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External Cavity Tunable LD Light Source Unit

MLS-8000

OPERATION MANUAL

santec

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Notes to Users

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Introduction

Thank you very much for your having purchased our product, Multi-channel Light Source Rack MLS-8000. This Operation Manual contains information necessary for the operation of MLS-8000, and it is indented for those with sufficient knowledge enough to conduct the evaluation of laser danger and its safe control. Before operating MLS-8000, you should first read thoroughly this Operation Manual and become familiar to its contents. After reading this Operation Manual, keep it at your fingertip for easy reference at any time.

NOTE !

The packing materials and box of this product are needed for long-term storage or transportation, therefore, keep them even after unpacking this product.

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General Description

Constitution of this Operation Manual and How to Read it
This Operation Manual should be read before operating MLS-8000.
This Operation Manual consists of 13 chapters, and the contents of each are as follows:
Chapters 1 through 8 describe the outline of the product, notes on safety, and installation of the product.
Chapter 9 describes how to operate the product. Before reading Chapter 9, you should read the descriptions from Chapter 1 through Chapter 8.
Chapter 10 explains information on the communication function such as to control MLS-8000 from the outside.
Chapters 11 and 12 describe the maintenance and storage methods of this product.
Chapter 13 describes troubleshooting in operation.

NOTE !

Before using this product, read this Operation Manual first.
This instrument uses a semiconductor laser. Caution-Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

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Marking on the instrument



This indicates that caution is required.
Please refer to the operation manual.

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Explanation of Terms

The meanings of the following terms used in this Operation Manual are defined as below:

(1) Meaning



DANGER --- This indicates pressing DANGER, and if it is not avoided, personnel death or serious injury results, therefore, it is the most emphasized special information.



WARNING --- This indicates potential danger, and if it is not avoided, personnel death or serious injury may result, therefore, it is a special information.



CAUTION --- This indicates potential danger, and if it is not avoided, middle or slight injury may result, therefore, it is a special information. Or it indicates potential danger leading to only physical damage.



NOTE --- This indicates supplementary explanation of the text, and thus other information than DANGER, WARNING, and CAUTION.

(2) Importance of Information

From the above meanings, the priority of the terms here are as shown below:

DANGER > WARNING > CAUTION > NOTE

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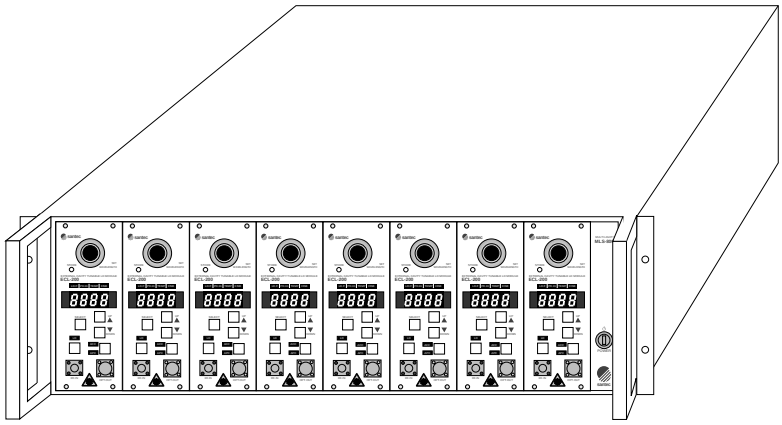
Outline of Product

MLS-8000 is a power source rack for multi-channel light source.
Up to eight channel light source units may be loaded on MLS-8000, and it enables to configure your optimized multi-channel light source by combination of various light source units.
And MLS-8000 is equipped with GP-IB for communication, by which it is possible to totally control respective light source units externally.

