



E-NODE 8

8 Universes Artnet / DMX Node



Instruction Manual

P/N: 24-004-1497-00
Rev1.2

Table of Contents

Part I: About E-NODE 8

Part II: X-Soft-Net(Holding System) Operation

(1) How to Setup

(2) How to Map

(3) How to playback preset Scenes by running X-Software &
DMX Trigger Operation Incl.

(4) X-Net Configure software Operation

Part I
About E-NODE 8

About 8 Universal DMX System(E-NODE 8)

Introduction:

Thank you for your purchasing the Elation 8 Universe DMX System(E-NODE 8). To optimize the performance of this product, please read these operating instructions carefully to familiarize yourself with the basic operation of this system. The Elation E-NODE 8 is simple to use, 8 Universe DMX System . All system components have been tested at the factory before being shipped to you.

Please backup them in your computer, then simply connect the LAN-cable(RJ 45) between your E-NODE 8 and your computer, then you're ready to go!

The 8 Universal DMX system should include the following:

- 1 E-NODE 8
- 1 User Instruction
- 1 Quick Start Guide

This instruction manual includes the following contents:

Part I: About 8 Universe DMX System(E-NODE 8)

Part II: X-Soft-Net software operation guide

Part III: Botex Arkaos operation guide

Unpacking:

The E-NODE 8 has been thoroughly tested and shipped in perfect working condition. Please take a few minutes to carefully inspect the system carton for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect each system component for damage, in the case that damage is found, please contact our customer support center, listed below, for further instructions.

Customer Support:

Every effort has been made to design dependable and reliable products. New products are constantly being designed to meet the needs of the entertainment lighting industry. Your comments regarding our products and services are welcome. Elation will provide set up help and to answer any question should you encounter problems during you set up or initial operation. You may also visit us on the web at www.elationlighting.com for any comments or suggestions. And please send us an e-mail to info@elationlighting.com and let us know how to improve to better serve you. It is both a privilege and a pleasure serving you.

Caution!

There are no user serviceable parts inside this unit. Do not attempt any repairs yourself, doing so will void your manufactures warranty. In the unlikely event your unit may require service, please contact your nearest Elation dealer.

Do not discard this carton in the trash, please recycle when ever possible.

Upon unpacking, carefully inspect your unit for any damage that may have occurred during shipping. If damage may have occurred, do not plug the unit in, please contact your dealer as soon as possible.

Main Features:

- The newest Artnet, 8 Universe DMX System.
- Standard DMX-512 and High Speed DMX-1000K(1M) protocol compatible.
- With network control, supporting TCP/IP, Artnet and CL100M protocol.
- Fixed built-in 128 memory CHIP allows to hold DMX data files.
- Up to 32 Shows can be created, assigned and updated by configuring X-Net Configure Software on PC platform.
- With a real-time record function.
- Astronomical time color schedule event table.
- All output channels can be patched with any of input.
- DMX trigger function available with DTC-512 or X-Trigger-USB.
- Power input of AC100~240V, 50/60Hz.
- Fuse protection with F3.15A 250V 5x20mm

Main Technical Data:

Supporting DMX-512 and DMX-1000K(1M) protocol

DMX Output: (DMX-512 protocol control)
512 channels per connector,
total 8* 3-pin XLR DMX connector,
total 512 x 8 channels

High Speed DMX-1000K(1M) protocol control
2048 channels per connector,
total 8* 3-pin XLR DMX connector,
total 2048x8 channels

Dimensions: 19"1U(482 x 205 x 44 mm)

Controls & Functions:

Front Panel View

ArtNet encoder:

To activate and set SubNet and Universe of ArtNet. And use Universe encode to set the starting number of the existing node's Universe.

Power Indicator:

To indicate the work status of the unit.

Ethernet port:

With RJ 45 standard network port.

Link/Data Indicator:

To indicate the status of network linking and data linking.

Link/Data Indicator:

To indicate the status of network linking and signal/data linking.

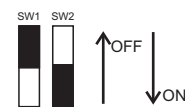
250K/1000K indicator:

To indicate the signal output of 8 Universe DMX uses standard DMX-512 protocol or high speed DMX-1000K.

Work Mode Selector(SW1~2):

To select and activate the Control Protocol as you desire;

SW1	SW2	Control Protocol
OFF	X	ArtNet Protocol
ON	X	CL100M Protocol



Special Note:

1. Under ArtNet protocol, you MUST firstly set your PC's IP address of "2.16.0.3", and Subnet mask addressing of "255.0.0.0"
2. Under CL100M protocol, the X-Net Configuration software from Elation will be available. You MUST firstly set your PC's IP address of "172.16.0.3", and Sub mask addressing of "255.255.255.0".
3. Once you reset Sw1 or Sw2 if you need, you MUST restart your E-NODE 8.

(How to set your PC's IP addressing and Subnet mask addressing, please refer to "Configuring Ethernet card".)

DMX Trigger Interface(XLR male connector):

To feature DMX trigger function which is used to control Show by connecting DTC-512 or X-Trigger-USB. (For further information, please refer to its accompanying user manual.)

DMX Channel Selection, DMX Value & Functions Table

DMX Channel Selection	DMX Values & Functions
Starting Channel	0 ~2, select Scene_1; 3~5, select Scene_2; 6~8, select Scene_3; 252~254, select Scene_85
Starting Channel +1	0~85 to Pause; 86~170 to Play; 171~255 to allow to Stop.
Starting Channel +2	0~127 to Normal Output, 129~255, allow to Blackout.

1. DMX starting Channel is available to be set by operating X-Net Configuration software.
2. For Downloading DMX data files, Editing Show and Event Triggering, please refer to user manual of E-NODE 8 Configuration Software.

DMX Interface(1~8 DMX Universe):

To output DMX control signal

Back Panel View

Fuse Holder:


To mount the fuse of F3.15A, 250V 5*20mm

IP Address Setting(SW1~3 Operation):

Before using the node, please set the existing E-NODE 8's IP addressing from 172.16.0.[0]~172.16.0.[255] by using SW1~SW3 as you desired. As per E-NODE 8, 172.16.0.0, 172.16.0.3, 172.16.0.255 are not available.

Set IP:
172 · 16 · 0 ·

SW1	SW2	SW3
x100	x10	x1



[0~255]=
 $A*100+B*10+C$
A=0~2
B=0~9
C=0~9

Special Notice:

1. When $A*100+B*10+C$ exceeds 255, the IP address of the node will be set to 172.16.0.255 automatically.
2. After you change the protocol setting and IP address setting by using any dip-switch, please disconnect the main power to confirm your setting. Then connect the main power and restart your device.
3. It is strongly recommended that the amount capacity of 200,000 pixels controlled over distributed by the entire holding system of one computer is allowed.

Part II
X-Soft-Net Holding System
& Operation Guide

How To setup!

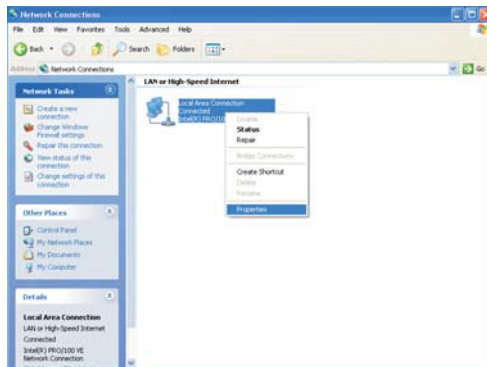
Configuring your computer Ethernet card before installing

To use E-NODE 8 to drive LED lightings from Elation as needed with X-Software software operation. Before using X-Software software, it is advisable to firstly configure your computer Ethernet card. The process is very simple and is described as the below instructions. It is necessary to set two parameters, the IP address and the Subnet Mask.

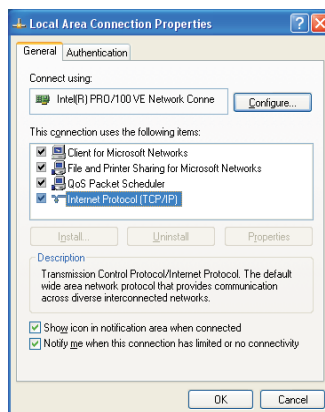
1. These settings are adjusted in the Windows Network Settings Dialogue. To access this, select the Start Menu -Settings- Control Panel menu.



2. In the Control Panel, simply double-click on the "Network Connection" icon. A new dialog box will bring up;



3. Select the TCP/IP protocol line and then press the properties button. A new setup dialog box will bring up;



4. Set IP address and Subnet mask:



If you want to select E-NODE 8 to drive your LED fixtures, you must type the number of 172.16.0.3 in the IP address blank bar. To type the number of 255.255.255.0 in the Subnet mask blank bar.

5. Press the OK button to finish your setting, not need to restart the computer.

Setup Information


This is a setup software in the X-Software which is used to set all information as needed. It features mainly;

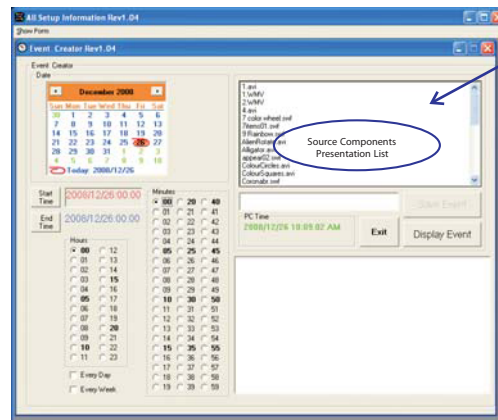
- To set Node IP Address
- To edit/Create Events(trigger time setup)
- Events(Flash files-*.swf, *.GVI, Video Files-*.AVI,*.WMV, MPEG Files-*.mpeg,*.mpg,*.mlv, *.mp2,*.mp3) Backup/Load
- Create GVI
- DMX Control Mode Setup

Getting Started

For the setup software working correctly, all events MUST be firstly placed in the scene library called "Scene_lib" of the X-Soft main folder. To add scenes as needed, the user can simply follow two ways to process;

- Manually copy these selected scenes(swf, MPEG Files, AVI Files) which you wish to the "Scene_lib" main folder with the mouse action.
- Automatically load these events(swf, MPEG Files, AVI Files) which you wish to be "Scene_lib" main folder by operating "Event(swf, MPEG Files,AVI Files) Backup/Load" .
(For further information, please see Section_3: "Events Backup/Load" for events loading.

