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TECSHOW
NAVIGATOR LITE
DMX Controller
with 192 Channels

TECSHOW NAVIGATOR LITE DMX Controller with 192 Channels User Manual

Contents

TECSHOW

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Specifications

- DMX controller with 192 channels
- Can control up to 12 units of 16 channels each
- 23 banks with 8 programmable scenes (184 scenes max)
- 8 faders to adjust DMX output level (0-255)
- 2 faders to control chase speed and fade time

Product Usage Instructions

Safety Instructions
Before starting, read the user manual carefully for safety guidelines:

- Avoid the risk of electrocution by ensuring the power cord is not crimped or damaged.
- Do not attempt repairs yourself; seek qualified technicians.
- Keep flammable materials away from the product during operation.
- Ensure the power source voltage matches the product requirements.

Unpacking Instructions Upon receiving the product:

- Unpack carefully and check all contents for completeness and good condition.

Description of the Device
The front control panel includes:

- Scanners: Select any or all of the 12 fixtures.
- Scenes: Store or run scenes.
- Page Select: Choose between channel pages A and B.
- LCD Display: Shows values and settings.
- Bank Selection: Choose from 23 available banks.
- Chases: Select from 1-6 chases.
- Blackout: Disables all channel outputs.
- Program: Activate program mode.
- Auto/Del: Select Auto run or delete scenes/chases.
- Music/Bank Copy: Trigger sound activation or copy scenes between banks.
- Fade Time Slider: Adjust the Fade Time for scene transitions.
- Speed Slider: Adjust chase speed in Auto Mode.

FAQ

- **Q: How do I set up the Navigator Lite for the first time?**
  A: Follow the safety instructions in the manual, unpack the product carefully, and familiarize yourself with the front control panel functions before use.
- **Q: Can I connect the Navigator Lite to a dimmer or rheostat?**
  A: No, never connect the product to a dimmer or rheostat to avoid damage or malfunction.
- **Q: What should I do if the product is exposed to extreme heat or moisture?**
  A: Ensure the device is not exposed to extreme conditions and disconnect mains power if necessary. Seek professional inspection before further operation.

NAVIGATOR LITE
DMX controller with 192 channels able to control up to 12 units of 16 channels each

USER MANUAL
PLEASE READ THE INSTRUCTIONS CAREFULLY BEFORE USE

OVERVIEW

Navigator Lite
Thank you for purchasing the Navigator Lite. The Navigator is a standard universal DMX 512 controller, controlling up to 192 DMX channels.
Navigator Lite is a DMX controller with 192 chan-nels able to control up to 12 fixtures of 16 channels each. The unit has a total of 23 banks with 8 programmable scenes (184 scenes max). Navigator Lite also includes 8 faders adjust the DMX output level from 0 – 255 and 2 faders control chase speed and fade time. Navigator' s new generation is here!

Specifications

Features

- 12 fixtures of up to 16 channels
- 23 banks of 8 scenes each for a total 184 scenes
- 6 chased each up to 184 scenes
- 8 faders adjust the DMX output level from 0 – 255
- 2 faders control chase speed and fade time
- Built-in Microphone
- Blackout
- Specification

Connections

- Power input: DC9~12V 300mAmin
- DMX Output: 3 pin female XLR

Physical

- Size: 19″ x 5.25 x 3″ (inch)

BEFORE YOU BEGIN

Safety Instructions

For your own safety, please read this user manual carefully before your initially start-up.

Warning

- Always connect the product to a grounded circuit to avoid the risk of electrocution. Make sure the power cord is not crimped or damaged. Check the device and the power-cord from time to time.
- Always disconnect the product from the power source before cleaning it or replacing the fuse. Never try to repair the product. This device con-tains no user-serviceable parts. Refer servicing to qualified technicians only. Repairs carried out by untrained people can lead to damage or malfunction. Make sure there are no flammable materials close to the product when it is oper-ating.
- Make sure the voltage of the power source used for the product is within the range stated on the label or on rear panel of the product.
- Never connect the product to a dimmer or a rheostat.
- Keep the device far away from children.