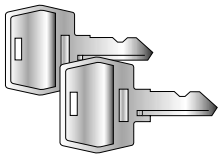
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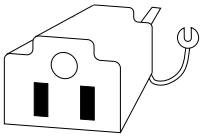
2 Configuration



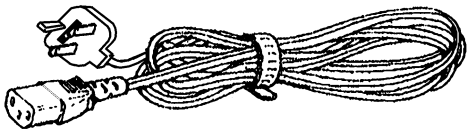
MLS-8000 mainframe 1 unit



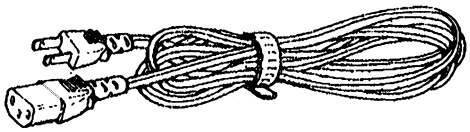
Power key 2 keys



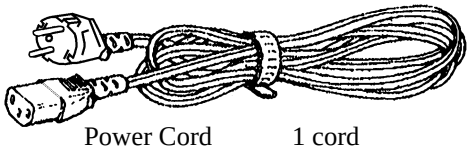
2P-3P Adapter 1 unit
(Japan only)



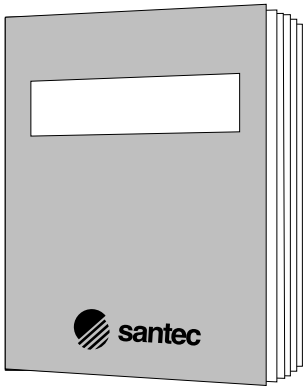
Power Cord 1 cord
(U.K. only)



Power Cord 1 cord
(Japan, USA, Canada and other countries.)



Power Cord 1 cord
(Europe only)



Operation Manual (this document) 1 copy

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Specifications (Standard Specifications)

	Spec
Maximum number of light source units	8 units
Output power source	± 8V 0.7A x8
	± 5V 2.0A x8
Maximum power consumption	200W
Communication	GP-IB
Selectable power supply voltage	AC 100V/120V/230V/240V
Power supply frequency	50Hz/60Hz
Power consumption	AC 100V/120V 72VA AC230V/240V 92VA
Operating temperature range	25±5 °C
Maximum relative humidity	80%
Polution Class	2
Over-voltage category	II
Dimensions	450 x 460 x 140 (W x D x H)
Weight	21kg

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4 Principle of Operation

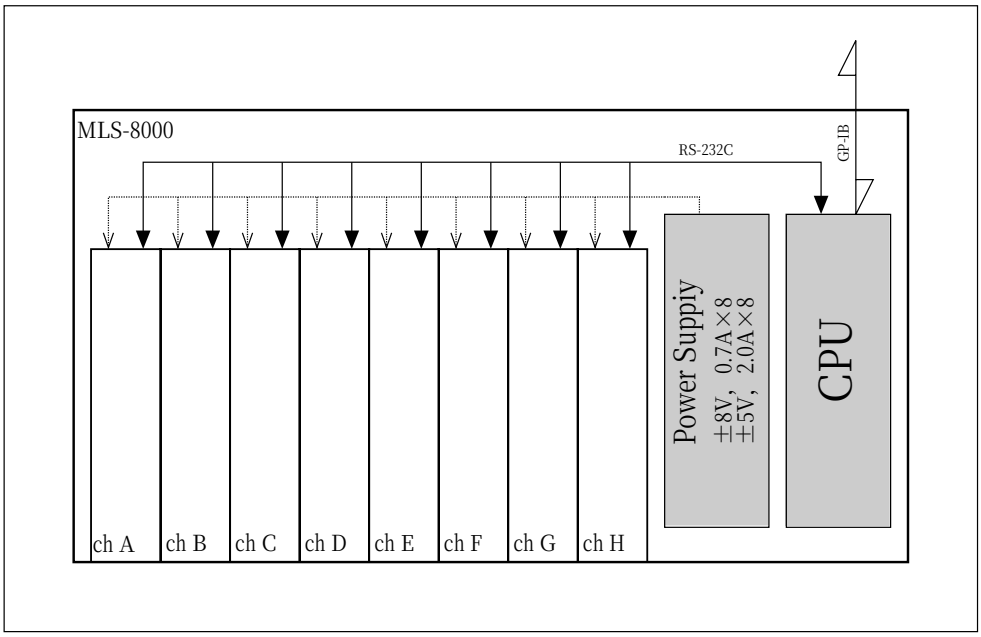


FIG.1 Structure diagram of MLS-8000

FIG.1 shows the structure of MLS-8000.
MLS-8000 is a power source rack for multi-channel light source.
Up to eight channel light source units may be loaded on each slot of MLS-8000, and it supplies power source to each light source unit.
And MLS-8000 is equipped with a communication CPU board, by which it is possible to totally control respective light source units externally. The CPU board and respective light source units are connected via RS-232C.

