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User's Manual



DMX512 Master Controller GUI

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PREFACE

Readers	This manual describes t This manual is intended The descriptions in this Windows XP.	he DMX512 M for users who manual are b	Master Controller GUI. In have general knowledge of Windows. Iased on an example using the DMX512 M	laster Controller GUI in
Purpose	This manual is intende Controller GUI, how to the system that uses the	d to help use use it, and to e DMX512 Ma	ers understand the basic specifications of be used as a reference for developing han aster Controller GUI.	of the DMX512 Master rdware and software of
Structure	This manual consists of • CHAPTER 1 OVI • CHAPTER 2 INS • CHAPTER 3 INS • CHAPTER 4 STA • CHAPTER 5 USI • CHAPTER 6 WIN	the following ERVIEW TALLING .NE TALLING TH ARTING AND NG THE DM NOOW AND D	chapters: ET Framework E DMX512 MASTER CONTROLLER GUI CLOSING THE DMX512 MASTER CONT K512 MASTER CONTROLLER GUI DIALOG BOX REFERENCE	ROLLER GUI
How to Read This	Manual It is assume engineering, To learn about the fu	ed that the i logic circuits, inctions of DM	readers of this manual have general k and microcontrollers. 1X512 Master Controller GUI	nowledge of electrical
	\rightarrow Read this m	anual in the o	rder of the CONTENTS .	
Conventions	The following signals Data significan Note : Caution : Remark : Numerical repr	s are used in t ce: esentation:	this manual. Higher digits on the left and lower digits of Footnote for item marked with Note in the Information requiring particular attention Supplementary information Binary xxxx or xxxxB Decimal xxxx Hexadecial xxxxH	on the right ∋ text
Related Documen	ts The related docume However, preliminar	nts indicated i y versions are	n this publication may include preliminary v not marked as such.	rersions.
[L	MX512 Master Controlle	er GUI User's Master Evalua	Manual ation Board (EZ-0008) Quick Start Guide	(This Manual) (ZUD-CE-09-0018)

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CHAPTER 1 OVERVIEW

1.1 Overview

The DMX512 Master Controller GUI (graphical user interface) controls the Lighting Communication Master Evaluation Board (EZ-0008) that enables communication conforming to the DMX512 standard. The DMX512 Master Controller GUI has the following features:

- Specifying a scene setting of at least 0.1 seconds
- Saving and loading the scene setting in CSV format
- Easily checking operation

For details about the Lighting Communication Master Evaluation Board, see the Lighting Communication Master Evaluation Board (EZ-0008) Quick Start Guide (ZUD-CE-09-0018).

1.1.1 Operating environment

(1) Host

OS:	Windows Vista, Windows XP, Windows 2000
CPU:	Intel Pentium 400 MHz or faster
Memory:	At least 256 MB

(2) Additional components

When using the DMX512 Master Controller GUI, the following software must be installed in advance. It is recommended that the latest service pack be installed for any OS or component.

Windows XP, Windows Vista (Download each component from the Microsoft websites.)

- Microsoft .NET Framework 3.5 or later
- Microsoft .NET Framework 3.5 Language pack (languages version other than English)

Windows 2000 (Download each component from the Microsoft websites.)

- Microsoft .NET Framework 2.0 or later
- Visual C++ 2008 Runtime Library

To use .NET Framework in language other than English of Windows, a language pack is required. For details about how to install .NET Framework 3.5, see **CHAPTER 2 INSTALLING .NET Framework**.

1.1.2 System setup

An example of the system setup is shown below.



Figure 1-1. System Setup

1.1.3 DMX512 communication

Serial communication between the PC and Lighting Communication Master Evaluation Board (EZ-0008) is performed by using virtual COM-to-USB.

The Lighting Communication Master Evaluation Board (EZ-0008) can control a lighting communication slave evaluation board (such as the EZ-0005 or EZ-0006) by using DMX512 communication.

1.2 Setup Procedure

The setup procedure is shown below.

- <1> Install .NET Framework to the PC. (See Error! Reference source not found. INSTALLING .NET Framework)
- <2> Install the DMX512 Master Controller GUI to the PC. (See CHAPTER 3 INSTALLING THE DMX512 MASTER CONTROLLER GUI)
- <3> Install the driver.

Toggle the switch of the Lighting Communication Master Evaluation Board (EZ-0008) to **RUN**. Connect the Lighting Communication Master Evaluation Board (EZ-0008) to the PC by using a USB cable. Install the driver to the PC.

(For details, see CHAPTER 3 INSTALLING THE DMX512 MASTER CONTROLLER GUI)

<4> Specify a COM port.

Double click the [DMX512 Master Controller GUI] icon to display "DMX512 Controller". (For details, see **CHAPTER 4 STARTING AND CLOSING THE DMX512 MASTER CONTROLLER GUI**.) The COM port is set to "COM4" and "250000" bps by default.

If other settings are specified, the message "Can't open serialport" is displayed. Click [OK].

🔜 DM									
<u>F</u> ile	Scene	Sļa	rve <u>B</u> un	Setting	Help				
New	Open	Save	Stop	Go Pas	ce Step				
	Time(sec.)	0.00						
Ac	ddress	1	0						
Ac	ddress	2	0						
Ac	ddress	3	0						
						Can't open OK	serialport.		

