

Document Data Sheet

LD90 User's Manual Text

Utilities button



Strand Lighting Part #:	Bogus
Bound Part Number:	Bogus
Boxed Part Number:	Bogus
Current Revision Level:	PRE
Written By:	Don Lammers
Original Release Date:	11/4/91
Current Revision By:	Don Lammers
Current Revision Date:	11/23/93

Revision History

Rev.	Date	Reason
PRE	11/4/91	Initial release for review.

Notes

This document is a master document created using Word for Windows 6.0.

This document is formatted for two sided reproduction. All blank pages are on purpose.

This document has tags for automatic Index generation.

Printer/Font Data

This document requires Windows 3.1 TrueType fonts, and PostScript Type 1 fonts. The easiest way to accomplish this is to have Adobe Type Manager on your system to handle the Type 1 fonts

Serifa is a BitStream Speedo Font converted to Adobe Type 1, and is used only in the Strand Lighting logos and copyright notices.

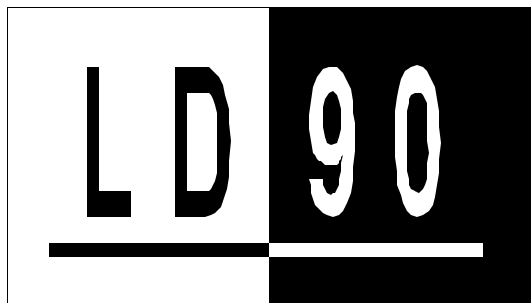
Archive Data

Master document = ld90user.doc

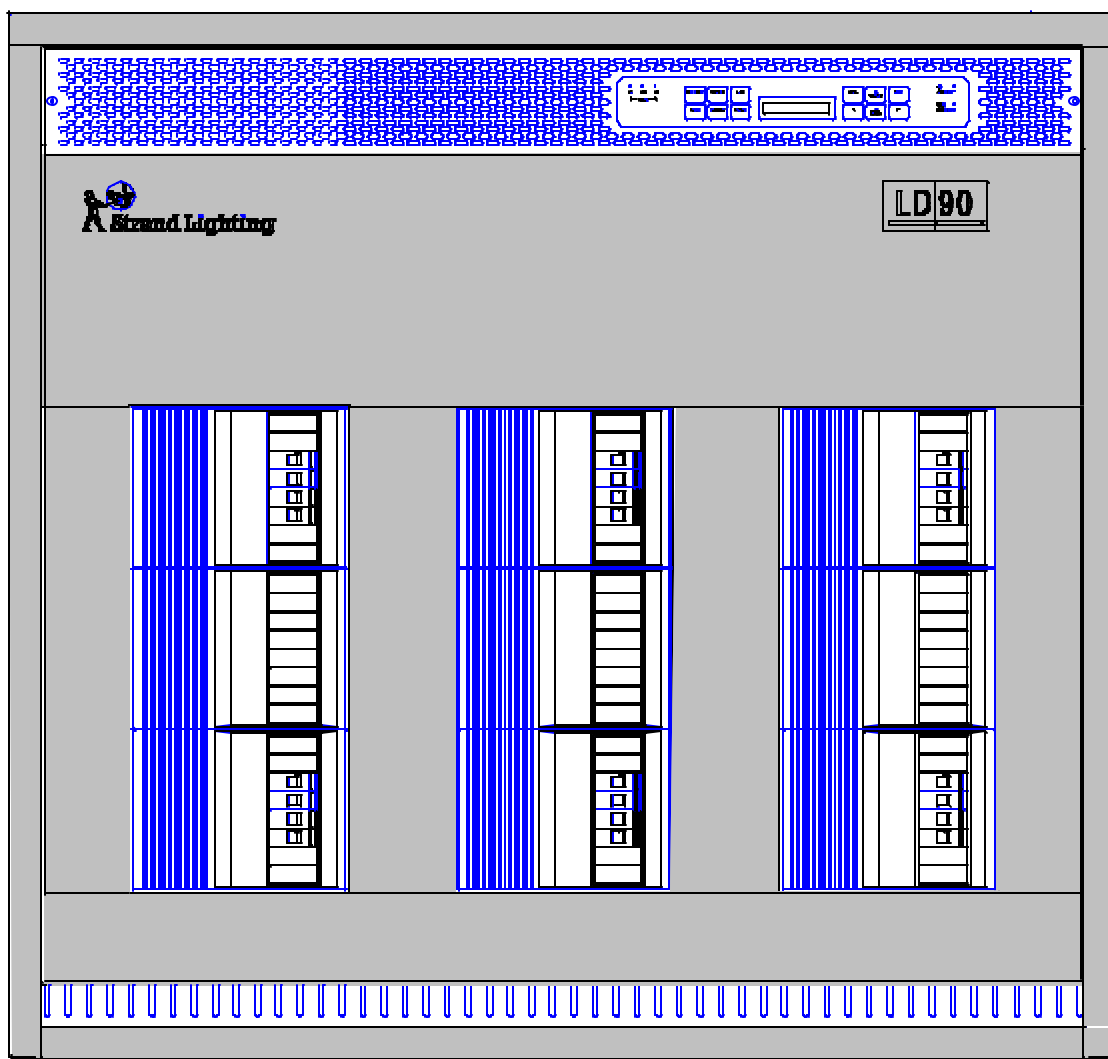
Template = ld90user.dot

Chapters = ld90appn.doc, ld90desc.doc, ld90inst.doc, ld90intr.doc, ld90main.doc, ld90ref.doc

Graphics =



User's Manual



Boxed Manual (w/software)
Bound Manual Part #:
Revision Level:
Revision Date:
Written By:

Bogus
Bogus
PRE
11/23/93
Don Lammers

The material in this manual is for information purposes only and is subject to change without notice. Strand Lighting assumes no responsibility for any errors or omissions which may appear in this manual. For comments and suggestions regarding corrections and/or updates to this manual, please contact your nearest Strand Lighting office.

El contenido de este manual es solamente para información y está sujeto a cambios sin previo aviso. Strand Lighting no asume responsabilidad por errores o omisiones que puedan aparecer. Cualquier comentario, sugerencia o corrección con respecto a este manual, favor de dirigirlo a la oficina de Strand Lighting más cercana.