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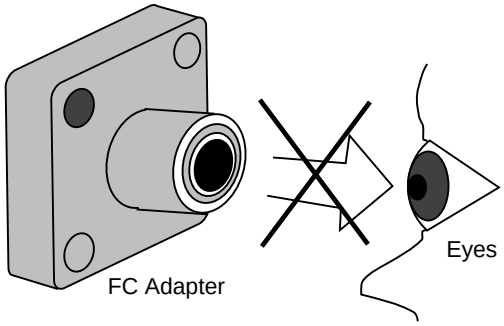
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5 Safety Notes and Safety Devices

Pay attention to the following for your safe operation without trouble in unit.

DANGER!!

This product employs a semiconductor laser. Laser beam may cause injury of your sense of sight, if it comes into your eye. It is very dangerous. Therefore, pay sufficient attention in handling it. And do not look into the light output terminal while the laser is operating.



CAUTION

To turn OFF this product, be sure to disconnect the power cord.

In the event of any of the following, make sure that the injection current of LD of each unit is 0, turn OFF the main switch, and then disconnect the power cord.

- Spilling liquid into this product
- Rain getting into this product, or excessive humidity
- Cleaning or moving this product
- Bedewing in this product

Pay attention always on the following:

- Avoid impact or shock.
- Keep this product away from water.
- Do not disassemble this product.
- Do not place anything on this product.
- Do not stuff up the ventilation hole or fan of this product.
- Avoid placing this product under direct sunlight.
- Avoid placing this product in a place full of dust, dirt, salt, corrosive gas.
- Avoid placing this product in a place subject to noise by electric field, magnetic field and so on.
- Avoid placing this product in a place subject to high temperature and high humidity.

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6 Installation

Pay attention to the following for your safe installation without trouble in unit.
This product is a high-precision device, so avoid placing it in the following places:

- Do not place in direct sunlight.
- Do not place under high temperature and high humidity.
- Do not place in an environment with dust, dirt, salt, or corrosive gas.
- Do not place in an area subject to large vibrations.
- Do not place in an area subject to noise by electric field, magnetic field, etc.
- Do not place in an area where the unit is subject to falling objects landing on it.
- Do not place with possible exposure to water.

Install MLS-8000 on a level place.
The mainframe of MLS-8000 weighs about 20 kg. Make sure that a desk or so on which it should be installed has sufficient strength.
There is a heat dissipating fan at the rear of MLS-8000, therefore secure clearance over 5cm at the rear side for air ventilation.
It is recommended to install this product on vibration-proof base.

Before connectiong power cord

- **Set the Power Voltage**
  Open the lid of power input portion of the rear panel, and switch the power voltage to your desired voltage by turning the rotary switch.

- **Power fuse**
  It is necessary to exchange fuses in accordance with power voltage.
  In the case of power voltage AC100V/120V T6.0A/125V
  In the case of power voltage AC230V/240V T3.15A/250V

- **Power cord connection**
  This product uses a 3-line power cord and plug with a protective ground line. Power cord may be attached and detached. Connect it to the power source socket at the rear panel.

