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Cybersonics

DM 2002

Cybersonics Disc Master 2002



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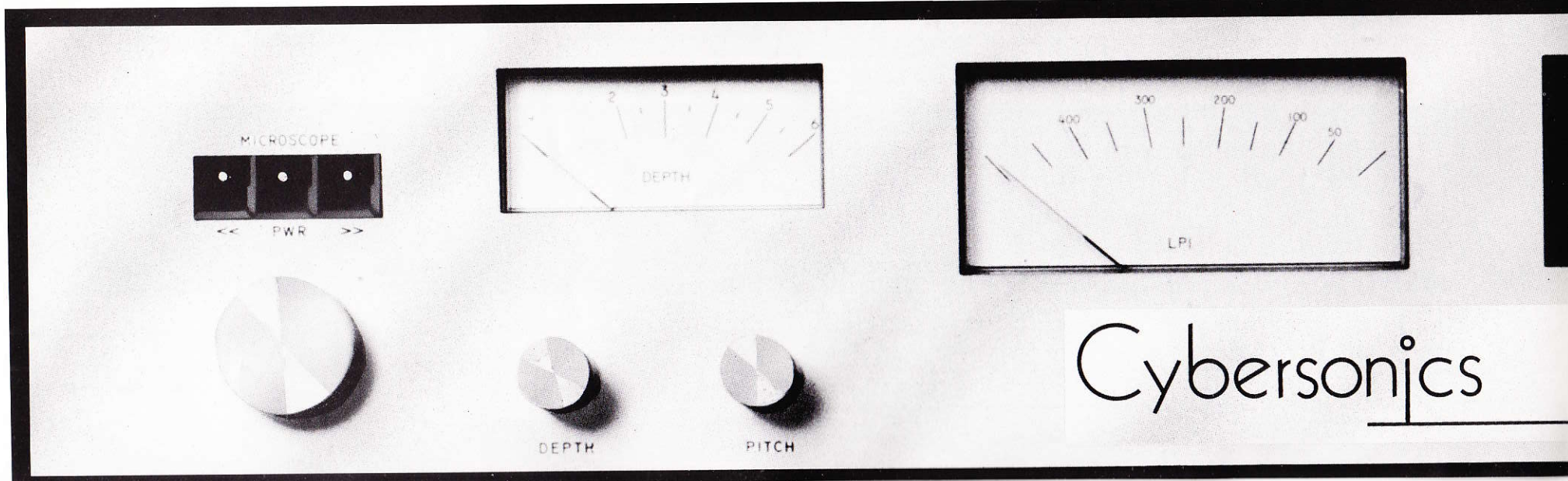
With five years in development and testing, CYBERSONICS introduces the Disc Master 2002, featuring a compact utilitarian design with the latest in electro-mechanical technology. Read about it and see if you don't agree that this is the most exciting and advanced new product to hit the disc mastering market in years.

The mechanical sub-assemblies are inherently adjustment free. Simplicity is the key, the precision is designed-in. The use of direct individual motor drive to each of the sub-assemblies is new. The turntable, cutting lead screw, microscope lead screw AND even the head mount have an individual torque motor to provide superb control and accuracy.

A high torque servo motor is directly coupled to the turntable and utilizes a hollow shaft for the vacuum to the turntable thus providing automatic disc hold-down.

The cutter carriage incorporates its own servo motor drive complete with digital encoder. The head mount is a dynamically balanced suspension system employing a high torque motor driven by the electronics which precisely controls the cutting depth.

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No matter how precise, sophisticated, or elegant the mechanical design, it is lifeless without an electronic control. Cybersonics has drawn on expert digital and analog design to produce COMPU-DRIVE: thereby putting State of Art life into the mechanical subsystems.

The turntable high torque servo motor is controlled by a phase lock servo, using a quartz crystal reference. The exact rotational speed is displayed at all times on the operator control panel.

