



Newsletter - Issue No. 7, September 2009

Welcome to the seventh quarterly newsletter from **Model Solutions of Canada Ltd.** We hope to keep all our previous and potential customers up to date with developments in our products and our company.

New SFX6 State of the Arte Sound Modules

Our new SFX6 ultra high performance sound module announced in our last newsletter was launched at the end of July and is selling well. Its groundbreaking performance and features leave it unmatched anywhere in the world.

Since its launch we have released two software and firmware upgrades – the current software release is SFXPC3.0.2. Significant changes over the original SFXPC3.0.1 include the ability to load MP3 files directly without the user having to convert them to WAV files externally, and setting up a file association such that when .sfx3 files are double-clicked, they will automatically open in the SFXPC3 application. The Preferences Form also contains two new checkboxes for auto-trimming the sound clip start, end and loop points to the nearest positive going zero crossing points with a gentle slope. This results in a much smoother transition when the sounds loop either at their end, or at their Loop End Point. Several bug fixes were also included.

SFX6 Volume Control Setting

The SFX6 module can drive its highest output power of 40Watts at maximum volume setting when operating on its 26Volts maximum supply voltage. However, when operating on a lower operating voltage, the volume setting should be reduced to avoid overdriving the amplifier into distortion. The left hand pushbutton at the top of the board is volume down, the right is volume up.

The SFX6 also supports **Remote Volume Control**. If you are not using the Throttle2 input for the second engine sound or the Channel Select2 Input to switch sounds, one or both of those inputs can be configured to function as a remote volume control. This configuration is done in the **SFXPC3 Control Panel->Hardware Tab**. You would typically use a spare proportional channel with a rotary knob or a slider control for this function.

New Article on Loudspeaker and Audio Amplifier Ratings

We have recently published a new article entitled “**Loudspeaker and Audio Amplifier Ratings, Sound Pressure Level and their often Misunderstood Relationships**”. It is available on the “Articles” page on our web site at : <http://modelsolutions.ca/articles.htm>.

Loudspeaker manufacturers sometimes make misleading and even outrageous claims about how much power their loudspeakers can handle or how loud they sound, i.e. how much Sound Pressure Level (SPL) they can deliver. Similarly audio amplifier manufacturers also often make misleading claims about how much electrical power their amplifiers can deliver. This article hopes to debunk many of the misconceptions and misunderstandings about this area of marketing one-upmanship and clarifies how to interpret the manufacturer’s claims.

New Print Advertising

We are starting to place adverts in relevant hobby magazines. Our first one will be in the November 2009 issue of **QUIET and ELECTRIC FLIGHT INTERNATIONAL**, out on October 31st. Depending on the success of that placement, more will follow in that magazine and others.



Fall 2009 Developments

During this fall we will be working on our two most advanced SFX6 firmware features – **“ESC Profiling”** and **“GPS Enhanced Doppler Shift”**. **“ESC Profiling”** will allow you to setup four separate motor speed/time points during an engine sound startup and four for engine shutdown. This allows the propeller speed to be better synchronized to the engine startup and shutdown sounds. This is especially useful for engine sounds with a long “wind-up” time such as turbo-prop engines. The **“GPS Enhanced Doppler Shift”** feature will use an optional external GPS module to provide enhanced Doppler frequency shift based on the model’s speed and direction relative to its start point. The GPS modules will be priced at CAD\$99.95.

We will also be resuming development of our high voltage, high power amplifier which was put on hold last fall to allow the development of the SFX6 sound module. Tentative specifications are 20volts – 70Volts and 120Watts maximum power into 8Ohms, when mounted on an appropriate heatsink. We are also hoping to offer a low voltage amplifier to allow 6V and 7.2V models to use our SFX6 sound module.

Videos/Photos of Customer’s Models

Our customer’s Video and Photo Gallery web pages showing videos or photos of our customer’s models using our sound modules are growing. We now have three airplane videos, one of a Sherman Tank and a TV Clip about a 9ft 8” long helicopter carrier, HMS Ocean. If you have any good quality videos or photos of your models with our sound modules operating, please contact us at info@modelsolutions.ca. We welcome all models using our sound modules, especially those using our latest SFX6 module.

Warranty/ Guarantee

Our products are warranted for a period of 12 months from the date of original purchase. All our modules are 100% tested before they leave our premises and are known to be fully working before we ship them to customers. The warranty covers manufacturing defects **ONLY** and does not cover damage caused by user wiring errors, incorrect loudspeaker impedance or power handling capacity, getting the module wet or other misuse.

Customer Testimonials

We have a customer testimonials web page and have several testimonials sent to us by pleased customers of our previous sound modules. We welcome testimonials from any customer that has purchased any of our SFX6 modules who are pleased with the product, and/or our service. Thank you.

Opting Out of this Newsletter

If you do not wish to receive any future newsletters from us, please send an email with the subject line “Unsubscribe” to newsletter@modelsolutions.ca. Thank you.

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