



## **BRAINSTORM ELECTRONICS INC.**

Intelligent Solutions for the Recording and Post-Production Studios

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### **Release Notes for DCD-8 Users**

Mai 2011

#### DCD-8 - Firmware version 2.31

We are pleased to announce that version 2.31 has just been released for the DCD-8 Word Clock Distriplazer. This upgrade can be downloaded free of charge by all registered users at [www.brainstormtime.com](http://www.brainstormtime.com). Please be sure to register. The unit's serial number and ID are required to register the first time.

An updated user manual is also available for download on our web site. This new manual reflects the changes made in the firmware, as described below.

#### **FIXES In Version 2.31**

- A susceptibility was found (and fixed) in the reference stability measurement section for a good reference to be occasionally rejected, with the result that the unit incorrectly reported a loss of reference.
- The Reference menus will now correctly display video reference rates for slow PAL (24 and 23.976), as well as 30Hz NTSC. These rates can also be selected in "Set" mode. This was a display issue only.
- A small delay at the start of each input reference period measurement cycle had become shorter than in the original design, with the result that measurements of some of the lower frequency input references would occasionally show large errors, which would result in a loss of lock signal. The timing of the delay has been restored and improved.

#### **NEW FEATURES In Version 2.30**

- New Menu: Menu 13 - Alternate Reference Auto-Relock (see page 11 of manual)
- Improved video phase adjustment and indication (see page 26 of manual)
- Improved PLL locking function

#### **CHANGES IN THE DCD-8 MANUAL**

- The description of the Set, Auto & Learn has been revised for more clarity (see pages 15 & 16 of manual)

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