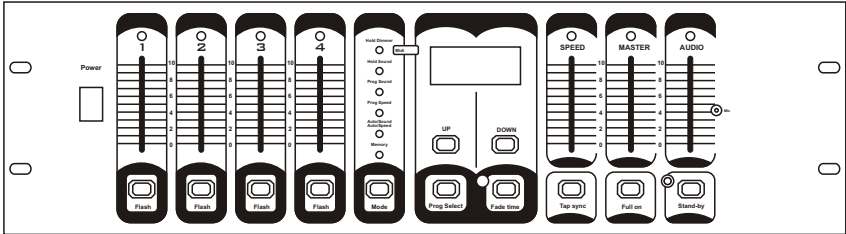




Tivano

4 CH Power Controller

USER'S MANUAL



Please read before use

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Improvement and changes to specifications, design and this manual, may be made at any time without prior notice.

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Features

Thank you for your purchase. This product features include:

- 4 channels DMX /MIDI pack
- 4 individual faders and 1 master fader
- 4 Flash buttons, Full On & Standby(priority)
- 43 preset chases with adjustable chase rate
- 7 programmable chases, each holds up to 16 steps
- Fade Time(from instant to 10 seconds) enable/disable
- MIDI channel setting allows MIDI control capable
- Auto/Audio/Speed/Tap Sync/Memory chase can be selectable
- Audio mode activated by either of built-in microphone and line in
- 4-digit LED shows chase status or programming options
- Power failure memory with the use of EEPROM

NOTE:

A knowledge of MIDI and DMX is required to fully utilize this unit.

General Instructions

Read the instruction in this manual carefully and thoroughly, as they give important information regarding safety during use and maintenance. Keep this manual with the unit, in order to consult it in the future. If the unit is sold or given to another operator, make certain that it always has its manual, to enable the new owner to read about its operation and relative instructions.



Warnings

- **DO NOT** make any inflammable liquids, water or metal objects enter the unit.
- Should any liquid be spilled on the unit, **DISCONNECT** the power supply to the unit immediately.
- **STOP** using the unit immediately in the event of serious operation problems and either contact your local dealer for a check or contact us directly.
- **DO NOT** open the unit--there are no user serviceable parts inside.
- **NEVER** try to repair the unit yourself. Repairs by unqualified people could cause damage or faulty operation. Contact your nearest dealer.

