

# DOLBY CAT. NO. 701 DIGITAL SOUNDHEAD



The Dolby Cat. No. 701 Digital Soundhead is the latest reader for Dolby Digital soundtracks. With streamlined optics and an integral power supply for increased cost-effectiveness and easier installation, the Cat. No. 701 converts most current and many older cinema projectors for state-of-the-art Dolby Digital playback.

The Cat. No. 701 uses the latest in LED and CCD technologies to read the digital optical track on 35 mm Dolby Digital release prints. The resulting signal is fed to the cinema's Dolby Digital processor for decoding into 5.1 channels (L, C, R, Ls, Rs, Sw).

Crafted by Dolby Laboratories to ensure both high performance and long-term durability, the Cat. No. 701 is truly a reference standard for Dolby Digital soundtrack reproduction. The Cat. No. 701 bolts directly to many cinema projectors with adapter plates available from Dolby Laboratories for various models. Installation is virtually "plug and play" as no optical or other special alignment procedure is required.

To ensure smooth film motion, the Cat. No. 701 features an easily threaded Davis tight loop configuration with twin tension arms for superior film guidance. Threading non-Dolby Digital prints to bypass the Dolby Digital reader is equally straightforward, placing no extra burden on the projectionist.

# **a**bout Dolby Digital

Introduced in 1992, Dolby Digital immediately fulfilled all the film industry's requirements for digital cinema sound. With its on-film soundtrack placement, compatible print format, discrete 5.1 channels, ease of print manufacture, and uncomplicated cinema installation, Dolby Digital has become the most widely used digital format in the world, with more equipped cinemas and more titles than any other digital format.

Over the years, Dolby Digital has continued to evolve, providing producers, exhibitors, and audiences with ongoing state-of-the-art technology and performance. Cinema products such as Dolby's digital sound processors and soundheads have been regularly updated. And the Dolby Digital coding process itself has been refined, with software updates delivered directly and automatically to the Dolby Digital processors in theatres by means of release prints themselves.

The latest development is Dolby Digital-Surround EX, a joint development with Lucasfilm THX that provides a third, center surround channel, offering mixers significant new creative opportunities. Prints taking advantage of this new development can be played in any Dolby Digital theatre, whether or not it has been equipped with the Dolby SA10 adapter required to reproduce the third surround channel.

## CAT. NO. 701 SPECIFICATIONS

### Construction

Die cast aluminum with matte black finish. Connects to Dolby Digital Cinema Processor model CP500 or to Dolby Digital Film Sound Processors DA10 and DA20.

### Mounting

The soundhead mounts to the following projectors directly:  
Ballantyne Pro 35  
Century SA and JJ (early versions may require an adapter)  
Christie P35  
Simplex 35/70 and 35  
Cinemeccanica V5, V8, and V9  
Note: If you wish to re-install a Cinemeccanica V8 upper reel arm, a Cat. No. 699 adapter is required.

Adapter mounting plates are available for the following projectors:  
Toshiba Denko Imperial Cat. No. 692  
Toshiba Denko 3000 Cat. No. 693  
Additional adapter plates may become available: Contact Dolby Laboratories or your dealer.

### Accessories

Roller assemblies (35 mm and a combination 35 mm/70 mm) are available for threading film along a bypass path.

A replacement LED-with-heatsink assembly is available for field installation without the need for optical alignment.

A shielded, computer-grade, video cable connects the soundhead to the cinema processor. The soundhead is supplied with a 10 meter cable. Other available cable lengths are:  
15 meter (Part No. 83237)  
30 meter (Part No. 83142)

### Power Requirements

Built-in switching power supply provides the necessary power to the LED source and CCD digital amplifier circuitry.  
85-265 VAC, 10 W, 50-60 Hz  
Uses one T400 mA time-lag fuse.

### Operating Conditions

Up to 40° C.

### Regulatory Notices

U.S.: The Cat. No. 701 complies with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. The product is UL Listed.  
Europe: The Cat. No. 701 complies with the requirements of Low Voltage Directive 73/23/EEC and EMC Directive 89/336/EEC and carries the CE marking accordingly.

### Warranty

One-year limited, parts and labor.

**DISCLAIMER OF WARRANTIES:** Equipment manufactured by Dolby Laboratories is warranted against defects in materials and workmanship for a period of one year from the date of purchase. There are no other express or implied warranties and no warranty of merchantability or fitness for a particular purpose.  
**LIMITATION OF LIABILITY:** It is understood and agreed that Dolby Laboratories' liability whether in contract, in tort, under any warranty, in negligence, or otherwise shall not exceed the cost of repair or replacement of the defective components and under no circumstances shall Dolby Laboratories be liable for incidental, special, direct, indirect, or consequential damages (including but not limited to damage to software or recorded audio or visual material), or loss of use, revenue, or profit even if Dolby Laboratories or its agents have been advised, orally or in writing, of the possibility of such damages.



100 Potrero Avenue San Francisco, CA USA 94103-4813  
Telephone (1) 415-558-0200 Facsimile (1) 415-863-1373  
info@dolby.com  
Wootton Bassett Wiltshire SN4 8QJ England  
Telephone (44) 1793-842100 Facsimile (44) 1793-842101  
info@dolby.co.uk  
www.dolby.com  
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