Prestige™ Series 3000

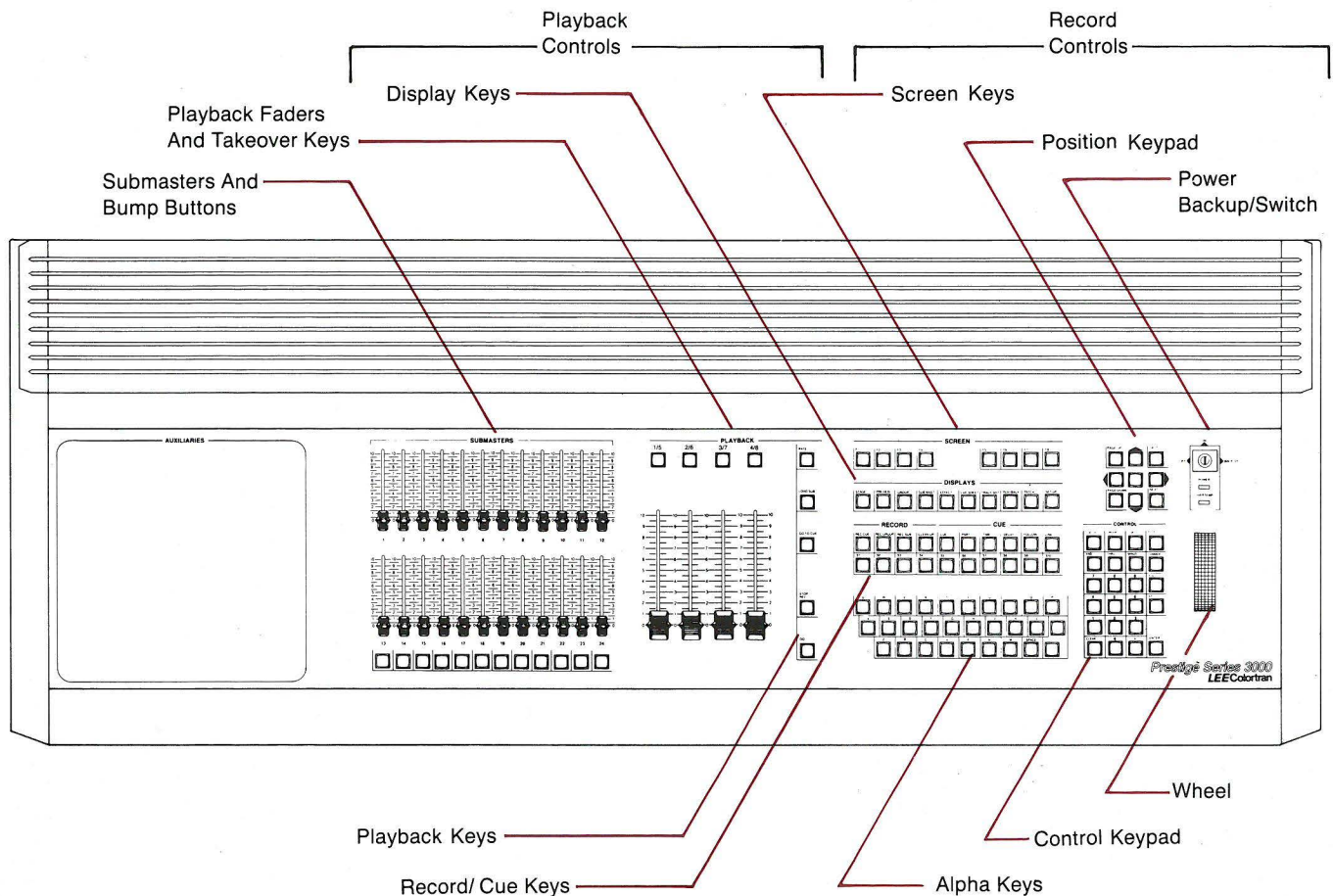## Technology Focused Toward Performance

LEE Colortran

Offering your facility a versatile tool.

LEE Colortran is committed to providing quality products that are responsive to our customer's needs. Many of PRESTIGE 3000 features described in this brochure were sparked by customer feedback. We listen, develop and provide systems that give the users what they demand.
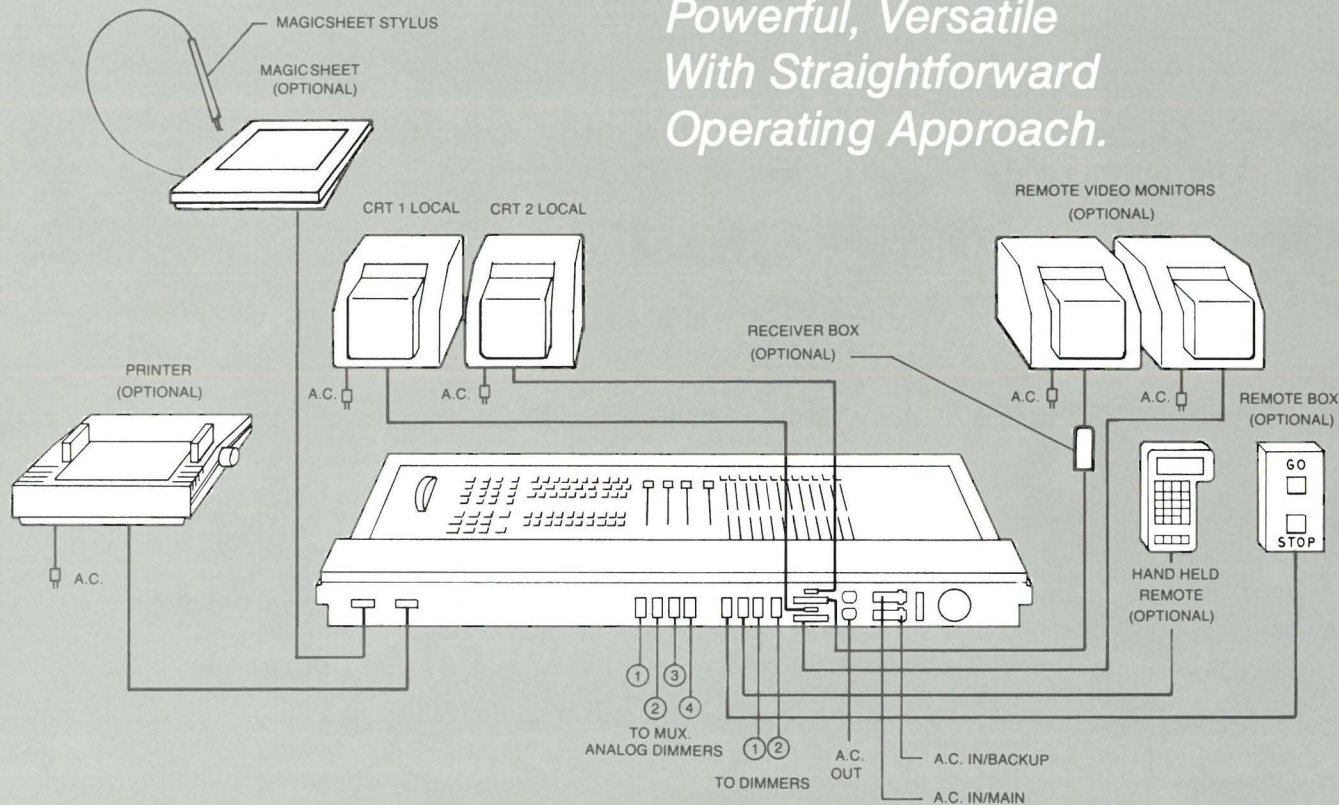
PRESTIGE 3000 is the top of the line in a family of lighting control consoles. The PRESTIGE series is a microprocessor-based memory control system which offers the user ease of operation and the power of a computer. Getting started is simple; the operator enters a series of keystrokes in an English format. The PRESTIGE 3000 includes an Alpha-Keyboard used for labeling cues, groups and submasters.

