Film-Tech

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These manuals are designed to facilitate the exchange of information related to cinema projection and film handling, with no warranties nor obligations from the authors, for qualified field service engineers.

If you are not a qualified technician, please make no adjustments to anything you may read about in these Adobe manual downloads.
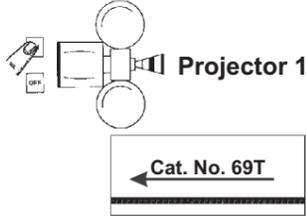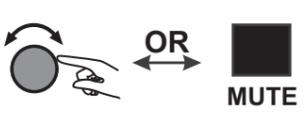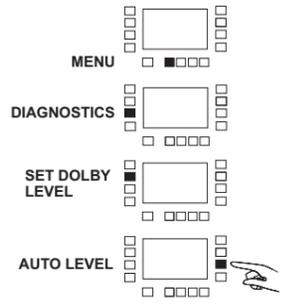
www.film-tech.com

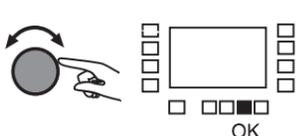# CP500 OPERATING INSTRUCTIONS FOR THE PROJECTIONIST
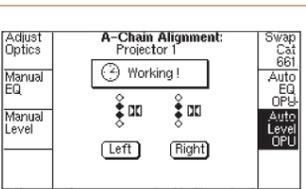
Dolby Level Adjustment

Regularly check Dolby Level adjustment to compensate for aging exciter lamps. If the exciter lamp is changed, readjust Dolby Level.
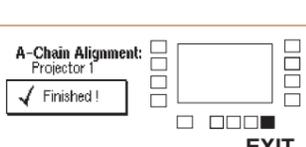
1 Clean the sound optics on **Projector 1**, then thread and play the Dolby Tone test film, Cat. No. 69T. Check that the film is running in the direction of the arrow on the film.
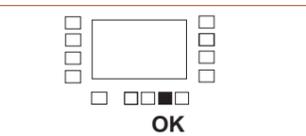
Projector 1
Cat. No. 69T

2 Turn down the **MAIN FADER** or press **MUTE**.

OR

MUTE

3
- Press **MENU**
- Press **Diagnostics**
- Press **Set Dolby Level**
- Press **Auto Level**

MENU
DIAGNOSTICS
SET DOLBY LEVEL
AUTO LEVEL

4 Turn the **MAIN FADER** to choose **Projector 1**.

Press **OK**.

OK

5 The CP500 automatically calibrates to the left and right channels while the Dolby Tone test film is running. (Calibration takes approximately 30 seconds.)

Adjust Optics
A–Chain Alignment: Projector 1
Swap Cat 661
Manual EQ
Working !
Auto EQ OPU
Manual Level
Left Right
Auto Level OPU

6 Press **EXIT** when the screen reports calibration finished.

A–Chain Alignment: Projector 1
Finished !
EXIT

7 Press **OK** to save the new level calibration settings in CP500 memory.

OK

8 Repeat the steps, selecting **Projector 2** if you have a second projector. It is not necessary to change any of the other settings in the **Set Dolby Level** menu.

Projector 2
Projector to Adjust: Projector 2
Cancel OK

For more information on operating the CP500, refer to the CP500 Users' Manual.

Front Panel Labels

FRONT PANEL DISPLAY
Displays Format and Menu screens.

SOFT KEYS 1-8
Select the function shown next to the key in the Front Panel Display.

BYPASS INDICATOR
Indicates continuous red when unit is in Bypass mode.

MUTE ON INDICATOR
Flashes when mute is activated.

FORMATS KEY
Returns the display to the CURRENT FORMAT screen at any time. Use this screen to select formats.

FADER LEVEL DISPLAY
Displays one of the following:
- "0" to "10": for fader setting
- "- -": for data entry mode
- "AU": for an active auditorium fader

MENU KEY
Returns the display to the first software menu.

CANCEL KEY
Cancels pop-up menu operation (menu box that appears on the display during set up). It also restores previous menu or data.

OK KEY
Selects option currently in pop-up menu. It also stores currently displayed data.

EXIT KEY
Selects the previous menu.

MUTE KEY
Mutes sound output to all channels.

MAIN FADER/ MULTI-FUNCTION CONTROL
Controls sound level or selects data in menu operations.
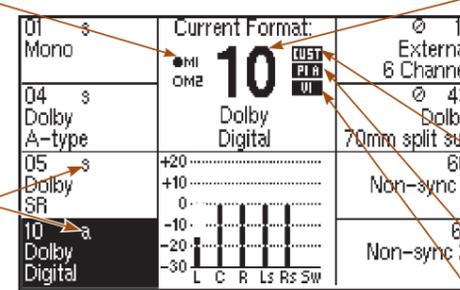
CP500
Dolby Laboratories Inc.

M1 and M2 INDICATORS
Display which projector motor is running (or reflects motor-start jumper position). In Format 10, an indication of " ⟨⟩ " means the system has reverted to the analog track on a Dolby Digital film.

AUTO DIGITAL INDICATORS
Indicate which formats can use Auto Digital. The "s" marks the source or format that can automatically switch to Dolby Digital. The "a" signifies the auto digital destination.