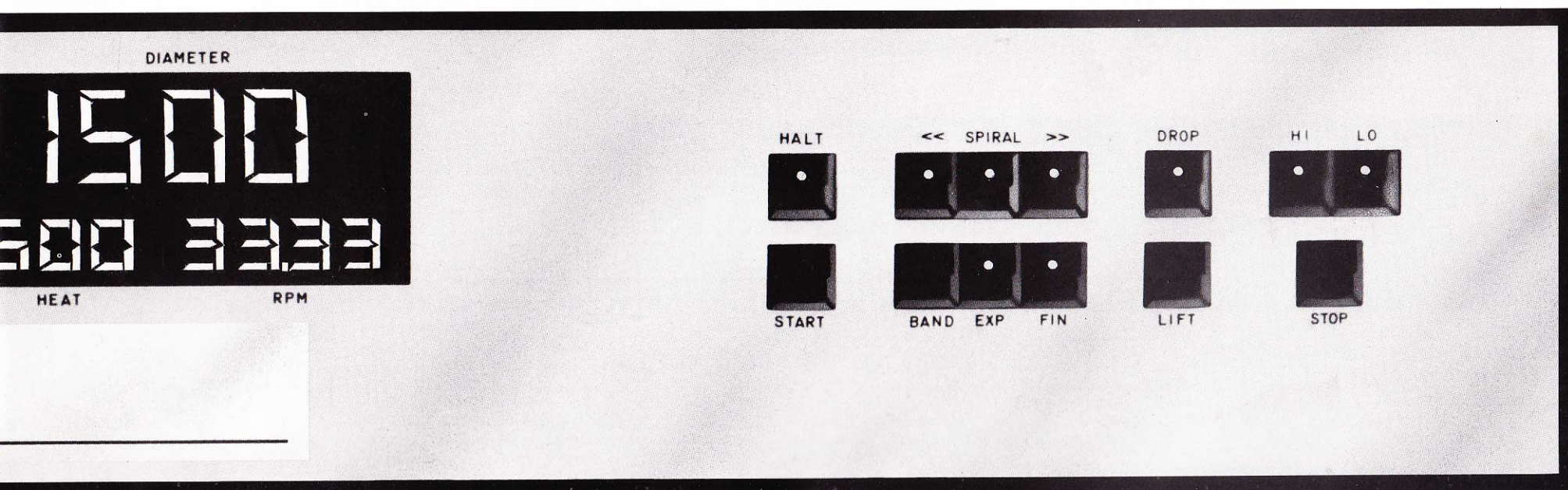
A shaft encoder coupled to the cutter lead screw provides visual display of exact stylus cutting diameter. This encoder also provides necessary information to COMPU-DRIVE for automatic mode functions such as: head drop, lead-in spiral, auto tape start, lead-in termination, lock-out concentric groove diameter, head lift, and auto retract to rest position. All switching of analog signals is by transmission gates. No mechanical switches are used other than front panel buttons.

Input to COMPU-DRIVE is normally from the preview head, allowing the COMPU-DRIVE to anticipate conditions and adjust pitch and depth of cut, update of pitch can be made 2 to 18 times per turntable revolution. Specific delays are programmed into COMPU-DRIVE to compensate for head to head distance, disc speed, tape speed, etc. No exotic tape paths are required.

All signals are formatted in eight bit words to facilitate automated disc recording in conjunction with computer mix-down systems. Future developments with a micro-processor are a natural extension. Electronic link of DISC-MASTER units for multiple mastering of direct to disc recording is a natural for the COMPU-DRIVE control.



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The CYBERSONICS DISC MASTER 2002 features operator convenience and simplified operation. For the first time, it is possible for the smaller studio to provide FULL SERVICE from normal studio, all the way to Reference Discs to master. This full service leaves little to chance, helps your customer and increases your business.

Specifications:

35½ wide 27½ deep 16 high
(including microscope)

Shipping weight: Approx. 250 lbs.

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Contact CYBERSONICS for complete technical specifications and description on the State of the Art DISC-MASTER 2002.

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