

LEADER

LV 7800-01

REMOTE CONTROLLER

INSTRUCTION MANUAL

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1. INTRODUCTION

Thank you for purchasing this LEADER instrument. To use this instrument safely, read this instruction manual thoroughly, and make sure that you know how to use the instrument properly.

If some point about the operation of this instrument is still unclear after you have read this instruction manual, refer to the contact information on the back cover of the manual to contact LEADER, or contact your local LEADER agent.

After you have finished reading this manual, keep it in a convenient place so that you can refer to it when necessary.

1.1 Scope of Warranty

This LEADER instrument has been manufactured under the strictest quality control guidelines.

LEADER shall not be obligated to furnish the following free services during the warranty period.

1. Repair of malfunction or damages resulting from fire, natural calamity, or improper voltage applied by the user.
2. Repair of an instrument that has been improperly repaired, adjusted, or modified by personnel other than a factory-trained LEADER representative.
3. Repair of malfunctions or damages resulting from improper use.
4. Repair of malfunctions caused by devices other than this instrument.
5. Repair of malfunctions or damages without the presentation of a proof of purchase or receipt bill for the instrument.

This Warranty is valid only in Japan.

1.2 Power Supply Voltage



WARNING

Confirm the voltage of the commercial power source before you connect the power plug. The operating voltage range of this instrument is 90 to 250 V. Only use a power source that supplies a voltage within the operating voltage range and has a frequency of 50/60 Hz.

1.3 Trademarks

Windows is a registered trademark of Microsoft Corporation in the United States and/or other countries.

2. SPECIFICATIONS

2.1 General

The LV 7800-01 can be connected to the Ethernet port on the rear panel of the LV 5800/7800 and used to control the LV 5800/7800 remotely. You can control the LV 5800/7800 remotely using the same panel operations that you would use to control it normally.

2.2 Features

- Control over the Ethernet

The LV 7800-01 makes long-distance remote control over the Ethernet possible.

- Identical Operations Synchronized to the LV 5800/7800 Panel

You can perform the same operations using the LV 7800-1 that you can perform using the LV 5800/7800 panel. You can use the LV7800-01 as if you have the LV 5800/7800 panel right in front of you. Also, the operations that you perform affect the LV 5800/7800 immediately.

2.3 Specifications

2.3.1 Control

Supported Models	LV 5800 (FW Ver. 6.3 and later) LV 7800 (FW Ver. 1.3 and later)
Connection	Telnet communication over Ethernet (DHCP is not supported.)
Function	Controls the LV 5800/7800 by sending control codes. Shows LED indications based on LED data received from the LV 5800/7800.
Connection Settings	
Settings	IP Address Subnet Mask Default Gateway Destination IP Address
Setting Method	Set from a PC application (included with the LV 7800-01) Set from the connected LV 5800/7800
Factory defaults	Hold down V POS and H POS while turning on the power.
IP Address	192.168.0.2
Subnet Mask	255.255.255.0
Default Gateway	0.0.0.0
Destination IP Address	192.168.0.1

2. SPECIFICATIONS

2.3.2	Panel	
	Key LEDs	All LEDs are lit dimly. The LED of the selected key is lit brightly. (All the LEDs are off when the LV 5800/7800 is off.)
	Power LED	Lights when the LV 7800-01 is on.
	Ethernet LED	Lights when a connection has been established between the LV 7800-01 and the appropriate LV 5800/7800.
2.3.3	Rear Connectors	
	Ethernet Port	
	Compliant Standard	IEEE802.3
	I/O Connector	RJ-45
	Function	Sends key codes and receives LED data
	Type	10Base-T/100Base-TX
	USB Port	Type B
	Specification	USB 2.0
	Function	Used to set the IP addresses.
2.3.4	General Specifications	
	Environmental Conditions	
	Operating Temperature	0 to 40 °C
	Operating Humidity	85 % RH or less (no condensation)
	Operating Environment	Indoors
	Operating Altitude	Up to 2,000 m
	Overvoltage Category	II
	Pollution Degree	2
	Power Requirements	
	Voltage	90 to 250 VAC
	Frequency	50/60 Hz
	Power Consumption	8 W max.
	Dimensions	482 (W) × 44 (H) × 110 (D) mm (excluding protruding parts)
	Weight	1.2 kg
	Accessories	Power cord 1 Cover/inlet stopper 1 PC application (CD)..... 1 Instruction manual 1

3. NAMES AND FUNCTIONS OF PARTS

For explanations of each key, see the LV 5800/7800 instruction manual.

