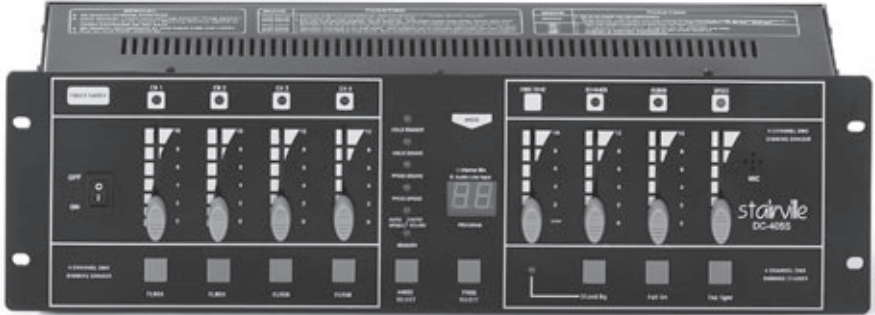


# DC-405S



Owner's Manual

# DIMMER



**Thank you** for choosing our 4 channel dimmer pack. Please read this user manual carefully and follow the instructions to avoid danger or damage to the unit due to mishandling. Keep this user guide for future reference. If you give the unit to another user, be sure that he also receives this instruction booklet.

## Safety instruction



You have to carefully read the instruction, which includes important information about the installation, usage and maintenance, **BEFORE** operating this device.

- ▶ This device is exclusively meant to be used as a dimmer pack within the limits given in this manual. Using it in any other way you risk electric shock and warranty will become void.
- ▶ Never sever or manipulate the power cord or the plug. If a power cord is provided with an earth lead, this is mandatory to ensure safe operation! Otherwise a **LIFE THREATENING** situation exists!
- ▶ Unpack and check carefully there is no transportation damage before using the unit. Never put a damaged device into operation.
- ▶ Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit as stated in this manual.
- ▶ The unit is for indoor use only. Use it only in a dry location. Exposing the device to rain or moisture would cause the risk of electrical shock or fire.
- ▶ **DO NOT** let any liquids or objects enter the unit. Should any liquid be spilled on the unit, **DISCONNECT** the power supply to the unit immediately and contact the service company.
- ▶ The unit must only be installed in a location with adequate ventilation. Be sure that no ventilation slots are blocked. In order to guarantee adequate ventilation, allow a free air space of at least 20 cm around the sides and top of the unit.
- ▶ Disconnect the device from the mains power before any servicing or maintenance.
- ▶ Notice regarding power disconnection:  
To disconnect the device from the power source the power plug must be removed from the power socket. For this reason the device must be placed in a position where a constant unobstructed access to the power socket is assured, thus in an emergency situation you are able to immediately pull out the power plug. To eliminate the risk of fire you must completely disconnect the power plug from the power socket after the device has been used.

- ▶ Always grasp the power cord by the plug. Do not pull on the cord itself and never touch the power cord with wet hands as this could result in a short circuit or an electrical shock. Do not place the device, speaker cabinets or anything else on the power cord and make sure that it does not become clamped. Place the power cord in a position where it can not be trod on. A damaged power cord can cause a fire or an electrical shock. Check the power cord from time to time. Should it become damaged contact our customer service centre to have it replaced.
- ▶ You have to ensure, that the power cord never becomes wet during operation.
- ▶ Before a storm and/or a thunderstorm with a risk of lightning, disconnect the device from the mains power supply.
- ▶ Under no circumstances may you open the device housing. Should you do so your safety would not be assured and the warranty will become void. There are no operational components whatsoever inside, only ***dangerous voltages that can give you a deadly shock!***
- ▶ NEVER use the unit under the following conditions:
  - > In places subject to vibrations or bumps.
  - > In places with a temperature of over 45 °C or less than 2 °C.
  - > In places subject to excessive dryness or humidity (ideal conditions are between 35% and 80%).
- ▶ Never submerge the device in water or any other liquid. Only wipe it with a slightly damp cloth.
- ▶ Never operate the device near flames, flammable, explosive materials, or hot surfaces. Otherwise you run the risk of causing a fire.
- ▶ Never leave this device running unattended.
- ▶ This appliance must not be used by individuals (including children) with restricted physical, physiological or intellectual abilities or deficiencies in experience and/or knowledge unless they are supervised by a person responsible for their safety or receive from this person instruction in how the appliance is to be used.
- ▶ Keep children away from the device and power cord! Children frequently underestimate the dangers of electrical devices. Also keep the plastic packaging well away from small children. There is a risk of suffocation!
- ▶ In the event of serious operating problems, stop using the unit immediately. Never try to dismantle, repair or modify the unit by yourself. Otherwise warranty becomes void. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance centre.

# Introduction

The DC-405S is a 4 channel dimmer pack. It is the most advanced unit for its size and price. The unit offers 7 operating modes, 42 built-in chasing programs, fade time control, and memory backup.