More information regarding the keys and faders depicted in the illustration below will be detailed as you read on and learn more about the PRESTIGE 3000.

Prestige™ Series 3000
LEEColortran

Playback Controls
Record Controls
Display Keys
Screen Keys
Playback Faders And Takeover Keys
Position Keypad
Submasters And Bump Buttons
Power Backup/Switch
Wheel
Playback Keys
Control Keypad
Record/Cue Keys
Alpha Keys

Powerful, Versatile With Straightforward Operating Approach.

MAGICSHEET STYLUS

MAGICSHEET (OPTIONAL)

REMOTE VIDEO MONITORS (OPTIONAL)

CRT 1 LOCAL   CRT 2 LOCAL

RECEIVER BOX (OPTIONAL)

PRINTER (OPTIONAL)

A.C.   A.C.

REMOTE BOX (OPTIONAL)

A.C.   A.C.

GO

STOP

A.C.

HAND HELD REMOTE (OPTIONAL)

① ③
② ④

TO MUX. ANALOG DIMMERS

① ②

TO DIMMERS

A.C. OUT

A.C. IN/BACKUP

A.C. IN/MAIN

Just turn the **Key Switch** to on and power up the system. This key switch also lets you access peace of mind; we understand that when the show goes on you only have one chance to get it right, so your Prestige 3000 has optional fully redundant hardware with an on-line tracking back-up. If a system malfunctions during a show, simply turning this switch to "Back Up" lets the duplicate hardware and the powerful memory of the Prestige 3000 take over.

The **dual display** screens are your window into your work on the Prestige 3000. The display keys let you effortlessly access one of the eleven easy-to-read graphic displays. *LEE* Colortran monitors are Ultra High Resolution and, if you choose the 3000C, you'll be struck by one thing — **color**; clean, clear color — for quick reference, to contrast separate fields of information and to clarify system status. The displays of both monitors are user-selectable. Any of the eleven displays can appear on either screen during console operation.

The eight tabs at the bottom of the screen label your color-coded soft keys, located just below the monitor. The soft keys let you access over 80 different system features.

Eleven different displays give you the precise information you need for a specific task. Each independent visual is laid out clearly to let you pick out the data you need quickly. The color graphics let you check the status of different system functions. **Setup**, for example, allows you to tailor the Prestige 3000's features to suit the requirements of the design. The **Stage** visual shows you the status of the channels and levels on stage and lets you alter and record them at will. **Preview** is our checklist; it lets you view and alter any recorded cues without affecting what's going on on stage. Other displays include: **Patch, Profile, Cuesheet, Playback, Group, Submaster, Tracksheet** and **Effect**.

```
CUE  PART  TIME  DELAY  EFFECT  FOLLOW  LINK TO  COMMENT

Q  1         10                                  <OVERTURE - HOUSE FADE>
Q  1.5  P1   20                                  <CURTAIN>
        P2   MAN          E  2
Q  2    P1   20    D  1                           <SNOW BALL FIGHT>
        P2
Q  320       15                   F  15           <PROMENADE>
Q  4         100                           LQ 10
Q  5         MAN                                  <UNLNK IF PREMIER - HOUSE UP>
<SUBS>— 1 — 2 — 3 — 4 — 5 — 6 — 7 — 8 — 9 — 10 — 11 — 12 —
         20%   0%   0%
         FR30 FC30 FL30

<SUBS>— 13 — 14 — 15 — 16 — 17 — 18 — 19 — 20 — 21 — 22 — 23 — 24 —
                                          100%  90%  0%
                                          RR20 RC21 RL22
<FADERS>——— 1 ——————— 2 ——————— 3 ——————— 4 —
NEXT                    Q 3  15 S

CURRENT  Q1.5 P2  MAN           Q 2 P1  10 S      Q 2 P2  9 S

PLAYBACK:
```

```
D001 002 003 004 005 006 007 008 009 010 011 012 013 014 015 016 017 018 019 020
C 1    2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20

D021 022 023 024 025 026 027 028 029 030 031 032 033 034 035 036 037 038 039 040
C 21  22  23  24  25  26  27  28  29  30  31  32  33  34  35  36  37  38  39  40

D041 042 043 044 045 046 047 048 049 050 051 052 053 054 055 056 057 058 059 060
C 41  42  43  44  45  46  47  48  49  50  51  52   1  54  55  56  57  58  59  60

D061 062 063 064 065 066 067 068 069 070 071 072 073 074 075 076 077 078 079 080
C 61  62  63  64  65  66  67  68  69  70  71   1  73  74  75  76  77  78  79  80

D081 082 083 084 085 086 087 088 089 090 091 092 093 094 095 096 097 098 099 100
C 81  82  83  84  85  86  87  88  89  90  91  92  93  94  95  96  97  98  99 100

D101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120
C101   2   2 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120

PATCH:
```

| BY CHANNEL | | | | | | FIND CHANNEL | DELETE CHANNEL |

The **Playback** function display is a color, three-part screen which lays out the status of the current fader, cuesheet and submaster activity. The easy-to-read information is laid out to be clear and precise. As this information appears on your left monitor it provides you with instant reference to immediate and pending cues, so you are always in control and on top of your show.