Click the "Setproj" icon () to open this software in the main folder. A dialog box will bring up as following;



All events(Flash files, Video Files, MPEG Files) which have been copied to the "Scene_lib" folder will automatically be listed and display in the Source Components Presentation List.

Overview (menu options)

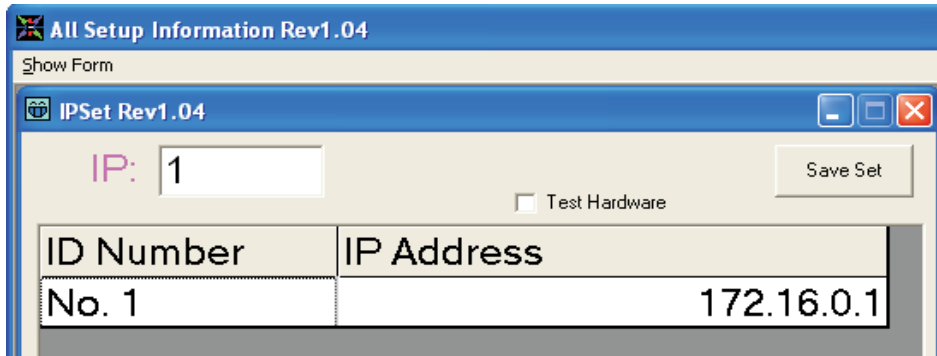
The illustration below shows the main features and main sub menus options in the menu.

Show Form		
Show IPSetForm	Ctrl+I	→ To add IP address of nodes which will be used in the system as needed
Show EventCreatForm	Ctrl+E	→ To create events as needed.
Show CopyFileForm	Ctrl+C	→ To copy files as needed.
Show GviCreate	Ctrl+G	→ To create Gvi as needed.
Show DMXCtrlSetForm	Ctrl+D	→ To set DMX control/trigger as needed.
Show DmxAddrForm	Ctrl+A	→ N/C
EXIT	Ctrl+X	→ Exit from the software

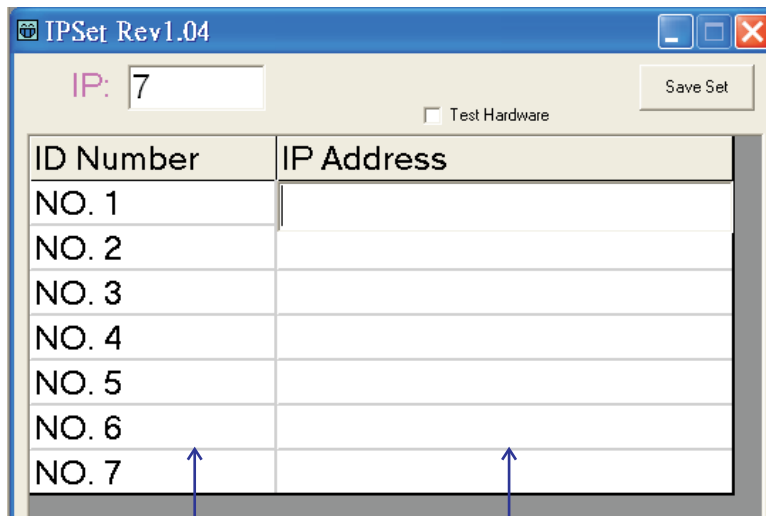
Section_1: Node IP Address Setup

For these connected Nodes controlling the fixtures correctly, all nodes which are used to control the fixtures MUST be set up individual IP address in this Setup software.

1a. Click the "Show IP set Form" icon, a IP setup dialog box will bring up to add IP address of nodes which will be used as needed.



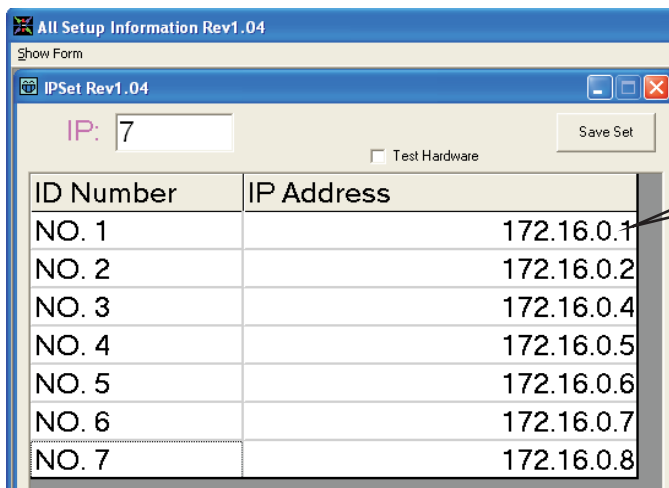
1b. Enter a valid integer value of node quantity which will be used as needed in the entire system.



Node quantity

IP address of each node

1c. Enter an actual IP address of each node in IP Address bar. The actual IP address of each node is provided by us and labeled on the back of the node.



172.16.0.1

NOTE:
All nodes IP addresses MUST be kept consistent with ones, which are set by using SW1~3 operation. And 172.16.0.0, 172.16.0.3 and 172.16.0.255 are not available.

1d. After clicking the "Save Set" icon, all settings will be saved automatically.

Section_2: Events Editing/Creating(Events Trigger Time Setup)

2a. Events Edit/Create mode enables.

All events(Flash files, Video Files, MMS Files) which have been copied to the "Scene_7fb" folder will automatically be listed and display in the Source Components Presentation List.

Calendar

Start Time

End Time

Trigger mode

Source Components Presentation List

PC Time (real-time clock)

2b. Double-click the selected Event file which you wish as a scene as needed till its file name appears in the below Active Window.

Active Window

2c. Select trigger mode which you wish to trigger existing event, consisting Day mode and Weekly mode.

2d. Click the "StartTime" icon to set Start time for the existing event as well as the "EndTime" icon to set End time.

Start Time 2008/12/26 18:00

End Time 2008/12/26 23:00

Trigger mode

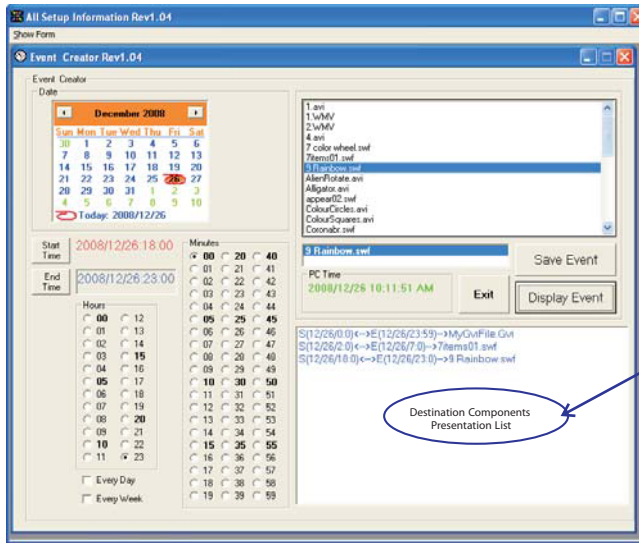
Source Components Presentation List

PC Time 2008/12/26 10:11:04 AM

2e. Once you've been satisfied with the existing setting, you can save the existing setting by clicking the "Save Event" icon.

2f. To repeat Step2b~Step2e to create more events as needed.

2g. Clicking the "Display Events" icon allows the user to preview these events which have been completed, and they will appear with individual start time and end time in the destination component list.

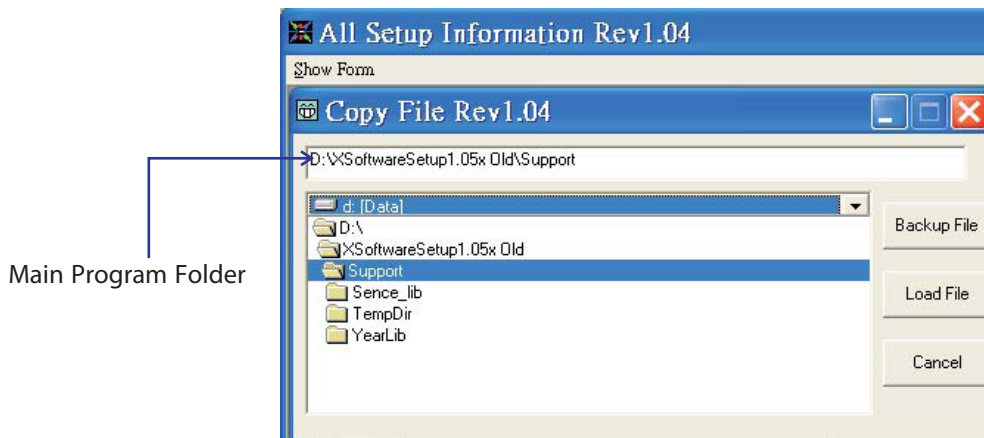


All events(Flash files, Video Files, MPAG Files) which have been edited completely will be listed and appear with individual start time and end time in the Destination Components Presentation List.

