



THE Oracle

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Macquarie Regional Radio Works buy the first new Delay Master 5 units

In the middle of November we received a call from our friends at Macquarie Regional Radio Works, asking if we still manufactured the Delay Master time zone delay. As this was a discontinued product at that time, we decided to redesign and re-launch the Delay Master due to the fact that Macquarie Regional Radio were asking for 12 machines and we knew there was further demand by other clients. A couple of weeks have passed since then and we are happy to report that Innes delivered the 12 units to Macquarie Regional Radio Works at the end of January. A big 'Thank you' goes out to all the Innes staff members that were working on this project and assured that Macquarie Regional Radios Works deadline was successfully met although we were up against the Christmas break and the usual difficulties that come with proto-type designs.



The very first Delay Master 5's fresh of the production line

The new Delay Master 5 is built on a Windows XP Professional platform and is a time-zone-correction audio delay that offers two stereo channels with independent delay settings in half hour steps from zero to twenty-four hours. Delay Master 5 boasts 24-bit 48kHz audio recording and playback, four contact closure inputs and outputs per channel, a mirrored (RAID-1) hard disk array for maximum reliability, automatic delay adjustments for daylight saving and an in-built event scheduler. The delay is accurate to within one second in twenty-four hours. Due to the fact that the Delay Master becomes part of the On Air Chain, should one wish to run a second unit as back-up stand by, the two units can be set up as Master and Slave. An AES3 digital audio version is also available. For further details please visit our website or give our friendly sales team a call.

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NEW INNES FM-RADCAPS



After speaking to various customers, we have decided that the new FM Radcap will be released in 2 new versions. The new FM-Radcap 6 will allow the user to capture up to 6 stereo FM stations on the one single card (AU\$2250). The FM-Radcap 24 (AU\$3750) will allow the user...you guessed it...to capture up to 24 stereo FM stations per card. We will launch the new cards in Las Vegas at NAB2006, however are currently taking orders for the first production run. The new cards will of course be as stable and reliable as all Innes cards.

Audio Under Windows Vista

Windows Vista, the next version of Windows, is slated for release later this year and includes a complete rewrite of the audio subsystem. Gone are kernel streaming, the kernel mixer and kernel splitter, and in their place is a new user-mode based audio framework.

At the heart of the new system is the concept of audio endpoints. These are things like speakers, line input and output connectors and microphones. Instead of selecting audio devices, users and application code will instead directly access endpoints.

At the time of writing we have only a preliminary release of Beta 2 to judge it by. The detailed device driver documentation describing the new audio system has yet to be released, it is therefore difficult to determine just how our multichannel sound cards will fit into this scheme. It would appear that the audio input mixing, in which multiple audio sources can be mixed into a single wave input device, is not supported. The mixer API virtualises a fader and mute for each input and output endpoint, with no access to hardware features like peak meters, input monitoring or output loopback. Frank Yerrace from Microsoft Corporation has said they will look at the needs of broadcast-style audio applications in the coming weeks to see if they can be made to fit into the Vista audio model. Keep watching this space for further developments or log onto our website and check the 'News' page.

Buy Online!

At Innes, we like to think we move with the times. We want to make our products as available and accessible as possible to not only Australia but worldwide. We are therefore proud to announce that the Innes product range and certain other brands can be purchased directly from us online. Don't worry, if you still like the personal touch, we are still at the end of the phone for all your enquires and broadcast needs. Should you want to arrange a meeting please do not hesitate to contact us anytime.

www.innescorp.com.au

Daylight Saving and the Commonwealth Games

Because of the Commonwealth Games, daylight saving in NSW, Victoria, Tasmania, South Australia and the ACT will end a week later than normal. Microsoft has released a Windows patch to accommodate this, and this is now available through Windows Update. This patch is applied automatically if 'Automatic Updates' is turned on, or it can be applied manually by running Windows Update from the 'Start' menu.



Please note that Flashlog uses UTC for its internal time references, so attempting to cover this change to daylight saving by just moving the clock forward one hour during the affected week will result in lost data. We regret any inconvenience caused to our clients and hope you enjoyed sleeping an hour longer.



Yes, we can't believe it either, the flights, accommodation and exhibition space is booked and paid for and it is nearly NAB time again. Should you be able to get away from your national responsibilities and put some young kid in charge of your work for a couple of days, please come and see us at stand N2523 in the north hall of NAB. We are launching our brand new FM Radcap, we will show the new Delay Master 5 and the improved Flashlog 5.

