

Harrison 32cs™ Channel Strip



The 32cs Channel Strip features one channel of processing from Harrison's world-renowned 32-Series console! The 32cs includes a mic preamp, instrument input, high and low-pass filters, 4-band semi-parametric EQ, and a zero-latency analog monitoring section - providing classic Harrison sound for recording and mixing in a convenient 1U rackspace!

The first Harrison console shipped in 1975. Since that time, countless ground-breaking artists have been recorded and mixed on Harrison-designed consoles - AC/DC, Janet Jackson, Queen, ABBA - the list goes on! The greatest selling album of all time - Michael Jackson's "Thriller" - was recorded and mixed on a Harrison 32-Series console using the very same EQ and filters featured on the 32cs Channel Strip!

Overview:

The input section of the 32cs features a Lundahl input transformer and Harrison's classic mic preamp design with 70dB of gain. Switchable selections include front-panel input jack, hi-z instrument loading, phase-invert, -20dB pad, and true 48v phantom power. There's also a 7-segment LED meter to monitor the incoming level.

The insert switches enable the rear insert jacks for pre or post-filter external processing. Insert sends are always active, while the switch enables the return path either pre-filter or pre-EQ. Because of this, any combination of preamp, filters, and EQ can be used - together or separate - for all of your recording and mixing needs.

The filter section provides separate on/off switches for the high and low-pass filters. The filters use the wide overlapping ranges that were pioneered by Harrison in the 32-Series consoles. The high-pass filter features a switch for Harrison's popular "Bump" feature - which provides a resonant boost above the selected frequency (see Diagram 1). This helps keep instruments from sounding too thin when low-end energy is rolled off.

The EQ section provides the same sound and functionality as the EQ used in Harrison's iconic 32-Series recording consoles. 4 bands with widely overlapping frequency ranges are provided. The "Low" and "High" controls default to shelving, but can be individually switched to a bell curve. In "Bell" mode, all 4 bands provide a proportional-Q design that imparts a wide bandwidth when making small adjustments, and a narrower bandwidth as gain is added. This allows the EQ to work as a tone control or surgical tool as needed.

The analog monitoring section provides true zero-latency monitoring of the 32cs output blended with a stereo 2mix. This allows DAW users to take the 32cs on the road and track directly into their computer without an external mixer. The "blend" knob controls the mix between the 32cs output and the 2mix input. A mute switch and level knob feed the high-power headphone amplifier and rear line-level speaker connections, so you can work with headphones or small powered speakers while on the road.



Physical Specifications:

- Height 1RU
- Depth 10.25 inches (26.04 mm)
- 4 balanced inputs on 3-pin XLR
- 4 balanced outputs on 3-pin XLR
- Variable pots for mic/line, HP, LP, EQ, Monitor Mix, Headphone

Electrical Specifications:

- Operates from 90 VAC to 264 VAC at 50/60 Hz
- 70W Max

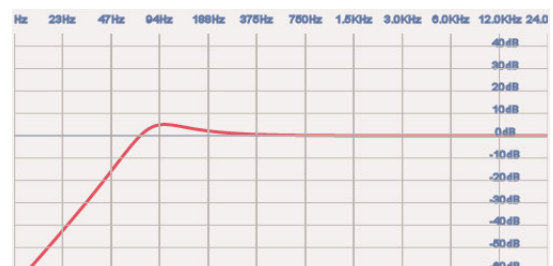


Diagram 1: The "Bump" Feature



Audio Specifications:

The following specifications apply to Harrison 32cs™ Channel Strips and are subject to change without notice. Harrison 32cs™ Channel Strips will be tested to meet only those specifications in effect at the time of final testing. These specifications represent an overall system and not the individual components of a system. They represent the cumulative effect of all components. Additionally, these specifications are stated over a wide range of operating conditions representative of actual use conditions rather than a restrictive set of conditions likely to be seen only when conducting systems tests. Therefore, these specifications represent the worse case in-use conditions rather than test conditions developed for competitive advantage. All level specification tolerances are +/- 1 dB.

• <i>Input Impedance without Pad</i>	920 ohms
• <i>Input Impedance with Pad</i>	1300 ohms
• <i>Minimum Gain without Pad</i>	26 dB
• <i>Minimum Gain with Pad</i>	6 dB
• <i>Maximum Gain without Pad</i>	70 dB
• <i>Maximum Gain with Pad</i>	50 dB
• <i>Maximum Input Level without Pad</i>	-2 dBu
• <i>Maximum Input Level with Pad</i>	+18 dBu
• <i>Maximum Output Level</i>	+24 dBu
• <i>1kHz THD @ 50dB gain</i>	< 0.010
• <i>IMD @ 50dB gain</i>	< 0.05
• <i>EIN 150 ohm source impedance</i>	> 127 dB
• <i>Freq. Response 20Hz-20kHz</i>	+/- 0.25 dB
• <i>Instrument Input Minimum Gain</i>	13 dB
• <i>Instrument Input Maximum Gain</i>	57 dB
• <i>Instrument Input Impedance</i>	1 Mohm
• <i>HP and LP Filters</i>	12 dB / Octave
• <i>EQ Bands - Peak-Mode Gain</i>	+/- 12 dB

Harrison Limited Warranty

HARRISON warrants this product, under normal use, to be free of defects in materials and workmanship for a period of One (1) Year from date of purchase, so long as: the product is owned by the original purchaser, with proof of purchase from an authorized HARRISON dealer and, the product has been registered to the original purchaser, the purchaser having completed the product warranty electronic registration at www.harrisonconsoles.com. An extended warranty is also made available during the electronic registration process.

In the event that HARRISON receives, from an original purchaser and within the warranty coverage period, written notice of defects in materials or workmanship, HARRISON will either replace the product, repair the product, or refund the purchase price at its option. In the event repair is required, shipment to and from HARRISON and possible nominal handling charges shall be born by the purchaser. In the event that repair is required, a Return Authorization number must be obtained from HARRISON. After this number is obtained, the unit should be shipped back to HARRISON in a protective package with a description of the problem and the Return Authorization clearly written on the package.

In the event that HARRISON determines that the product requires repair because of user misuse or regular wear, it will assess a fair repair or replacement fee. The customer will have the option to pay this fee and have the unit repaired and returned, or not pay this fee and have the unit returned un-repaired.

The remedy for breach of this limited warranty shall not include any other damages. HARRISON will not be liable for consequential, special, indirect, or similar damages or claims including loss of profit or any other commercial damage, even if its agents have been advised of the possibility of such damages, and in no event will HARRISON's liability for any damages to the purchaser or any other person exceed the price paid for the product, regardless of any form of the claim. HARRISON specifically disclaims all other warranties, expressed or implied. Specifically, HARRISON makes no warranty that the product is fit for any particular purpose.

This warranty shall be construed, interpreted, and governed by the laws of the state of Tennessee. If any provision of this warranty is found void, invalid or unenforceable, it will not affect the validity of the balance of the warranty, which shall remain valid and enforceable according to its terms. In the event any remedy hereunder is determined to have failed of its essential purpose, all limitations of liability and exclusion of damages set forth herein shall remain in full force and effect.