Important

- This device falls under protection class I. There-fore it is essential to connect the yellow/green conductor to earth.
- In the event of a serious operating problem, stop using the product immediately.
- Do not switch the device on and off in short intervals, as this would reduce the device's life. Only use device indoor, avoid contact with wa-ter or other liquids.
- Always carry the product by its mounting sides. Always disconnect power from the mains, when device is not used or before cleaning!
- Only handle the power-cord by the plug. Never pull out the plug by tugging the power-cord. Never let the power-cord come into contact with other cables! Handle the power-cord and all connections with the mains with particular caution!
- Make sure that the device is not exposed to extreme heat, moisture or dust.
- If device is dropped or struck, disconnect mains power supply immediately. Have a qualified engineer inspect for safety before operating. For replacement use fuses of same type and rating only.

Unpacking instructions
Immediately upon receiving this product, careful-ly unpack the carton and check the contents to ensure that all parts are present, and have been received in good condition.

What's included
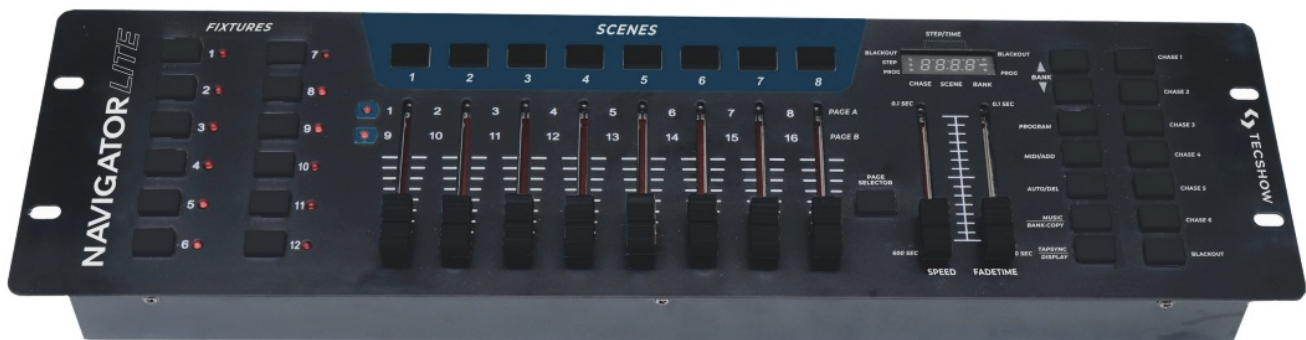
- Controller
- External Power Supply

DESCRIPTION OF THE DEVICE

Functions
Front Control Panel

- Universal DMX-512 controller
- Controls up to 192 DMX channels
- 23 banks of 8 scenes each for a total 184 scenes
- 6 chased each up to 184 scenes
- 12 fixtures of up to 16 channels
- 8 faders adjust the DMX output level from 0 – 255
- 2 faders control chase speed and fade time
- Built-in Microphone
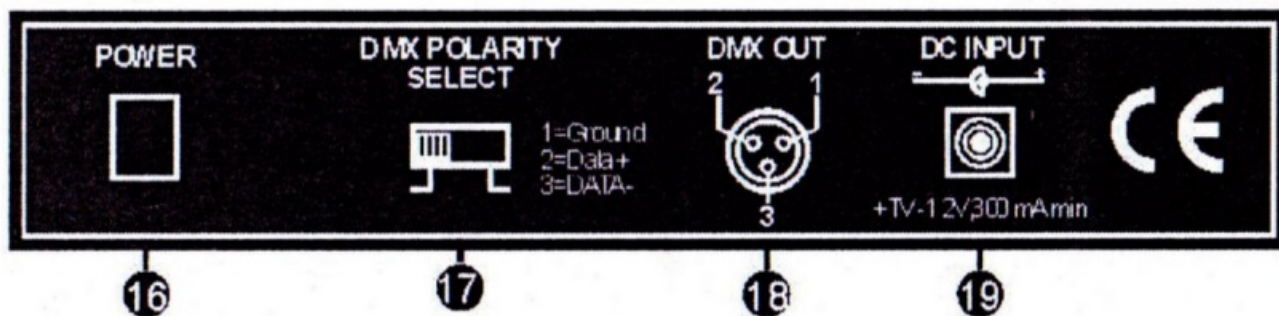- Blackout
- Output connector – 3 pin female XLR

