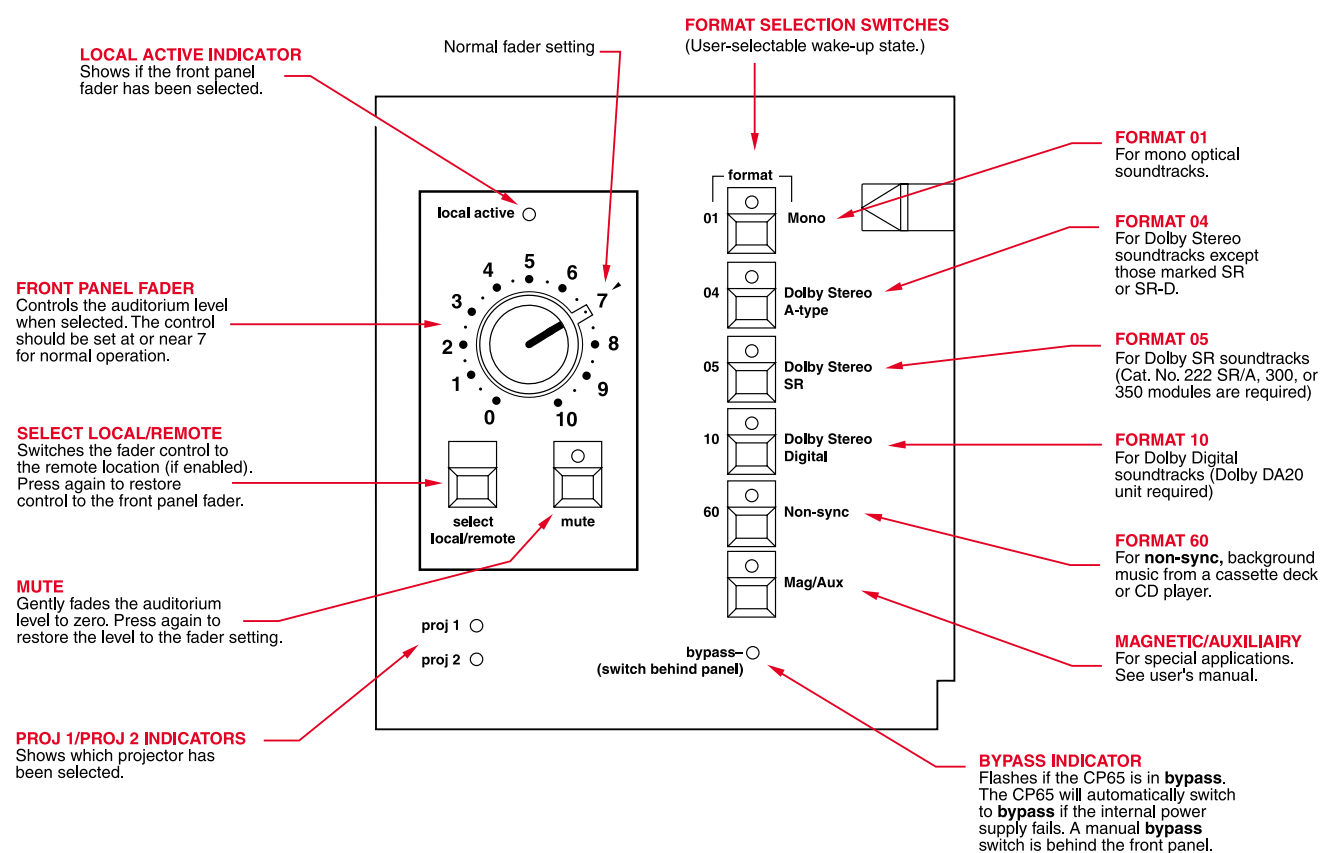# Film-Tech

The information contained in this Adobe Acrobat pdf file is provided at your own risk and good judgment.

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

CP65 OPERATING INSTRUCTIONS FOR THE PROJECTIONIST

LOCAL ACTIVE INDICATOR
Shows if the front panel fader has been selected.

Normal fader setting

FORMAT SELECTION SWITCHES
(User-selectable wake-up state.)

FRONT PANEL FADER
Controls the auditorium level when selected. The control should be set at or near 7 for normal operation.

SELECT LOCAL/REMOTE
Switches the fader control to the remote location (if enabled). Press again to restore control to the front panel fader.

MUTE
Gently fades the auditorium level to zero. Press again to restore the level to the fader setting.

PROJ 1/PROJ 2 INDICATORS
Shows which projector has been selected.

FORMAT 01
For mono optical soundtracks.