The **Patch** display permits you to speedily patch up to 800 dimmers to the Prestige 3000's 400 powerful control channels. Once you've set up, this graphic can show you your patch list in either dimmer or channel order, at your preference. Patch can also instantly search for and locate any channel or dimmer you specify. You can find, check and correct your patches quicker than ever.

The **Screen, Record, and Cue** key pads are your fingertip controls for the flexibility of the Prestige 3000. The eight **Screen Keys** are soft keys whose functions are unique and tailored to each of the ten displays. Each of these independent controls is clearly labeled at the bottom of the selected display. Soft keys save clutter on the board since only the keys you need for the work you are doing are present. You'll work faster and more accurately.

The **Record and Cue Keys** are used to store your cues, groups and submasters into the Prestige 3000's electronic memory. You can also modify cue time or delay the start of a fade.
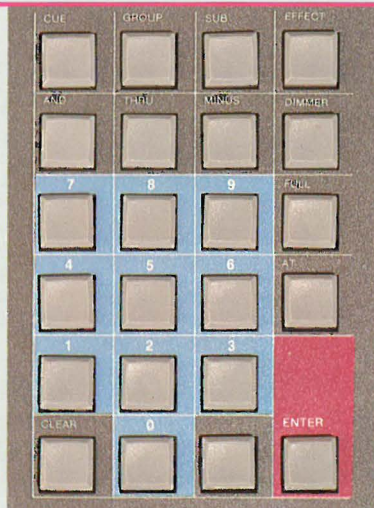
The **Control Keypad** is used to write out and enter commands for the Prestige 3000. You can prepare channel lists, specify output levels and enter numeric data. In addition, this control group lets the operator add to a channel or dimmer list and remove items from those lists. The user can also create subsets of channels, groups or existing cues to be called up and utilized as the foundation for establishing new cues or effects. Any specified list or channel group can thus be used as the building block for a new or repeated design.
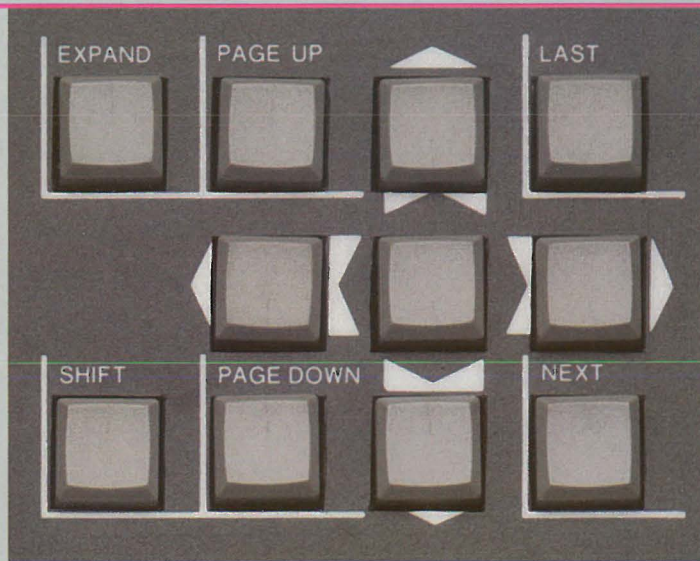
Reviewing your screens or paging through the Prestige 3000's monitors is fast and simple. The **Position Keypad** makes it effortless to move up, down, right and left through the system's displays. It lets you instantly leaf through multi-page displays at the push of a button and step sequentially through lists and dimmer setups during dimmer checks.

The **Expand** key puts a different page on each monitor so you can cross reference quickly and the **Shift** key swaps the pages on the monitors. For convenience these keys are also self-repeating; they zoom through the display for as long as they're depressed.
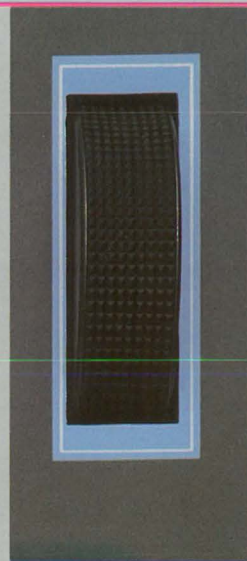
The **Level Wheel's** smooth, rolling action is your tool for adjusting channel levels or fade rates. Moving the wheel up immediately lengthens fade times or brightens channel levels, rotating it down reverses them, a one arc roll is all it takes to go from zero to full or vice versa. Because the influence of the wheel is relative to the fade or level it is being applied to and because it maintains the ratios set into the channels or fades proportionally, the wheel is always as precise as you need it to be. The sensitivity of this control is exceptional; it lets you adjust your fades and levels to perfection.

With our **Alphabetical Keyboard** you can label your designs for quick
reference. By writing notes or names onto submasters and groups
it becomes easy for you to identify a particular plan, either when it
is up on one of the displays or after you've printed it out on paper.
You can leave notes to others concerning a design and title your work
anyway you wish for fast and easy cross referencing.
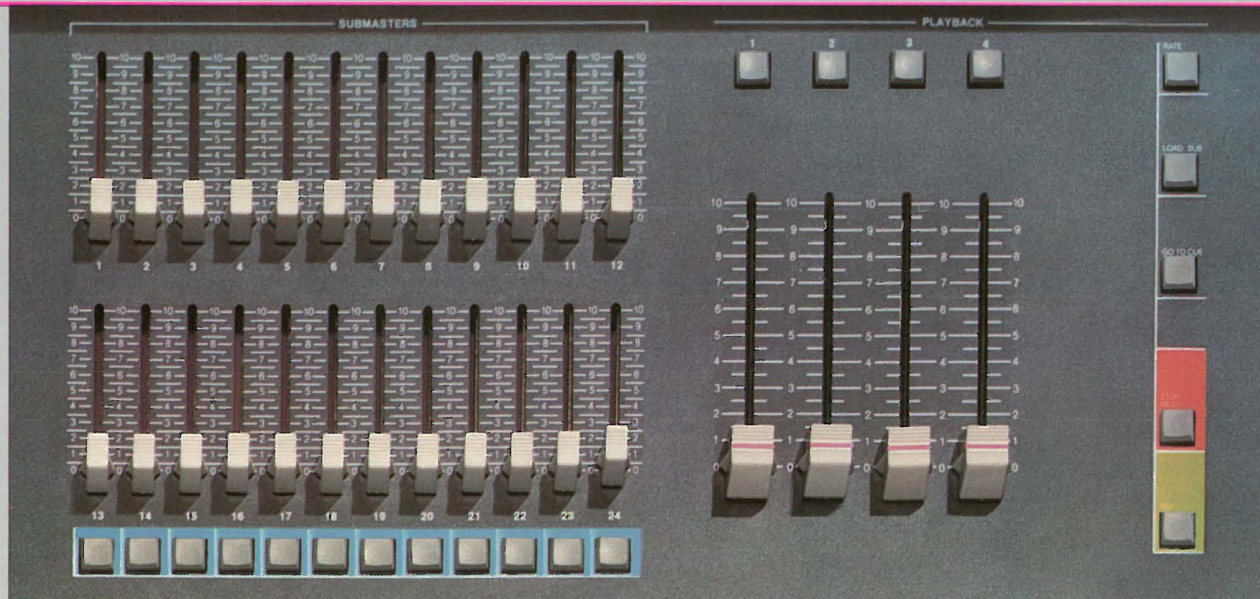
Pushing a pot has always been the fastest way to get lights on and always will be. The 24 **Submaster** faders give you that control for proportionally adjusting the submaster levels up or down. These flexible and sensitive controls are multifunctional; they can be used to add to fades or to inhibit them. The 12 **Bump Buttons,** one for each of the bottom row of faders, allow you to bring the lights up to full at a preset speed with the push of a single button.