2h. Click the "Exit" icon to exit the existing mode.

Section_3: Events(Flash files, Video Files, MPEG Files) Backup/Load

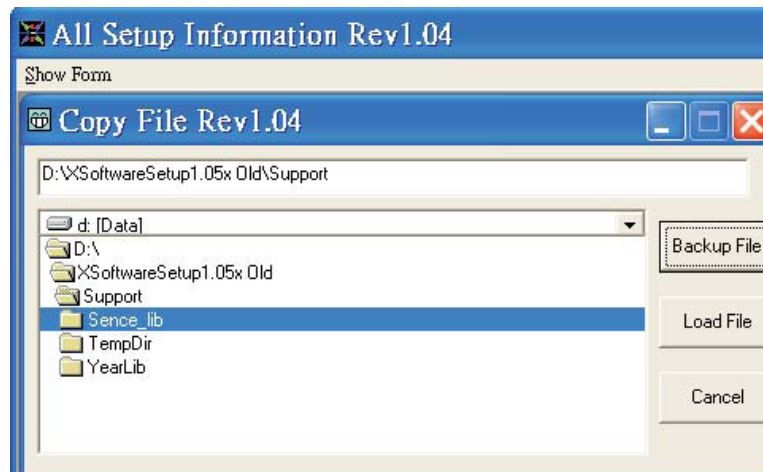
3a. Events(Flash files, Video Files, MPAG Files) Backup/Load mode enables.



Main Program Folder

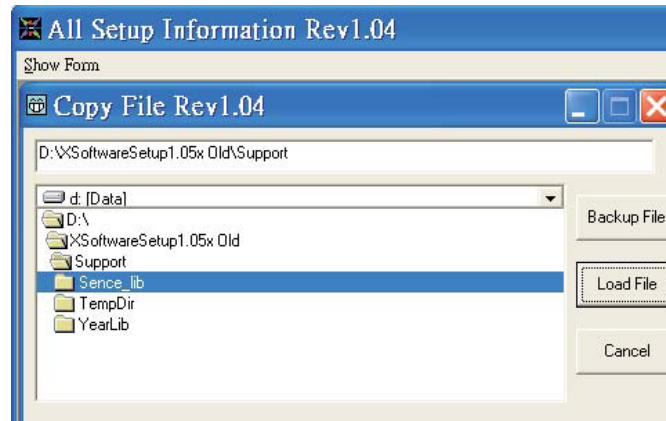
3b. In the CopyFile option, the main program folder is a drop down menu, consists of the Sence_lib(Scene library) folder. And point the main folder, then click the "Scene-lib" folder.

1. Click the "Backup File" icon to backup these Flash files, Video Files, MPAG Files which are existing in the "Scene_lib" folder.

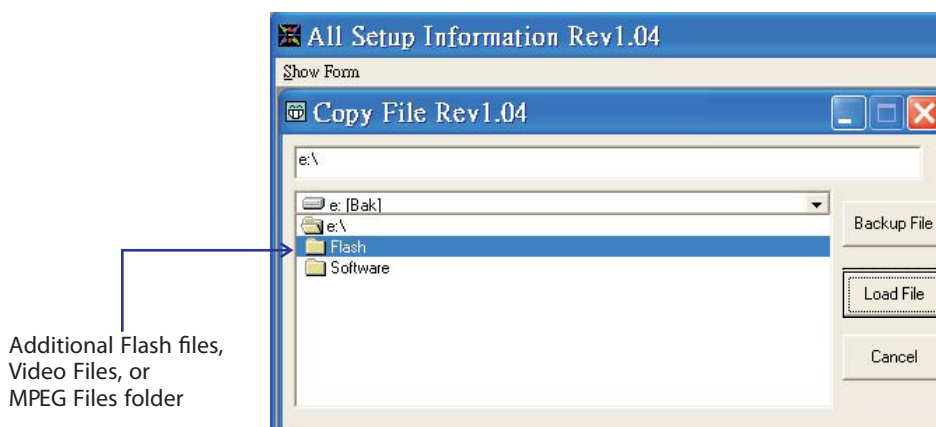


2. In this option, it allows the user to load more Flash files, Video Files, MPEG Files from other places to the "scene_lib" folder for events use. For adding more Flash files, Video Files, MPEG Files, simple follow these steps;

2.1. Firstly, select the "Scene_lib" folder as a destination which the user load more Flash files, Video Files, MPEG Files to, and click the "Load File" icon.



2.2 Define the folder with more Flash files, Video Files, MPEG Files which you wish to load, then secondly click the "load File" icon. Do this, all Flash files, Video Files, MPEG Files in this folder can be loaded to the Setup software together and saved in the "Scene_lib" folder for events use.



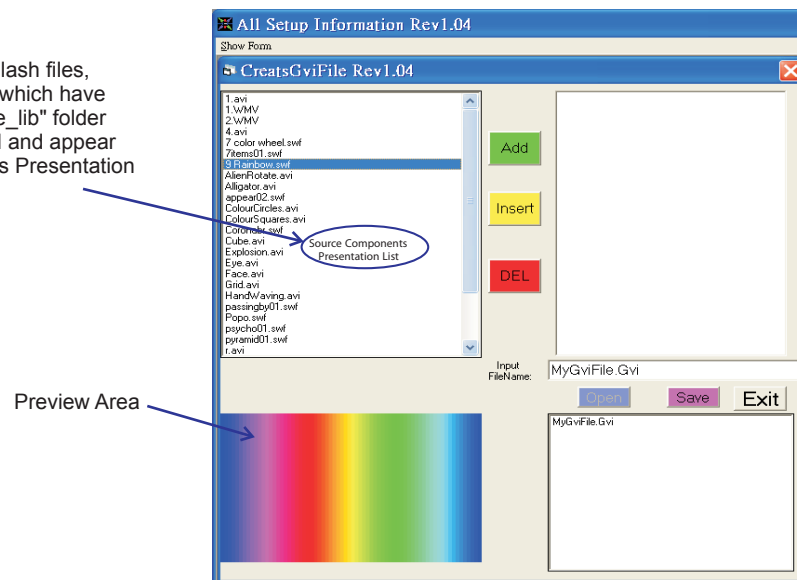
NOTE : It is advisable not to load these Flash files, Video Files, MPEG Files owning the same name with existing Flash files, Video Files, MPEG Files in the "Scene_lib" folder. Otherwise, it is easy to be in fault.

3c. Click the "Cancel" to exit the existing mode.

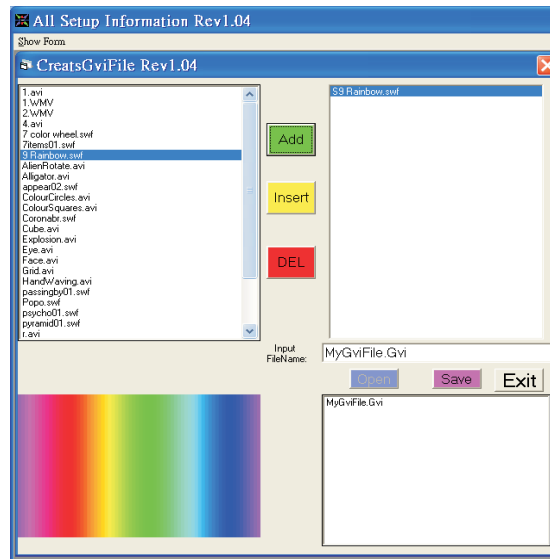
Section_4: Create GVI

In this option, it allows the user to prefabricate, compress, or compose several different events as one GVI to play as needed.

In this option, All events(Flash files, Video Files, MPEG Files) which have been copied to the "Scene_lib" folder will automatically be listed and appear in the Source Components Presentation List.

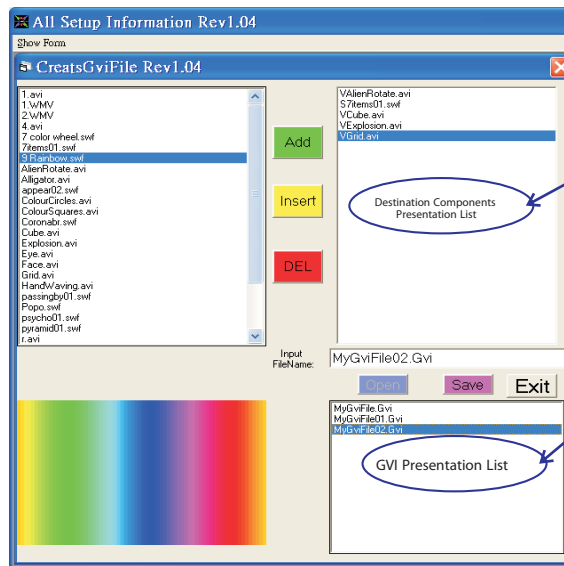


4a. Select one Event(Flash files, Video Files, MPEG Files) in the Source Component Presentation List, and click the "Add" icon for dummy GVI.



4b. To repeat the above step to add more events for dummy GVI as needed.
 In this option, click the "Insert" icon to insert events between two events as needed.
 Click the "DEL" icon to delete events which you want to cancel.

4c. Input a new GVI name in the file name bar, and click the "Save" icon to save the existing setting.



All events(Flash files, Video Files, MPEG Files) which have added will be listed and appear in the Destination Components Presentation List.