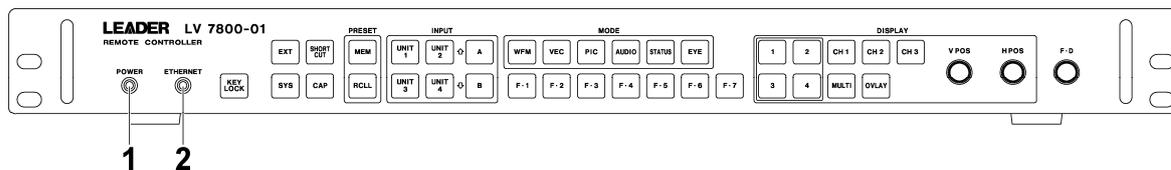


Figure 3-1 Front panel



Figure 3-2 Rear panel

Table 3-1 Names and functions of parts

No.	Name	Function
1	POWER LED	This LED lights when the LV7800-01 is on.
2	ETHERNET LED	This LED lights when a connection has been established with the LV 5800/7800.
3	ETHERNET	After you use this connector to connect to the LV 5800/7800, you can control it remotely. Also, the LV 5800/7800 key operations affect the LV 7800-01.
4	USB	After you use this connector to connect to a PC, you can set the LV7800-01 IP address and other settings from the PC. Use the PC application that comes with the LV 7800-01 (IPAddressWriter) to configure the settings.
5	Serial number name plate	The serial number is engraved here.
6	Ground terminal	Use this terminal to connect the instrument to an external ground.
7	Power inlet	AC power inlet.

4. PROCEDURE

4.1 Configuring the LV 5800/7800

4.1.1 Checking the Version

You can only use the LV 7800-01 to control the LV 5800/7800 if the LV 5800/7800 firmware version is as indicated below.

Table 4-1 LV 5800/7800 versions

Model	Firmware Version
LV 5800	6.3 or later
LV 7800	1.3 or later

You can check the firmware version in the system information display (see the figure below) or in the startup display.

You cannot control a LV 5800/7800 whose firmware version is earlier (whose firmware number is lower) than the versions listed above. In such a situation, contact your local LEADER agent.

SYS → **F-5** SYSTEM INFORMATION →

LV5800: MULTI MONITOR						
Board:0.0:1.1 Firmware:6.3						
UNIT1 : LV58SER01A SDI Input Unit						
Board:1						
UNIT2 : LV58SER02 EYE Pattern Unit						
Board:3						
UNIT3 : NONE						
UNIT4 : LV58SER40 Digital Audio Unit						
Board:0						
UNIT5 : NONE						
UNIT6 : NONE						
						up menu

Figure 4-1 System information display

4.1.2 IP Address Settings

To set the LV 5800/7800 IP Address in the ETHERNET display, follow the procedure below.

1. Press **[SYS]** → **[F•2]** PLATFORM SETUP → **[F•3]** NEXT.

The ETHERNET display appears.

GENERAL SETUP	ETHERNET	REMOTE	LV7800-01
LV5800 ETHERNET SETUP			
Network Select		<input type="checkbox"/> DHCP	<input checked="" type="checkbox"/> IP
Time Server Select		<input type="checkbox"/> ON	<input checked="" type="checkbox"/> OFF
TCP / IP		Time Server	
IP Address		IP Address	
192 . 168 . 0 . 1		[] . [] . [] . []	
Subnet Mask			
255 . 255 . 255 . 0			
Default Gateway			
[] . [] . [] . []			
MAC ADDRESS			
00:00:00:00:00:00			
COMPLETE	PREV	NEXT	CANCEL

Figure 4-2 ETHERNET display

2. Set Network Select to IP.

The LV 7800-01 does not support DHCP. DHCP is enabled in the LV 5800/7800 factory default settings.

