

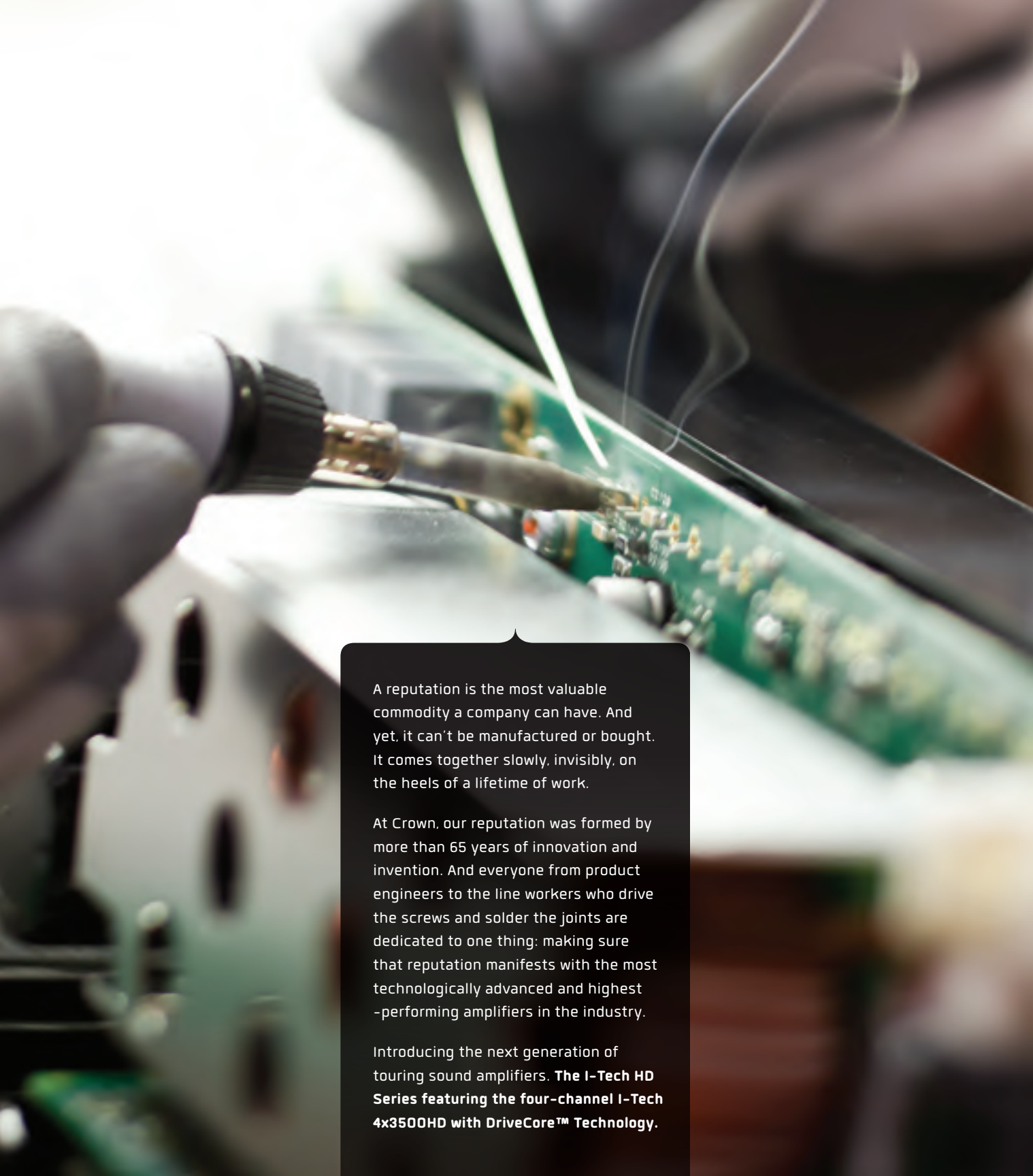


GreenEdge



MORE FLEXIBILITY. NO COMPROMISE.
NO COMPARISON.





A reputation is the most valuable commodity a company can have. And yet, it can't be manufactured or bought. It comes together slowly, invisibly, on the heels of a lifetime of work.

At Crown, our reputation was formed by more than 65 years of innovation and invention. And everyone from product engineers to the line workers who drive the screws and solder the joints are dedicated to one thing: making sure that reputation manifests with the most technologically advanced and highest-performing amplifiers in the industry.