Der Inhalt dieses Handbuches ist nur für Informationszwecke gedacht, Aenderungen sind vorbehalten. Strand Lighting uebernimmt keine Verantwortung für Fehler oder Irrtuemer, die in diesem Handbuch auftreten. Für Bemerkungen und Verbesserungsvorschlaege oder Vorschlaege in Bezug auf Korrekturen und/oder Aktualisierungen in diesem Handbuch, moechten wir Sie bitten, Kontakt mit der naechsten Strand Lighting-Niederlassung aufzunehmen.

Le matériel décrit dans ce manuel est pour information seulement et est sujet à changements sans préavis. La compagnie Strand Lighting n'assume aucune responsabilité sur toute erreur ou omission inscrite dans ce manuel. Pour tous commentaires ou suggestions concernant des corrections et/ou les mises à jour de ce manuel, veuillez s'Il vous plait contacter le bureau de Strand Lighting le plus proche.

IBM® and PC-DOS® are registered trademarks of the International Business Machines Corporation.
Microsoft® and MS-DOS® are registered trademarks of Microsoft Corporation.

Copyright 1993, Strand Lighting. All rights reserved.

Information contained in this document may not be duplicated in full or in part by any person without prior written approval of Strand Lighting. Its sole purpose is to provide the user with detailed operational information for the equipment supplied. The use of this document for all other purposes is specifically prohibited.

Strand Lighting offices (phone numbers do not include country code or other international access data):

Asia: 7/F., Corporation Square, 8 Lam Lok Street, Kowloon Bay, Hong Kong	Tel: 757-3033 Fax: 757-1767
Canada: 2430 Lucknow Dr., Unit 15, Mississauga, Ontario L5S 1V3 Canada	Tel: (905) 677-7130 Fax: (905) 677-6859
France: 26 Villa Des Fleurs, 92400 Courbevoie, France	Tel: 1-478-86666 Fax: 1-433-37175
Germany: P.O. Box 4449, 3300 Braunschweig, Germany	Tel: 5-331-30080 Fax: 5-331-78883
Italy: 80 Via delle Gardenie (Pontia Vecchia KM 33,400), 00040 Pomezia-Roma, Italy	Tel: 6-919-7123/4/5/6 Fax: 6-919-7136
U.S. East Coast: 20 Bushes Lane, Elmwood Park, NJ 07407 U.S.A.	Tel: (201) 791-7000 Fax: (201) 791-3167
U.S. West Coast: 18111 South Santa Fe Ave., Rancho Dominguez, CA 90221 U.S.A.	Tel: (310) 637-7500 Fax: (310) 632-5519
United Kingdom: Unit 2 Grant Way, Isleworth, Middlesex TW7 5QD United Kingdom	Tel: 081-560-3171 Fax: 081-568-2103

