

Introduction

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Thanks for purchasing a CreamWare DSP product!

The various products in our DSP line all originate from a common technology—our unique SCOPE technology—and are therefore compatible with each other. The differences in the packages lie only in the kind and number of modules provided (synths, mixers, effects, samplers, and so on) and in the scale of the hardware, that is, the number and types of inputs and outputs, and the number of onboard DSPs (Digital Signal Processors—the chips that provide the audio computing power).

Our Luna, PowerSampler, Pulsar, PowerPulsar and SCOPE /SP products all share the same software base technology, designated the *SCOPE Fusion Platform* (SFP).

Notes for Pulsar XTC User

Because Pulsar XTC users without optional I/O expansion cannot run the SCOPE Fusion Platform software, they can use SFP modules only within their VST-compatible sequencer. Therefore, for these users only the individual module references and the XTC chapter in this manual are relevant. If optional I/O is installed, the all the capabilities of the SCOPE Fusion Platform are available.

The SCOPE Fusion Platform transforms your computer into a highly professional virtual studio offering (depending on the selected product or products) sound synthesis, mixing, effects, sampling, and much, much more.

Furthermore, you can route audio tracks from your recording software into the SCOPE Fusion Platform environment, where you can mix them using effects that run on the DSPs of the CreamWare DSP board.

Last but not least, SCOPE Fusion Platform will never become stale, as it is a completely modular system which can always be expanded with new modules – including many which can be obtained for free via the Internet.

We have worked hard to ensure that the SCOPE Fusion Platform is as intuitive and easy to work with as possible. Thus, you'll encounter many things which will remind you of working with external hardware gear and will therefore seem immediately familiar. Nevertheless, we recommend reading the manual thoroughly, so that you'll be able to fully exploit the capabilities and advantages of this innovative system.

The CreamWare team wishes you successful work and lots of fun with your CreamWare DSP product!

General information about the manual

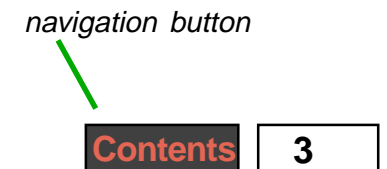
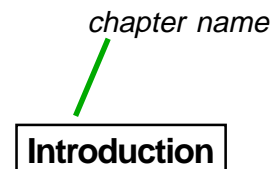
This manual is in the by-now familiar Adobe Acrobat Reader (PDF) format. Each chapter is provided as an individual file. All of these files are linked with the common table of contents and via additional direct links, so the manual “handles” just as if it were one big file. However, because it is actually a set of smaller files, downloading updated chapters over the Internet is much faster and easier.

If you are not familiar with Adobe Acrobat Reader and its various options for navigating and viewing PDF files, take a look at the tutorial section on Acrobat files which can be accessed via the start page of this manual.

At the bottom of each page you will see one or two rectangular navigation buttons. Clicking on the one labelled **Contents** takes you to the table of contents for the current chapter. (From there, if you wish, you can jump to the main table of contents by clicking on the **Main Table of Contents** button.)

The **Index** button takes you to the index of the current chapter (if the chapter has an index).

The box in the lower left corner displays the name of the current chapter.



Structure of the manual

This manual is installed automatically along with the software. To help you with the installation itself, a printed Installation Guide is included as part of the package. The Installation Guide is also provided as an Acrobat Reader file which can be opened from the start page of this manual, once you've installed the software.

This manual is supplied with Luna, Pulsar, PowerPulsar, and SCOPE /SP. It consists of two main sections:

1.) Description of the SCOPE Fusion Platform

This section (which includes these pages) includes an explanation of the SCOPE Fusion Platform concept, hints concerning connection of your external studio devices, a “quick start” section for people who want to get started even *before* cracking open the manual, and an introduction to general software terminology, working techniques and the configuration options in the DSP software. It also includes instructions on how to integrate SCOPE Fusion Platform products with your recording software or audio sequencer, with specific examples for some of the most common applications.

2.) Description of the various modules

This section contains descriptions of the individual modules developed for our DSP products. Although modules for all our DSP products are described, we have clearly identified which modules are included with which specific packages.

The SCOPE Fusion Platform concept

Our DSP products differ from the simple sound cards or audio cards you may be accustomed to. While conventional sound cards provide only inputs and outputs, and possibly a basic MIDI sound source, our hardware offers, in addition to a wide variety of input and output configurations, multiple onboard DSPs (**D**igital **S**ignal **P**rocessors) making available an enormous amount of numeric processing power. These DSPs are not function-specific integrated circuits which serve merely to pack the heart of a synthesizer, sampler or digital mixer onto a computer card, but are general-purpose, software-programmable floating-point processors that can flexibly perform any kind of audio processing.

Thus, the functionality of our DSP products is not hard-wired into a fixed architecture circuit; rather, it is defined by software that "feeds" the DSPs with instructions enabling them to perform any desired function.

For you, the user, this adds up to a bunch of advantages:

- SCOPE Fusion Platform is more versatile and flexible than any other system. Depending on the modules available—both those that came with the package and those you've acquired individually—you can configure your system as a modular synthesis platform, as a full-featured digital mixer with effects, you can configure it as modular synthesis platform, as a full-function digital mixer including effects, as an I/O system for your HDR system, as a sample player, or all of these at the same time – simply load the modules you need, as long as DSP computing capacity permits.

- SCOPE Fusion Platform is completely modular. All modules – synthesizers, mixers, effects, sample players, even audio drivers and hardware IOs – can be loaded from the list of available modules. This means you can always adapt SCOPE Fusion Platform 100% to fit whatever your needs happen to be at the moment. And modular in turn means economical, since only those modules which are actually loaded consume DSP power.

- Software bugs can easily be corrected via software updates. Better still – completely new functionality can be added just as easily at any time. The SOCPE Fusion Platform is a continually-developing system, and the huge range of possibilities which it provides continually expands right along with it.

- Third-party manufacturers can offer their products as SOCPE Fusion Platform software modules. And with our SCOPE /DP system, even users who have no knowledge of programming can create custom modules. Check out all of the great SOCPE Fusion Platform modules that are available in the Internet for free (see the links section of our Web site) – you’ll be quite pleasantly surprised!

- With SOCPE Fusion Platform, “realtime” really means realtime. As the DSPs handle all of the work of audio processing without help from the host CPU, we’re able to avoid the typical latency that goes along with dependency upon the operating system of the computer. Consequently, DSP synths respond just as fast as external synthesizers, and all setting changes – for example, adjustments to the level of a channel in the mixer – become effective immediately, and not “a short time later” as with host-CPU based systems.

- The SOCPE Fusion Platform need never become boring. You’ll always be able to come up with new ways to use it, which in turn will provide new inspiration for your work. This is a system without limits!