Specify a COM port in the Serial dialog box.

The port (COM1 to COM255) differs depending on the PC to connect.

🖶 Serial			
Port :	COM4	~	ОК
Baud rate:	250000	~	CANCEL

<5> For details about how to use the GUI, see CHAPTER 5 USING THE DMX512 MASTER CONTROLLER GUI. For details about the displayed windows and dialog boxes, see CHAPTER 6 WINDOW AND DIALOG BOX REFERENCE.

CHAPTER 2 INSTALLING .NET Framework

This chapter describes how to install .NET Framework in Windows XP.

2.1 Required Files

The following two files are required. Download these files from the Microsoft website.

(1) .NET Framework 3.5 installer (Windows XP)

dotNetFx35setup.exe

(2) .NET Framework 3.5 Language pack installer (Windows XP)

dotnetfx35langpack_x86ja.exe

(A language pack is required for using the DMX512 Master Controller GUI in the language other than English of Windows.)

2.2 Installing .NET Framework

Install .NET Framework, which is required for using the DMX512 Master Controller GUI.

This step is described by using Windows XP and .NET Framework 3.5 as an example.

The dialog boxes that will be displayed and the components to be installed differ slightly for other OSs.

To use .NET Framework 3.5, a language pack corresponding to the language other than English of Windows must be installed.

<1> When dotNetFx35setup.exe is double clicked, the Open File – Security Warning dialog box is displayed. Click [Run].

Do you	u want to run this file?
	Name: dotNetFx35setup.exe
	Publisher: Microsoft Corporation
	Type: Application
	From: C:\Documents and Settings\1149330019345\My D
💌 Alwa	Run Cancel
1	While files from the Internet can be useful, this file type can potentially harm your computer. Only run software from publishers way that VII but a labor side?

Figure 2-1. Open File – Security Warning

<2> The Microsoft .NET Framework 3.5 Setup dialog box is displayed.

Select "I have read and ACCEPT the terms of the License Agreement" and then click [Install].



Microsoft .NET Framewor	k 3.5 Setup	
Welcome to Setup		Framework
Be sure to carefully read and und license terms. You must accept th	erstand all the rights and restriction e license terms before you can inst	ons described in the stall the software.
MICROSOFT SOF LICENSE TERMS	TWARE SUPPLEN	1ENTAL
Press the Page Down key to see n	nore text.	Print
I have read and ACCEPT the to	erms of the License Agreement	
O I DO NOT ACCEPT the terms o	f the License Agreement	
Send information about my set Details regarding the <u>data collecti</u>	up experiences to Microsoft Corp on policy	oration.
Download File Size:	10 MB	
Download Time Estimate:	24 min (56 kbps) 2 min (512 kbps)	
	(Install > Cancel

<3> Install .NET Framework according to the procedure below.



Figure 2-3. Microsoft .NET Framework 3.5 Setup (2)

<4> Click [Exit] when the installation is completed.



Figure 2-4. Microsoft .NET Framework 3.5 Setup (3)

<5> When using the language other than English of Windows, install the Language Pack.

Caution If a new service pack is released, install that service pack by using Microsoft Update.

CHAPTER 3 INSTALLING THE DMX512 MASTER CONTROLLER GUI

This chapter describes how to install the DMX512 Master Controller GUI in Windows XP.

3.1 Installer

The following installer is provided with the DMX512 Master Controller GUI. Double click the installer to install the DMX512 Master Controller GUI.



3.1.1 Installation procedure

The installation procedure is shown below.

<1> When the installer is double clicked, the dialog box shown in Figure 3-1 is displayed. Click [Next].



Figure 3-1. DMX512 Master Controller GUI (Installer)

<2> Select the folder in the Select Installation Folder dialog box and then click [Next].

- DMX512 Master Controller GUJ

 Select Installation Folder

 Image: Select Installer will install DM<512 Master Controller GUI in the following folder.</td>

 To install in this folder, click "Next". To install to a different new or existing folder, enter one below or click "Browse".

 Eolder:
 C:\Program Files\NEC Electronics Tools\

 Browse...
- Figure 3-2. DMX512 Master Controller GUI (Select Installation Folder)

<3> The Confirm Installation dialog box is displayed. Click [Next] to start the installation.

Figure 3-3. DMX512 Master Controller GUI (Confirm Installation)

DMX512 Master Controller GUI	
Confirm Installation	
The installer is ready to install DMX512 Master Controller GUI on your compo	uter.
Click "Next" to start the installation.	
Cancel Previous	Next

<4> Installation starts.

🖗 DMX512 Master Controller GUI	
Installing DMX512 Master Controller GUI	
DMX512 Master Controller GUI is being installed.	
(***********************************	
Cancel Previous	Next

Figure 3-4. DMX512 Master Controller GUI (Installing)

<5> Installation is complete.



<6> The icon is added to the desktop.

When the icon is double clicked, the DMX512 Controller window is displayed.



3.1.2 Uninstallation procedure

The uninstallation procedure is shown below.

- <1> Select [Start], [Control Panel], and then [Add or Remove Programs].
- <2> Select "DMX512 Master Controller GUI" from the displayed programs and then click [Remove].
- <3> The DMX512 Master Controller GUI is uninstalled.