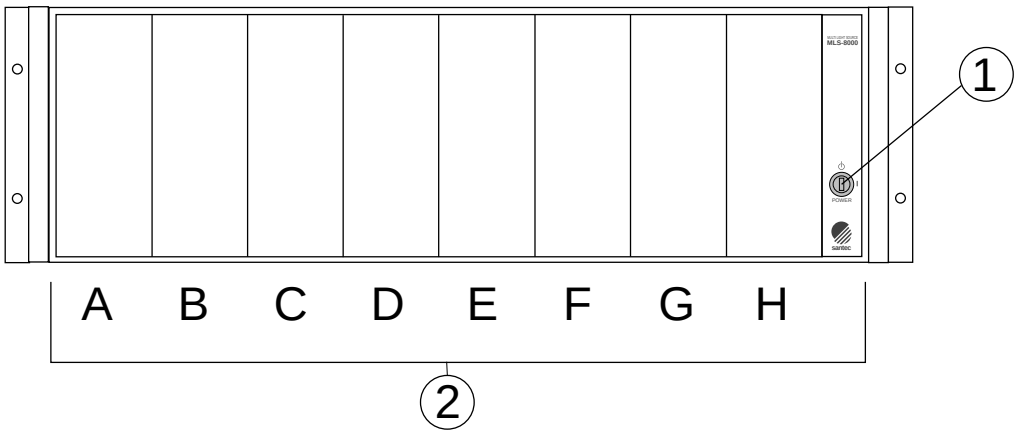


This product is grounded by the ground line of the power cord. Insufficient grounding may cause electric shock, which is very dangerous. To avoid electric shock, be sure to arrange grounding.

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7 Descriptions of Panel Equipment

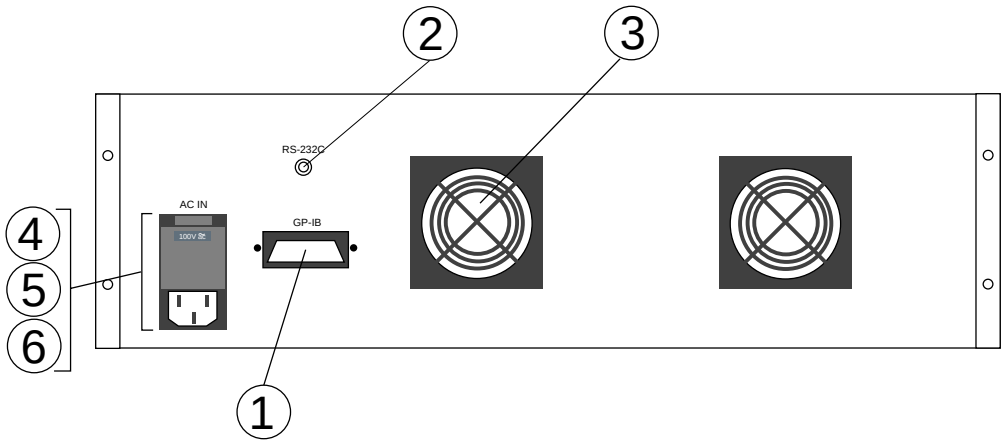


1) Main switch

This is the switch to turn ON/OFF the power source. Switch it by using the power source key.

2) Light source unit insertion slot

Eight light source units may be loaded on ch A through ch H.

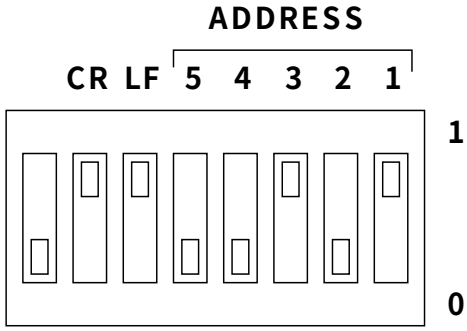


1) GP-IB connector

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2) GP-IB address setting switch

This sets GP-IB address and delimiter.
Changes in setting of GP-IB address and delimiter are read in when the unit is turned on once again or "IFC" is received.
In the following setting, it follows delimiter : CR/LF, address : 5.

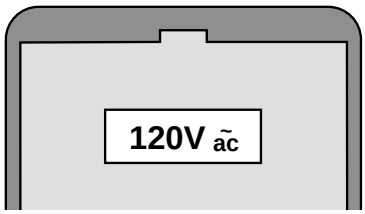


3) Fan

This is a heat dissipating fan. Secure clearance over 5cm at the rear side for air ventilation.

