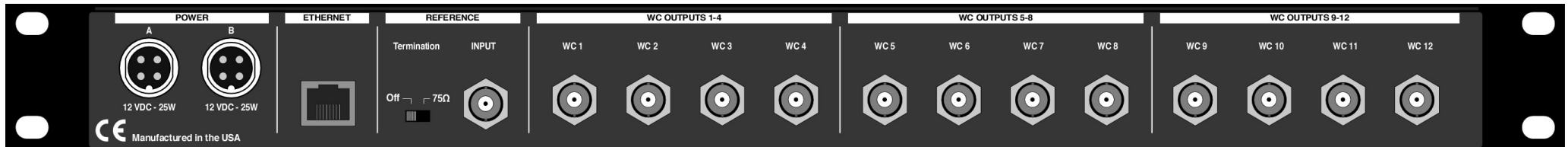


Brainstorm Electronics

DCD-12 WORD CLOCK DISTRIBUTOR

- preliminary information -



Single domain Word Clock Distributor/Generator - includes some of the functions of the Brainstorm DCD-8 and the same great jitter rejection (Jet PLL).

- INPUT:** 1 single BNC - accepts WC, HD & DS Video, AES31, SPDIF, 10 MHz GPS and Rubidium clock
75Ω input termination switch on rear panel
- OUTPUTS:** 12 WC out grouped in 3 groups of 4 BNC's; one group has a multiplier (x2, x4, /2, /4).
- DISPLAY:** 6 digit 7-segments display - indicates output frequency.
Also displays: Input frequency, Termination, Firmware revision, IP address.
- ETHERNET:** 1 port to connect to a network.
DCD-8 appears as an html page and displays all settings; can also be set through the network.
Firmware updates are done via Ethernet.
Multiple units can be linked via Ethernet to make set up easier. Only control information is sent via Ethernet, not WC.
- POWER:** 2 parallel 12VDC inputs with circuitry to automatically switch in case of failure and warning indication on front panel.
- TERMINATION:** Measurements are indicated in ohms for each output; warning LED indicates double or triple termination.
- LOCK OUT:** Slider switch locks out all front panel controls to prevent accidental changes.
- REFERENCE:** The DCD-12 can run as a master generator on internal crystal or locked to an external reference.
External choices are WC, Video (HD & SD), AES31, SPDIF, 10 MHz GPS and Rubidium clock.
Once the type of input is selected, the DCD-12 automatically learns the rate of the reference.
All combinations of pull ups and pull downs are available, as well as VSO.
- OUTPUT RATES:** All standard and non-standard rates are available.
Output rate does not have to match the rate of the reference. For example, the DCD-12 can generate 48k with a 44.1k reference.
The front panel includes a "Gearboxing" status LED.
- CONTINUITY:** If the REF disappears, the DCD-12 'coasts' and automatically relocks when the REF returns.