

Issue 08

DECEMBER, 2009

MSC Newsletter

MODEL SOLUTIONS OF CANADA LTD.

R/C MODELS LIKE YOU'VE NEVER HEARD THEM BEFORE!!

MERRY CHRISTMAS!

Christmas greetings to you all. We wish all our previous and potential new customers a very Merry Christmas and a prosperous New Year.

NEW MAKEOVER!

Our newsletter and all the SFX6 manuals have been completely reworked.

An updated look, a modern Calibri font and new layout contribute to what we hope you will agree is a more interesting read. Let us know what you think.

MSC ADVERTISING



[Click here to see the ad](#)

The first of our print advertisements appeared in the November 2009 issue of the U.K. Q&EFI (Quiet and Electric Flight International) magazine.



Tim Mackey, Colwyn Bay, Wales, U.K. with his Sopwith Camel

[Click here to go to a YouTube Video of Tim's model in action](#)

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RCM&E Magazine Review

Our SFX6 module has been reviewed by Tim Mackey in the January 2010 issue of the U.K. model airplane magazine RCM&E. This excellent review appears on pages 47-50 of that issue. Tim installed our SFX6 module in his Hangar 9 Sopwith Camel, above.

Here is an excerpt from his review :

"I had seen and heard other manufacturer's systems in the past, and although pretty good, the new SFX6.3 promised some exciting features such as startlingly clear full CD quality sound due to its powerful 32 bit processor, and playback at up to 44100 samples/second. Supporting two independent throttle controlled engine sounds, the unit would also be great for twin engined models while providing features such as machine gun sounds, synchronized power outputs for

driving LEDs in gun muzzles, fully customizable sound files and the facility to add independently generated sound clips: a pretty flexible and powerful unit then."

We are also expecting a review in the U.K. Model Boats magazine mid-2010.

CUSTOMER PHOTOS

We plan for our new newsletter to feature one or two photos of customer's models in each issue. Please feel free to send us your photos and videos. We will post good quality videos on our video gallery web page at :

<http://www.modelsolutions.ca/videogallery.htm>.



RECENT SFX6 SOUND MODULE CHANGES

Since its launch in July 2009 we have released a number of software and firmware upgrades. We are now working on the SFXPC3.0.5 release which we expect to be available early January 2010.

Major work has been done to further improve sound quality by removing clicks and crackles. This work has also increased the maximum sample rate to 46875 samples/second.

Automatic engine ramp-up and ramp down is now possible to better emulate the behaviour of real engines, especially large ones, which cannot change speed quickly when the throttle is moved rapidly.

Instead of having two dedicated LED flasher outputs and two dedicated switched outputs, now any of the four outputs can be an LED flasher or a switched output. This makes the outputs far more flexible.

Another major improvement is the ability to control any of the regular (non-engine) sounds using a single transmitter on/off channel instead of two as previously required. One proportional channel can also be used to control four sounds as before.

Please contact us if you wish to upgrade to this latest release.

REMAINING ON THE LEADING EDGE OF R/C SOUND SYSTEM TECHNOLOGY

By continually researching the latest technologies for R/C sound systems we ensure we remain the leader in this field

HIGH VOLTAGE AMPLIFIER

We have been researching high voltage (20 – 50Volt) audio power amplifier chips and are developing a 120Watt power amplifier based on a new Texas Instruments Class D chip. We have tested a high voltage Class AB chip and rejected that prototype because of the huge amount of heat generated that would require a large and heavy heatsink.

We are just starting development work on this new high-efficiency 50Volt amplifier.

We hope to have a new prototype for testing by the time our next newsletter is published.

Modern Class D amplifiers have extremely low EMI (Electro Magnetic Interference) and have been proven over and over again in many R/C aircraft not to cause any interference whatsoever.



Ted Scrivens (centre) of the [Rideau Nautical Modellers, Ottawa, Canada](#) and his 1/48 scale HMCS Sackville

LOW VOLTAGE AMPLIFIER

We have obtained some samples of a very new state of the art Class D chip from ST Microelectronics that can operate from 4.5 – 18Volts. We plan to build a prototype based on this chip. Because they are so new, these chips are not yet available from ST's distributors, but we hope to be able to offer this amplifier for sale later in 2010.

This will address the needs of 6V, 7.2V and 9.6V models, without the need for a heatsink.

MSC ARTICLES

We have published several technical articles on electrical subjects of interest to R/C modellers. They are all available on our Articles page at : www.modelsolutions.ca/articles.htm



UPCOMING SFX6 FEATURES

We continually strive to make the SFX6 sound module the very best it can be. We have a program of continuing feature development and releases, which can be upgraded by the customer due to the built in USB firmware bootloader program.

To better match the needs of land based models such as tanks, trucks and trains we will be adding the ability to designate certain engine sounds as engine idle, moving off, stopping, braking, and reversing as well as the current shutdown sound.

We have already begun work on our "ESC Profiles" features which will better match propeller speed to engine sound at start up and shutdown.

PHOTO/VIDEO GALLERIES

Our Photo and Video galleries containing photos and/or videos of some of our customer's model continue to grow. We have a wide variety of models featured – aircraft of all kinds, tugboats, naval vessels and even a Sherman tank.

We are lacking videos of model boats and would welcome contributions of good quality videos from some of our model boat customers.

Our Photo Page is at :
www.modelsolutions.ca/photogallery.htm

Our Video Page is at :
www.modelsolutions.ca/videogallery.htm

OPTING OUT OF NEWSLETTER

If you wish to not receive any future e-newsletters from us, please send an email with the subject line "Unsubscribe" to
newsletter@modelsolutions.ca.

CHANGED EMAIL ADDRESS

Due to increasing spam attacks we have had to delete our email address info@modelsolutions.ca and also remove our on-line query form from our Contact Us web page. Enquirers should use regular email in place of the web form.

Our generic email address is now contactus@modelsolutions.ca. This exact address does not appear anywhere on our web site. Instead it is shown as [contactus "at" modelsolutions.ca](mailto:contactus@modelsolutions.ca).

CUSTOMER TESTIMONIALS

We welcome testimonials from any customer who has purchased any of our SFX6 modules and are pleased with the product, and/or our service.

Please email them to :
contactus@modelsolutions.ca.

Thank you.

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