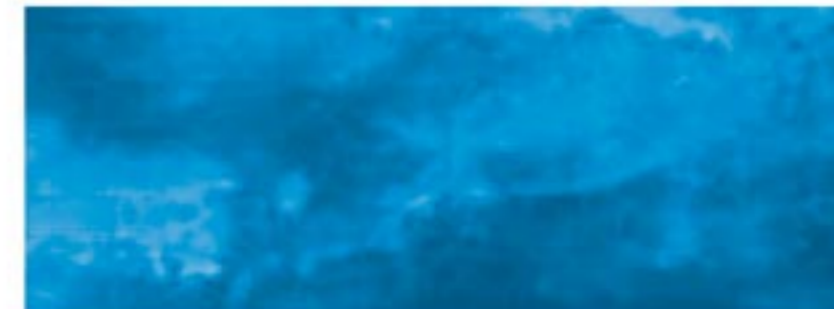
IKIS Channel Screen



Harmonic Notch DTC™ Screen

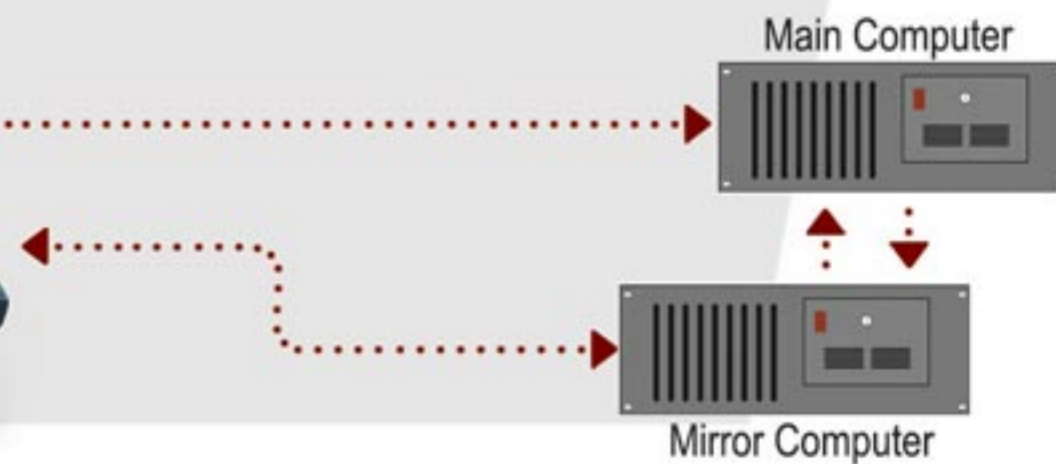
DTC™ Digital Tools Card

Adding Harrison's exclusive DTC™ (Digital Tools Card) provides unique and powerful features. Thirty-two specialized digital bus limiters per card with "look ahead" intelligence and a 20 second loop recorder are standard. The DTC also becomes the gateway for a whole suite of DTC plug-in software modules. These optional plug-ins are chainable and interchangeable in the signal path with fully resourced 40-bit, floating point, Wide Pipe™ processing available for all DTC Bus Limiters and plug-ins "at all times". **Plug-ins currently include:** Harmonic Notch Filter (Camera Noise Filter), Subharmonic Synthesizer, Crossover EQ, Leveled EQ, Multi-Band Compressor, Multi-Band Expander, Telephone Filter, Linear Phase EQ, DeEsser, DeNoise, Dialog Massager, Anti-Howl, and Insert.



MirroredComputing™ Technology and Signal Processing

Harrison offers IKIS Mirrored-Computing™ technology for those individuals seeking a redundant system. A second, identical (mirror) computer duplicates all functions. The mirror computer assures uninterrupted audio without reboot.



Trion™ On-Air Broadcast Console Specifications



Configuration Options: From 32 to an unlimited amount of channels with multiple digital engines™. Plug & Play expandable.

Number of Busses: Choose either 88 or 176 total busses (upgradeable on site)

Processor Precision: True 40-bit, floating point precision with 40-bit architectural interconnects assures greatest precision.

Channel Features: Dual inputs w/ trim, separate Hi and Lo pass filters adjustable from 12dB to 24dB per octave, floating insert point, PFL, AFL, 4-band and 8-band EQ with notch/bell/shelf curves per band, limiter, compressor, gate, expander, de-esser, delay, main fader, 16 or 32 Aux. sends, 24 or 48 or 96 bus assignments, configuration dependant.

Signal Flow: Processing order can be changed for each separate input or output channel.

Sample Rate: Up to 102kHz

Router Configuration: Sized for each system with a maximum up to 2240 inputs x 2240 outputs

Input/Output Method: MADI (AES10)

Signal Connection: 75 Ohm copper coax with BNC Connectors or optional Fiber to/from MADI Ports. Optional redundant MADI available.

Router Partitioning: Router partitioning is available to segregate facility tasks when external control is desired

Hardware: A single router rack frame has 10 input slots and 10 output slots for MADI port cards or digital engine link cards. MADI port cards have 4 ports per card. 56 signals per MADI port. Also supports master serial digital meter feeds.

Control Platform: Dual processor, PCI-based IKIS computer. Mirrored Computing™ redundant option.



broadcast Console

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