4) Power voltage indication pan

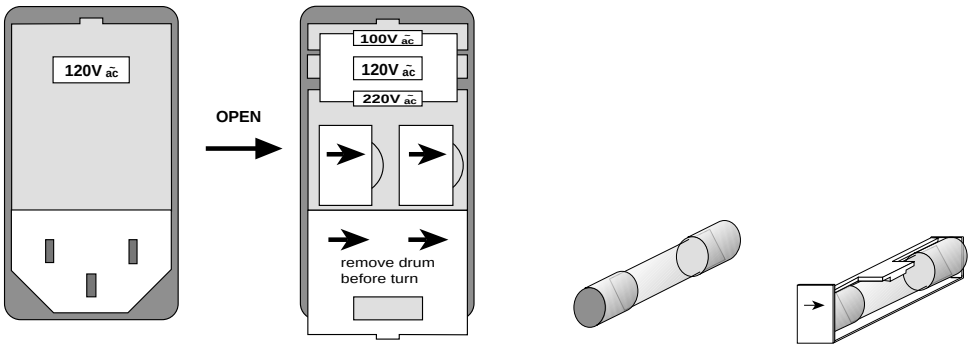
It changes when the inside rotary switch is changed. Supply the voltage that is currently indicated. After changing the power voltage, be sure to confirm and change the fuses.



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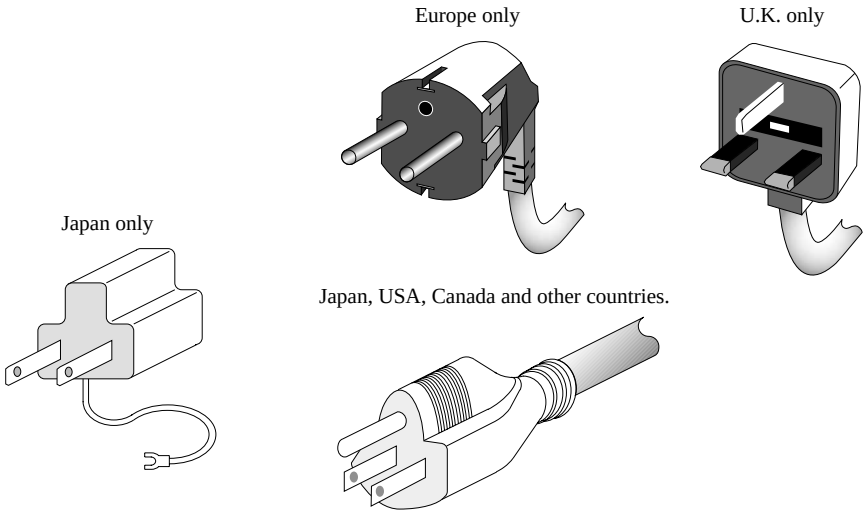
5) Power voltage change switch and fuse box lid

Opening this lid enables to exchange fuses and change the power voltage.
Insert it with the arrow mark on the lid on the right position.



6) Power source socket

Use the attached power source cable.



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8 Functions of This Unit

Communication function

MLS-8000 is equipped with a communication CPU board, by which it is possible to totally control respective light source units externally. The CPU board and respective light source units are connected via RS-232C.

Low-noise power source

MLS-8000 is the power source rack for multi-channel light source.
Low-noise power source is employed so as to make the most of the performance of loaded light source units.

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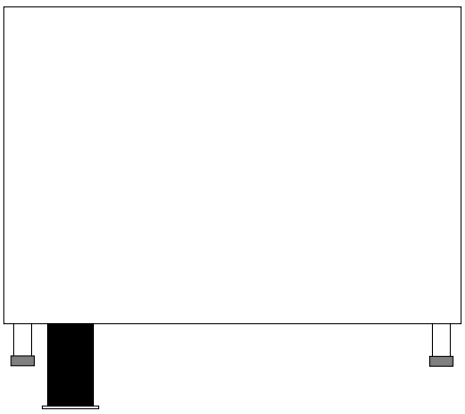
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9 Fundamental Operation