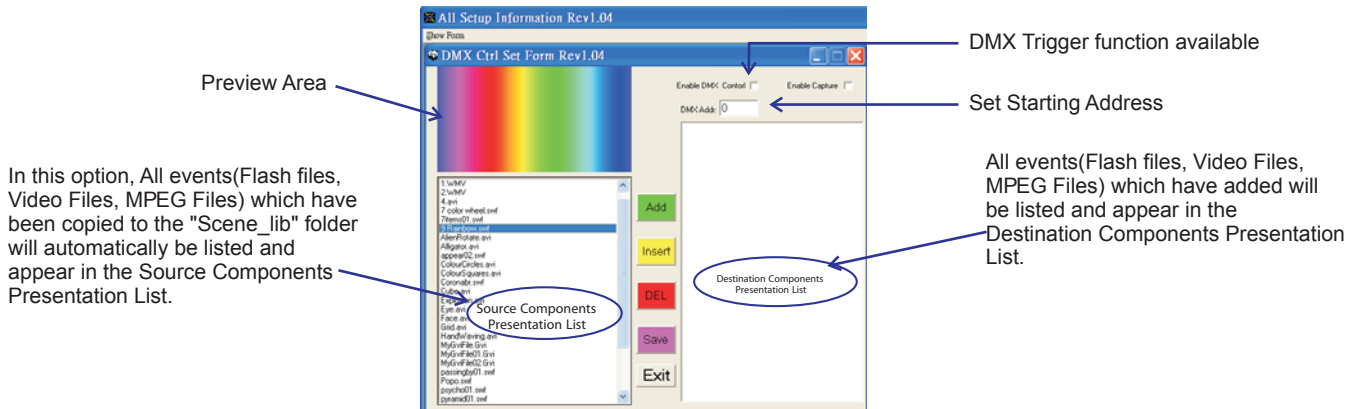
All GVI which have created will be listed and appears in the GVI presentation list.

4d. To repeat to Step4a~Step4c to create more GVI for use.

In this option, double-click the GVI file in the GVI presentation list to select GVI till its name appears in the "FileName" bar, all events in the selected GVI
 Click the "Exit" icon to exit from the existing mode.

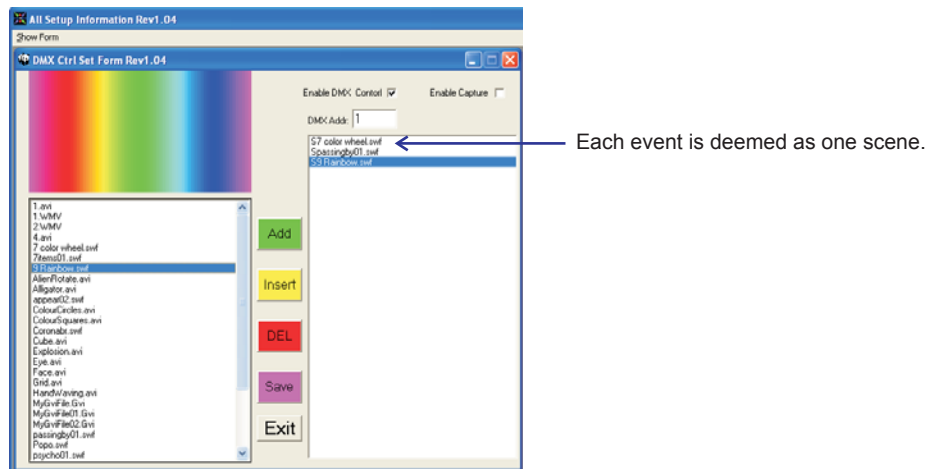
Section_4: DMX Control Mode Setup

In this mode, all scenes/Events(Flash files, Video Files, MPEG Files) are available to be controlled and playback by addressing DMX address. And user may use DMX values to control the desired scenes. For further information, please refer to the accompanying table:



1a. Firstly add all events(Flash files, Video Files, MPEG Files) in the Source Components Presentation List to the Destination Components Presentation List which you wish to control by DMX. The user can follow these below simple processes to add.

- 1.1 Select one event(Flash files, Video Files, MPEG Files) in the Source Components Presentation List which you wish, and click the "Add" icon to add. The desired one will automatically appear in the Destination Components Presentation List.
- 1.2 To repeat the above step to add more events for DMX control.
- 1.3 Enter an integer number from 1~512 in the "DMX Address" bar to set DMX starting address.
- 1.4 After your confirmation with these settings, click the "Save" icon to store them.



In this option, it allows up to 85 scenes can be added and controlled. Click the "Insert" icon to add the selected event between two events.
Click the "DEL" icon to delete the selected event.

DMX Channel Selection, DMX Value & Functions Table

DMX Channel Selection	DMX Values & Functions
Starting Channel	0 ~2, select Scene_1; 3~5, select Scene_2; 6~8, select Scene_3; 252~254, select Scene_85
Starting Channel +1	0~85 to Pause; 86~170 to Play; 171~255 to allow to Stop.
Starting Channel +2	0~127 to Normal Output, 129~255, allow to Blackout.

How To Map!

1. Welcome!

Thank you for your choosing X-Mapping of an innovative LED mapping software. X-Mapping has following functions:

- Create a mock map which defines the relationship between pixels on your computer screen and the actual device panels, bars, dots, chips or strips. After creating a map in X-Mapping, allows it to download and store in your computer.
- Configure the Art-net devices parameters as needed, i.e. **E-NODE 8** from Elation (For further information, please refer to their accompanying manual).
- Creating LED mapping patterns for use with X-software operation.

2. Installation

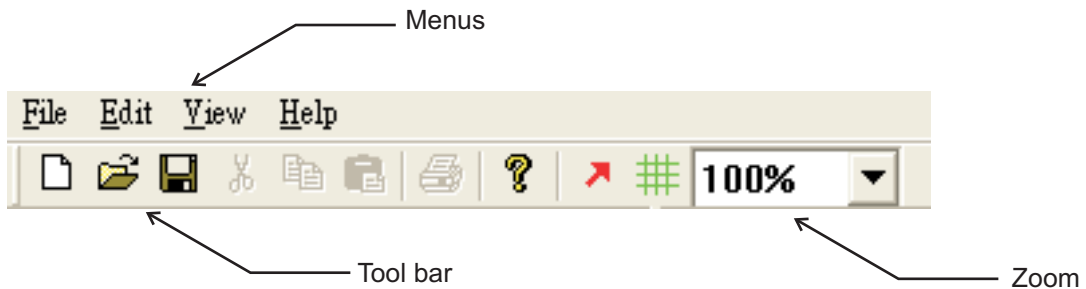
To install the X-Mapping program, simply double-click on the "SETUP.EXE" file and follow its installation process.

The X-Mapping can be uninstalled via the "Add or Remove Programs" in the Control Panel.

Important Note: All files "LED Mapping Document" which are created newly are ONLY located in the main folder for the X-Mapping to work correctly. NEVER remove these new files from their folder location.

3. Overview(Menu & Toolbar)

The illustration below shows the main features of the menu and toolbar while programming a pixel map.



The X-Mapping has four menus, three of which are always available: **File**, **View** and **Help**, but, Edit is not available at present.

File Menu:



The File menu options included New, Open, Save, Save As, and Exit. The three commonly used menu commands for opening and saving files are duplicated as buttons in tool bar;



View Menu:

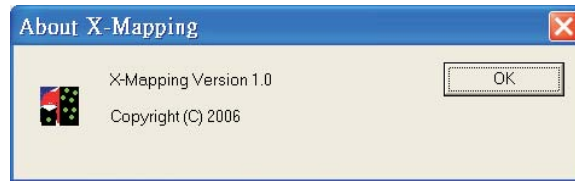


View Menu allows to display/hide the Toolbar and the Status bar, or move the Work Grid.

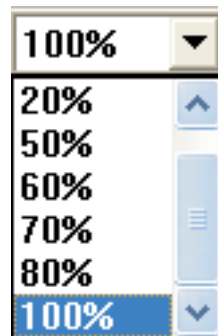
Help Menu:



Help Menu will bring up a dialog box that includes the existing version number of the software.



Zoom drop down menu can be used to move from 20% to 100% within the work grid.



4. Customizing Work Grid and Device Setup

Directly click "X-Mapping" icon to get started, and the X-Mapping main setup dialog will show as following for you.

Work Grid — Width: 400 Pixel, Height: 300 Pixel

Node Used features to enter a value of the nodes quantity which is possible to be used as needed. (If you just want to use four E-NODE 8, you MUST enter "4" in the blank.)

Select Node is a drop down menu that selects a desired. The existing selected node information will display in the "Add New Node" option.

Add New Node is an option that is used to add new node as needed, respectively entering its name, total output ports and total channels per port. ***NOTE:** For conveniently working, all nodes have been added and set up by default.

Node used: 1

Select Node: E-NODE 8

Add New Node

Node Name: E-NODE 8

Out Port Num: 8

Channels: 2048

Package Size:

Buttons: OK, Cancel, Add Node, Save Node

4.1. Before building a pixel map, it is advisable to check how many pixels all devices will occupy when placed to customize Work Grid. The Work Grid is large grey area to built a pixel map. The Width is horizontal pixel, the Height is vertical pixel. And entering the Width and Height values are to customize Work Grid size, respectively.

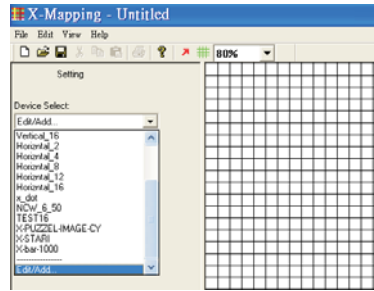
NOTE: the Width is an integer number from 1 to 800, the Height is an integer number from 1 to 600.