Adjusting or intervening in a lighting program is done with the **Playback Controls**. With these keys you can start fades, stop them, delay them, take over manually, or bypass to a given cue. This feature keeps you in control of the Prestige 3000's power and lets you alter the lighting program to fit the show in progress. Because you can instantly take over to revise the design to fit any contingency, you'll always be able to adapt the lights to the performance.

48.5″

5.50″

18.0″
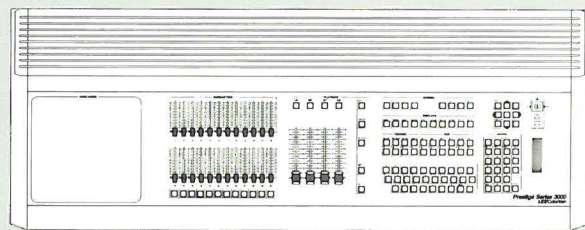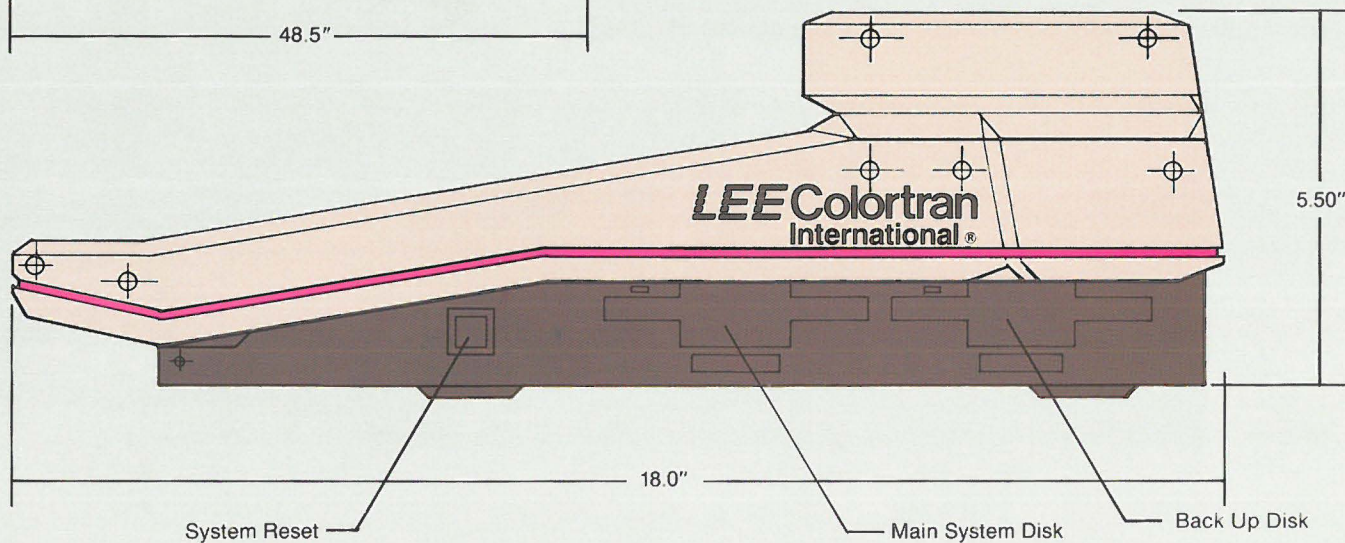
LEEColortran
International®