At our stand you can meet John Innes the founder and Managing Director of Innes Corporation, our new Business Development Manager Deborah Ford and our General Manager Patrick Salloch. We are looking forward to seeing all of our Australian clients who we haven't seen since SMPTE last year and of course all of our international clients. Please note that will also be displaying our full product range at Broadcast Asia 2006 at booth 7C3-06, for all of you that can't make it to Las Vegas. We hope to see all of you at either or both events. Should you wish to arrange a meeting with the Innes team please contact management@innescorp.com.au





Audio Time Manager available through Innes

Innes are extremely proud to announce that we are now the exclusive distributor for the ATM in Australia. We will be displaying the unit at NAB and will be receiving a demo unit in Australia quicker than you can say time manager! Read on to learn about this new exciting product.

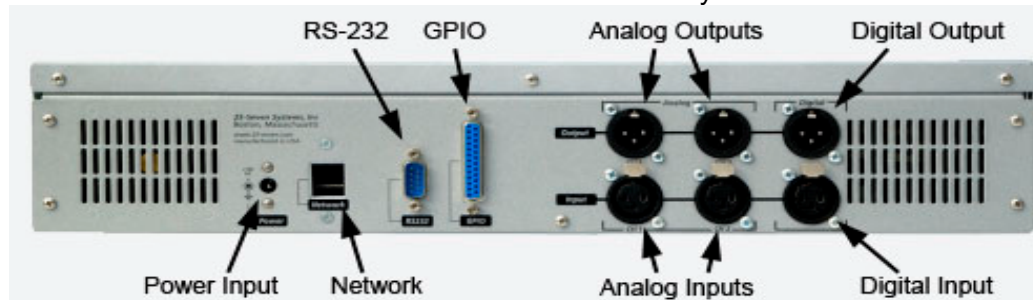
We are often approached by our clients to come up with customised solutions for their technical problems. Before we take on these projects we always check if there already exists an 'off the shelf' solution before we even involve our R&D department. This is exactly how we came across 25-Seven Systems, a company in the US who literally sells time. "Not possible", you say, well we beg to differ:



If Radio paints pictures in sound, time is Radio's canvas. Audio Time Manager (ATM) gives stations an unprecedented new level of control over time, allowing stations as never before to bend a medium we never thought was flexible. ATM lets you delay the start of an incoming feed or recorded program but still have it end on time. It lets you "punch" breaks into a live event at the touch of a button, and catch up to real time seamlessly. It can eliminate the need to back-time intros to network joins, so you can ad-lib and still join smoothly... even for events with random starts like news conferences. It can be automated, easily customised, and playback rates can be trimmed if conditions change while it's in operation. Best of all, if you can push 2 buttons, you can operate it!

Think of Audio Time Manager as a high-quality, rugged digital stereo recorder... with two important differences: it can record part of a show while playing back another part, and playback speed can be as much as 20% faster than the original program. In effect, this can create up to 12 minutes of "new" time per hour. It does this without pitch change, artefacts, or glitches, thanks to our proprietary processing algorithms; with most broadcast material, a 10% speed change—6 new minutes per hour—is virtually undetectable by most listeners.

Audio Time Manager may be just the tool you've been looking for to manage unexpected events in your broadcast day, avoid collisions with network feeds, and create availabilities where none exist. Take control over time, with Audio Time Manager. For further information on the 2005 'Cool Stuff' Award winner at NAB contact the Innes sales team and find out when you can schedule a demo.



AM & FM Crusher Relaunch



We are delighted to announce the relaunch of our AM Crusher and FM Mono Crusher. Keep in mind the Innes Crusher is designed as the ideal back-up unit for your top of the line limiters. What happens when you 'On-Air' processor breaks down? It is also the ideal processing unit for community stations that can not afford a top of the line unit but still want to improve their stations On-Air sound. As many of you know, the Crusher is a combined AGC and modulation limiter for use with mono FM broadcast transmitters and AM broadcast transmitters.

The Innes Crushers use the latest in signal processing technology to provide a high level of performance at a lower cost than comparable analog limiters.

The FM Crusher processes audio components below 250Hz separately in both the AGC and limiter stages to prevent heavy bass content from modulating the midband components. The additional high frequency components introduced by pre-emphasis are also separately limited to minimise distortion on transients.

The AM Crusher may be used directly with unprocessed audio straight out of the studio or alternatively it can be operated in conjunction with a separate AGC or other processing equipment.