4.2. In this option, there are several optional features: **Node used**, **Select Node** and **Add New Node**.

To add a new device, simply follow these step;

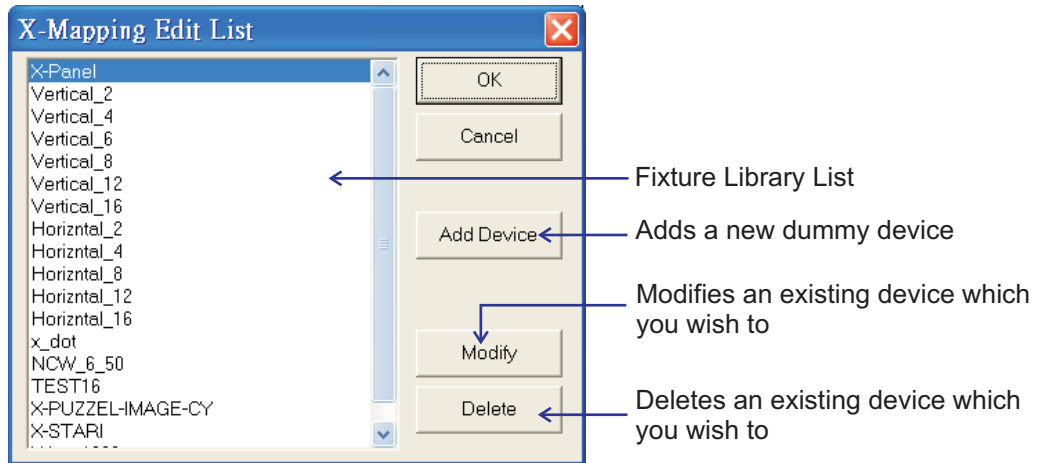
- 1) Click the "Add Node" icon.
- 2) Enter Device Name, Output Port Number and Channel Number.
- 3) Click the "Save Node" icon to save the existing setting.

5. Customizing Dummy Devices

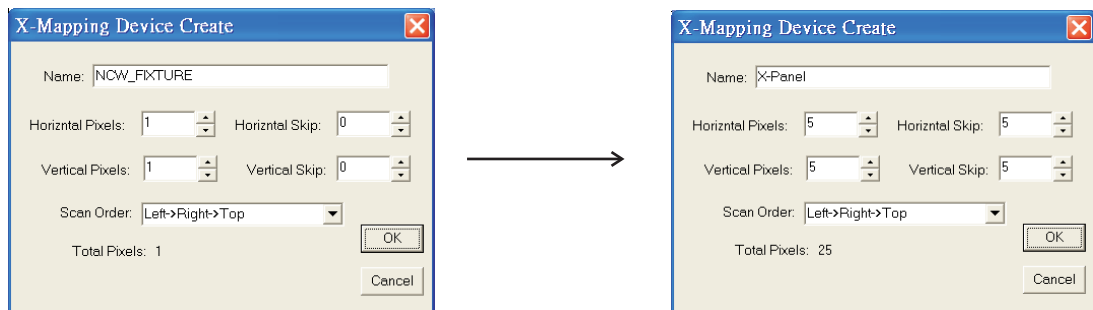


In the **Edit/Add...** option, it allows the user to choose, create or modify devices library list as needed. **Device Select** is a drop down menu that displays existing device or Edit/Add option.

Click the "Edit/Add" icon, a new dialog will show as following;



5.1. Click the "**Add Device**" icon, bring up a setup dialog box. The number of horizontal pixels and vertical pixels must be entered, same with the actual device's pixels.



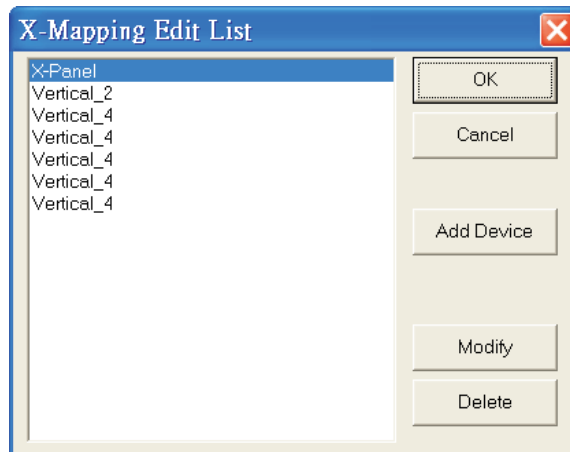
- **Name** can be modified for different groups or unique device designs as needed.
- **Horizontal** and **Vertical Pixels** define the overall number of pixels in the existing device.
- **Horizontal** and **Vertical Skip** define the offset between adjacent pixels in the device, can be used to skip a pixel within the device when it's placed on the Work Grid. Instead of having 5 consecutive pixels in a standard 5x5, you can have 5 pixels skipping one pixel in between.
- **Scan Order** is a drop down that displays device scan order, defines the direction and order in which the pixels are connected. A specific scan order may reflect the requirements of actual connection order.

Examples of standard scan orders...

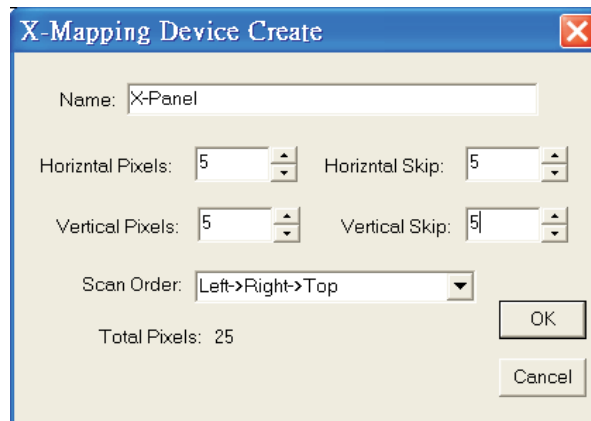
Left->Right->Top(X-Panel),
 Right->Left->Top,
 Top->Bottom->Left,
 Bottom->Top->Left,
 Left->Right->Left,
 Bottom->Top->Bottom,
 Top->Bottom->Top.

- **Total Pixels** show the device pixels's information.

After clicking **OK**, You can save your existing settings. And created device will be existing in the device library list.



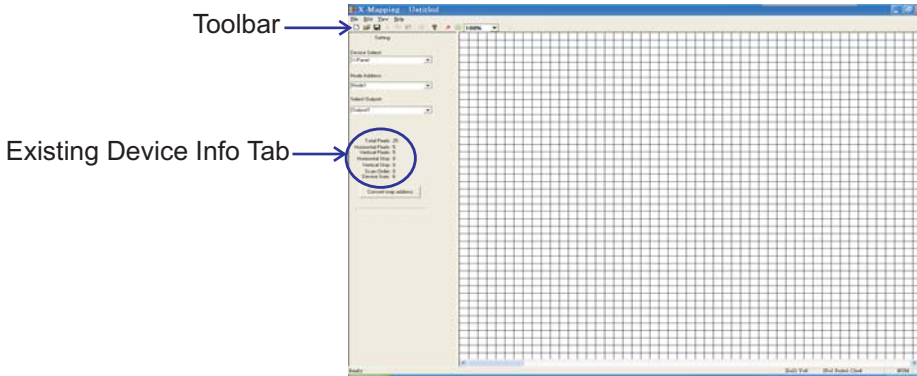
5.2. If you're not satisfied these created devices's setting, or something else wrong happens, it allows the user to modify these settings. Click the "Modify" icon, bring up a setup dialog box. The number of horizontal pixels and vertical pixels, horizontal and vertical skips can be re-entered, as well as its scanning order can be re-selected as needed.



After clicking **OK**, You can confirm and save your modification.




6. Create a Pixel Map

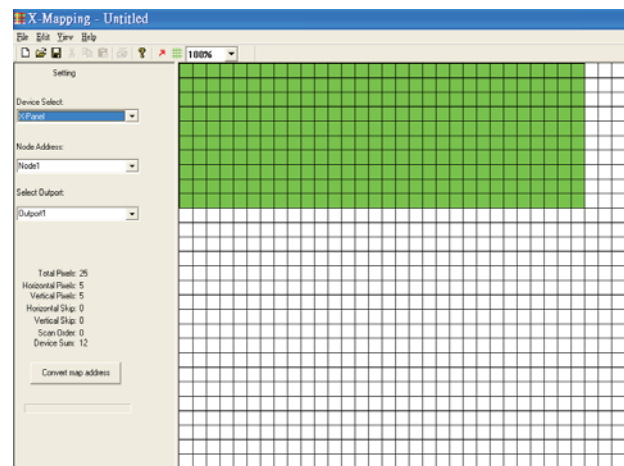
After all devices and fixtures settings are finished, access to built a pixel map as needed.




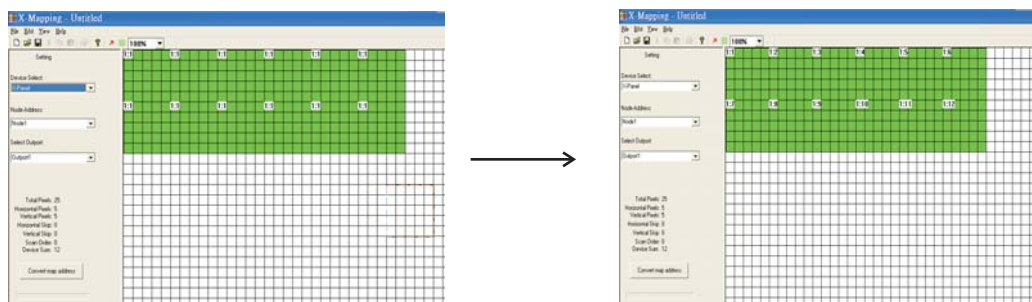
- **Device Select** is a drop down menu that displays existing device which you wish to assign the device to the Pixel Map.
- **Node Address** is a drop down menu that displays existing nodes which you wish to use to control your devices actually.
- **Select Output** is a drop down menu that displays existing output port of selected node which you wish to use to control your devices actually.