FORMAT 04
For Dolby Stereo soundtracks except those marked SR or SR-D.

FORMAT 05
For Dolby SR soundtracks (Cat. No. 222 SR/A, 300, or 350 modules are required)

FORMAT 10
For Dolby Digital soundtracks (Dolby DA20 unit required)

FORMAT 60
For **non-sync**, background music from a cassette deck or CD player.

MAGNETIC/AUXILIARY
For special applications. See user's manual.

BYPASS INDICATOR
Flashes if the CP65 is in **bypass**. The CP65 will automatically switch to **bypass** if the internal power supply fails. A manual **bypass** switch is behind the front panel.

(panel labels: local active, 4 5 6 3 7 2 8 1 9 0 10, select local/remote, mute, proj 1, proj 2, bypass–(switch behind panel))

(format list: 01 Mono, 04 Dolby Stereo A-type, 05 Dolby Stereo SR, 10 Dolby Stereo Digital, 60 Non-sync, Mag/Aux)
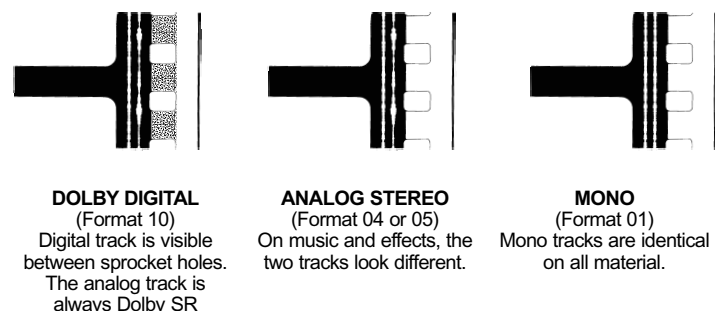
CP65 Basic Operation

1. Turn on the sound system. The CP65 will normally be set during installation to select an appropriate format and fader when switched on.

2. If no background music is selected, it is usually a good practice to cut off the sound by pressing the mute button. This will prevent projector start-up noise from reaching the auditorium.

3. Before starting the show, double-check the following: Correct format selection, fader position, and projector selection. Switch the mute off at the appropriate moment by pressing the mute button again.

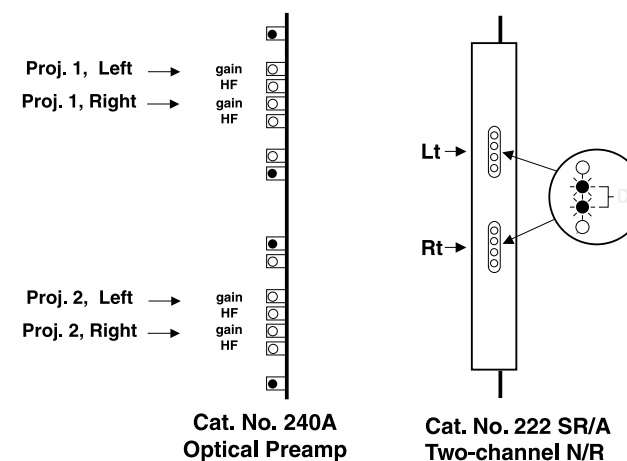## How to tell a stereo print from a mono print

A Dolby Stereo print should be identified as such on both the film can and leader. However, with time the identifications may be lost. If you are not sure whether you have a stereo print, play a reel and find a stretch of music without dialogue or narration (on the latter, a stereo print looks much like a mono print). Examine the soundtracks closely; the two tracks on a stereo print will be different from each other. On a mono print, the two tracks will be identical. If is impossible to tell from visual inspection if a stereo film is Dolby SR encoded. If you suspect that a print is Dolby SR encoded but it is not marked in any way, check with the film's distributor. If you are not able to check it is usually safest to play the print in Format 04.

DOLBY DIGITAL
(Format 10)
Digital track is visible between sprocket holes. The analog track is always Dolby SR

ANALOG STEREO
(Format 04 or 05)
On music and effects, the two tracks look different.

MONO
(Format 01)
Mono tracks are identical on all material.

Dolby Level Adjustment

Occasionally, it is necessary to re-adjust the Dolby level. This is a simple procedure that can easily be done by the projectionist. It is a good practice to occasionally re-check these adjustments to compensate for changes in the soundhead.

To adjust the Dolby level, run a loop of Dolby Cat. No. 69T test film. Make sure it is correctly threaded, with the emulsion side facing away from the screen. Select Format 01 (MONO). Look at the LED Dolby level indicators on the Cat. No. 222 SR/A card. (Refer to the drawing inside the front panel for location.) Adjust the left and right gain controls on the Cat. No. 240A card until the two green indicators on the corresponding Cat. No. 222 SR/A meter are equally lit. Do not adjust the HF controls. If another projector is present, repeat the procedure.