9-1 Contents of Fundamental Operation

9-1. Inserting Light Source Unit

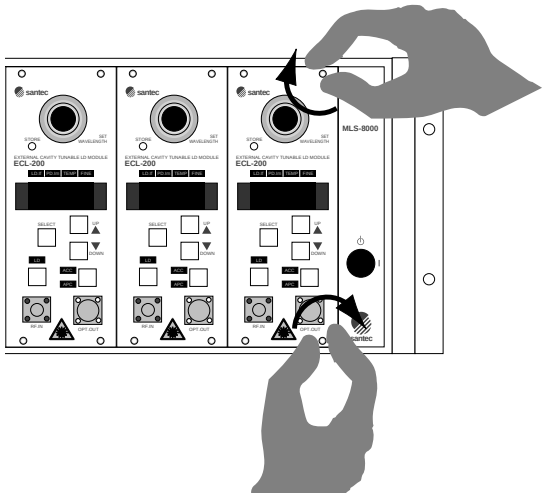
Before turning ON the unit, insert the light source unit to any of ch A through ch H.



CAUTION

1) Be sure to insert the light source unit while the unit is turned OFF. Attaching or detaching the unit while power is ON may damage the mainframe and the light source unit.
2) Do not insert other light source unit than specified to MLS-8000.

After inserting the light source unit, fix the light source unit secure with the attached fixing screws.

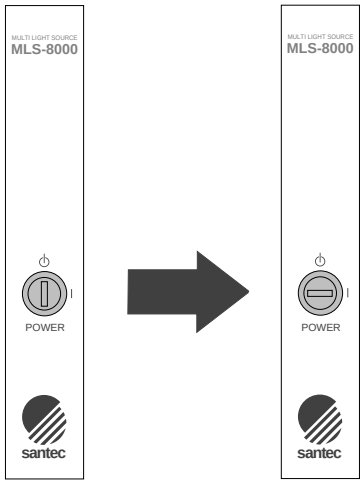


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9-2. Turning Power ON

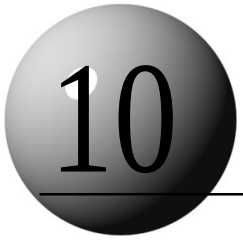
Confirm the power voltage, and supply AC power source through the attached power source cord.

Turn the power source key 90 degrees to the right to turn the power ON.



POWER.OFF POWER.ON

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10 Communication

CAUTION

Before connecting or disconnecting the communication connector, be sure to turn OFF this product. Otherwise, a fault may result.

MLS-8000 supports GP-IB for communication function, and it enables to control loaded light source units from the outside.

Each light source unit to be loaded on MLS-8000 has RS-232C communication function, and communication commands peculiar to each unit.

MLS-8000 integrates these light source units and control communication (GP-IB).

Accordingly, command executional methods and data taking manners vary slightly from the case of communication control on only each unit of light source unit.

10-1 GP-IB

1) Outline

GP-IB stands for General Purpose Interface Bus. GP-IB has almost the same standard as buses called HP-IB, IEEE-488, and so on. GP-IB is an easy-to-operate interface with excellent expendability to parallel connect control computer, measuring device, and the like. GP-IB consists of 16 signal lines and 8 ground lines, and 8 signal lines are used as data lines, 3 of which are used for handshaking, and the remaining 8 lines are used as control lines. Each connected device has 1 or 2 statuses out of 3 statuses, that is, controller, talker (sender), and listener (receiver). Controller is basically a single system, and there must be only one controller, but it is possible to transfer its right as controller to other device. However, most of computers today are controllers themselves, therefore, each device is designated as talker or listener, and then data are sent and received and controlled on bus.

2) How to Use

In GP-IB, it is necessary to set address per each device to be connected. Addresses are from 0 to 30, and each of all the devices connected should has an identical address. Connect devices with GP-IB cable and turn the system on.

Note : Do not disconnect or connect a cable from and to devices connected with GP-IB cable, do not short-circuit connector, and do not turn ON/OFF the devices. Otherwise, action may be stopped, error may occur, causing a failure. In the event of trouble owing to these causes, reset all the connected devices, and then activate the system once again. When to configure a system, remove unused device or unnecessary cable from the initial stage.

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3) GP-IB Function

GP-IB has 10 kinds of interface functions, each of which has its grade to be called sub set. O after the symbol of each function shows support is not made, and each numeric value represents grade.