3.2 Driver

Install the driver when connecting the Lighting Communication Master Evaluation Board (EZ-0008) to the PC by using a USB cable for the first time.

Save the following required files to any folder.

MQB2SALL.inf MQB2SALL.sys MQB2SVCP.sys

3.2.1 Installation procedure

The installation procedure is shown below.

<1> When connecting the Lighting Communication Master Evaluation Board (EZ-0008) to the PC by using a USB cable, the following dialog box is displayed. Select "Yes, now and every time I connect a device". Click [Next].

Found New Hardware Wiz	ard
	Welcome to the Found New Hardware Wizard Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission). Read our privacy policy
	Can Windows connect to Windows Update to search for software?
	 No, not this time
	Click Next to continue.
	< Back Next > Cancel

Figure 3-6. Found New Hardware Wizard (1)

<2> Select "Install from a list or specific location (Advanced)". Click [Next].





<3> Select "Include this location in the search:" and then click [Browse]. Specify the folder to which MQB2SALL.inf, MQB2SALL.sys, and MQB2SVCP.sys are saved. Click [Next].



Figure 3-8. Found New Hardware Wizard (3)

<4> Installation starts.

Figure 3-9. Found New Hardware Wizard (4)



<5> Click [Continue Anyway].

Figure 3-10. Hardware Installation



<6> Continue the installation.





<7> Click [Finish]. Installation is complete.



Figure 3-12. Found New Hardware Wizard (6)

CHAPTER 4 STARTING AND CLOSING THE DMX512 MASTER CONTROLLER GUI

After .NET Framework and the DMX512 Master Controller GUI have been installed, the DMX512 Master Controller GUI can be opened.

4.1 Starting

- <1> Connect the Lighting Communication Master Evaluation Board (EZ-0008) to the host.
- <2> Double click the [DMX512 Master Controller GUI] icon, or select [Start], [All Programs], [NEC Electronics Tools], [DMX512 Master Controller], and then [DMX512 Master Controller GUI].



<3> The DMX512 Controller window is displayed.

<4> The COM port is set to "COM4" and "250000" bps by default.

If the connection fails, the message "Can't open serialport" is displayed, because the port (COM1 to COM255) differs depending on the PC to connect. If this error occurs, specify the COM port in the Serial dialog box.

Figure 4-1. Window Displayed When the DMX512 Master Controller GUI Is Opened

	🗤 DM	X512								
1	<u>F</u> ile	<u>S</u> cene	Sla	ve <u>Bun</u>	<u>S</u> etting	<u>H</u> elp				
	New	Open	Save	Stop	Go Paus	se Step				
		Time	sec.)	0.00						
	A	ddress	1	0						
	A	ddress	2	0						
	A	ddress	3	0						
							Can't oper	r 🔀		

<5> Click [OK].

<6> In the menu, select [Setting] and then [Serial] to specify the COM port and communication speed.

🔜 DMX512 Controller (No	t Connect.)	
<u>File S</u> cene S <u>l</u> ave <u>B</u> un	Setting Help	
New Open Save Stop	Scene Setting Change Board Address	
Time(sec.) 0.00	Serial	
Address 1 0		
Address 2 0		
Address 3 0		
-		

Figure 4-2. DMX512 Controller (Not Connect.) Window

<7> Specify a COM port in the Serial dialog box, and then click [OK].

The port (COM1 to COM255) differs depending on the PC to connect.

Figure 4-3. Serial Dialog Box

🔡 Serial			
Port :	COM4	*	ОК
Baud rate:	250000	~	CANCEL

<8> If the Lighting Communication Master Evaluation Board (EZ-0008) is successfully connected to the PC, the [Go] and [Stop] buttons are enabled (colored).

	омхе	i12 (Cont	roller				
Eil	e S	cene	Sla	ave <u>R</u> u	n Se	tting	Help	
Ne) pen	Save	Stop) Go	100 Pausi	Step	
		Fime(sec.)	0.00				
	Add	ess	1	0				
	Add	ess	2	0				
	Add	ess	3	0				
		_	_					

Figure 4-4. DMX512 Controller Window

If the "Can't open serialport" error occurs upon connection, the Lighting Communication Master Evaluation Board (EZ-0008) might not be correctly recognized by the PC, or another application might be using the COM port. In the latter case, close the application, and then check whether the COM port is correctly recognized by using the Windows Device Manager.

4.2 Closing the DMX512 Master Controller GUI

<1> Select [File] and then [Exit].



Figure 4-5. Window Displayed When Closing the DMX512 Master Controller GUI

<2> Close the DMX512 Controller Window.

CHAPTER 5 USING THE DMX512 MASTER CONTROLLER GUI

5.1 Creating a File

5.1.1 New (creating a file)

To create a file, click the [New] button, or select [File] in the menu and then [New].



Figure 5-1. New (Creating a File)

5.1.2 Slave Address setting

Specify slave addresses. Up to 512 slave addresses can be selected.

For details about the Select slaves dialog box, see 6.2.2 Select slaves dialog box.

In the menu, select [Slave] and then [Select] to open the Select slaves dialog box. Select the addresses of the slaves to connect.









5.1.3 Scene Setting

Specify the scene setting.