Introducing the next generation of touring sound amplifiers. **The I-Tech HD Series featuring the four-channel I-Tech 4x3500HD with DriveCore™ Technology.**



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Standing only 2U high, the slight stature of the I-Tech HD belies the leading-edge technology within. A perfect example is the **BSS OMNIDRIVEHD™ DSP engine**. This integrated DSP is not only a breakthrough in the amplifier industry, but outperforms many of the best stand-alone DSP loudspeaker processors in the world. With the latest programmable studio-grade 32-bit Sharc® processors with enhanced SIMD architecture and a proprietary D/A output filter for improved signal-to-noise at least 6 dB quieter than outboard DSP, it's easy to see how the decade-long partnership between Crown and BSS continues to go beyond "what's possible" and into "what's next."

INSIDE BSS OMNIDRIVEHD DSP

FIR (Finite Impulse Response) Linear Phase Filters

- Advanced stop-band attenuation characteristics rivaling the best live sound and studio DSP processors on the market today
- Industry-leading, true "Brick wall" filters with more than 3500 coefficient taps for high filtering precision
- Provides linear phase response while maintaining low-noise operation over the entire frequency range for uncolored audio reproduction

IIR (Infinite Impulse Response)

- 18 IIR filter selections including Bessel, Butterworth, Linkwitz-Riley, and All-Pass

LevelMAX™ Limiters

- Co-developed with JBL and BSS, the LevelMAX™ suite of limiters combines the latest innovations in limiter design into one high performance, integrated package. The Peak, RMS, and Transducer Thermal limiters are fully coordinated so each will adjust automatically based on how the others are performing.



Available on the
App Store



POWERED BY CROWN Crown's Powered by Crown iOS app allows wireless control and monitoring of your I-Tech HD or any Ethernet-enabled devices from Crown. Using the same protocols as HiQnet Audio Architect™, you can import custom control panels, set limits, or make adjustments anywhere in the venue using only your iPhone or iPad.

PERFECT PRESETS Accepting a standard USB drive, this front-panel connection allows you the flexibility to transfer preset and device files, and update firmware from the driver to the amplifier DSP, or vice versa. This simple innovation helps you reconfigure racks in record time.



4 IN / 4 OUT While others talked about offering true four-in and four-out capability, we set about doing it. The I-Tech HD four channel is the first four sound amplifier offering four inputs routable to any output (analog, AES3, VDrive, or CobraNet™).

DRIVECORE™



At the heart of the I-Tech 4x3500HD lies another Crown breakthrough – **DriveCore™ technology**. A culmination of nearly two decades of R&D in PWM and switch-mode amplification, DriveCore is a Crown exclusive that combines hundreds of parts into one chip the size of your fingertip, resulting in more efficiencies and unsurpassed reliability.

Bridging Crown's audio design and Texas Instruments' silicon design, this simple integrated circuit nests much of the output stage – including the modulator stage, error amplifier stage, and patented feedback and PWM modulation circuits for fast recovery on peak transients, accurate reproduction of low-level detail, and precise tracking of low frequencies at high power levels for maximum subwoofer output.

In addition, DriveCore provides an extremely wide tolerance for sagging or "dirty" AC line conditions, which means your performance will never be compromised by fluctuating generator power or overloading.

Greater accuracy, reduced weight and size, and high efficiency with best-in-class signal-to-noise performance – that's Crown innovation. That's DriveCore technology.

CLASS-I OUTPUT STAGE MODULES



IT 5000HD
IT 9000HD
IT 2000HD 2 channel output stage



IT 4 x 3500HD
2 channel output stage (2 per)



NETWORKING MADE EASY Since the introduction of the first IQ system in 1992, Crown has deployed more networked audio systems than all other amplifier manufacturers' combined. This pedigree continues today with the I-Tech HD series. Adhering to exact TCP/IP Ethernet standards and equipped with HiQnet technology, the I-Tech HD can live on a standard network without the hassle of proprietary switches or hardware. And by following standard protocol, large systems of 400+ amplifiers can be quickly deployed on a single network backbone without any special considerations.



Going “Green” is no longer an option – it’s a necessity. Reducing energy consumption is fundamental to the reduction of greenhouse-gas emissions and is likely to impact our lives dramatically. Maintaining the quality of our lifestyle, while improving the environment, is a challenge addressed by HARMAN’s GreenEdge™ advanced technology initiative.