To create a Pixel Map, simply follow these steps;

- 6.1. Select an existing device which you wish to create a pixel map.
- 6.2. Select an existing node which you to use to control device.
- 6.3. Select an existing output port of selected node to control device.
- 6.4. Click the grey area in Work Grid till Arrow()turn red, Grid()turn green in Toolbar.
- 6.5. Then click the Grid() to array device's pixels and create the pixel map.

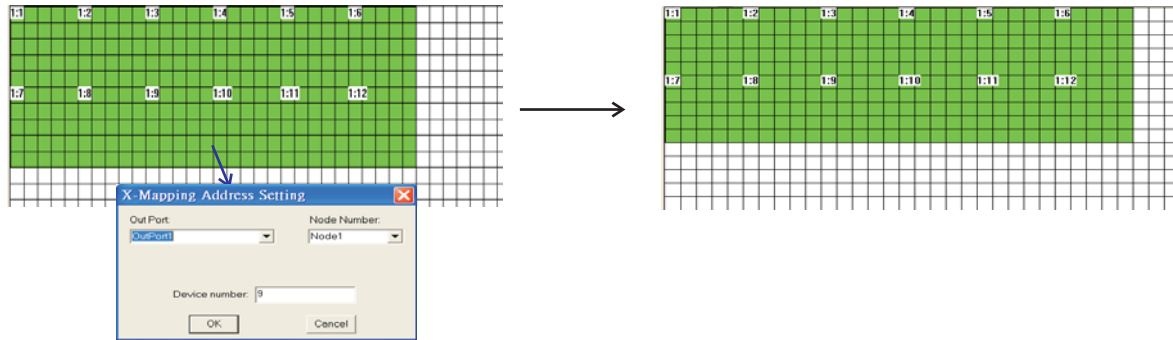


6.6. After placing the pixel map as needed, click Arrow() then click the pixel map assign devices pixels direction according to the scan order which has been set up.

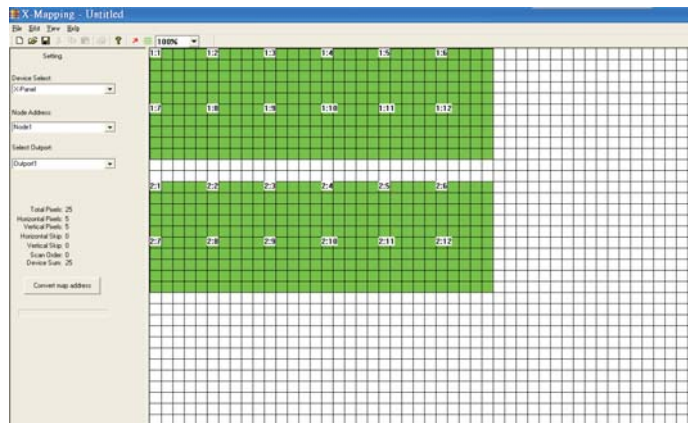


HINT:

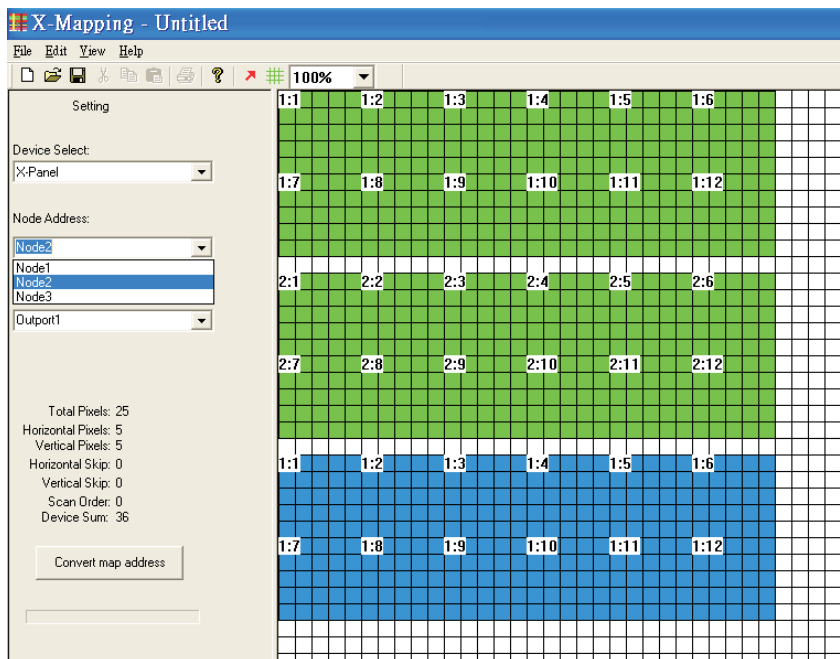
In the event of some mistakes happen, user can modify them by pointing the device number with the mouse action. A new dialog box will display and enter a correct number, then click the "OK" icon to save. You MUST ensure overall pixels array order is matching with their scanning order which has been set up.



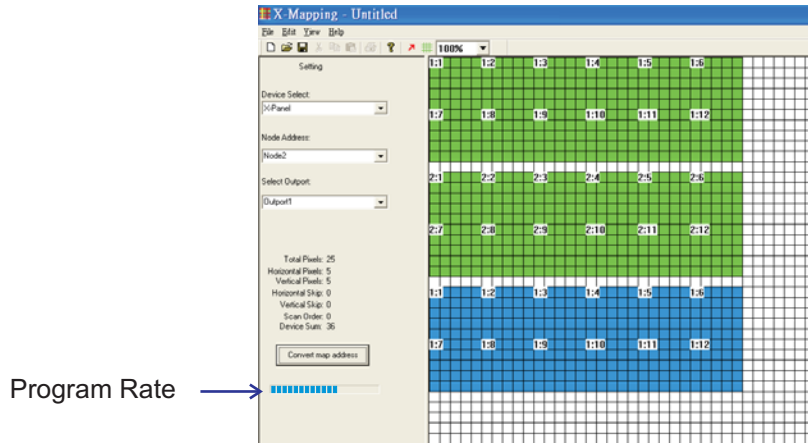
6.7. To repeat Step6.3.-6.6 to assign more output ports of the selected device.



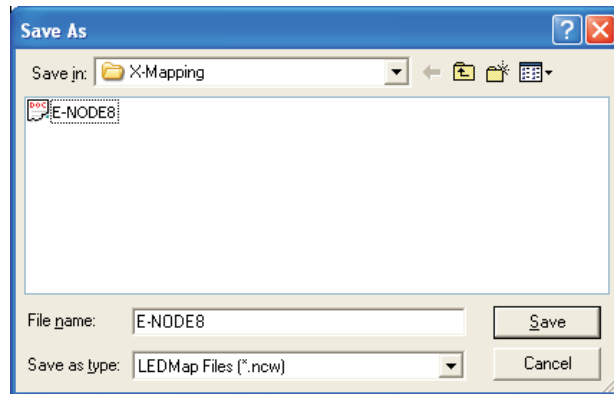
6.8. To repeat Step6.2.-6.7 to assign more same nodes to control the fixtures.



6.9. After you're satisfied with overall settings, you can click the "Convert Map Address" icon to convert the pixel map addresses.




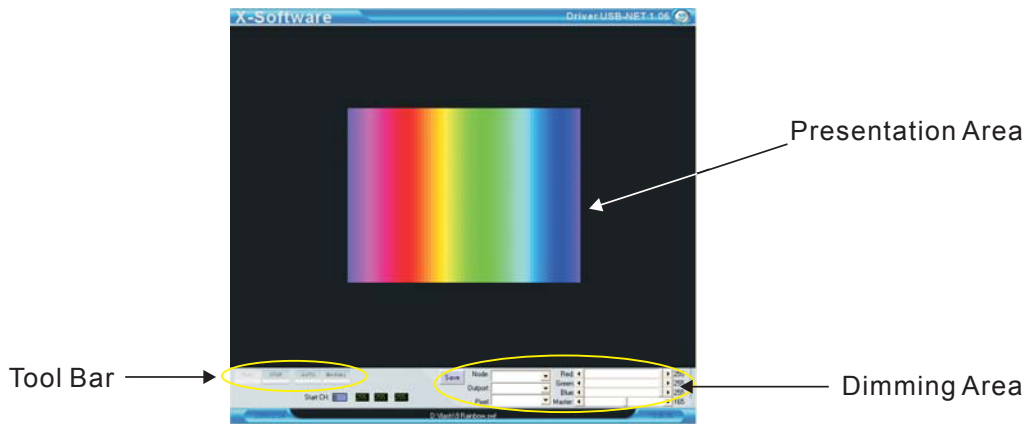
6.10. and click the " Save (📁)" icon in the Toolbar save in the main folder as a LEDMap file for X-Software operation. It is advisable to save the LEDMap document in the main folder to for working correctly.



How to playback preset Scenes by running X-Software?