Overview

Front Control Panel

- Scanners: To select any or all of 12
- fixtures Scenes: To store or run scenes
- Page Select: To select page A for channel lt08, or page B for channel 9 t0 16
- LCD Display: 4 – digit showing values and settings chosen
- Bank (up and down): 23 banks are available for selecting
- Chases: To select l-6 chases
- Blackout: Disables all channel outputs
- Program: To activate the program mode.
- Display links when activated
- Auto/Del: To select Auto run in chase mode or delete scenes and/or chases
- Music/bank Copy: To trigger sound activation in Chase mode or to copy a bank of scenes from one to another in program mode
- Fade Time Slider: To adjust the Fade Time. Fade Time is the time it takes the

- DMX Master to completely change from one scene to an other
- Speed Slider: To adjust the rate of chase speed in Auto Mode
- Speed Slider: To adjust the output level from 0~255 or the intensity from 0% – 100% of each channel

Rear Control Panel

- Power button: To turn on or off
- DMX Polarity Select: Make sure the polarity of your fixture and set the Navigator to the proper polarity
- DMX Output: To send DMX signal to fixtures or packs
- DC input: To supply a DC 9~12V power, 300m

INSTALLATION

Remove all packing materials from the fixture. Check that all foam and plastic padding is re-moved. Screw the equipment into a 19″ rack, can be mounted in any position; make sure adequate ventilation is provided around the product.
Always disconnect from electric mains power supply before cleaning or servicing.
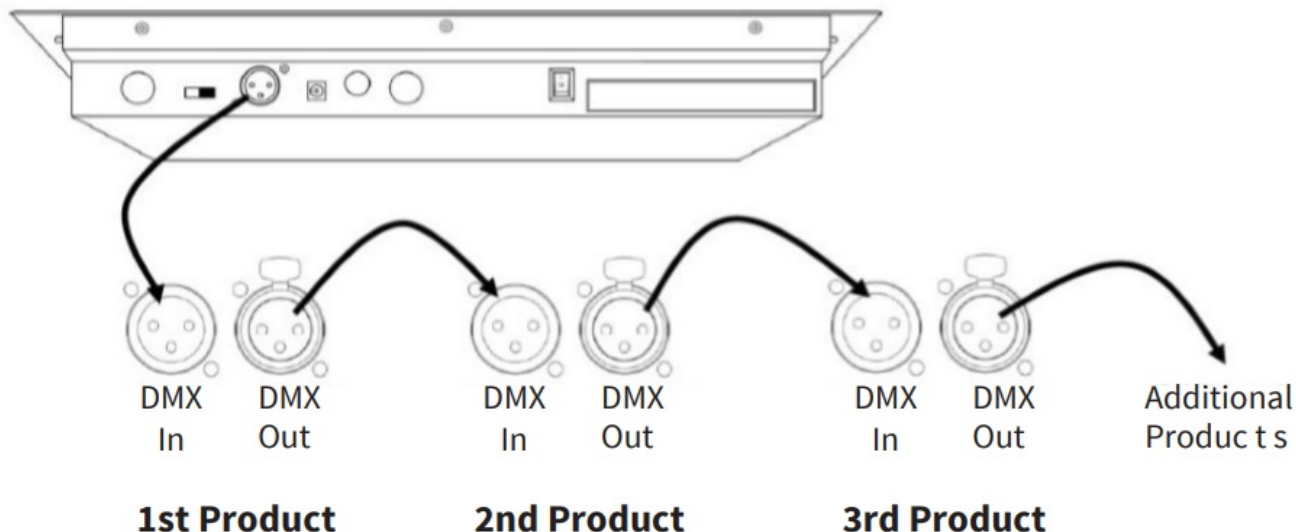
SETUP AND OPERATION

Resetting The System Warning
This will reset the controller to its factory defaults. This will erase all programs and settings.