0.1 seconds (minimum value) or more can be specified.

For details about the Scene Setting dialog box, see 6.2.3 Scene Setting dialog box.



Figure 5-4. Scene Setting Dialog Box (Specification Example)

When specifying 0.1 seconds

(1) Entering values

A value from 0 to 255 can be entered into each cell. If a value other than 0 to 255 or a non-numeral is entered, the value is ignored and "0" is displayed.

Scenes can be added. If values are entered for the last (rightmost) scene, the next scene is automatically added.

The value in a cell can be cleared (to 0) by selecting the cell and then pressing [Delete].

In version 1.0, the value in a cell cannot be copied and pasted by selecting the cell.



Figure 5-5. Entering Values

(2) Copying and pasting a scene

A scene can be copied and pasted.

Place the cursor on the Time(sec) header of the row to copy, right-click, and then select [Copy].

Next, place the cursor on the **Time(sec)** header of the row to which to copy the selected row, right-click, and then select [Paste].





(3) Inserting a scene

To insert an empty row, place the cursor on the **Time(sec)** header of the row to insert a scene, right-click, and then select [Insert].



(4) Deleting a scene

To delete a row, place the cursor on the **Time (sec)** header of the row to delete a scene, right-click, and then select [Delete].



Figure 5-8. Delete

5.2 Saving Scenes (in CSV Format)

Data can be saved in CSV format.

<1> Saving data to a new file: Select [File] in the menu and then [Save as].

Saving data to an existing file: Select [File] in the menu and then [Save], or click the [Save] button.

Open Saus		Stop 0.00	Go Pau 010	0.20	0.30	0.40	0.50	0.60	0.70	080	0.90	1.00
Save as		0	9	18	27	36	45	54	63	72	81	90
Exit	_	0	0	0	0	0	0	0	0	0	0	C
Huuress	0	0	0	0	0	0	0	0	0	0	0	0
Address	4	255	255	255	255	255	255	255	255	255	255	255
Address	5	252	243	234	225	216	207	198	189	180	171	162
Address	6	0	9	18	27	36	45	54	63	72	81	90
Address	7	0	0	0	0	0	0	0	0	0	0	0
Address	7	0	0	0	0	0	0	0	0	0	0	

	0.00										
	0.00	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
as	0	9	18	27	36	45	54	63	72	81	90
-	0	0	0	0	0	0	0	0	0	0	0
88 0	0	0	0	0	0	0	0	0	0	0	0
ss 4	255	255	255	255	255	255	255	255	255	255	255
ss 5	252	243	234	225	216	207	198	189	180	171	162
ss 6	0	9	18	27	36	45	54	63	72	81	90
ss 7	0	0	0	0	0	0	0	0	0	0	0
	s gs ss 3 ss 4 ss 5 ss 6 ss 7	s 0 ss 4 255 ss 5 255 ss 6 o 0	3 83 0 0 00 0 0 85 0 0 85 255 255 85 252 243 85 0 9 85 0 0	0 0 0 0 35 0 0 0 0 35 0 0 0 0 35 0 0 0 0 35 0 0 0 0 35 255 255 255 254 35 252 243 234 0 9 18 36 7 0 0 0 0 0	g g g g g g g g g g g g g g g g g g g	ge 0 0 0 0 0 se o 0 0 0 0 0 0 se o 255 255 255 255 255 255 256 256 256 256 266 266 266 266 266 266 266 266 266 266 267 266 276 36 37 30 0 0 0 0 0 36 36 7 0	gev 0	ge 0	gev 0	ee 0	gev 0

		Save	Stop	Go Pau	Step	_	_	_	_		_	_	
	Time	sec)	0.00	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
Ad	ddress	1	0	9	18	27	36	45	54	63	72	81	9
Ad	ddress	2	0	0	0	0	0	0	0	0	0	0	- 0
Ad	ddress	3	0	0	0	0	0	0	0	0	0	0	(
Ad	ddress	4	255	255	255	255	255	255	255	255	255	255	258
Ad	ddress	5	252	243	234	225	216	207	198	189	180	171	162
Ad	ddress	6	0	9	18	27	36	45	54	63	72	81	90
Ad	ddress	7	0	0	0	0	0	0	0	0	0	0	0

<2> Saving data to a new file: Saving data to an existing file: Name the file, and then click the [Save] button. The file is overwritten.

Open						? 🛛
Look in:	🗀 DMX512		~	00	• 📰 🔁	
My Recent Documents	20pin.csv 30pin_colorm	ix.csv				
Desktop						
My Documents						
My Computer						
	File name:	20pin.csv			~	Open
My Network	Files of type:	CSVIII(*.csv)			~	Cancel

Figure 5-9. Saving the Data in CSV Format

5.3 Opening a File

To open a CSV file, use the following procedure.

<1> Select [File] in the menu and then [Open], or click the [Open] button.

🛃 DMX512 Controller 📃 🗖 🔀	to DMX512 Controller
<u>Eile Scene Slave Bun Settine H</u> elp	Eile Scene Slave Bun Setting Help
Dem Stop Go Pause Step	New Den Save Stop Go Paule Step
Save 0.00	Time(sec) 0.00
Save as 0	Address 1 0 Address 2 0
P HOURSE 3 0	Address 3

Figure 5-10. Opening a CSV File

<2> Select a file in the Open File dialog box.