System Reset

Main System Disk

Back Up Disk
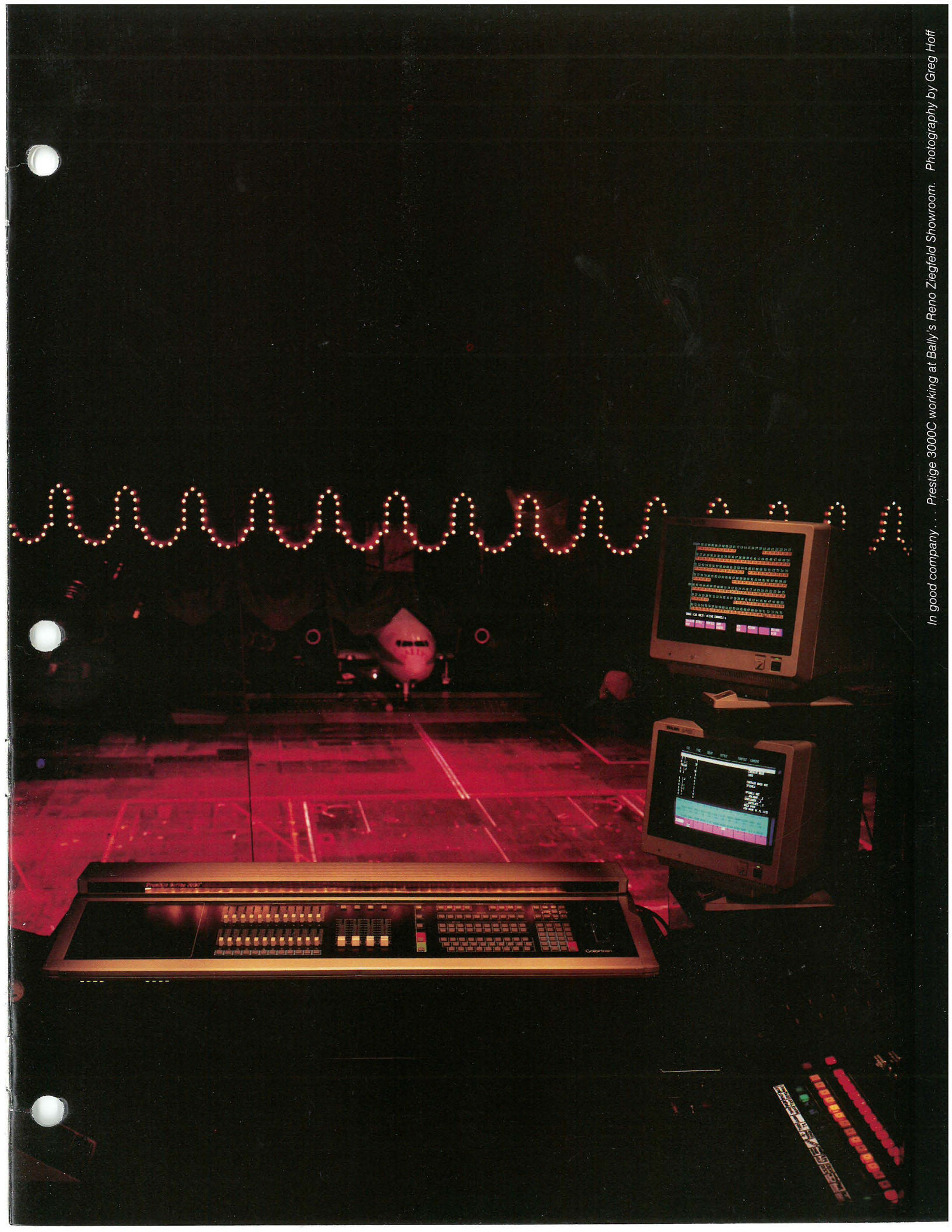
Presttgt Series 3000
LEEColortran

LEE Colortran's PRESTIGE 3000 gives you more with less: more power, more confidence, more features... with less bulk and less weight.

The Prestige 3000 is an easy-to-operate and versatile tool for the lighting professional. The console is logically laid out with record functions on the right and playback functions on the left. This computerized lighting control console is the most powerful system LEE Colortran has ever offered.

The Prestige Series consoles are prime examples of LEE Colortran's commitment to leadership in technology and customer support of production equipment.

Some of the features of the PRESTIGE are: proportional control of channel levels, soft function keys whose definitions change appropriately for each display, manual override of fade times, availability of groups as cue building blocks, 24 fully overlapping pile-on submasters and 12 submaster Bump Buttons, special effects package, direct dimmer control, channel check, 20 selectable dimmer profiles and 3.5 inch micro-floppy disk storage.
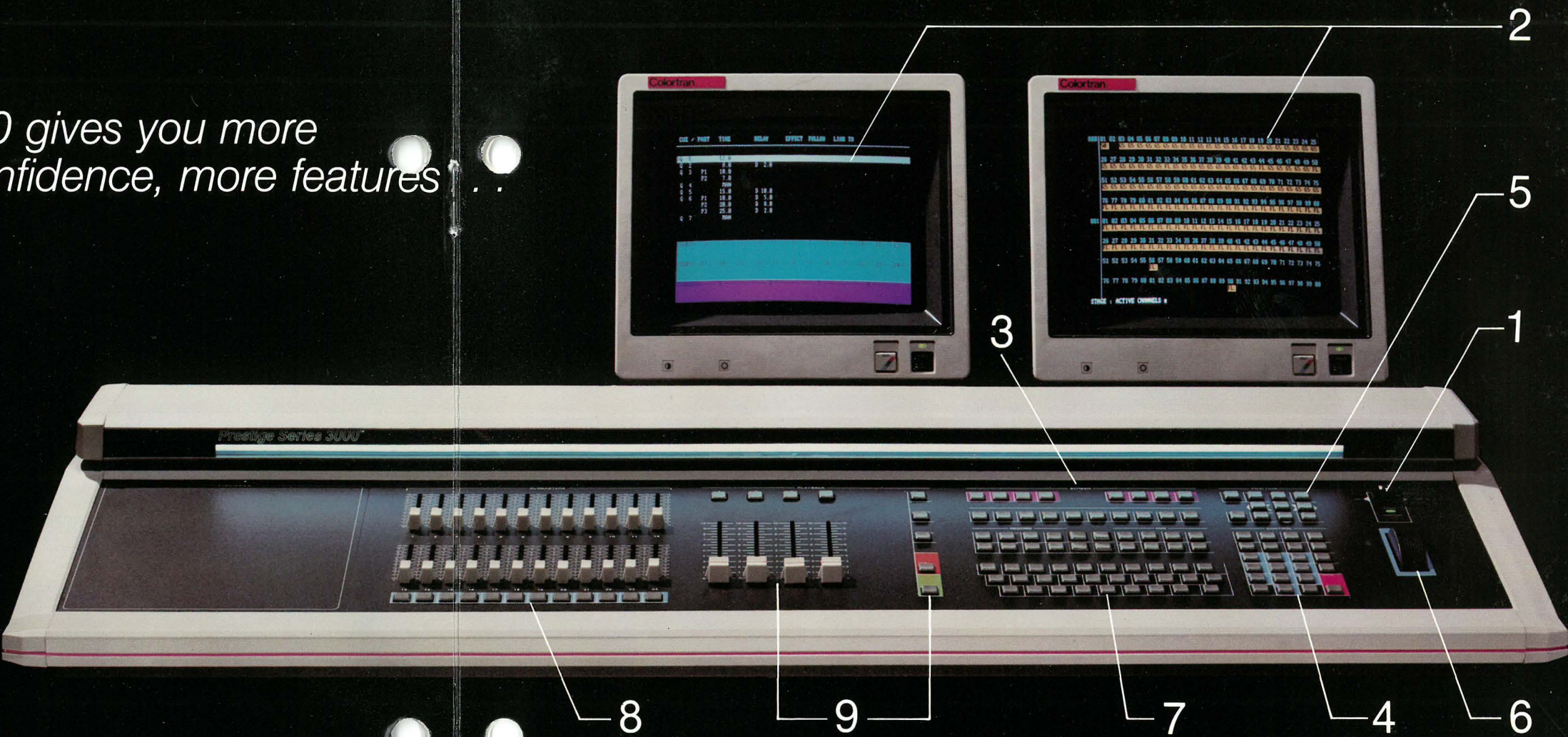
...the future at your fingertips