1. Turn off the unit.
2. Press and hold BANK UPand AUTO/DEL.
3. Turn on power to the unit (while still holding BANK UPand AUTO/DEL).

DMX Cabling
DMX cabling is required to get DMX values from the board to the products. Connect the DMX cable from DMX Out of the board to DMX In of the first product in the rig. Then connect another DMX cable from DMX Out of the first product in the rig to DMX In of the next product.
Continue connecting until all the products are connected like below picture:

DMX 512 Addressing

- Dip Switch setting: Each Dip switch has an address based on binary code
- Dip Switch NO 1 2 3 4 5 6 7 8 9
- Value 1 2 4 8 16 32 64 120 256
- Select the address wanted by adding the total or
- Dip switches on Dip Switch no.10 is not used with DMX but normally to select some functions, i.e. Master/Slave.
- Sound activation, etc.
- Each of the 12 fixtures is assigned 16 channels.

The Dip switches are set as per the chart below:

Scanners	Channels	Dip switches on
1	1-16	0 0r 1 based on scanner
2	17-32	1,5
3	33-48	1,6
4	49-64	1,5,6
5	65-80	1,7
6	81-96	1,5,7
7	97-112	1,6,7
8	113-128	1,5,6,7
9	129-144	1,8
10	145-160	1,5,8
11	161-176	1,6,8
12	177-192	1,5,6,8

Note:

When addressing your fixtures, follow the starting address in this instruction not the addressing found in your fixture user manual.

PROGRAMMING

Scene Programming

1. Press and hold PROGRAM button for three seconds to activate program mode. The LCD next to "program" blinks, indicating the program has been started.
2. Select a fixture to program, by pressing any or all Scanner buttons 1 to 12.
3. Adjust the faders to the desired output level for all channels (i. E Color, Gobo, Pan, Tilt, etc.) of selected fixture or fixtures.
   Press Page Select A/B if the fixture has more than 8 channels. When selecting from Page A to B, you have to move sliders to activate channels.
4. If you have set the fixture to your liking and wish to program another fixture, press the Scanner butt on you have finished adjusting. This will hold the fixture in its final configuration. Select another fixture/s by pressing the target, Scanner button and proceed to adjust the faders To achieve the settings you desire.
5. Repeat steps 2 and 3 until you have set the fixtures the way you like.
6. When entire scene is set to your liking press and release the MIDI/Add Button.
7. Select the desired bank to store scene using the Up and Down Bank select button. There are 23 banks you can store up t0 8 scenes per bank for a total of 184 scenes.
8. Then press a Scene Button l-8 to store the scene, All LEDs blink 3 times. The LCD will display the bank. and scene where scene was stored.
9. Repeat steps 2 -8 to record your desired scenes You can Copy the settings from one scanner button to another in case you want to add more fixtures to your show.
   Just press and hold the scanner button you want to copy, then press the scanner button you want to copy toll) to exit. Programming mode press and hold the Program button for 3 seconds.

(When you exit programming, the Blackout Led is on, press Blackout button to de- function blackout).

Scene Edition
This function allows you to make changes in a previous programmed scene.

1. Press the program button for three seconds to enter program mode .
2. Use the Bank UP and Down button to select the bank that stores the scene you wish to edit.
3. Select the scene you want to edit by pressing its Scene button .
4. Use the faders to make your desired adjustments
5. Press the MIDI/Add button then followed by the Scene button that corresponds to the scene you editing to store it to memory.

You must select, the same scene you selected earlier otherwise you may accidentally record over an existing scene.

Scene Copy
This allows you to copy the settings of one scene to another.