Symbol	Function	TSL-200 Sub Set
SH	Source handshake	SH1: all functions
AH	Acceptor handshake	AH1: all functions
T	Talker	T8: basic talker, listener release by MLA
L	Listener	L4: basic listener, talker release by MTA
TE	Expanded talker	TE0: none
LE	Expanded listener	LE0: none
SR	Service request	SR0: none
RL	Remote / local	RL1: switching of remote/local, local lockout
PP	Parallel port	PP0: none
DT	Device trigger	DT0: none
DC	Device clear	DC1: all functions
C	Controller	C0: none

10-2. GP-IB of MLS-8000

10-2-1. Setting of Address and Delimiter

Address and delimiter are set by use of GP-IB address setting switch at the rear panel of the mainframe.

*Refer to Chapter 7.

10-2-2. Device Clear Function

When DCL (Device Clear) is executed, MLS-8000 and respective light source units loaded thereon are reset.

10-2-3. Commands

There are commands to MLS-8000, and those to light source units loaded thereon.

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1) Commands to MLS-8000

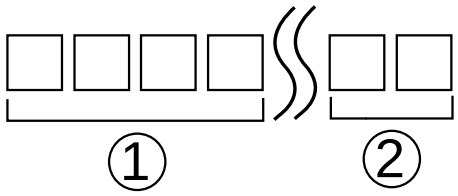
Commands to MLS-8000 consist of 2 alphabetical characters and there is no difference between upper case letters and lower case ones.
There prepared are commands to change the internal conditions, and commands to change the output data and the control data. In the case to change only the output data, only commands of 2 alphabetical characters are sent out. In the case to change the control data, value data after 2 alphabetical characters are sent out.

HD : Adds a unit identification header when data is taken out by variable "1".

Makes invalid the addition of a unit identification header when data is taken out by variable "0".
Output variable send back the unit insertion condition.

MI : The name and serial number of each unit is sent back by variables A through H. When variables are omitted, the unit that is accessed last become the object.

Commands and data formats are shown below.

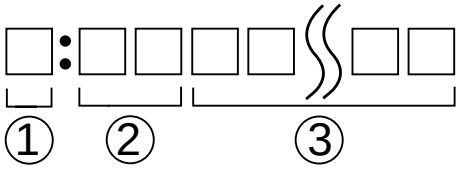


(1) Commands to MLS-8000, consisting of 2 alphabetical characters
(2) Expanded portions of data or commands in the case of addition of data to commands

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2) Commands to inserted units

Commands to inserted units are used by adding the identification code of inserted units to the head of command of unit to be controlled.
Identification codes of inserted units are A through H in the order of insertion from the left. Commands and data formats are shown below.



(1) Identification code of light source unit
(2) Commands to light source units, consisting of 2 alphabetical characters
(3) Expanded portions of data or commands in the case of addition of data to commands

10-2-4. Taking Out Data

When a command to change output data is executed, output variable changes.
When a correct command is received and data is requested, the data of command that is executed is selected and output. Until the next output data change command is sent out, the output data will retain the current status. When a wrong command is received, "NR" is output in response to data request. Then, when a correct command is received, "NR" output disappeared.
When data of command to unit is taken out, a unit identification code may be added as a header.

NOTE

In communication (RS-232C) of a single unit of light source unit, when a command is executed, 2 characters of command are echoed back, but in the case of communication (GP-IB) on MLS-8000, 2 characters of command are not echoed back.
Therefore, there is no need to use "DI" command that is used in taking out data.

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10-2-5. Sample Program

Here is a sample program by N88BASIC in NEC-9800 series.
The current to ECL-200 loaded on the identification code A is changed by 1mA step from 0 to 150 mA, and monitor current value is read.