<3> The selected file opens.

Opening the file might take a while, depending on the PC environment.

DMX512	Contr	oller										
Eile Scene	s Slav	e <u>R</u> un	Setting	Help								
New Open	Save	Stop	Go Pau	Step								
Time	(sec.)	0.00	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
Address	1	0	9	18	27	36	45	54	63	72	81	90
Address	2	0	0	0	0	0	0	0	0	0	0	0
Address	3	0	0	0	0	0	0	0	0	0	0	0
Address	4	255	255	255	255	255	255	255	255	255	255	255
Address	5	252	243	234	225	216	207	198	189	180	171	162
Address	6	0	9	18	27	36	45	54	63	72	81	90
Address	7	0	0	0	0	0	0	0	0	0	0	0
Address Address	6 7	0	9	18	27	36	45	54	63	72	81	

5.4 Checking Operation

The following subsections describe how to check the operation of the Lighting Communication Master Evaluation Board (EZ-0008).

5.4.1 Go (Start)

Click the [Go] button, or select [Run] in the menu and then [Start] to start transmitting data to the lighting communication slave evaluation board.

Figure 5-11. Go (Start)

🔜 DMX512 Cont	roller									E		🔜 DR	IX512 Con	troller									E	
<u>Eile S</u> cene S <u>l</u> a	we Bun	Setting	Help									Eile	Scene S	ave But	Setting	Help								
New Open Save	Stop	Go Pa	se Step									New	Open Sav		<u>Start</u> Pause	Step								
Time(sec.)	0.00	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00		Time(sec.)		Step	120	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
Address 1	0	9	18	27	36	45	54	63	72	81	90	F 3	Address 1		Stop	18	27	36	45	54	63	72	81	90
Address 2	0	0	0	0	0	0	0	0	0	0	0	,	Address 2	- 0	U	0	0	0	0	0	0	0	0	0
Address 3	0	0	0	0	0	0	0	0	0	0	0	1	Address 3	0	0	0	0	0	0	0	0	0	0	0
Address 4	255	255	255	255	255	255	255	255	255	255	255	1	Address 4	255	255	255	255	255	255	255	255	255	255	255
Address 5	252	243	234	225	216	207	198	189	180	171	162	1	Address 5	252	243	234	225	216	207	198	189	180	171	162
Address 6	0	9	18	27	36	45	54	63	72	81	90	1	Address 6	0	9	18	27	36	45	54	63	72	81	90
Address 7	0	0	0	0	0	0	0	0	0	0	0	1	Address 7	0	0	0	0	0	0	0	0	0	0	0
6											>	c												\$

When all data has been transmitted, the operation returns to the first data item and continues transmission. To stop transmission, click the [Stop] button, or select [Run] in the menu and then [Stop].

5.4.2 Stop (Stop)

Click the [Stop] button, or select [Run] in the menu and then [Stop] to stop transmitting data to the lighting communication slave evaluation board.







5.4.3 Pause (Pause)

Click the [Pause] button, or select [Run] in the menu and then [Pause] to pause transmitting data to the lighting communication slave evaluation board.





			Start									
N	ew Open S	eve. S	Pause	Step								_
	Time(se	2	Step	.70	5.80	5.90	6.00	6.10	6.20	6.30	6.40	6.50
	Address 1		Stgp	0	0	0	0	0	0	0	0	0
•	Address 2	-	U	0	0	0	0	0	0	0	0	0
	Address 3	99	108	117	126	135	144	153	162	171	180	189
	Address 4	255	255	255	255	255	255	255	255	255	255	255
	Address 5	0	0	0	9	18	36	45	54	63	72	72
	Address 6	9	0	0	0	0	0	0	0	0	0	0
	Address 7	243	252	252	243	234	216	207	198	189	180	180

5.4.4 Step (Step)

Click the [Step] button, or select [Run] in the menu and then [Step] to select the next row.



Figure 5-14. Step (Step)

CHAPTER 6 WINDOW AND DIALOG BOX REFERENCE

6.1 Overview of the Window and Dialog Boxes

The window and dialog boxes displayed during use are described below.

Table 6-1.	Window	and	Dialog	Boxes
------------	--------	-----	--------	-------

Window or Dialog Box	Description	See:
Main window	Displayed when the DMX512 Master Controller GUI opens	6.2.1
Select slaves dialog box	Used to edit the slave addresses to display in the main window	6.2.2
Scene Setting dialog box	Used to specify the time between scenes to execute	6.2.3
Serial dialog box	Used to specify the serial port	6.2.4
Version dialog box	Used to check the DMX512 Master Controller GUI version	6.2.5

6.2 Description of the Window and Dialog Boxes

6.2.1 Main Window

The main window displays addresses in the vertical direction and time in the horizontal direction. "Address 1", "Address 2", and "Address 3" are displayed by default for addresses. "0" is displayed as the default time.



Figure 6-1. Main Window (Default)

An example of a window in which values have been specified is shown below.