Starting X-Software

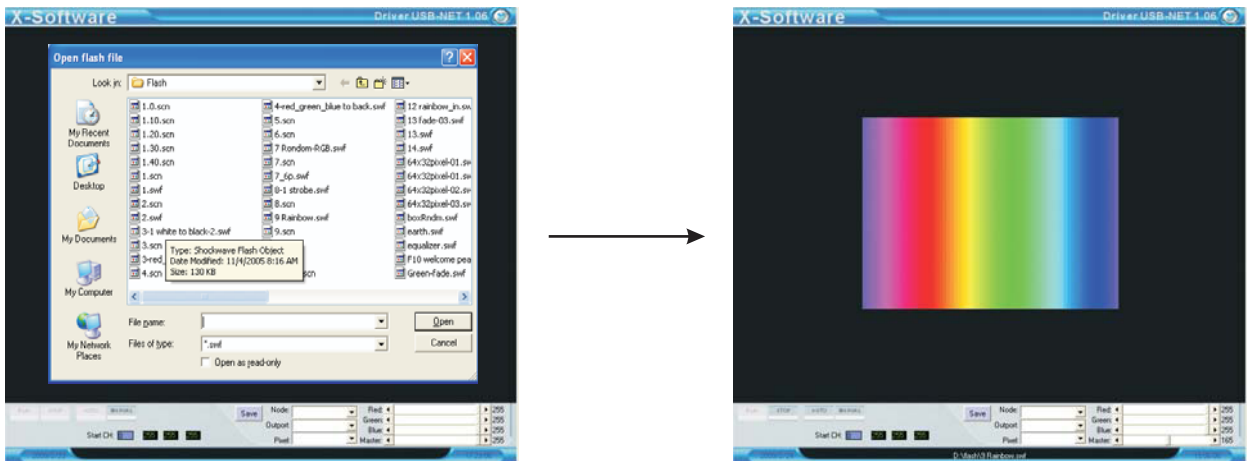
In the main folder, click the "Runproj" () icon to start your X-Software. And the X-Software will display the following screen for you;



Using the Tool Bar

Manual Mode

To manually open the Flash files, Video Files, MPEG Files which you wish to play, firstly click the "MANUAL" icon and a new dialog box (screen) will appear, indicating you to select your desired Event files in a flash file selection, then move the pointer to the "open" icon to open. (Flash files-*.swf, *.GVI, Video Files-*.AVI,*.WMV, MPEG Files-*.mpeg,*.mpg,*.mlv, *.mp2,*.mp3)



Auto Mode

To click the AUTO icon to run the current desired events automatically.

Stop Running Events

To click the "STOP" icon to stop temporarily the present desired events.

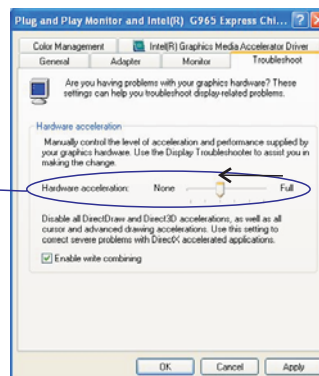
Playing Events

To click "PLAY" icon to continue to run the Events which have been stopped just before.

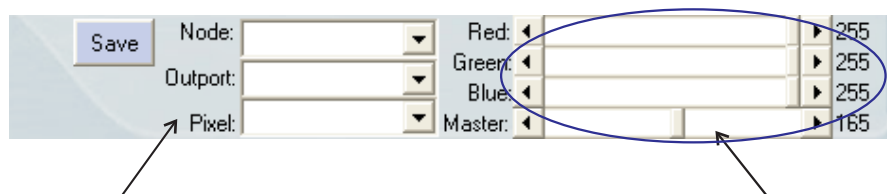
Special Notice:

When you play the Scenes with Video format , you MUST close your Hard Acceleration of your computer.

HOW TO CONFIGURE. See page 25.



Dimming Area Operation




Node is a drop down menu that displays the actual IP address of each node.

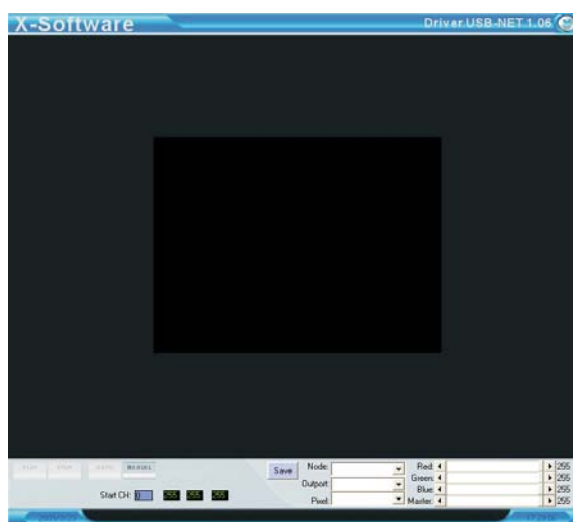
Output is a drop down menu that displays the existing output of the selected Node.

Pixel is a drop down menu that displays the existing pixel map address of the selected Output.

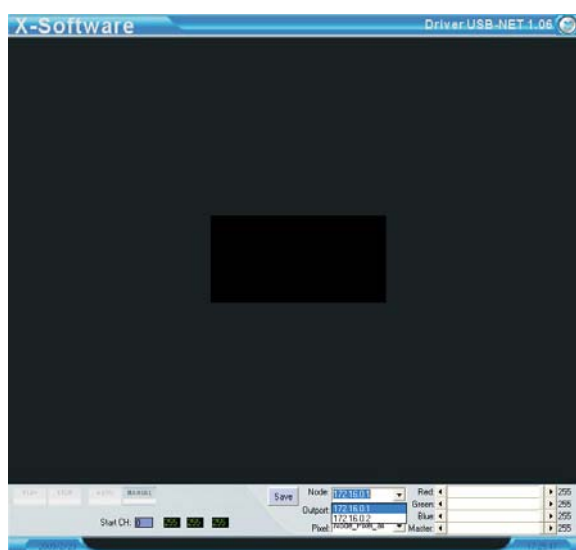
Work Grid features to adjust the brightness

Before running X-Software, it is advisable to check how many nodes are used to control the device and review all the settings in Mapping Operation.

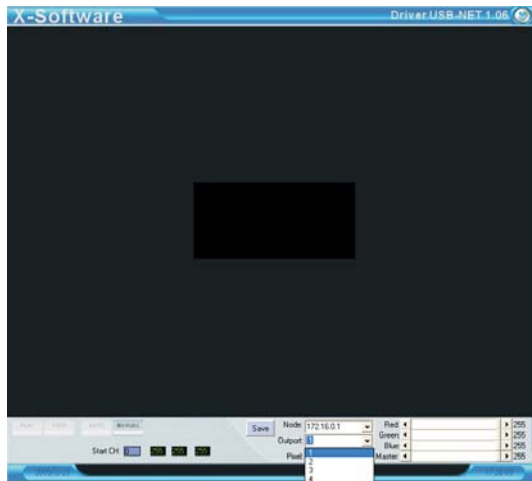
- 1.1 In the main folder, click the "Runproj" () icon to enable your X-Software. The X-Software will show you the following screen.



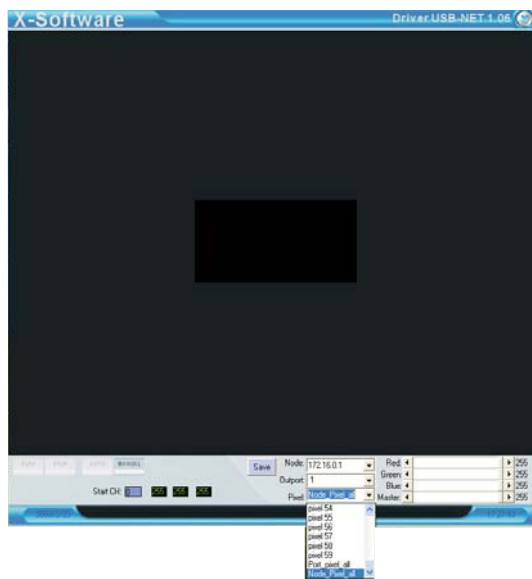
- 1.2 Select an existing node that you use to control the device. The actual IP address of each node will be listed in the drop down menu.



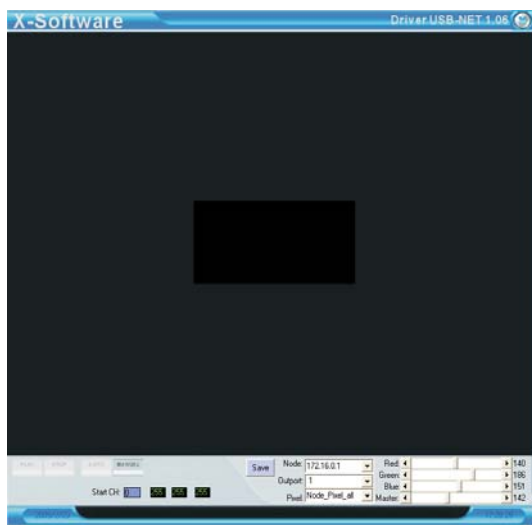
- 1.3 Select an existing output of the selected node to control the device. The outputs are set by default.




1.4 Select an existing pixel address of the selected output.
 In the drop down menu, "Port_pixel_all" means all the pixels existing in selected output, while "Node_Pixel_all" means all the pixels existing in selected node.