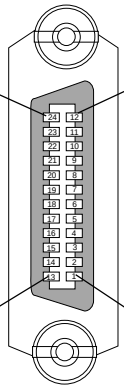
Description

```
1000  ISET IFC :ISET REN        Sends out "IFC" signal. Sets "REN" signal to TRUE.
1010  PRINT@1;"A:AF"            Changes the identification code A to ACC mode.
1020  PRINT@1;"A:LO"            Supplies current to LD of the identification code A.
1030  FOR I=O TO 150 STEP 1     Varies the current by 1 mA step from 1 to 150 mA, and reads the monitor current.
1040  PRINT@1;"A:CU"+STR$(I)    Sets the supplied current of the identification code A.
1050  PRINT@1;"A:IM"            Sets the output variable of the identification code A to monitor current.
1060  INPUT@1;MON.A$            Reads the monitor current of the identification code A.
1070  NEXT
1080  STOP
```

10-2-6. GP-IB Connector

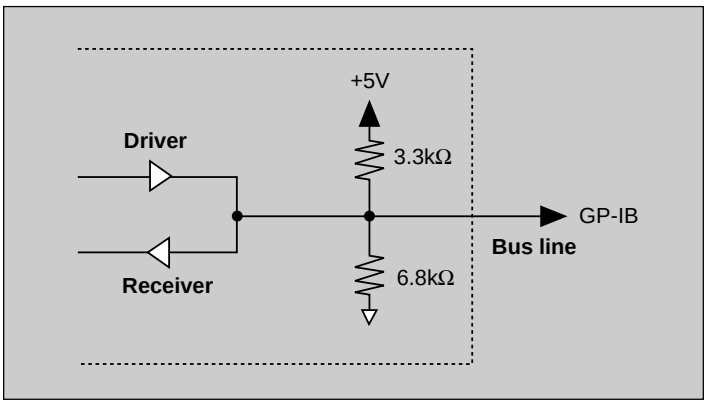
GP-IB connector pin arrangement

Signal name	Pin No.
Gnd, LOGIC	24
Gnd, (ATN)	23
Gnd, (SRQ)	22
Gnd, (IFC)	21
Gnd, (NDAC)	20
Gnd, (NRFD)	19
Gnd, (DAV)	18
REN	17
DIO 8	16
DIO 7	15
DIO 6	14
DIO 5	13



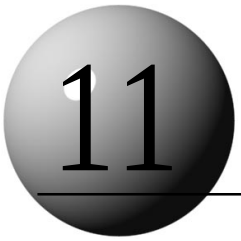
Pin No.	Signal name
12	SHIELD
11	ATN
10	SRQ
9	IFC
8	NDAC
7	NRFD
6	DAV
5	EOI
4	DIO 4
3	DIO 3
2	DIO 2
1	DIO 1

End of signal line



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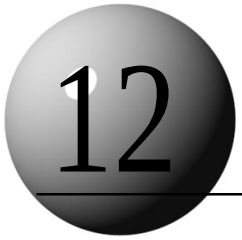
11 Maintenance

Daily Maintenance

As for daily maintenance, turn the unit off, disconnect the power source cord, and wipe the unit with dry and soft cloth. Do not use any chemical (acetone, alcohol, liquid cleanser). Otherwise, painting may be damaged. And, do not wipe the display panel excessively. Otherwise, failure may result.

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12 Long-term Storage

Here are some instructions on long-term storage of this product.

NOTE

Recycling the packing materials will help repackage this product, so keep the packing materials.

Notes before Storage

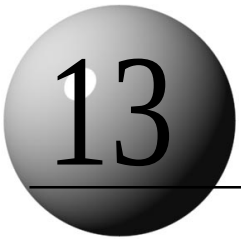
1) Wipe away dust, dirt, finger print, other stain on this product.
2) Use the packing materials for packing.
3) Avoid storing this product in the following places:
   - Place subject to direct sunlight
   - Place under high temperature and humidity
   - Place full of dust, dirt, salt, corrosive gas
   - Place under vibration
   - Place subject to noise from electric field, magnetic field, etc.

Note on Transportation

This product is a high-precision device, so avoid any shock or impact, and observe the above notes before storage prior to transportation.

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13 Troubleshooting

WARNING!

In the event of any trouble with this product, turn the unit off in accordance with the procedures to shut off the power described in this operation manual, disconnect the power source cord, make sure the product name and serial number described on the name plate of the product, and then contact our dealer at your place or directly contact us at Santec Photonics Laboratories. Our telephone number and facsimile number are shown below. However, we are not responsible for any trouble arising from your own repair or modification on this product.

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