3. Specify the IP addresses.

The LV 5800/7800 factory default IP address is 192.168.0.1. If you use the factory default settings for the LV 7800-01 and the LV 5800/7800, you do not have to perform the operations in section 4.2, “Configuring the LV 7800-01.” Use the factory default settings if you want to connect the LV 5800/7800 and the LV 7800-01 in a one-on-one connection.

If you want to connect multiple LV 5800/7800s and control them alternately or if you want to set a specific IP address, change the values here.

4. Press **[F•1]** COMPLETE.

The settings are confirmed, and the system menu appears.

5. Restart the LV 5800/7800.

The Ethernet settings are valid after you restart the LV 5800/7800. You do not need to restart the LV 5800/7800 if you did not change any values in step 2 or 3.

4.2 Configuring the LV 7800-01

Before you connect the LV 7800-01 to the LV 5800/7800, you need to configure the following settings.

- IP Address
- Subnet Mask
- Default Gateway
- Destination IP Address

You can configure these settings from a PC using the PC application that comes with the LV 7800-01, or you can configure them from the LV 5800/7800 if a connection has been established between the LV 7800-01 and the LV 5800/7800.

If the LV 5800/7800 IP address is set to 192.168.0.1 and the LV 7800-01 is set to its factory default settings, you do not need to configure the settings in this chapter. Proceed to section 4.3, “Control.”

4.2.1 Factory Default Settings

The LV 7800-01 factory default settings are listed below.

Table 4-2 Factory default settings

Item	Factory Default
IP Address	192.168.0.2
Subnet Mask	255.255.255.0
Default Gateway	0.0.0.0
Destination IP Address	192.168.0.1

To return the LV 7800-01 to its factory default settings, turn it on while holding down V POS and H POS.

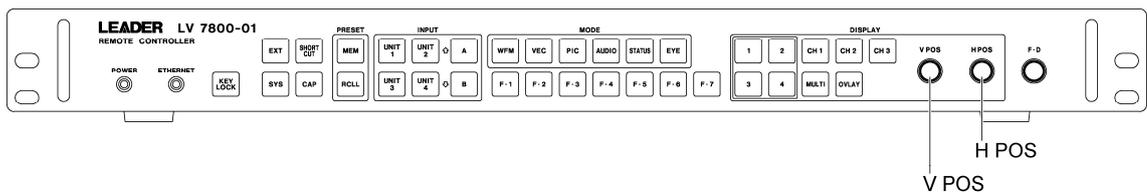


Figure 4-3 V POS and H POS

4.2.2 Configuring the LV 7800-01 from a PC

To set the IP addresses of the LV 7800-01 from a PC, follow the procedure below. You will need the following items to set the IP addresses.

Table 4-3 Necessary Items for Setting the IP Addresses

Item	Notes
LV 7800-01	—
PC application	Comes with the LV 7800-01
PC	Windows XP or Vista, CD-R drive
USB cable	USB (A) male - USB (B) male

1. Use a USB cable to connect the LV 7800-01 to the USB port of a PC.
2. Turn on the LV 7800-01.
The LV 7800-01 does not have a power switch. Connect the power cord.
3. Insert the included CD into the PC, and start IpAddressWriter.exe.
The IP Address Writer PC application starts.