Figure 6-2. Main Window (Values Are Specified)

Time	sec.)	0.00	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
Address	1	0	9	18	27	36	45	54	63	72	81	90
Address	2	0	0	0	0	0	0	0	0	0	0	0
Address	3	0	0	0	0	0	0	0	0	0	0	0
Address	4	255	255	255	255	255	255	255	255	255	255	255
Address	5	252	243	234	225	216	207	198	189	180	171	162
Address	6	0	9	18	27	36	45	54	63	72	81	90
Address	7	0	0	0	0	0	0	0	0	0	0	0

6.2.2 Select slaves dialog box

Edit the slave addresses list to display in the main window in this dialog box. To open this dialog box, select [Slave] in the main menu and then [Select].

🌄 Select sl	aves	
Slave Address	3:	Selected:
Address	^	Address
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20		Add>
		OK CANCEL

Figure 6-3. Select slaves Dialog Box

- The selectable slave addresses (in the left field) and selected slave addresses (in the right field) cannot be selected at the same time.
- Select addresses in the Slave Address field to add them to the Selected field.
- Click [OK] to apply the selection to the main window.

Slave Address (addresses in the left field):

- The addresses in the **Slave Address** field (which are in the range from 1 to 512 and not displayed in the right field) are sorted in ascending order from the top to the bottom.
- If a selectable slave address is selected, the [Add-->] button is enabled.
- Multiple slave addresses can be selected.
- To add the selected addresses to the **Selected** (right) field, click the [Add-->] button. The selected addresses are deleted from the **Slave Address** (left) field.
- The [Add-->] and [<--Remove] buttons are disabled immediately after slave addresses are added.

Selected (addresses in the right field):

- The currently selected slave addresses are displayed in the Selected field.
- If currently selected slave addresses (in the right field) are selected, the [<--Remove] button is enabled.
- The [Add-->] and [<--Remove] buttons are disabled immediately after slave addresses are deleted.
- The selected addresses are added to the **Slave Address** (left) field and deleted from the **Selected** (right) field by clicking the [<--Remove] button.

6.2.3 Scene Setting dialog box

Specify the time between scenes to execute in this dialog box.

To open this dialog box, select [Setting] in the main menu and then [Scene Setting].

Figure 6-4. Scene Setting Dialog Box

🌄 Scene Setting	
Step Time: 1,00 _{sec} Enable over 100ms. OK CA	NCEL

- The step time is displayed in 0.1 second increments for a scene.
- The default step time is 1.0 second. (The minimum is 0.1 seconds.)
- If a file is read, the step time value changes according to the setting in that file.
- If characters other than numerals are entered in the Step Time fields, the [OK] button is disabled.
- If numerals are entered in the **Step Time** fields and then [OK] is clicked, the value is applied to the Time(sec) row in the main window.

6.2.4 Serial dialog box

Set up the serial port in this dialog box.

To open this dialog box, select [Setting] in the main menu and then [Serial].

Port :	COM4	~	ОК
Baud rate:	250000	~	CANCEL

Figure 6-5. Serial Dialog Box

• The default values are "COM4" and "250000".

The port (COM1 to COM255) differs depending on the PC to connect.

The specified values are saved and then retrieved when the DMX512 Master Controller GUI next opens.

- The specified values are saved and then retrieved when the DMX512 Master Controller GUI next opens.
- If [CANCEL] is clicked, the dialog box opens with the originally displayed port set.
 If the dialog box cannot be opened, connection processing stops and "DMX512 Controller (Not Connect.)" is displayed on the title bar of the main window.

6.2.5 Version dialog box

Check the DMX512 Master Controller GUI version in this dialog box. To open this dialog box, select [Help] in the main menu and then [Version].

Figure 6-6. Version Dialog Box



• If [OK] is clicked, the Version dialog box disappears.

6.2.6 Menu

(1) File

ewa D	MX512 Contr	oller										
Eile	e <u>S</u> cene S <u>l</u> av	/e <u>R</u> un	<u>S</u> etting	<u>H</u> elp								
	<u>N</u> ew Open	Stop	o Pau	se Step								
1	Save	0.00	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
	_ Save as	0	0	18	27	36	45	54	63	72	81	90
	– Exit	0	0	0	0	0	0	0	0	0	0	0
-	Muuress o	0	0	0	0	0	0	0	0	0	0	0
	Address 4	255	255	255	255	255	255	255	255	255	255	255
	Address 5	252	243	234	225	216	207	198	189	180	171	162
	Address 6	0	9	18	27	36	45	54	63	72	81	90
	Address 7	0	0	0	0	0	0	0	0	0	0	0

Figure 6-7. File (Menu)

New: Create a file. The window is refreshed and initialized.

Open:	Read and display a saved setting.
Save:	Save the setting in CSV format. This menu item is not enabled until the data is updated.
Save as:	Save the setting to a new file. This menu item is not enabled until the data is updated.

Exit: Close the application.

(2) Scene

This menu item can be selected only if an entire scene is selected.