playback controls — — record controls
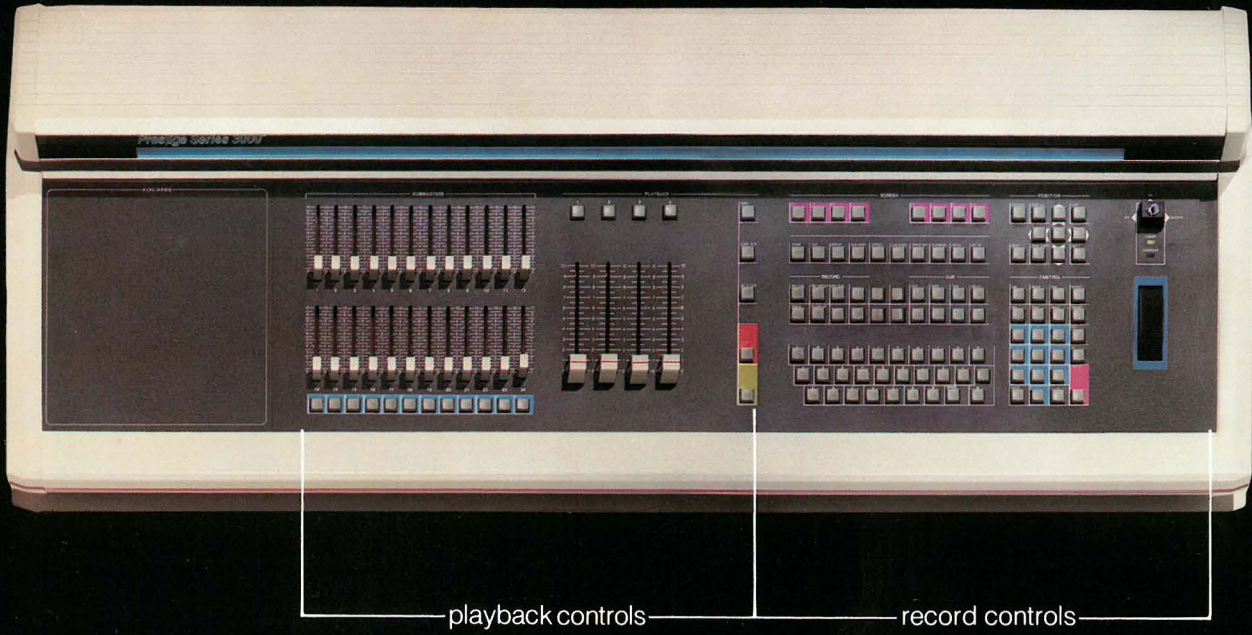
peripherals:

Magic Disk Writer is a stand-alone, portable unit which utilizes Prestige software and allows the user to perform any programming function that could be executed at a Prestige console.

Magic Disk Writer offers the lighting professional increased access to the control system by allowing the setting or modification of cues at a remote location such as an office or hotel room. Although **Magic Disk Writer** does not drive dimmers, many of the details involved with lighting production can be completed before the first technical rehearsal. The designer can save time in the theatre or studio and make better use of valuable pre-production time.

All production information is stored on a 3.5 inch disk and transferred to a Prestige system for operation.

Magic Disk Writer has a standard keyboard port and is also supplied with a printer port. All production information can be printed out for review by the designer when connected to an optional printer.

The **Magicsheet** is the lighting designer's easel. With its stylus and your lighting plot attached to the "smart" pad you can enter your plan directly into the Prestige system. Then with the touch of your stylus you'll be able to access a variety of the extensive features of the control board, from the level wheel to playback to cueing. Once entered, touching your symbols with the pen can call up cues and fades, trigger effects and run through lighting sequence as quickly as you can brush the symbols. Linking up the **Magic Sheet/Designer's Remote** with the main console gives you the ultimate features of the Prestige system from a variety of vantage points. You can review your designs as fast as you create them from the perspective of actor or audience. With the monitor attached to the Magicsheet you can call up the same displays you would in the booth. You'll be faster, more flexible, more creative and less harried than ever before.

Creative,
fast, powerful . . .
unique tools for the designer.

Hand Held Remote
Model No. 168-327

Our Hand Held Remote unchains you from the console. You can stand on stage, plug in and call up lights and check them all on the move; you'll find that very handy for quick setup and focusing of your lights. Also, instead of wondering if your keystrokes were accepted or correct, an LCD display with backlight verifies your entry.

Printer
Model No. 168-324

The Prestige 3000 Printer is a useful accessory. It lets you print copies of the designs you've recorded into the system.

Specifications

PRESTIGE 3000C

A. Description

The Control Console shall be a micro-processor based lighting control system, specifically designed and constructed for the control of theatrical and television dimming systems. The Control Console shall provide for the control of up to 800 dimmers on at least 400 channels. Up to 400 cues and groups may be recorded.

The Control Console shall not require the use of any peripheral device such as a disk drive or a cassette to function. The system operating program shall be stored in a programmable read only memory. In case of power failure, random access memory shall be retained by an automatic battery back-up power supply.

The Control System shall be engineered to provide clarity of operation, incorporating full color visual displays to inform the operator of his/her progress and mode of operation at all times.

The Control Console shall consist of a portable, stylishly designed console, approximately 46 inches long and 17 inches deep, and two detached 12 inch color CRTs with integral tilt and swivel bases. The CRTs shall be detached to allow optimum placement by the user for viewing display information and to allow adaptation to compact lighting booth environments. Larger, permanent consoles and consoles without detachable, adjustable CRT units will not be acceptable.

The CRTs shall be high resolution, graphics quality color monitors with a minimum of 720 dots per line horizontal resolution and 400 lines vertical resolution. Video band width shall be at least 20 MHz for maximum visual clarity and reduced eye strain on user.

The console shall consist of a painted and silkscreened aluminum control panel, extruded aluminum front and rear rails, molded end caps and a sheet metal housing. All electronics shall be securely fastened to the housing and shall be easily removable for servicing.

The control panel shall hinge up from the housing with the release of two captive screws, allowing access to the electronics and power supply. Consoles requiring rear or bottom access or requiring active electronics on the control panel shall not be acceptable.