1.5 Adjust the brightness by moving the work grid.



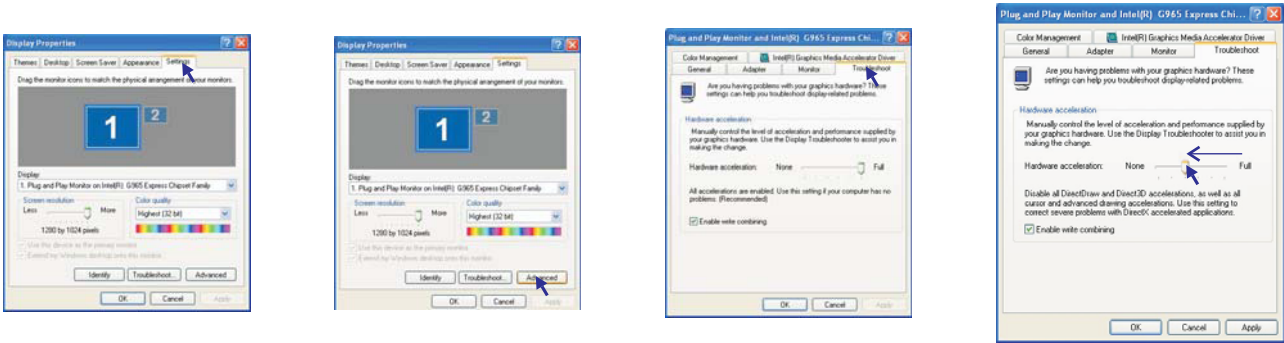
- For example:
- A. Move Red work grid to 140.
 - B. Move Master work grid to 142.
 - C. The brightness of Red color is $\frac{142}{255} \times 140 = 77.96$

1.6 Click the "Save" () icon to confirm and save your settings, otherwise all the settings will be invalid.

1.7 Repeat step 1.2~ step1.6 to assign more nodes to control the device.

The user can follow the below flow to close the hard acceleration of your computer:

Display Properties ___> Settings ___>advanced ___>troubleshooting ___>close Hard Acceleration



DMX Triggering Function(DMX Control)

In this mode, all scenes(Flash files-*swf, *GVI, Video Files-*AVI,*WMV, MPEG Files-*mpeg,*mpg,*mlv, *mp2, *mp3) are available to be controlled and playback by addressing DMX address. And user may use DMX values to control the desired scenes.

Before any DMX trigger operation, please ensure all of connections among of your E-NODE 8 and DMX Trigger device(DTC-512 or X-Trigger-USB) with your computer are be connected properly.

NOTE :

1.When you use DTC-512 as DMX trigger device, Basic Input Output System(BIOS) must be set up in Extended Parallel Port(EPP) mode in your PC before operation. And the X-Soft-Net is available in the version1.06.

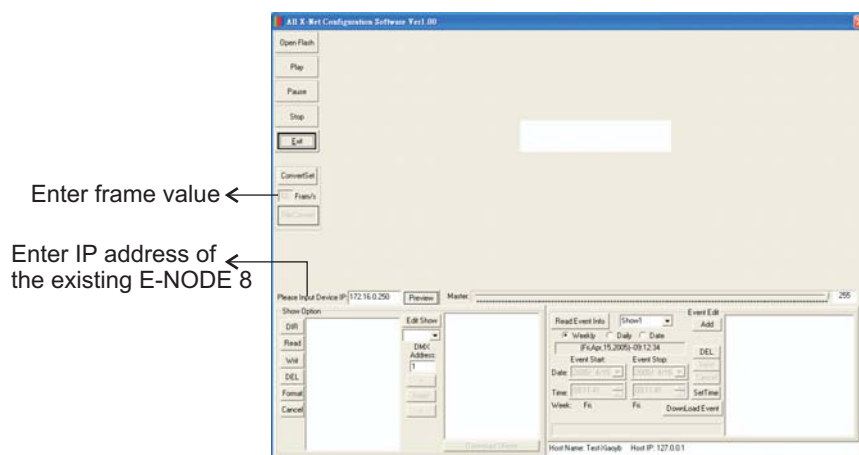
2.When you use X-Trigger-USB, the version of the X-Soft-Net must be Rev1.06.

- Click the "DMX CTRL" icon to activate DMX Control function.
- Enter the proper DMX starting addressing number as your desired before you can operate your DMX controller. And sequential three DMX channels to control a scene. Please refer to the following table for more details;

DMX Channel Selection, DMX Value & Functions Table

DMX Channel Selection	DMX Values & Functions
Starting Channel	0 ~2, select Scene_1; 3~5, select Scene_2; 6~8, select Scene_3; 252~254, select Scene_85
Starting Channel +1	0~85 to Pause; 86~170 to Play; 171~255 to allow to Stop.
Starting Channel +2	0~127 to Normal Output, 129~255, allow to Blackout.

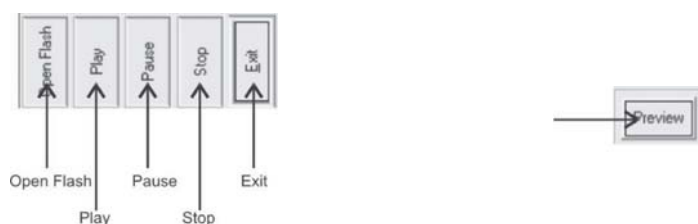
X-Net Configuration Software Operating Instruction (Software version:1.00)



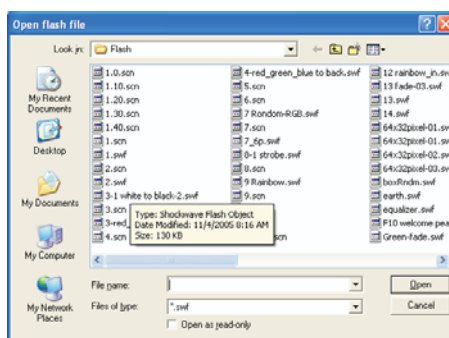
Getting started X-Driver Configuration Software (Ver1.00)

In Windows, click the Start button and go to the "Programs" then "X-Net Configuration Software". Move the pointer to the X-Net Configuration Software icon, the X-Net Configuration Software screen appears hereinafter:

1.Toolbar Operation:



1.1 Click "OPEN FLASH" icon, a dialogue box will appear on the screen.



Select your desired flash file with extension .swf and click "OPEN" icon to open, click the "Play" icon to play the flash, "Pause" icon to temporarily terminate and "Stop" icon to end.

2.FileOption Operation:

FileOption is used to control RGB lightings by adjusting contents of presentation bar.

2.1 "Fileconvert" icon used to convert the flash file with extension .swf into the file with extension .scn for E-NODE 8 playing the one directly.

2.2 "Preview" icon used to temporarily play flash files effect by E-NODE 8 controlling RGB lightings.

NOTE: Before converting flash files, please enter a valid number to set the desired flash frame in the Convert Set Option.

3.Show Option Operation:

In the option, user can assign the SHOW in E-NODE 8.

3.1 "DIR" icon use to have files in E-NODE 8 readout and list.

3.2 "Read" icon used to read pointed file in E-NODE 8.

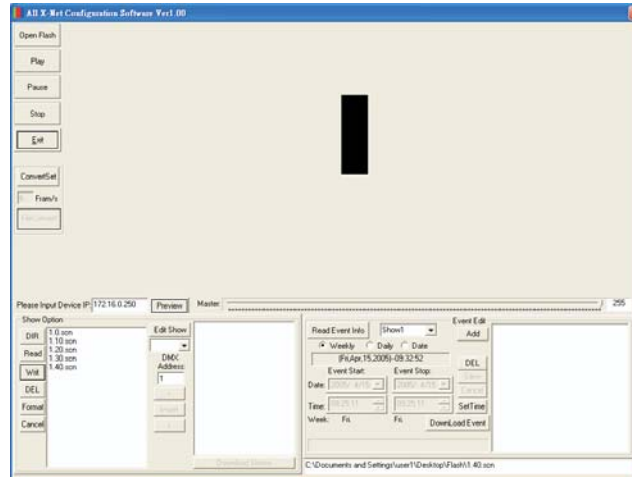
3.3 "Write" icon used to write files with extension .scn into E-NODE 8.

3.4 "Del" icon used to delete pointed files in E-NODE 8.

3.5 "Format" icon used to clear up all files in E-NODE 8.

3.6 "Edit Show" icon used to start and edit the SHOW in E-NODE 8. It is necessary to click the icon for SHOW readout in E-NODE 8.

And hereinafter is before clicking "Edit Show" icon, these icons in the "Edit Show " option is empty.



3.7 User can set up DMX initial address for E-NODE 8 controller receiving in DMX Address bar and amendment upon requirement.

3.8 How to Edit Show?

3.8.1 Clicking the DOWN Arrow of "Edit Show" icon to select your desired show.

3.8.2 Select the file in the left list and click ">" icon to invoke the desired file for your desired show.

3.8.3 And repeat Step 3.8.2 add up more files for your desired show.

3.8.4 And user can delete your unwanted files for your desired show by clicking "<" icon after pointing the selected files.

3.8.5 Clicking the "Inset" icon to invoke the same file with the previous for your desired show.

3.8.6 And clicking the "Save" icon to save your desired show in memory.

3.8.7 And repeat Step 3.8.1~3.8.6 to edit other desired shows.

3.8.8 At last, user can download edited shows to E-NODE 8 by clicking the "Download All Shows" icon.

4.Event Edit Option:

In this option, the user can call up Time Trigger Mode for SHOW by editing show events to E-NODE 8, including Weekly Mode, Daily Mode and Date Mode.

How to Edit show events?

4.1 To select your desired time trigger modes.

4.2 And select your desired trigger shows.

4.3 Then click the "ADD" icon to edit the desired time.

4.4 And click the Down Arrow under the "Event Start" icon to select the starting time of your desired show.

4.5 Then secondarily click the Down Arrow under the "Event Stop" icon to select the closing time of your desired show.

4.6 And these edited events can be saved in memory by clicking the "Save" icon.

4.7 And repeat Step4.1~Step4.6 to edit other shows events.

4.8 After these events are finished, user can download edited shows events to your E-NODE 8 by clicking the "DownLoad Event" icon.

4.9 In like manner, user can read these desired shows events in E-NODE 8 and amend upon requirement.

4.10 And the user can update your E-NODE 8 system time by clicking the "Set Time" icon.