Setting up the unit is done from a PC or laptop using a serial port connection. A Windows application is provided for this. The settings are stored in non-volatile memory within the Crusher unit itself.

Now you know a little about the Crushers, what are you waiting for? Give the Innes team a call today and book your 14-day-free-trial demo unit so you can hear what others are raving about.



GENERAL MANAGERS REPORT

"First of all let me thank you for picking up this copy of the Oracle. I hope it makes an informative read. Since becoming GM of Innes Corp in late October 2005, I have been speaking to many of you and have taken suggestions and constructive criticism on board on how we can improve our service to you and what mistakes we have made in the past. So, in the past few months I have actioned changes, which will improve our service to you. I have employed our new Production Manager Matthew Clark, whose responsibility it is to improve turnaround times on repairs and orders, and make sure that quality does not suffer. Matthew is also in charge of the production process and ensures we use the best quality components at the best prices. This subsequently ensures lower prices to you. With the appointment of Deborah Ford as Business Development Manager, I have added a customer service professional to the team who will ensure all your questions will be answered in a prompt and detailed manner. Nothing is too hard or too much for our new sales department – try them. But I have not stopped there. I have contracted the services of Peter Mudie of Mudie Electronics Pty Ltd to assist our overworked R&D department and John Innes with RF repairs, transmitter and antenna work.

We have already launched the Delay Master 5 in February and will launch our new FM Radcap capture cards at NAB2006 (Booth N2523 in North Hall 2). We will also relaunch the AM Crusher and FM Mono Crusher within the next couple of weeks, and Innes has another four new products that we will launch before the end of the year. One of them is an amplified broadband AM loop antenna, which will cost a fraction of the current products available on the market. We have been appointed by 25-Seven Systems as exclusive Australian agent for the ATM - a fantastic product that I believe will bring a new dimension to live broadcasts. We finally have credit card facilities available for clients and you are now able to purchase Innes Corporation products and other selected products on our website. I am currently in the process of stocking our warehouse with as much stock as possible so we have products and spares available when you need them. For example, I am awaiting a 1kW, 2.5 kW and 5kW dummy load from Blyth so they can be dispatched to you immediately when you need them. Call the sales department if you want to have a listen to CRL/Orban, 25-Seven or Innes products before you buy them, I wouldn't spend thousands of dollars on products I haven't heard and I don't expect you to either.

Innes Corporation is now not only focusing on our products but also outstanding customer service. These are only a few changes that I believe will improve our service to you. By no means will I stop here - this is only the beginning. Please feel free to contact me at any time should you like to talk to me, my door is always open. I am looking forward to your suggestions and comments. Kindest regards, Patrick Salloch." (General Manager – Innes Corporation Pty Ltd)

Delay Master 5 Updates

In our constant strive for product improvement our R&D department has already come up with a software improvement for the new Delay Master 5 units. You'll be pleased to hear that there are two new updates on our website all ready to be down loaded. Simply logon to www.innescorp.com.au click on the Delay Master link and the update is at the bottom of the page. There has also been a change to the manual regarding contact closure inputs. This can also be downloaded from the same page.

Should you have questions please do not hesitate to contact our tech support people or call our Production Manager Matthew Clark on 02-9987 0499.



IN AUSTRALIA INNES CORPORATION PROUDLY DISTRIBUTES:



The Case for the Rebuilt Transmitting Tube

There are two reasons for having transmitting tubes rebuilt, rather than replacing them with new ones - price and performance.

Rebuilding services are able to re-use most parts of a tube that are worn out but undamaged. They fit the tube with a completely new filament assembly, which gives it a service life greater than a newly manufactured tube. Apart from the cost saving, there is good reason for having a used tube rebuilt. The filament of a transmitting tube can be built in several ways. The simplest and most common way is to string filament wires parallel to each other, under spring tension. A better alternative, used wherever possible by the tube rebuilder, is to construct the filament in the form of a lattice or mesh, which provides a greater filament area, giving higher peak emission capability and longer life. It is also a more rigid structure, allowing closer dimensional tolerances to be held giving more stable operation. In VHF and UHF service, the mesh filament approximates a cylinder, giving lower inductance and a more uniform RF voltage over the entire surface. The improvement in performance can be substantial. (For a longer and unedited version of this article please log onto the "NEWS" section at

www.innescorp.com.au)



To find out how easily you can get your old transmitter tubes rebuilt, contact the Innes sales team. We proudly recommend and use Freeland Products Inc. in the United States for our rebuilding services. Freeland Products Inc. is a company that has made rebuilding of transmitter tubes their core business.