



Ack!
INDUSTRIES
Pure and Simple.

dAck! 2.0
Special Release

It has been almost two years since the original dAck! digital filterless D-to-A converter was released. We have been very happy with the response it has garnered and are pleased to have your support. We have been listening to you, our customers, and have been working to develop a new dAck! product to redefine the original design.

We at Ack! Industries are now proud to announce the release of *dAck! 2.0*.



We set out in 2002 to build a converter to give you the very best aspects of vinyl playback from your digital recordings: this is something that was very expensive and difficult to obtain before the dAck!. The heart of this technology is a unique battery-powered non-oversampling core with active solid state output (patent pending). The design removes the harshness associated with digital artifacts and puts you, the listener, closer to the music. Instead of being voiced to wow in the showroom, the Ack! Industries dAck! set out to seduce you in a real listening environment. Most of you are by now familiar with the outstanding midrange performance of the original dAck!, its ease of presentation, its excellent musical flow, and black, black background. It is classic.

The *dAck! 2.0* is a complete redesign of the original Ack! Industries dAck! concept. With the next generation *dAck! 2.0*, we have addressed limitations of the original design to provide an equally cohesive performance but with enhanced characteristics on all fronts. The *dAck! 2.0* is consistent with its predecessor in its performance in the midrange, but below you will find some major refinements in its musical presentation that put it at the next level of music reproduction:

- Extraordinary pace and timing
- Expansion of soundstage with enhanced image specificity
- Exceptional transparency with ease of interpretation of instruments and voice
- Extension of liquid highs
- Taut bass with excellent detail
- Remarkable speed of attack and decay

The *dAck! 2.0* is based on surface mount technology, meaning there is essentially zero supply lead inductance. The digital input has been refined with a professional interface, comprising a transformer-coupled input with full isolation. The output stage – a cleverly designed transconductance amplifier that performs several functions using only a single active device for each channel – has been converted to an effective dual mono configuration: images are now huge and pinpoint. The battery supply continues to supply clean and pure DC power, completely isolated from AC sources and their noise.

We have traditionally offered exceedingly high value and continue to strive to give our customers a high level of performance and ergonomics at an affordable price. The *dAck! 2.0* includes a high-bandwidth BNC connector input, previously offered only as an upgrade, to provide >2GHz bandwidth for the digital input. A gold-plated BNC-to-RCA adapter is also included for use with RCA-terminated cables, however the Ack!Industries digital Interconnect (a true high-bandwidth 75Ω BNC-terminated transmission line) will now also come standard with the *dAck! 2.0*. This means that a consistent level of performance will be obtained right out of the box.[†] The *dAck! 2.0* output jacks are upgraded to high quality Teflon RCA parts from Vampire Wire. We recommend use with our analog Interconnects in most systems for best performance (please see our website for details).



Ack! Industries BNC connector
Is the standard input on the *dAck! 2.0*



Ack! Industries digital connect
is bundled with the *dAck! 2.0*

**Watch for the launch of the new Ack! Industries website at the end of January.
<http://www.ack-industries.com>**

The first *dAck! 2.0* will ship on the 30th of January, 2005. Place your orders soon to take advantage of promotional pricing that will end on the 15th of February, 2005.

[†]As always, a high quality transport is critical to the performance of any DAC. The *dAck! 2.0* is a high end converter brought to you at factory direct pricing, however, it should be mated to equipment typically used with a DAC costing twice as much. Best performance will be obtained with a high-quality dedicated digital transport. We have found exceptional synergy with the C.E.C. line of belt drive transports; other excellent performers are by Wadia, Meridian, and the higher end models in the Sony ES series. Please inquire for compatibility.



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Pricing Information
Ack! Industries now
accepts credit cards!

dAck! 2.0 – \$795

Special introductory pricing: \$695 (until 15th February 2005[‡])

Shipping within continental U.S. included.
Ack! Industries now accepts credit cards!

The purchase of your *dAck! 2.0* includes: Automatic Charger, digital Connect, BNC-to-RCA adapter

Optional Additional Upgrades:

- Black faceplates: \$50
- Ultra-resolution option: \$50
 - Super-fast, low-dissipation Teflon output coupling capacitors are added to enhance texture and speed in the high frequencies (most systems will not need this, inquire for compatibility).
- High output option: \$25
 - The output level is brought to 2VRMS for those with only digital sources or passive preamplifiers in their systems.

[‡]Customers who purchased a *dAck!* in the last quarter (Sept 2004 – Jan 2005) may upgrade their *dAck! 1.0* to *2.0* status for \$350. This upgrade includes all features standard to the *dAck! 2.0*, including digital cable and adapter. The unit must be sent back to us for retrofit. Offer ends 15 February, 2005.



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Product Specifications

Specifications:

- Operating principle: Battery-powered digital filterless D-to-A converter utilizing active solid state amplification (patent pending)
- Input: High-bandwidth BNC input for receiving S/PDIF compliant signal
 - 16-bit stereo only up to 96KHz
 - Gold-plated BNC male to RCA female adapter included
- Outputs: Gold-plated stereo single-ended outputs
 - Output Z: $<0.05\Omega$ @ 1KHz into 10K load ($<30\Omega$ broad band)
 - Downstream component should have $>10\text{Kohm}$ input Z
 - 2V peak-to-peak for 1KHz 0dB signal (5Vp-p: high output option)
- Quiescent current: 4mA per channel (matched)

- Power supply: Ultra-low noise rechargeable battery system
- Power consumption: $<0.07\text{C}$
- Charger supply: 300mA automatic charger

- Play time per charge: 6-8 hours maximum (recommended)
- Charge time: ~1hr typical after 4 hours use, $<5\text{hr}$ from deep discharge
- Battery life: 1.5-4yr depending on usage

- Dimensions: 15.5cm x 19cm x 6.5cm (6.15" x 7.5" x 2.5")
- Weight: 2.25kg (5lbs)