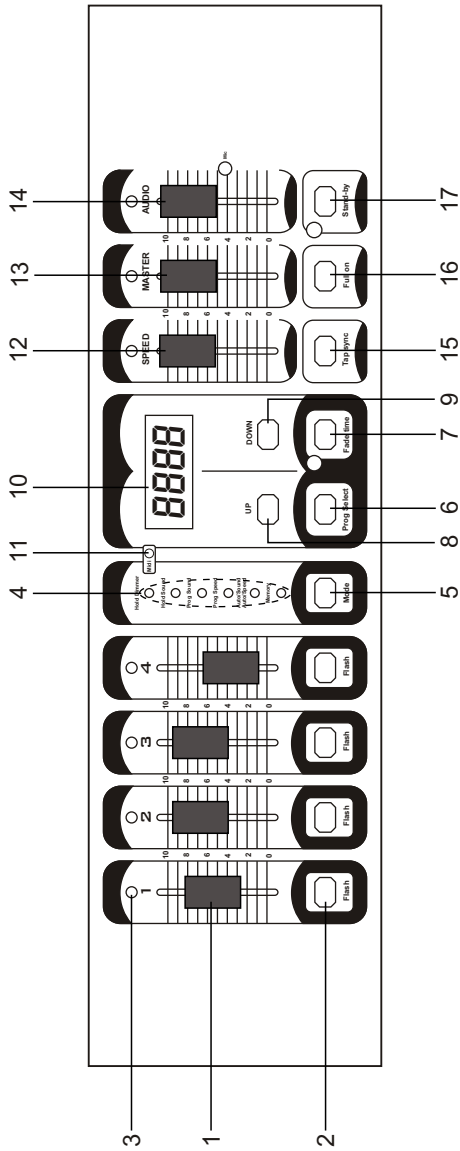


Cautions

- This unit is **NOT** intended for home use.
- After having removed the packaging check that the unit is **NOT** damaged in any way. If in doubt, **DON'T** use it and contact an authorized dealer.
- Packaging material (plastic bags, polystyrene foam, nails, etc.) **MUST NOT** be left within children's reach, as it can be dangerous.
- This unit must only be operated by adults. **DO NOT** allow children to tamper or play with it.
- **NEVER** use the unit under the following conditions:
 - In places subject to excessive humidity.
 - In places subject to vibrations or bumps.
 - In places with a temperature of over 45°C/113°F or less than 2°C/35.6°F.Protect the unit from excessive dryness or humidity (ideal conditions are between 35% and 80%).
- **DO NOT** dismantle or modify the unit.

1. Overview

1.1 Front View



1. Overview

1.1 Front View

1. Channel Faders(1-4)

These faders are used to control the intensity of channel 1-4.

2. Flash Buttons(1-4)

These faders are used to control the intensity of channel 1-4.

3. Channel LEDs(1-4)

These LEDs indicate the intensity of channel 1-4.

4. Mode LEDs

These LEDs are lit or flash to indicate the current operating mode.

5. Mode Button

This button sequences through the seven operating modes: Hold Dimmer/ Hold Sound/ Program Sound/ Program Speed/ Auto Sound/ Auto Speed/ Memory. The current mode is indicated by the Mode LEDs(4) and the LED display(10).

6. Prog. Select Button

Pressing this button 3 seconds can access to Programming mode. This unit allows you to program up to 7 chases, each chase holds up to 16 steps.

7. Fade Time Button

This button is used for activating fade in or fade out of chase. Pressing this button 3 seconds can access to MIDI channel setting, either tap of Mode(5) or Prog. Select button(6) can exit from this mode.

8. Up Button

This button is used to raise the display value.

9. Down Button

This button is used to lower the display value.

10. LED Display

Shows the current chase status or programming options.

11. MIDI LED

This LED flashes when MIDI signal is present.

12. Speed Slider & its LED

This slider controls the speed at which the programs will chase, its LED flashes indicating the chase speed.

13. Master Slider & its LED

This slider controls the intensity of the overall channels except those from the Flash buttons or Full On button, its LED indicates the intensity.

1. Overview

1.1 Front View

14. Audio Level Slider & its LED

This slider controls the sensitivity of the audio for best effect, its LED flashes indicating the beat it detected.

15. Tap Sync Button

Repeatedly tapping this button establish the chase speed.

16. Full On Button

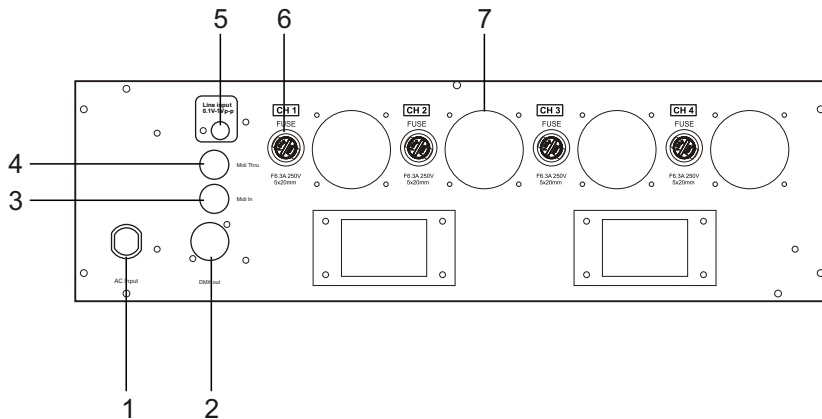
This button is used to bring the overall channels to full intensity.

17. Stand-by Button & its LED

This button is used to interrupt the overall output temporarily, its LED will flash when this function is active. A second tap of this button will deactivate this function and its LED will go out. Every time you turn the power on, this unit is always in Stand-by mode. Stand-by has higher priority than Full on and Flash buttons.

1. Overview

1.2 Rear View



1. Power Cord

Plug this cord into a matching power outlet.

2. DMX Output

This connector sends DMX data to the DMX fixture or DMX pack.

3. MIDI In

This connector accepts the incoming MIDI signal.