A 3½ inch, industry standard disk drive shall be used for library storage utilizing environmentally protected, high reliability diskettes with hard plastic cases. "Floppy" 5¼ inch disk drives and diskettes shall not be acceptable.

The Control Console shall be a LEE Colortran Prestige Series 3000C console.

B. Standard Features

The Control Console shall provide, but not be limited to, the following features:

1. Two high resolution, fast refresh color CRTs for display of and access to all channel level, cue sheet, patch, system setup and command line information. Both monitors shall be selectable by the user.

2. A group of ten keys for calling up various displays on the CRTs.

3. A group of eight screen keys for access of up to eight different functions in each of the ten system displays and various sub-displays. These keys shall change function in each display to focus the user's attention on commands which are useful in that display and to reduce congestion of the control surface.

4. A group of position keys for moving up, down, left, or right in various displays, paging up or down in a display, accessing the next or last item in a display and for additional access to the second monitor.

5. An expanded numeric keypad used to enter numeric information and to create channel, cue, group, submaster, and effect lists. An "Enter" key shall be provided to terminate commands and a "Clear" key to delete previous entries.

6. A continuous rotation wheel with non-slip rubber surface and high inertia core for setting levels and adjusting rates.

7. A record keypad for recording levels from stage into cues, groups or submasters.

8. A cue keypad for writing or editing cues, cue parts, cue timing and delays in the cue sheet.

9. A full alpha keyboard with standard QWERTY layout for naming groups and submasters and adding cue comments. The alpha keyboard shall be integral to the console and in close proximity to the numeric keypad, allowing alpha-numeric designations. Consoles with separate alpha keyboards shall not be acceptable.

10. A total of eight timed faders shall be provided — four of which may be operated manually. A rate button shall allow any combination of timed fades to be adjusted on the wheel.

11. A "GO" button for starting cues and a "Stop/Reverse" button for stopping active cues or stepping back one cue. A "Go to Cue" button for taking cues out of sequence.

12. Twenty-four pile-on, overlapping submasters for manual control of complete "stage looks." Cues, groups, and other submasters may be loaded into a submaster to create the desired levels.

13. Twelve bump buttons for instantaneous activation of submasters 13 through 24. Bump buttons may be disabled in "Setup."

PRESTIGE 3000C SPECIFICATION

14. a) A twenty-four submaster backup system with separate processor, memory and power supply

or

b) A fully redundant memory backup system with identical computer, video interfaces, interface electronics, memory, program ROM, disk drive and power supply. The full backup system shall track all changes in the main system. All operational features of the main system are duplicated in the backup.

15. A keyswitch for system "Off," "On," or "Backup" and an indicator for dimmer rack overtemperature shall be provided.

C. Operating Functions

The Control Console shall provide, but not be limited to, the following functions:

STAGE, CUE, GROUP, SUBMASTER

1. The Record Monitor shall provide a comprehensive display of 175 channel levels simultaneously. Additional channels may be accessed with the position keys. Up to 400 channels may be displayed with the use of "Expand." A "command line" shall be displayed indicating the key sequence entered by the user.

2. A channel, cue, group, submaster or effect list or any combination of these lists may be set digitally or on the wheel. Lists may be created using the "and," "thru" and "minus" commands.

3. All channel levels under control of the wheel may be adjusted proportionally even after they reach full.

4. From stage, all levels may be recorded in a cue, cue part, group or submaster. These levels may originate from the keypad, wheel, faders or submasters.

5. Cues may be made to track or not track on an individual basis.

6. Cleanup cues may be specified which will not allow any levels to track through regardless of how subsequent cues are written.

7. A selected dimmer may be placed under control of the wheel for identification purposes. "Next" and "Last" keys select the next or last dimmer.

8. Cues may be recorded in any order. Up to nine cues may be inserted between any two numerically consecutive cues.

9. Each cue may contain up to four parts.

10. The following information may be specified for each cue or cue part:

a) Fade times up to 999 seconds in 0.1 second increments.

b) Delay times up to 999 seconds in 0.1 second increments.

c) Split fade times and split delay times.

d) Manual fade times.

e) Special effects.

f) Automatic follow-on of subsequent cue in up to 999 seconds.

g) Out-of-sequence links.

h) Comments for identification or user prompts.

11. Cues and cue timing information may be previewed and modified blind without affecting stage settings.

12. Levels from previous cues may be used to build following cues without respecifying these levels.

13. Cues may be copied from another cue, renumbered or deleted.

14. Any or all channels may be recorded into a group for proportional balancing, building cues or other groups or loading onto a submaster for pile-on, manual control.

15. Groups may be given either numbers or alphanumeric designations for later recall.

16. Any channels, groups, cues or other submasters may be recorded into a submaster for pile-on, manual control.

17. A comment may be added to a submaster as a reminder of its contents. Submaster comments shall be displayed on the Playback Monitor and the Submaster display.

TRACKSHEET

18. The Record Monitor shall provide a spreadsheet-type display of seventeen cues or cue parts simultaneously, their fade and delay times and the levels of eighteen channels for each cue or cue part. "Expand" shall display up to forty channels simultaneously on both screens. A command line and screen key labels shall also be displayed.

19. The user may specify the channels to be displayed in the track sheet as all channels, a channel list, a group of channels or the active channels in a cue.

20. The user may move through either the cue sheet or through the channel list in the track sheet with the position keys.

21. All level-setting commands may be used to add or modify levels directly in the track sheet. The display shall automatically page to the specified cue and first channel in the channel list.

22. The entire show including all cues, cue times and delays and all channel levels shall be contained in one windowed display.

EFFECTS

23. Special effects may be recorded which consist of a series of steps that repeat in any combination of the following patterns: negative, alternate, reverse, bounce, build and random.

24. A different time may be specified for each effect step up to 999 seconds in 0.1 second increments.

25. A different high level may be specified for each effect step. A low level may be specified for each effect step.

26. Effects may be tested immediately without incorporation in the cue sheet. Effects may be copied or deleted.

PLAYBACK

27. One button shall start an entire cue including cue parts and follow-on cues. No manual loading of faders shall be required.

28. Up to eight cues may be run simultaneously.

29. The Playback Monitor shall provide a display of the cue sheet, the cue currently on stage, the levels and names of submasters, the cues loaded on each fader and remaining fade or delay time for each fader.

30. Any cue or cue part may be stopped, reversed or converted to manual operation. The speed of any cue may be adjusted proportionally with the wheel.

