

Digital Harmony's

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Entertainment Technology Newsletter

Digital Harmony prepares for CES 2001. Digital Harmony hires 50th employee. Doug Shorb joins Digital Harmony. Polk Audio signs Digital Harmony license agreement. TC-1 1394 test chip wakes up to applause. WireFree digital wireless speaker system ready for CES. Bartlett speaks at Nikkei Automotive LAN Conference. Japan Audio Expo 2000 takes place in Tokyo. Digital Harmony featured in Mix magazine. EE Times article discusses IEEE-1394 interoperability. Denon releases state-of-the-art home entertainment receiver. Linn and Virgin create the ultimate airport lounge.



News!

From the Front Office

Digital Harmony prepares for CES 2001

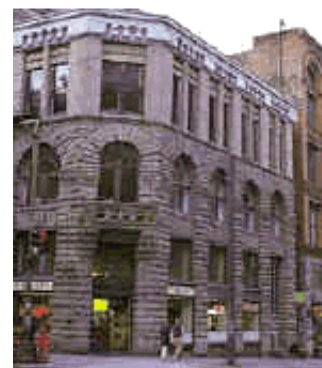
The 2001 Consumer Electronics Show (CES)



will be held January 6-9 in Las Vegas. This year, Digital Harmony will exhibit in multiple locations. Developer tools and products will be shown at the 1394 Pavilion (LVCC South 1&2 3747), sponsored by the 1394 Trade Association. In addition, every Digital Harmony technology—including the new WireFree™ wireless speaker system—will be demonstrated in a private suite at the Hilton Hotel. A private party for customers is scheduled in the suite for Sunday, January 7. [more](#)

Digital Harmony hires 50th employee

David Campbell, an electronics technician, became Digital Harmony's 50th employee in November. This historic milestone comes at the end of a year marked by tremendous growth for the company. Starting from 3 employees and 950 square feet of office space in 1996, Digital Harmony currently has 51 employees occupying 4800 square feet surrounding the original office space in Pioneer Square. [more](#)



News!

From the Sales Staff

Doug Shorb joins Digital Harmony



Doug Shorb recently joined Digital Harmony as director of sales for silicon IP products. Prior to joining Digital Harmony, Mr. Shorb was vice president of sales for Seattle Silicon, a mixed-signal ASIC company recently purchased by Zilog. His experience also includes a stint as director of OEM sales for Appian Graphics, and more than 10 years of electronic design and field application engineering work. Mr. Shorb will commercialize and market Digital Harmony's portfolio of semiconductor design modules and inventions. [more](#)

Polk Audio signs Digital Harmony license agreement

Polk Audio, a leading home audio manufacturer, recently signed a Digital Harmony license agreement. According to Intellect Market Research Report, Polk loudspeaker sales in North America last year were \$57 million, making them the sixth best-selling loudspeaker brand. Matthew Polk's company will have access to Digital Harmony's growing portfolio of speaker technologies, including DHIVA™ 1394 transceivers, WireFree receivers and transmitters, and BiDAT™ data-hiding transceivers. [more](#)



From the R & D Lab

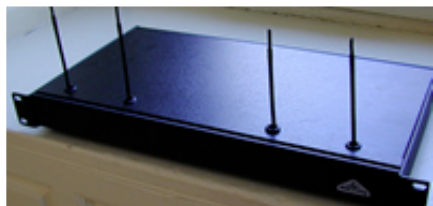
TC-1™ 1394 test chip wakes up to applause

Digital Harmony's first semiconductor design has been instantiated in silicon. TC-1 passed initial testing on Digital Harmony's Mango™ Development Platform, and porting of the DHIVA 1394 Protocol Suite™ is underway. TC-1 includes an ARM7 processor, a link layer controller, and Digital Harmony's packet data bus. It mates with a Digital Harmony AVS™ FPGA (a complete 1394 audio/video system) on the Mango board. Cirrus Logic, the company's first semiconductor licensee, will use Mango to finalize designs used in their Crystal CS8510, the single-chip Digital Harmony-compliant 1394 A/V node controller due in 2001. [more](#)