4. MIDI Thru

This connector sends the incoming MIDI signal through to next MIDI device.

5. Audio In

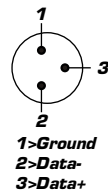
This connector accepts the audio with the range of 100mV-1Vpp.

6. Channel Fuses

Each of the four channels is protected by a 6.3A fuse. These fuses prevent your unit from overloading and damaging.

7. France PCE Outlets

One PCE socket per channel, total 4 sockets.

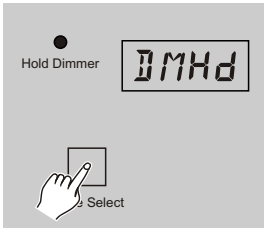


2. Operation Guide

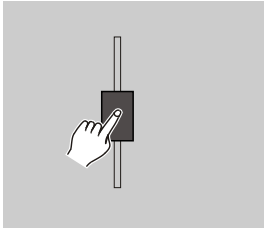
2.1 Chase Modes

2.1.1 Hold Dimmer

Every time you power up the unit, it always resume last chase mode before power off and Stand-by function is active(its LED flashes briefly). Be careful not to power on this unit twice within one second.

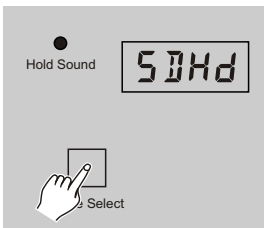


1. Tap Mode Select button until LED under Hold Dimmer is lit and the LED display reads "DMHd", this unit is in Hold Dimmer mode.



2. Move channel faders and Master slider to adjust the intensity of channel 1-4. Be sure the Stand-by LED goes out for normal output.

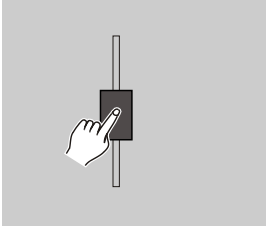
2.1.2 Hold Sound



1. Tap Mode Select button until LED under Hold Sound is lit and the LED display reads "SDHd", this unit is in Hold Sound mode.

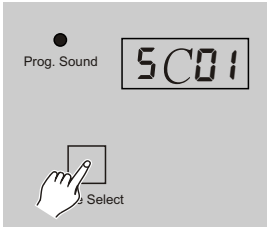
2. Operation Guide

2.1.2 Hold Sound

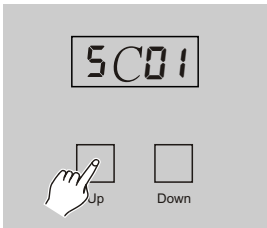


2. The overall four channels will be controlled by the audio beat detected by the built-in microphone or line in audio signal. The audio sensitivity can be controlled by the Audio level slider.

2.1.3 Prog. Sound



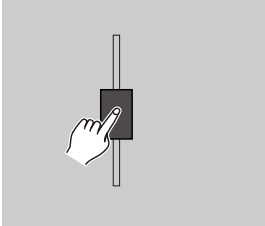
1. Tap Mode Select button until LED under Prog. Sound is lit and the LED display reads "SC01", this unit is in Prog. Sound mode.



2. The current program will be activated by the audio beat. You may select desired program from 43 preset programs using Up/Down button.

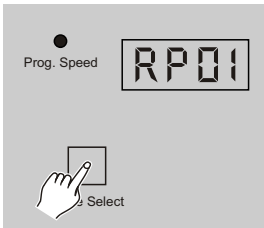
2. Operation Guide

2.1.3 Prog. Sound

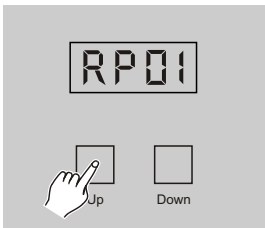


3. Adjust channel faders and Master slider for desired dimming effect.

2.1.4 Prog. Speed



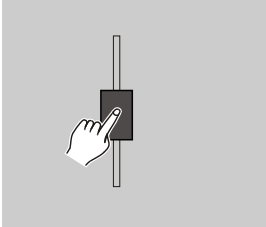
1. Tap Mode Select button until LED under Prog. Speed is lit and the LED display reads "RP01", this unit is in Program Speed mode.