1. Press the Program button for three seconds to enter program mode.
2. Use the Bank Button up. and Down to locate the bank that stores the scene to copy.
3. Select desired Scene you want to copy by pressing the Scene button.
4. Use the Bank buttons Up and Down to select the bank where you want to store the copies scene.
5. Press MIDI/Add followed byte Scene Button where you want to copy to.

Delete Scene
This function Will reset all DMX channels in cooperated with a scene to 0.

1. Select, the desired scene to delete.
2. While pressing and holding Auto/Del, press the Scene button (1 to 8) you want to delete.

Erase All Scenes
This will erase all scenes in all banks. All scenes are reset to 0.

1. Press and hold down Program and Bank Down buttons While power off.
2. Re-connect the power all scenes should be erased.

Copy Bank
This function enables you to copy the settings of one bank to another bank.

1. Press and hold the Program Button for three seconds to activate the programming mode.
2. Select the bank you want to copy.
3. Press and release the MIDI/Add button.
4. Select the bank into which you Want to copy to.
5. Press the Music/Bank- Copy button. The LCD display will flash shortly to indicate the copy has been finished

Delete a Bank

1. Press and hold the Program Button for three seconds to activate the programming mode
2. Select the bank to be deleted. Press the Auto/Del and Music/Bank- Copy at the same time to delete the Bank
   .The LCD will flash to indicate the function completion

Chase Programming
You have to program scenes before you can program chases.

1. Press and hold the program button for 3 seconds to enter programming mode.
2. Choose and chase (1~6) to be programmed.
3. Select the desired Scene form any bank. Scenes are run in the order that they are programmed into the chase.
4. Press the MIDI/Add button, all the LED will flash 3 times.
5. Repeat steps 3 and 4 as many as you want. You can record up to 184) scenes into one chase.
6. Press and hold the program Button for 3 seconds to exit programming mode.

Copy a Bank to a Chase

1. Press and hold the Program Button for three seconds to enter the programming mode.

2. Select the bank of scenes you wish to copy.

3. Select the chase to which you want to copy the bank of scenes.

4. Press Music/Bank- Copy, and MIDI/Add simultaneously. The scenes of the bank are copied to the Chase.

5. Press and hold the Program Button for three seconds to exit programming mode.

EDITTING CHASES

Adding a Step to a Chase
Press TAP SYNC/DISPLAY and the LCD show the scene and bank.

1. The bank containing the scene you wish to add.

2. Press TAP SYNC/Display again and LCD show the Chase that you have selected.

3. Use the Up and Down buttons to scroll through the chase to reach you have selected.

4. Press MIDI/Add, the LCD will read one step number higher.

5. Press the scene button you wish to add.

6. Press MIDI/Add again to add new step.

7. Press add hold the program button for three seconds to exit the programming mode.

8. Press and hold Program Button for three seconds to enter the programming mode.

9. Select the chase l-6 to which you wish to add a step.

Deleting a Step in a Chase

1. Press and hold the Program Button for three seconds to enter the programming mode.

2. Select the chase l t0 6 from which you wish to delete a step.

3. Press TASP SYNC/Display and the LCD shows the Chase that have selected.

4. Use the Up/Down buttons to scroll through the chase to reach the step you wish to delete.

5. Press Auto /Del and the scene will be deleted.

6. Press and hold the program button for three seconds to exit the programming mode.

Delete Chases

1. Press and hold the program button for three seconds.

2. Press and hold the Auto/Del button and then press and hold the Chase button of the have to be deleted. The LEDs will flash three times.

3. Release both button and the chase will be deleted.

Delete All Chases

1. Press and hold down the Bank Down and Auto/Del buttons while turning power off.

2. Re-connect the power, all chases should be deleted.

RUNNING SCENES

Manual Run Scenes

1. When the power is first turned on, the unit is in manual scene mode.
2. If in Program mode, press and hold the Program button for three seconds and the program LED will go out. The controller is now in Manual mode.
3. Be sure that the Auto & Music buttons' LEDs are off.
4. Select the Bank, using the Up and Down Bank buttons that stores the scenes you wish to run.
5. Press the Scene Button to run the scenes you selected.