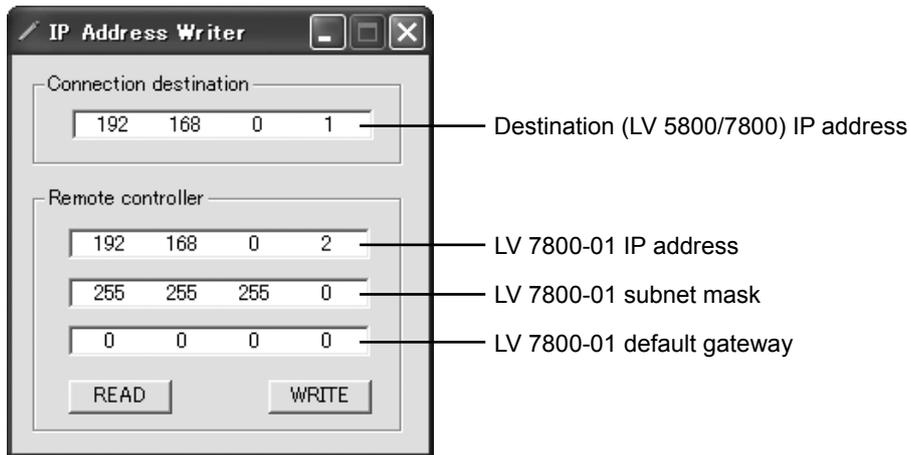


Figure 4-4 IP Address Writer

4. Enter the various values, and then click WRITE.
You can load the current settings of the LV 7800-01 by clicking READ.

4.3 Control

To use the LV 7800-01 to control the LV 5800/7800 remotely, follow the procedure below.

1. Turn on the LV 7800-01 and the LV 5800/7800.

The LV 7800-01 does not have a power switch. Connect the power cord. The POWER LED lights when you turn the LV 7800-01 on.

2. Connect the Ethernet ports of the LV 7800-01 and the LV 5800/7800 using an Ethernet cable.

The LV 7800-01 does not come with an Ethernet cable.

The ETHERNET LED lights when a connection is established between the LV 7800-01 and the LV 5800/7800. If the ETHERNET LED does not light, double-check section 4.1, "Configuring the LV 5800/7800," and section 4.2, "Configuring the LV 7800-01."

After the Ethernet cable is removed, the ETHERNET LED remains on for a while.

- Control

You can control the LV 5800/7800 remotely from the LV 7800-01 while the ETHERNET LED is lit.

You can also control the LV 5800/7800 directly. When you do so, the LV 5800/7800 key operations affect the LV 7800-01.

- Notes

- You cannot control multiple LV 5800/7800s from a single LV 7800-01 at the same time.
(You can connect multiple LV 7800-01s to the LV 5800/7800 and use them at the same time.)
- You cannot connect USB memory or headphones to the LV 7800-01.
- You cannot turn the LV 5800/7800 on and off from the LV 7800-01.
- When you connect the LV 7800-01 to the LV 5800, the KEY LOCK and SHORT CUT keys are invalid.
- When you connect the LV 7800-01 to the LV 7800, you cannot adjust the volume from the LV 7800-01.

Following information is for Chinese RoHS only

所含有毒有害物质信息

部件号码: LV 7800-01



此标志适用于在中国销售的电子信息产品, 依据2006年2月28日公布的《电子信息产品污染控制管理办法》以及SJ/T11364-2006《电子信息产品污染控制标识要求》, 表示该产品在使用完结后可再利用。数字表示的是环境保护使用期限, 只要遵守与本产品有关的安全和使用上的注意事项, 从制造日算起在数字所表示的年限内, 产品不会产生环境污染和对人体、财产的影响。产品适当使用后报废的方法请遵从电子信息产品的回收、再利用相关法令。详细请咨询各级政府主管部门。

产品中有毒有害物质或元素的名称及含量

部件名称 Parts	有毒有害物质或元素 Hazardous Substances in each Part					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
实装基板	×	○	○	○	○	○
主体部	×	○	○	○	○	○
开关电源	×	○	○	○	○	○
线材料一套	×	○	○	○	○	○
外筐	○	○	○	○	○	○
附件	○	○	○	○	○	○
包装材	○	○	○	○	○	○

备注)
○: 表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T11363-2006 规定的限量要求以下。
×: 表示该有毒有害物质或元素至少在该部件的某一均质材料中的含量超出SJ/T11363-2006 标准规定的限量要求。

LEADER

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