2. The current program will chase uninterruptedly and you may select desired program from 43 preset programs using Up/Down button.

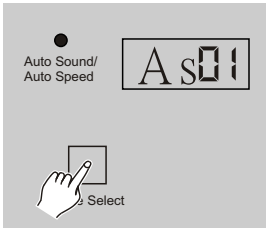
2. Operation Guide

2.1.4 Prog. Speed

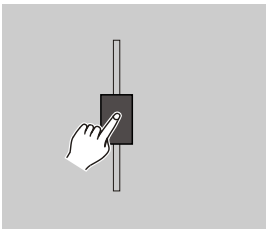


3. Adjust Speed slider(or Tap Sync) for desired chase effect. Adjust channel faders and Master slider for desired dimming effect.

2.1.5 Auto Sound



1. Tap Mode Select button until LED under Auto Sound/ Auto Speed is lit and the LED display reads "AS01", this unit is in Auto Sound mode.

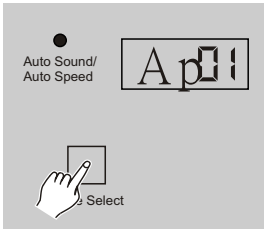


2. All 43 programs will sequence uninterruptedly depending on the audio beat, adjust Audio level slider for best effect with audio.

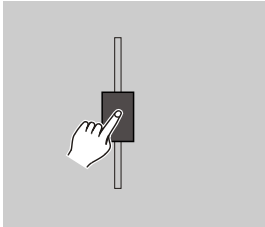
3. Adjust channel faders and Master slider for desired dimming effect.

2. Operation Guide

2.1.6 Auto Speed

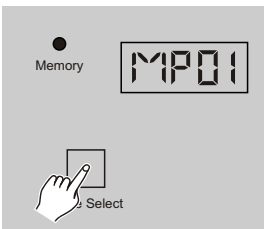


1. Tap Mode Select button until LED under Auto Sound/ Auto Speed flashes and the LED display reads "AP01", this unit is in Auto Speed mode.



2. All 43 programs will sequence uninterruptedly. Adjust Speed slider(or Tap Sync) for desired chase effect. Adjust channel faders and Master slider for desired dimming effect.

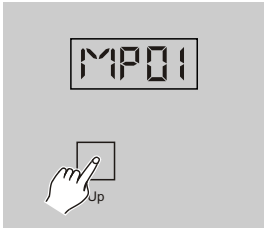
2.1.7 Memory



1. Tap Mode Select button until LED under Memory is lit, this unit is in Memory mode, the programs you made before will be activated in this mode.

2. Operation Guide

2.1.7 Memory

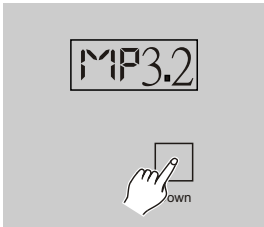


2. Tap Up button to change between MP, MS and MA.

MP--: Uninterrupted chase of any of 7 programs

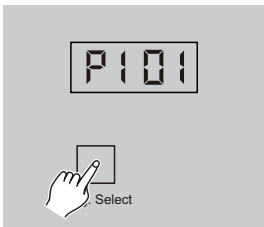
MS--: Sequential chase of all 7 programs subject to audio beat

MA--: Uninterruptedly sequential chase of all 7 programs



3. Tap Down button to select the desired program, the third character shows the program.

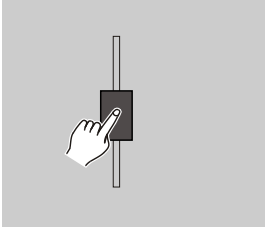
2.2 Programming Mode



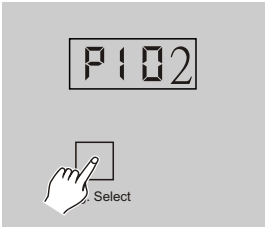
1. Pressing Prog. Select button three seconds activates Programming mode, the LED display shows "P" followed by three numbers. The second character indicates the program(1-7), and the last two characters indicate the step(01-16).

