A complete word clock distribution solution genlocked to a number of different references.

The DCD-24 is both a Word Clock Generator and a Distributor, using exceptional jitter reduction technology. With 24 BNC outputs the DCD-24 sends accurate Word Clock throughout an installation.

It provides word clock at frequencies up to 192KHz locked to its high precision internal crystal or to an external reference - WC, Video Sync (all standard HD & SD rates), AES3 or 10 MHz (from GPS or Rubidium clocks). The rate of the reference (input) is automatically measured and "learned" while the output rate can be either identical to the input ('follow input' - WC or AES only) or set to any other frequency regardless of the input rate. Outputs 17-24 have a multiplier/divider so that 2 different rates can be distriibuted simultaneously by the DCD-24, for example 48K and 96K. If the external reference fails, the DCD-24 switches to internal until the reference returns, smoothly, automatically and without sync shock.

An Ethernet port is included to remotely set the parameters and update the firmware.

MAIN FEATURES:

- Available External References:
    - WC
    - AES
    - 10MHz (GPS, Rubidium Clock)
    - Video (HD or SD)
- 24 Word Clock Outputs (BNC)
- Output rate can be different than the reference rate (gearboxing)
- Also operates as a master generator on internal crystal

- Pull up and pull down rates are available as well as VSO (+ or - 200 cents)
- Output termination status display
- Simple, inexpensive dual redundant power supply support
- Front panel lock-out switch
- Ethernet: TCP/IP network to:
    - Monitor settings, rates and status
    - Set Parameters
    - Load Firmware Updates