WireFree digital wireless speaker system ready for CES

Digital Harmony's new digital wireless audio technology is nearly ready for prime time. Last year at CES, Digital Harmony showed a prototype analog wireless system. At CEDIA in September, a digital proof-of-concept system was demonstrated. Next month at CES, Digital Harmony will demonstrate the first prototype WireFree digital speaker system, by invitation only. Digital Harmony's wireless development partner, Music



Sciences, built the WireFree prototype system. Production WireFree transceiver modules are expected in 2001. [more](#)

From the Industry

Bartlett speaks at Nikkei Automotive LAN Conference

On December 4 in Tokyo, Nikkei Electronics hosted a seminar on automotive networks attended by more than 280 engineers. Digital Harmony's president, Greg Bartlett, gave one of the invited presentations on IEEE-1394 automotive systems. Other presenters included Max Bassler (vice-chairman of the 1394 Trade Association) and Brad Little (chairman of the 1394 Trade Association's automotive working group). A lively Q&A session concluded the daylong seminar. [more](#)



Japan Audio Expo 2000 takes place in Tokyo

More than 200,000 people attended the Japan Audio Expo 2000 at Tokyo Big Sight in Odaiba. Highlights of the show included the DVD-Audio pavilion, the Super Audio CD (SACD) pavilion, Keitaide Music System's new MP3 mobile phones made by Sanyo, DVD-RAM camcorders, and Pioneer's new DVD-RAM home video recorder with IEEE-1394 ports. Innovative automotive audio systems were also featured, including a system co-created by Digital Harmony licensees Denon and Infinity. [more](#)

From the Media

Digital Harmony featured in Mix magazine

In his *The Bitstream* column for November's Mix Magazine, Oliver Masciarotte writes about the "move toward interoperability" of IEEE-1394 devices in the professional audio industry. Initiatives and technologies such as HAVi, FireWire, mLAN, and DHIVA are introduced. Digital Harmony's CTO, Bob Moses, is asked to share his thoughts on interoperability ("*follow the DHIVA 1394 Protocol Suite*") and the challenges of reducing clock jitter on an asynchronous bus ("*use Digital Harmony inventions*"). [more](#)



EE Times article discusses IEEE-1394 interoperability

Junko Yoshida, writing in a front-page article for EE Times, reports on concerns about the interoperability of IEEE-1394 devices. The fast-growing popularity of the bus in industries as diverse as computers, home entertainment systems, and automobiles, creates unique but surmountable challenges for product manufacturers. During an interview with Digital Harmony's Greg Bartlett, Ms. Yoshida introduces Digital Harmony's innovative business model as one standards-based solution for manufacturers and consumers. Digital Harmony supports and participates in the open standards process led by the 1394 Trade Association. [more](#)

From Our Licensees

Denon releases state-of-the-art home entertainment receiver

Digital Harmony licensee Denon has created the world's first AVR to include THX Surround EX decoding, DTS Extended Surround Discrete 6.1, DTS ES Matrix 6.1, DTS Neo:6 Cinema/Music Matrix Decoding, Dolby Digital/Pro Logic, and Lucasfilm Home THX Cinema 4.0/5.1 post-processing. The SHARC DSP section has been prepared for the addition of a DHIVA 1394 transceiver in early 2001. The owner's manual for the AVR-5800 can be downloaded. Denon will show the AVR at CES (Hilton 8045). [more](#)



Linn and Virgin create the ultimate airport lounge

Digital Harmony licensee Linn Products has installed its Intersekt system in the new Virgin Upper Class Lounge at Gatwick Airport. The system includes a full cinema system and provides high quality music in all public areas within the



lounge. The cinema has its own touch screen controller—made by Digital Harmony licensee Panja—that allows passengers the opportunity to view a film while awaiting their flight. All flight and other announcements are made using the Linn system. [more](#)



Did you know that 50% of American children between the ages of 8 and 12 have a TV in their bedrooms?

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