🄜 DMX51	2 Contro	ller										
<u>F</u> ile <u>S</u> c	ene S <u>l</u> ave	<u>R</u> un	<u>S</u> etting	<u>H</u> elp								
New	<u>C</u> opy <u>P</u> aste	p	o Pau	ise Step								
	Incert	0	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
► A	jiiseri. Dalata	0	9	18	27	36	45	54	63	72	81	90
A	Delete	0	0	0	0	0	0	0	0	0	0	0
Addre	ss 3	0	0	0	0	0	0	0	0	0	0	0
Addre	ss 4	255	255	255	255	255	255	255	255	255	255	255
Addre	ss 5	252	243	234	225	216	207	198	189	180	171	162
Addre	ss 6	0	9	18	27	36	45	54	63	72	81	90
Addre	ss 7	0	0	0	0	0	0	0	0	0	0	0

Figure 6-	8. Scene	(Menu)
-----------	----------	--------

Copy:	Delimit the	values	of th	e cells	in	the	selected	scene	using	commas	and	copies	them	to	the
	clipboard.														

- Paste: Paste the values from the clipboard to cells.
- Insert: Add a row to the left of the selected scene. If multiple scenes are selected, a row is added to the left of each scene.
- Delete: Delete the selected scene. If multiple scenes are selected, those rows are deleted.
- (3) Slave

🌄 DMX512 Contr	oller										
<u>File Scene Slav</u>	/e <u>R</u> un	<u>S</u> etting	<u>H</u> elp								
New Open Save	<u>S</u> elect Stop	Go Pau	se Step								
Time(sec.)	0.00	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
Address 1	0	9	18	27	36	45	54	63	72	81	90
Address 2	0	0	0	0	0	0	0	0	0	0	0
Address 3	0	0	0	0	0	0	0	0	0	0	0
Address 4	255	255	255	255	255	255	255	255	255	255	255
Address 5	252	243	234	225	216	207	198	189	180	171	162
Address 6	0	9	18	27	36	45	54	63	72	81	90
Address 7	0	0	0	0	0	0	Ω	0	0	0	0

Figure 6-9. Slave (Menu)

Select:

Display the Select slaves dialog box.

Select the slave addresses to use in this dialog box. (For details, see **6.2.2 Select slaves dialog box**.)

(4) Run

The Run menu item cannot be selected if the serial port cannot be opened.

MX512 Co	ntroller									_	
<u>File S</u> cene S	S <u>l</u> ave <u>R</u> un	<u>S</u> etting	<u>H</u> elp								
New Open Sa	ve s	<u>S</u> tart <u>P</u> ause	> Step								
Time(sec.		Step).20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
Address 1		Stop	18	27	36	45	54	63	72	81	90
Address 2	0	U	0	0	0	0	0	0	0	0	0
Address 3	0	0	0	0	0	0	0	0	0	0	0
Address 4	255	255	255	255	255	255	255	255	255	255	255
Address 5	252	243	234	225	216	207	198	189	180	171	162
Address 6	0	9	18	27	36	45	54	63	72	81	90
Address 7	0	0	0	0	0	0	0	0	0	0	0

Figure 6-	10 .	Run ((Menu)
-----------	-------------	-------	--------

Start:

Transmit scenes in sequence, starting from the selected row. After the last scene is transmitted, the operation returns to the first scene. The scene currently being transmitted is highlighted to indicate the location.

Stop: Automatically stop transmission and return the cursor to the first row.

🔜 DMX	512 Contr	oller										
Eile	Spene Star	e <u>R</u> ur	Settine	<u>H</u> elp								
New	Open Save	9	<u>S</u> tart <u>P</u> ause	Step.								
	Time(sec.)		Step	5.70	5.80	5.90	6.00	6.10	6.20	6.30	6.40	6.50
Add	Iress 1		Stop	0	0	0	0	0	0	0	0	0
Add	Iress 2		0	0	0	0	0	0	0	0	0	0
Add	Iress 3	99	108	117	126	135	144	153	162	171	180	189
Add	Iress 4	255	255	255	255	255	255	255	255	255	255	255
Add	Iress 5	0	0	0	9	18	36	45	54	63	72	72
Add	Iress 6	9	0	0	0	0	0	0	0	0	0	0
Add	Iress 7	243	252	252	243	234	216	207	198	189	180	180

Pause: Pause automatic transmission.

Step:Transmit only one scene, and then moves the cursor to the next row.If the cursor is on the last scene, the cursor returns to the first scene.

(5) Setting

DMADIZ Cont	romer											
<u>File S</u> cene S <u>l</u> a	ve <u>R</u> un	Setting	<u>H</u> elp									
New Open Save	Stop	<u>5</u> 0 0 56	cene Settin hange Boar erial	€… ′d Address	3	0.50	0.60	0.70	0.80	0.90	1.00	
Address 1	0	9	18	27	36	45	54	63	72	81	90	
Address 2	0	0	0	0	0	0	0	0	0	0	0	
Address 3	0	0	0	0	0	0	0	0	0	0	0	
Address 4	255	255	255	255	255	255	255	255	255	255	255	
Address 5	252	243	234	225	216	207	198	189	180	171	162	
Address 6	0	9	18	27	36	45	54	63	72	81	90	
Address 7	0	0	0	0	0	0	0	0	0	0	0	

Figure 6-11. Setting (Menu)

Scene Setting:	Specify the scene execution time (the interval between steps). (For details, see 6.2.3 Scene Setting dialog box .)
Serial:	Specify the COM port and communication speed. (For details, see 6.2.4 Serial dialog box .)