The new range of GreenEdge audio systems, of which the I-Tech HD series is a part, enhance performance and acoustic qualities, while caring for the world we share by taking advantage of the following energy-saving benefits:

WEIGHT SAVINGS

When compared to traditional, non-switching amplifiers, the I-Tech HD series weighs an average of 50 lbs. (22.68 kg) less. Less weight not only reduces shipping costs, but means the shipper can reduce the amount of vehicles needed to transport the goods or keep that vehicle under its weight limits, resulting in greater fuel economy.

HIGH-EFFICIENCY DESIGNS

The patented Universal Power Supply with Power Factor Correction combined with the patented Class-I PWM output stage of the I-Tech HD series amplifiers, provides greater than 90% efficiency at full power from 100-240VAC.

POWER SAVINGS

The I-Tech HD series has both manual and automatic standby modes that put the amplifier into a low AC current draw state when not in use. When in this mode, the I-Tech HD series draws an average of only 100W of power.



The I-Tech HD Series represents decades of work. Work spent developing and refining amplifier technology that pushes the limits of sound reinforcement. It started in 1967 with the development of the world's first reliable, solid-state, high-powered amplifier and it continues today with the only tour sound amplifier that boasts eight patents – three on the power supply alone.

Together, the I-Tech HD series two-channel and four-channel amplifiers embody the spirit of Crown – where engineering meets ingenuity, and our

passion to deliver clear, powerful sound is only surpassed by our customers' demand for it. This is no more evident than in the development of our **multi-patented Class-I technology**.

Shared by both the two- and four-channel amplifiers, the sixth generation Class-I offers a switching power amp design with greater fidelity at high and low power levels, more efficiency with less waste heat, and unparalleled reliability because it is never subjected to excessive heat or pushed to its limits.

With expanded voltage and current capability, Class-I drives speaker loads no other amplifier can. And since the positive and negative switching devices are interleaving, there is never any crossover distortion at the zero crossing for voltage and current – giving I-Tech HD 0.1% THD specifications at full-rated power (20Hz to 20kHz).



GLOBAL POWER Crown's "smart" universal power supply with Power Factor Correction technology is so efficient it can adjust to any frequency or mains voltage between 100-240VAC in a controlled manner – and in real time – so you can use it anywhere in the world and it will always deliver full power.



INDUSTRY-LEADING WARRANTY

Crown offers a five-year, no-fault, fully transferable warranty on every new I-Tech HD amplifier we make – an unsurpassed industry standard. With this industry-leading no-fault protection, your I-Tech HD is warranted to meet or exceed original specifications for the first five years of ownership. If it doesn't, it will be repaired or replaced at our expense. That's what being a leader is all about. For warranty information outside of the U.S., contact the Crown authorized distributor in your country. To see full warranty details, visit www.crownaudio.com.

SPECIFICATIONS

CHANNELS

4 inputs routable to any of the 4 outputs
(Analog, AES3, VDrive, or CobraNet™)

SENSITIVITY

Adjustable in 0.1dB increments from 1.28Vrms to 8Vrms

RATED POWER OUTPUT

(minimum guaranteed power in watts
with 0.35% THD, all channels driven)

	20Hz - 20kHz	1 kHz 20ms Burst
2Ω	2100W	3500W 20ms Burst
2.7Ω	2200W	3800W 20ms Burst
4Ω	2400W	4000W 20ms Burst
8Ω	1900W	2100W 20ms Burst
70Vrms Direct	2100W	
100Vrms Direct	2300W	

SIGNAL-TO-NOISE RATIO

(below rated power 20Hz to 20kHz A-weighted)

> -108dB

TOTAL HARMONIC DISTORTION (THD)

(full rated power, 20Hz to 20kHz)

0.35%

INTERMODULATION DISTORTION

(from 0dB down to -40dB)

0.06%

FREQUENCY RESPONSE

(20Hz to 20kHz at 1W into 4/8Ω)

+/- 0.25dB

CROSSTALK

(below rated power 20Hz to 1kHz)

> 80dB

COMMON MODE REJECTION

(20Hz to 1kHz)

> 80dB Typical

DIMENSION

(H x W x D)

3.3" x 19" x 16.95"
8.9 cm x 48.3 cm x 43.1 cm

NET WEIGHT

29 lbs (13.2 kgs)

NET SHIPPING WEIGHT

36 lbs (16.3 kgs)

DRIVECORE™

OMNIDRIVE HD™
PROCESSING

HiQnet
performance
manager™

LevelMAX™