FRONT PANEL DISPLAY

01 Mono
04 Dolby A–type
05 Dolby SR
10 Dolby Digital

Current Format:
•MI
OM2
10
CUST
PI R
VI
Dolby Digital

⊘ 11 External 6 Channel
⊘ 43 Dolby 70mm split sur
60 Non–sync 1
61 Non–sync 2

+20
+10
0
–10
–20
–30
L C R Ls Rs SW

CURRENT FORMAT
Displays which format is active. If Auto Digital is enabled, Format 10 is automatically selected when digital data arrives. If Format 10 is manually selected when there is no digital data, the unit defaults to Format 05.

CUST INDICATOR
Indicates that Custom Format screen is selected. (See the manual for Custom Format information.)

PROJECTOR INDICATOR
Displays which projector is active with a "P1" or "P2." Displays "A" if Auto Digital is enabled.

DIGITAL READER INDICATOR
Displays which digital soundhead is active with a "V1" or "V2."

Note: *For the processor to function properly,* CURRENT FORMAT *must be displayed. Any screen other than* CURRENT FORMAT *disables the remote automation functions. Press the* **FORMATS** *key.*
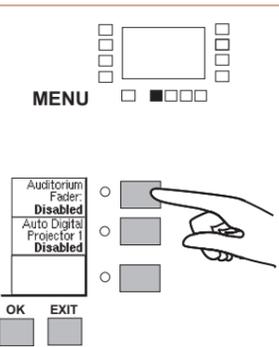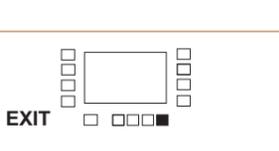
Auto Digital Setup

The CP500 can automatically switch to the Dolby Digital format when the soundhead "sees" data on the film.

To enable or disable Auto Digital:

1
- Press **MENU**
- Press **Auto Digital Projector 1**
- Pressing the key alternately enables and disables the auto digital feature.

Note: *When using the Custom Format screen, you can choose between "Projector 1" or "Projector 2."*

MENU
Auditorium Fader
Disabled
Auto Digital Projector 1
Disabled
OK EXIT

2 Press **EXIT** to return to the CURRENT FORMAT screen.

EXIT

Note: *Dolby Digital is not automatically selected when a non-film format (non-sync) is playing.*

CP500 Bypass Operation

The CP500 has a separate power supply and a complete signal path from the projector to the power amps for emergency operation.

To force the unit into bypass, do **ONE** of the following:
- Cut the main power to the processor.
- Press the power/bypass button behind the front panel.

Mono optical sound is played to all three front speakers during bypass operation.

Note: *It is essential to connect the bypass supply transformer to an AC mains source different from the main power cable. This ensures that power to the bypass supply will not be cut if the main circuit breaker trips.*

Other CP500 Adjustments

Internal adjustments should only be made by a qualified service engineer with specialized test equipment. This is necessary during initial installation or if other sound reproduction equipment (loudspeakers or power amplifiers) is changed.
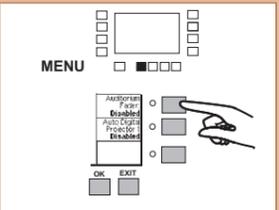
If your CP500 is in need of service, call your local service engineer.

Audio Problems?

☑ **Check that the exciter lamp or LED in soundhead is on. WARNING**: *Do not stare into the LED beam.*

☑ **Check that AC power is getting to the power amps.** Look for power indicators on the power amps.

☑ **Check each display and indicator on the front panel:**
✓ **CURRENT FORMAT** screen is visible.
✓ Correct format is selected. (If Format 01, 04, 05, or 10 is *not* selected, film sound will not be heard.)
✓ **PROJECTOR INDICATOR** matches the active projector.
✓ **MUTE ON INDICATOR** is off (not flashing).
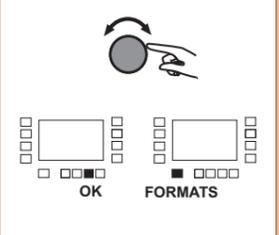✓ **FADER LEVEL DISPLAY** is in normal range.
If the **FADER LEVEL DISPLAY** reads "**AU**", the auditorium fader is in control. It may have been turned down, unplugged, or damaged.
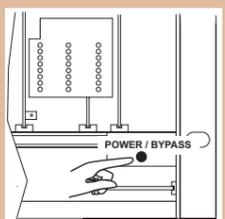
To return control to the MAIN FADER:

1
- Press **MENU**
- Press **Auditorium Fader**

MENU
Auditorium Fader
Disabled
Auto Digital
Projector 1
Disabled
OK EXIT

2 Rotate the **MAIN FADER** to "Deselect".

Press **OK**, then the **FORMATS** key.

Adjust the **MAIN FADER** to the normal range, if necessary.

OK FORMATS

☑ **Set the processor to Bypass mode if the sound does not return.** Open the front panel, and press the small black button at the lower right hand side, labeled, "Power/Bypass." The CP500 **BYPASS INDICATOR** illuminates and sound should return.

POWER / BYPASS

LOCAL SERVICE PHONE:

IN THE UNITED STATES:
DOLBY LABORATORIES' EMERGENCY 24-HOUR PHONE NUMBER: San Francisco 415-558-0200

Dolby ®