(6) Help

🔜 DMX512 Contr	oler										
<u>F</u> ile <u>S</u> cene S <u>l</u> av	/e <u>R</u> un	<u>S</u> etting	Help								
New Open Save	Stop	Go Pau	L ⊻ se Step	ersion							
Time(sec.)	0.00	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
Address 1	0	9	18	27	36	45	54	63	72	81	90
Address 2	0	0	0	0	0	0	0	0	0	0	0
Address 3	0	0	0	0	0	0	0	0	0	0	0
Address 4	255	255	255	255	255	255	255	255	255	255	255
Address 5	252	243	234	225	216	207	198	189	180	171	162
Address 6	0	9	18	27	36	45	54	63	72	81	90
Address 7	Ω	0	Ω	0	0	0	0	0	n	Ω	0

Figure 6-12. Help (Menu)

Version: Display the DMX512 Master Controller GUI version. (For details, see **6.2.5 Version dialog box**.)

6.2.7 Right-click menu

🚽 DMX512 Cont	roler										
<u>File S</u> cene S <u>I</u>	ave <u>R</u> un	<u>S</u> etting	<u>H</u> elp								
New Open Save	Stop	Go Pa	se Step								
Time(sec.)	0.00	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
Address 1	0		<u>С</u> ору	7	36	45	54	63	72	81	90
Address 2	0		<u>P</u> aste	0	0	0	0	0	0	0	0
Address 3	0		Insert	0	0	0	0	0	0	0	0
Address 4	255	2!	<u>D</u> elete	5	255	255	255	255	255	255	255
Address 5	252	243	234	225	216	207	198	189	180	171	162
Address 6	0	9	18	27	36	45	54	63	72	81	90
Address 7	0	0	0	0	0	0	0	0	0	0	0

Figure 6-13. Right-Click Menu

Copy: Copy the selected row to memory.

Paste: Paste the copied row in memory to the selected row.

- Insert: Add a row to the left of the selected row. If multiple rows are selected, a row is added to the left of each row.
- Delete: Delete the selected row. If multiple rows are selected, the first selected row is deleted.

For further information, please contact:

NEC Electronics Corporation

1753, Shimonumabe, Nakahara-ku, Kawasaki, Kanagawa 211-8668, Japan Tel: 044-435-5111 http://www.necel.com/

[America]

NEC Electronics America, Inc.

2880 Scott Blvd. Santa Clara, CA 95050-2554, U.S.A. Tel: 408-588-6000 800-366-9782 http://www.am.necel.com/

[Europe]

NEC Electronics (Europe) GmbH

Arcadiastrasse 10 40472 Düsseldorf, Germany Tel: 0211-65030 http://www.eu.necel.com/

Hanover Office

Podbielskistrasse 166 B 30177 Hannover Tel: 0 511 33 40 2-0

Munich Office Werner-Eckert-Strasse 9 81829 München Tel: 0 89 92 10 03-0

Stuttgart Office Industriestrasse 3 70565 Stuttgart Tel: 0 711 99 01 0-0

United Kingdom Branch Cygnus House, Sunrise Parkway Linford Wood, Milton Keynes MK14 6NP, U.K. Tel: 01908-691-133

Succursale Française

9, rue Paul Dautier, B.P. 52 78142 Velizy-Villacoublay Cédex France Tel: 01-3067-5800

Sucursal en España Juan Esplandiu, 15 28007 Madrid, Spain Tel: 091-504-2787

Tyskland Filial Täby Centrum Entrance S (7th floor) 18322 Täby, Sweden Tel: 08 638 72 00

Filiale Italiana Via Fabio Filzi, 25/A 20124 Milano, Italy Tel: 02-667541

Branch The Netherlands Steijgerweg 6 5616 HS Eindhoven The Netherlands Tel: 040 265 40 10

[Asia & Oceania]

NEC Electronics (China) Co., Ltd 7th Floor, Quantum Plaza, No. 27 ZhiChunLu Haidian District, Beijing 100083, P.R.China Tel: 010-8235-1155 http://www.cn.necel.com/

Shanghai Branch

Room 2509-2510, Bank of China Tower, 200 Yincheng Road Central, Pudong New Area, Shanghai, P.R.China P.C:200120 Tel:021-5888-5400 http://www.cn.necel.com/

Shenzhen Branch

Unit 01, 39/F, Excellence Times Square Building, No. 4068 Yi Tian Road, Futian District, Shenzhen, P.R.China P.C:518048 Tel:0755-8282-9800 http://www.cn.necel.com/

NEC Electronics Hong Kong Ltd.

Unit 1601-1613, 16/F., Tower 2, Grand Century Place, 193 Prince Edward Road West, Mongkok, Kowloon, Hong Kong Tel: 2886-9318 http://www.hk.necel.com/

NEC Electronics Taiwan Ltd.

7F, No. 363 Fu Shing North Road Taipei, Taiwan, R. O. C. Tel: 02-8175-9600 http://www.tw.necel.com/

NEC Electronics Singapore Pte. Ltd.

238A Thomson Road, #12-08 Novena Square, Singapore 307684 Tel: 6253-8311 http://www.sg.necel.com/

NEC Electronics Korea Ltd.

11F., Samik Lavied'or Bldg., 720-2, Yeoksam-Dong, Kangnam-Ku, Seoul, 135-080, Korea Tel: 02-558-3737 http://www.kr.necel.com/

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