Proj. 1, Left → gain HF
Proj. 1, Right → gain HF

Lt →

Proj. 2, Left → gain HF
Proj. 2, Right → gain HF

Rt →

Cat. No. 240A Optical Preamp

Cat. No. 222 SR/A Two-channel N/R

Dolby Level Controls

NOTE: **Do not** adjust the HF controls without proper test equipment.

Cat. No. 69T
Dolby Tone Test Film
Always thread film with emulsion away from the screen.

Dolby
Cat. No. 69T
Dolby Tone Test Film
Format 01, Mono
Dolby Laboratories Inc.
← Direction
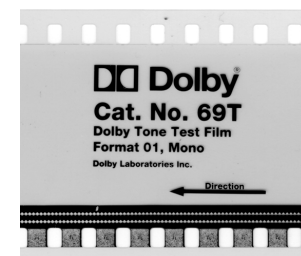
In Case of Difficulty

If the sound system should fail to operate, immediately check the following:
1. Check that the exciter lamp in the projector is on.
2. Check that AC power is getting to both the CP65 and power amplifiers. (Look for the "power on" indicators on the power amps.) If the bypass indicator on the CP65 is flashing, read the section on CP65 bypass operation (below).
3. Check that the CP65 is switched to the correct format and projector. (Look at the format and projector indicators on the CP65 front panel.)
4. Check that the correct fader is selected and is at the correct level. (Look at the local active LED and fader knob position.)
5. Check that the CP65 mute is switched off.
6. Check for an improper external switch position, such as a speaker selection switch.

Keep the Soundhead Optics Clean

Regular cleaning of the projectors' soundhead optics will help you keep your theatre sounding at its best. Use compressed air to blow dust from the lens surface and the LED illuminator. If oil with/without dirt is present, use approved glass cleaner (not lens cleaner) and a cotton swab to clean those surfaces. Be sure to shut off the LED before you clean it with any liquid.

Regularly clean lens surfaces and LEDs with compressed air

LED Illuminators

Lens Surface
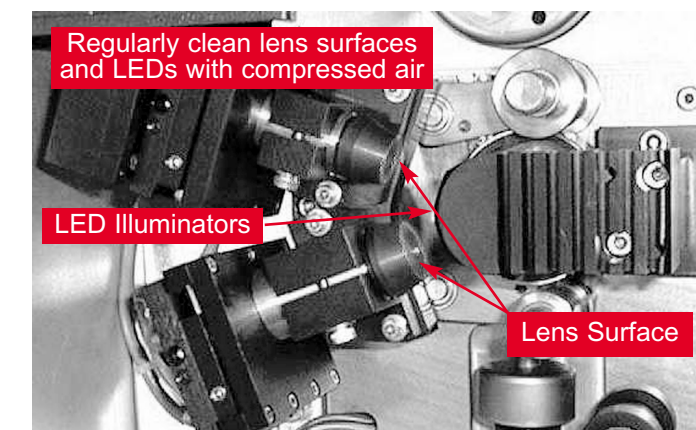
Other CP65 Adjustments

For optimum performance, other adjustments inside the CP65 should only be made by a qualified service engineer with specialized test equipment. This is usually only necessary during the initial installation, or if other sound reproduction equipment, such as loudspeakers or power amplifiers, are changed. If you feel your CP65 is in need of service, call your local service engineer.

CP65 Bypass Operation

The CP65 contains a bypass which connects to an independent line amplifier and power supply for emergency operation. The CP65 will automatically switch to bypass in the event of a power supply failure. Other problems, such as distorted sound or loss of a channel, will require the CP65 to be switched into bypass manually. The bypass switch is located behind the front panel. Bypass operation should allow you to complete the show with acceptable sound in mono until further troubleshooting can be done. Note that the CP65 will operate only in optical and magnetic modes when in bypass.

If the CP65 has automatically switched into bypass, there are several things the projectionist can check before calling the service engineer: Check the main power fuse on the transformer block and replace with the spare if necessary. Dolby Laboratories recommends the purchase of an extra Cat. No. 249A (power supply regulator card) for emergencies. Replace the Cat. No. 249A with the spare card, if available. (Shut off AC power to the system before removing the Cat. No. 249A.) If you are unable to restore the sound system to normal operation, call your local service engineer.

LOCAL SERVICE
ORGANIZATION:
Telephone:

IN THE UNITED STATES:
Dolby Laboratories Emergency 24-hour telephone number:
415-554-8537