Auto Run Scenes
This function will run a blank of programmed scenes in a sequential loop.

1. Press Auto/Del once to activate the Auto Run mode.
2. Use the Up and Down Bank buttons to select a bank of scenes to run.
    1. Now you can use the Speed Sliders to adjust the scenes to you liking. The fade setting should never be slower than the speed setting or the scenes will not be completed.
    2. You can change banks on the fly by pressing the Up and Down Bank buttons.

Music Run Scenes

1. Press the Music/Bank Copy button and the corresponding indicator light will come on in LCD.
2. Select desired bank that stores the scenes you wish to chase by suing Up or Down buttons or you can control via MIDI signals.
3. Press Music/Bank-copy once more to exit.

MIDI Run Scenes

1. Select bank to run scenes using MIDI whenever it is in Manual Auto or Music Run mode.

RUNNING CHASES

Manual Run chases
This function will enable you to manually step through a selected chase.

1. Press and hold the program butt on for three seconds to enter programming mode.
2. Start a chase by selecting one of the six Chase buttons.
3. Press the TAPSYNC button. Each time you press the button you will step through the chase.
4. Use Bank select buttons to scroll through the chases.
   Press and hold the Program button for three seconds to exit programming mode.

Auto Run Scenes

1. Press any or all of the six Chase button to select the desired chase.
2. Press and release the Auto/Del button.
   The corresponding LED Will flash.
3. Adjust the Speed and Fade Time to your desired settings. The Chase will run according to your settings.
4. You can override the speed and fade time by tapping the TAPSYNC/Display button three times. Then the chase

will run based on the time interval of your taps.

Note:

- Never adjust Fade time slower than the Speed setting otherwise your scenes will not be completed before a new step is sent!
- If you wish to include all the chases, press Auto / Del button before selecting chase.

Music Run Chases

1. Press on e of the six chase buttons to select, your desired chase.
2. Press and release the Music/Bank- Copy button.
3. The corresponding LED will flash in the LCD.
4. Your chase Will now run to the sound.

Note:
When you exit a chase by pressing the Chase button, the controller. Will automatically run the scenes that are in the last bank accessed. To stop the movement, of the lights either use the Blackout button or press Music if in music mode or the Auto button.

Chases
The DMX Master you might have to transpose your keyboard to find the proper notes.

TROUBLESHOOTING

Options

- **Colors don't resp ond when faders are moved.**

  Make sure address is correct. If the XRL cable is more than 30 meters, check if it is terminated properly.
- **Mirrors don't respond when faders are moved.**

  Make sure address is correct. Make sure speed is adjusted, if available, for faster movement. Not all fixtures have speed adjustment. If the XRL cable is more than 30 meters, check if it is terminated properly.
- **Scenes don't run after record them**

  Make sure to press Add button before pressing Scene button. Be sure you are in the correct Bank that has scenes recorded.
- **Scenes don't run correctly as recorded them.**

  Made sure all fixtures were recorded, Make sure you are in the correct bank that has scenes recorded. If the XRL cable is more than 30 meters, check if it is terminated properly.
- **Chase don't run after record them.**

  Make sure to press Add button after pressing Scene button. LED should blink after pressing Add button. Be sure you are in the correct, chase that has steps recorded. If in Auto Mode, did you adjust. Speed after selecting Auto is Fade time to long for speed selected If the XRL cable is more than30 meters, check if it is terminated properly

FOR MORE INFO ON THIS PRODUCT PLEASE CHECK **AMPROWEB.COM**

facebook.com/amprogroup
youtube.com/amprogroup

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Documents / Resources

NAVIGATOR LITE	**TECSHOW NAVIGATOR LITE DMX Controller with 192 Channels** [pdf] User Manual NAVIGATOR LITE DMX Controller with 192 Channels, NAVIGATOR LITE, DMX Controller with 192 Channels, Controller with 192 Channels, Channels

References

- 🌐 **HOME | AMPRO**
- **User Manual**