2. Operation Guide

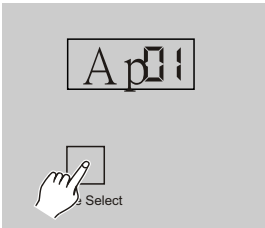
2.2 Programming Mode



2. Adjust channel faders and Master slider to desired position.



3. Tap Prog. Select button, you can store the current setting this program and the step will be increased by one.

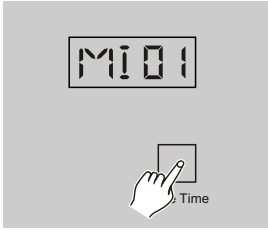


4. Continue steps 2-3 until you have finished your programming of up to 16 steps. Tap Mode Select button to exit from this mode.

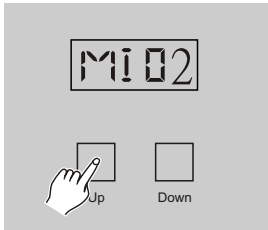
2. Operation Guide

2.3 MIDI Mode

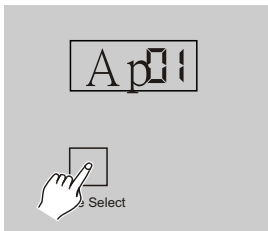
2.3.1 MIDI Channel Setting



1. Pressing Fade Time button three seconds activates MIDI channel setting, the LED display shows "MI" followed by two numbers.



2. Use Up/Down buttons to select desired MIDI channel from 01-16. Be sure your MIDI channel matches with that of MIDI sequencer.



3. Tap Mode Select or Prog. Select button to exit from this mode, the MIDI channel you set will be stored into memory.

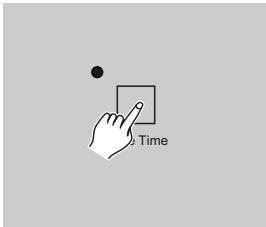
2. Operation Guide

2.3.2 MIDI Implementation

When MIDI LED flashes, this unit will receive Note Number according to the following table:

Note Number	Function
22-25	Flash buttons(1-4)
26-29	Faders(1-4)
30	Mode button
31	Up button
32	Down button
33	Fade time button
34	Full on button
35	Stand-by button

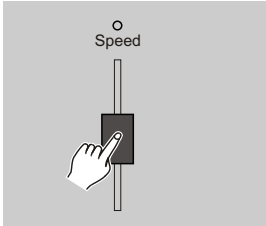
2.4 Fade Time



1. Tap Fade time button causing its LED to be lit, which indicates fade time is active. Fade time allows you to adjust the rate of fade in/out of the intensity or chase from instant to 10 seconds.

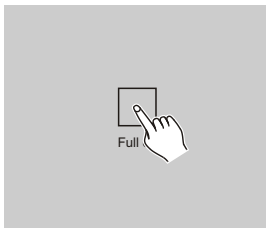
2. Operation Guide

2.4 Fade Time



2. Fade time can be controlled by Speed slider. When Speed slider is at the top position, fade time is 0, when Speed slider is at the bottom position, fade time is 10 seconds.

2.5 Full On

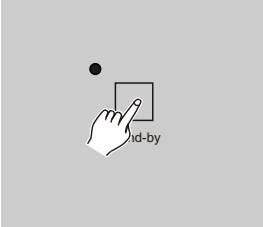


1. Pressing and holding down Full on button brings overall 4 channels output to full intensity instantly except that Stand by is active.

2. Let go of Full on button to release this function.

2. Operation Guide

2.6 Stand-by



1. Tap Stand-by button causing its LED to flash, which indicates stand-by is active. Stand-by allows you to interrupt the overall output instantly, and has higher priority than Full on or Flash buttons.

2. Tap Stand-by button again causing its LED to go out, which means stand-by is discontinued.

Technical Specifications

Power Input	AC 220-240V~50-60Hz
Channel Output	5A per channel, total 16A
Channel Fuse	F6.3A 250V 5x20mm
Internal Fuse	F0.5A 250V 5x20mm
DMX Output	3-pin female XLR socket
MIDI In/Thru	5 pin DIN socket x2PCS
Audio Input	By built-in microphone or line in
Dimensions	482x133x73mm
Weight(appro.)	5.3 Kg