Table of Contents

Introduction	1
Manual Organisation.....	1
The LD90 Dimmer.....	2
Glossary and Abbreviations	3
Technical Assistance	5
Problems	5
Technical Questions	5
Parts Purchases	5
Comments and Suggestions	5
Addresses	5
Manual Applicability.....	5
Product Features	5
Power Circuits	6
General Dimmer Features	6
Power Input	6
Control Inputs	7
User Interface	7
Programmable Features per rack.....	7
Programmable Features per Mux Input	7
Programmable Features per dimmer	7
Building Blocks and Accessories	8
Product Codes	8
Physical Description.....	9
Rack Layout.....	9
Typical Power Block (2.5kW, Single Pole).....	10
Installation	11
General Information	11
Installation Planning.....	11
Location	11
Ventilation.....	12
Typical weights.....	12
Dimensions.....	12
Placement and Fixing.....	13
Installation Procedure	14
Installing Power Blocks (Non-factory configured racks).....	15
Power Connections.....	16
Three Phase.....	17
Single Phase.....	17
Load Connections.....	18
Phase Orientation	18
Wiring the loads	18
Control Signal Connections	21
DMX512 / SMX and SWC Control Wiring.....	22
D54 Control Wiring	24
Analogue Input Wiring	24
Analogue Output Wiring	25

Testing the system after Installation	26
Before Switching Power On	26
Testing After Power On.....	26
Rack Setup Procedure	27
The SET menu.....	27
Setting Language.....	28
Setting Rack Number.....	28
Setting Maximum Output Voltage.....	29
Setting Phase Type	31
Setting Minimum Dimmer Levels	31
Return to Default Settings.....	32
Fluorescent dimmer mode Set-up.....	33
Multiple Rack Installations.....	35

Reference 37

Navigating the System.....	37
The Keypad and Display.....	37
Keypad Lock.....	38
Power up Display.....	38
Indicators	38
System Default Settings	39
Function Keys & Menu Levels	40
Checking Default (Factory) Settings	42
The Mux Input Key.....	43
The Non-Dim Key.....	44
Basic Operation.....	44
The Curve Key.....	45
Basic Operation.....	45
The Patch Key.....	46
Basic Operation.....	46
Advanced Operation	49
The Response Key.....	50
Basic Operation.....	51
Advanced Operation	51
The Preset Key.....	52
Basic Operation.....	52
Advanced Operation	53
The Level Key.....	53
Basic Operation.....	54
Advanced Operation	55
User Messages.....	55

Appendix 57

Control Signal Path Diagram.....	57
Summary of LD90 Parameters.....	58
Mechanical Data	59
Typical Weights	59
Fluorescent Relay Drive output connection details	59

Index..... 61

Index

A

Abbreviations, 3

C

Circuit identifier, 3
Comments, 5
Conductor size, 13
Control Signal Path Diagram, 57
Curve, 3

D

Default, 3
Default settings, 39
Dimmer curve, 3
DIN rail, 9
Display, 38

E

Earth, 13

F

Fixing, 13
Fluorescent Relay, 59

G

Glossary, 3

H

HTP, 3
Humidity, 12

I

Installation
 Connections
 3-phase, 16
 Analogue, 24
 Control Signals, 21
 Load, 18
 Single Phase, 16
 Dimensions, 12
 Dimmer protocols
 D54, 24
 DMX512, 22
 SMX, 22
 Installation kit, 11
 Location, 11

Multiple Racks, 35
Phase Orientation, 18
Planning, 11
Power Blocks (Non-factory configured racks), 15
Rack Setup, 27
 Fluorescent dimmer mode Set-up, 33
 Minimum Dimmer Level, 31
 Return to Default Settings, 32
 Setting Language, 28
 Setting Output Voltage., 29
 Setting Phase Type., 31
 Setting Rack no., 28
SWC, 22
Ventilation, 12

K

Keypad
 Conventions, 37
 Indicators, 38
 Law key, 45
 Level key, 53
 Lock, 38
 Mux Input, 43
 Non-Dim Key, 44
 Patch Key, 46
 Preset Key, 52
 Response key, 50

L

Law, 3
Layout
 Power Block, 10
 Rack, 9
Level, 3

M

Maximum O/P voltage, 3
Menu Levels, 40
MUX, 3

N

Name, 3
NoMux state, 3
Non-dim, 3

O

Overtemperature, 38

P

Parts purchases, 5
Patch, 3
Phase, 3
Preset, 4
Preset fade time, 4

R

Rack number, 4
Rack Setup, 27
RCD, 4
Response, 4

S

Software Versions, 5
Suggestions, 5
Summary of LD90 Parameters, 58
SV90, 4
SWC, 4

T

Technical Questions, 5

U

USITT, 4

W

Wall bracket, 13
Weights, 59