31. Cues may be played out of sequence in a specified time.

32. A channel or group of channels may be stopped and controlled manually on the wheel.

33. The faders, submasters, bump buttons and wheel shall operate on "highest-takes-precedence."

PATCH

34. An electronic patch shall be provided to allow each channel to control one or more dimmers, and must be able to perform in the following three manners.

35. The patch may be displayed "by channel" indicating the list of dimmers under control of each channel. Dimmers may be added or deleted. A "find dimmer" command shall locate the dimmer in the channel list.

36. The patch may also be displayed "by dimmer" indicating which channel controls each dimmer. Channels may be changed or deleted. A "find channel" command shall indicate all dimmers controlled by the specified channel.

37. Dimmers may be changed or unpatched at any time during operation of the system.

SETUP

38. A setup display shall allow the user to set and preview the number of channels and dimmers, preview the number of cues or groups remaining, enable or disable the optional Designer's Remote and Hand Held Remote and enable or disable the bump buttons and submaster display.

39. "Record Disk," "Load Memory" and "Clear Memory" commands shall be provided.

40. Commands for printing cues, cue sheet, groups, submasters, effects, track sheet, patch, dimmer profiles, backup and stopping the printer shall be provided for an optional printer.

41. A display for setting and previewing the levels of the twenty-four backup submasters shall be provided.

42. A display for setting and previewing twenty assignable dimmer fade profiles shall be provided.

43. It shall be possible to select dimmer protocol. The Prestige shall output the *LEE* Colortran digital signal or DMX-512, the USITT digital signal.

44. Any display may be selected to appear on either of the two monitors for the purpose of comparing cues, groups, submasters or any other displays. Changes made in the main display shall be reflected on the secondary display.

D. Prestige 3000C Alternate (Prestige 3000)

Two high resolution monochrome CRTs with integral tilt and swivel bases may be substituted for the two color CRTs described above. The CRTs shall be graphics quality amber monitors with a minimum of 1000 dots per line horizontal resolution and 360 lines vertical resolution. Video band width shall be at least 20 MHz for maximum visual clarity and reduced eye strain for the user.

The system shall have the following optional equipment to plug in directly. No additional hardware or software shall be necessary:

Printer
Designer's Remote/Magic sheet
Hand Held Remote

LEE Colotran International's manufacturing and distribution centers in the United States, Europe, and Far East provide superior sales and service to lighting customers around the world.

Pooling resources of the major manufacturing facilities and distribution centers in the United States, Europe and Far East which comprise *LEE* Colortran allows *LEE* International PLC to achieve a more complete vertical integration and strengthen its leadership in the lighting industry.

LEE COLORTRAN, INC. in the United States places *LEE* at the forefront of lighting technology with its development of advanced computerized dimming and control systems. This company also provides an important international network of distributors and agents who are instrumental in building *LEE* Colortran into an industry leader.
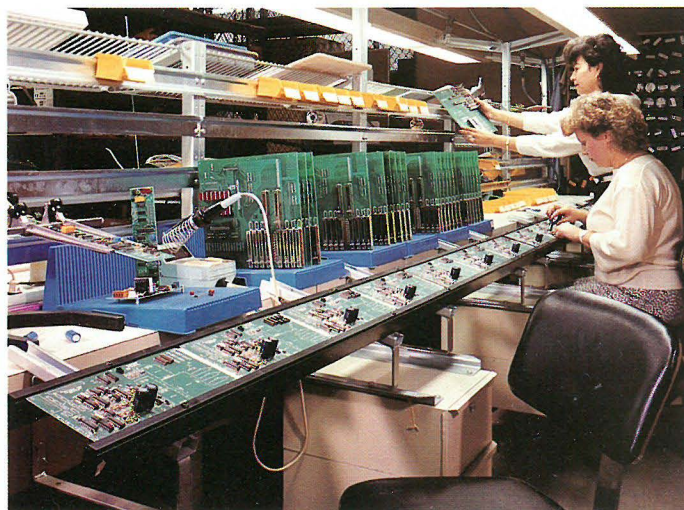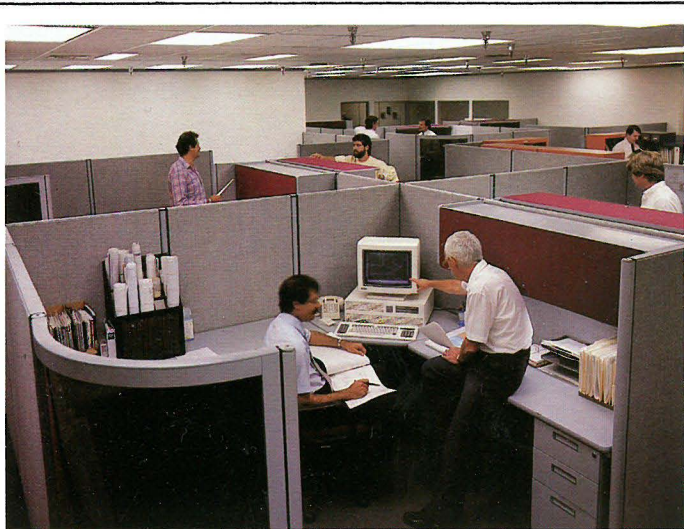
LEE COLORTRAN LTD. which has manufacturing operations in Manchester and Thetford, England, produces a range of specialized lighting equipment and computerized control systems for film, television and theatre. Its policy is one of continued improvement as exemplified by a ''state-of-the-art'' research and development department. In that area top-flight development engineers monitor current technical advances and assure that equipment meets the highest standards of reliability and performance. The group's excellence was recognized this year by the Academy of Motion Picture Arts and Sciences which awarded it a coveted Technical Achievement Award for the design and development of an electronic flicker-free discharge lamp control system.

LEE COLORTRAN GMBH in West Germany contributes its incomparable expertise in the design and manufacture of location lighting equipment. This facility is responsible for sales and reliable service to Europe and the Eastern Bloc countries.

LEE COLORTRAN Hong Kong is responsible for sales and service to the complete Asian market, offering regional technical support capability in servicing this rapidly expanding area of new business.

LEE COLORTRAN France with sales offices in France, Spain and Austria serves the film, television, theatre and architectural industries. Its Mole Richardson low-voltage lighting line, developed and manufactured in France, is making a major impact in the architectural world.

Through concern for their customers and dedication to the lighting industry these *LEE* Colortran locations are committed to maintaining a reputation for excellance.