

# DB8/DB4 INTRODUCTION

**Thank you** for choosing DB8 or DB4 as your next step in audio. Even if the near future is analog we are convinced you have chosen wisely. Consistency in Loudness is the single most important audio issue to get right in broadcast today. DB8 and DB4 employ cutting edge technology to enable stations get rid of listener complaints about jumping levels, and to transmit in analog and digital with optimum processing for both feeds.

## **The Difference Between DB8 and DB4**

DB8 contains four independent processors in one frame - DB4 holds two. Two or four processors is the only difference, and DB4 is even preset compatible with DB8. DB8 is designed for large broadcast centers, while DB4 may be a more appropriate match for a regional station, but they share the same processing, the same presets and the same physical I/O structure - and even the same program to control them. Many machines of both types can be controlled from one Icon program (included with this package), and they will identify themselves over a network, be it local or remotely located machines.

## **Software and Manual for DB8 and DB4**

Software updates for both machines are always released simultaneously, and the two machines share the same manual. The relevant differences are highlighted. Instead of both names being printed throughout the manual, "DB8" is used as a generic term.

## **Presets**

DB8 and DB4 include a number of international standard presets ready for use. More presets are continuously made available in software updates, and from the TC web-site. Presets are based on information from broadcasters around the world. Some are subtle, some aggressive, but they all provide outstanding audio resolution, never before available in a broadcast processor.

## **Identify Your Opportunities**

If your station is an early mover in digital and seeking to identify advantages, DB8 and DB4 will provide you with all the possibilities you need to experiment and find the right competitive angle. The processors can also adapt to your audience's changing needs, or audio strategy could even be changed from program to program.

## **Technical Integrity**

Synchronous 48kHz sampling and 48 bit processing throughout. Wide range, high order jitter rejection. The DB8/DB4 platform is without compromises. In fact, hundreds of machines could be cascaded without even degrading the transmitted sound. If optional analog interfacing cards are added, they too represent state of the art technology with 96kHz sampling and mastering quality dynamic range. Analog prescaling is under remote control to NAB and EBU standards or even up to +30dBu Inputs.

## **Foundation**

TC's involvement with high quality digital audio dates back to the mid eighties with pre-DSD technology being employed in the still ubiquitous delay, 2290. TC's commitment to digital excellence continued over the years with equipment for the music, film and mastering industries. The multichannel processing in DB8 and DB4, for instance, was originally developed for film. Those tools have been adjusted for broadcast use and are now part of your arsenal. Or dynamics control, where some of the latest end-listener distortion canceling methods originally invented for mastering have been build in.

Seven years experience with analog and digital broadcast combined with the know-how of skilled engineers is the strong base of the DB8/DB4 platform. From the purist and quality conscious hardware engineers to software writers of whom some were involved with designing the MPEG codecs, the team forms a competent, non-dogmatic design group ready to take broadcast audio to the next level. We are confident you will value your new possibilities.