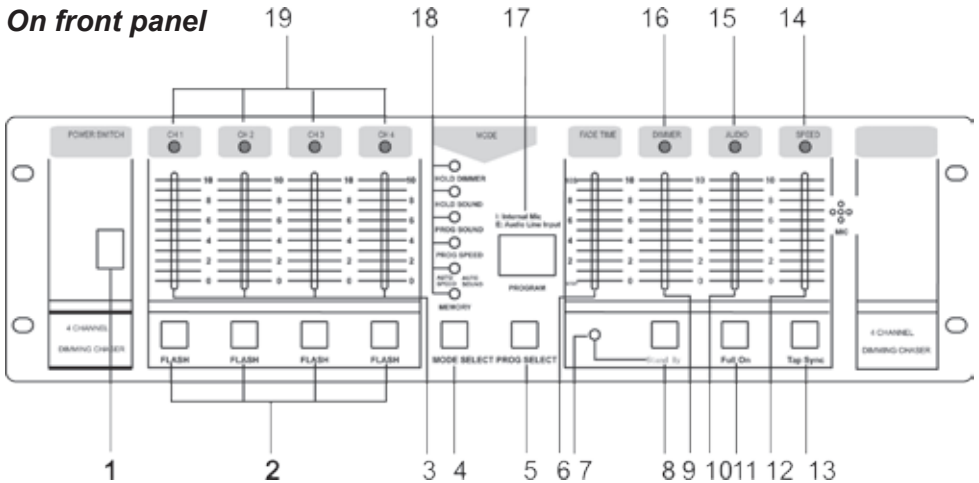
# Technical specifications

Power supply voltage	AC 230 V~, 50 Hz, 16 A
Audio input	100 mV - 1 Vpp
Fade time	0 - 10 seconds
Fuse	4 A, 250 V, 5 x 20 mm
Dimension	482 x 132 x 126.5 mm / 19", 3 rack units
Weight	4.5 kg

As we continuously strive to improve our products, all specifications and appearance are subject to change without prior notice.

# Control elements

On front panel

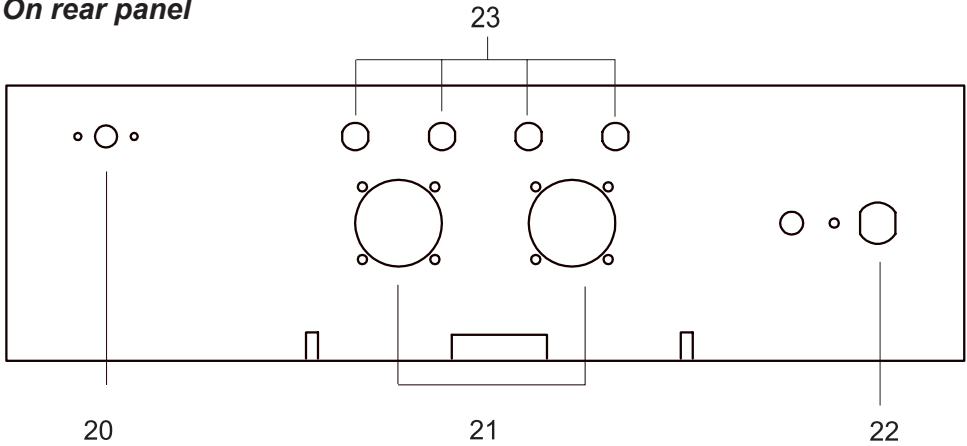


1. POWER SWITCH
2. CHANNEL FLASH
3. CHANNEL DIMMER

Press to activate channel full on.  
This control adjusts the dimming level of the corresponding channel.

- |                       |   |
|-----------------------|---|
| 4. MODE SELECT        | Press this button to select the desired mode out of “Hold dimmer”, “Hold sound”, “Progsound”, “Prog speed”, “Auto sound” “Auto Speed”, “Memory” and “Music control” from line input or built-in microphone.   |
| 5. PROG SELECT        | Press this button to select the desired program out of 42 preset programs in “Prog Sound”, “Prog speed”, “Auto Speed”, “Auto sound”. In Memory mode, you can press this button to activate a sub-mode, that lets you select the desired operating mode out of “Program”, “Manual”, “Auto sound”, “Auto speed” using the MODE SELECT button. |
| 6. FADE TIME          | This slider adjusts the delay time. It is not effective in “Hold sound” and “Memory” mode.  |
| 7. STAND BY INDICATOR | When pressing the STAND BY button, this indicator will blink.   |
| 8. STAND BY           | Press this button to force all output to “0”.   |
| 9. (Master-) DIMMER   | The fader adjusts the dimming level of all outputs.   |
| 10. AUDIO             | This fader adjusts the sensitivity of music rhythms by the built-in microphone or line in.  |
| 11. FULL ON           | This button will activate full on of all outputs.   |
| 12. SPEED             | This fader adjusts the chasing speed.   |
| 13. TAP SYNC          | This button is only effective in “Prog Speed” and “Auto Speed” modes. It is used to define chasing speed. When you press the button twice in 10 minutes, the interval between two pressings will be assigned as chasing speed.  |
| 14. SPEED INDICATOR   | This indicator shows the chasing speed.   |
| 15. AUDIO LEVEL       | This indicator shows the sensitivity of music rhythms.  |
| 16. (Master-) DIMMER  | This indicator shows the master dimming level.  |
| 17. PROGRAM           | This display shows the desired preset digit parameter.  |
| 18. MODE              | These indicators show the operating mode currently being executed.  |
| 19. CH1 - CH4         | This indicator shows the dimming level of the corresponding channel.  |

## On rear panel



- 20. Audio input
- 21. Outputs
- 22. Power cable
- 23. Fuses

Line in for audio signals (100 mV - 1 Vpp).  
Bulgin sockets.  
AC power cord with VDE plug.  
F 4 A, 250 V, 5 x 20 mm.

## Operating instructions

***You may only connect the device to a properly wired and earthed mains power wall outlet, after all connections have been established. The wall outlet must provide the correct mains voltage as stated in this manual.***

1. Confirm that the load and the power supply is connected. Then turn on the power switch.
2. Press MODE SELECT to select the desired mode from Hold dimmer/ Hold sound/Prog sound/Prog Speed/Auto sound/Auto speed/Memory.
  - HOLD DIMMER** Channel output is controlled by channel dimmer control and master control. Corresponding indicator is lighting.
  - HOLD SOUND** Corresponding indicator is lighting. Channel output is controlled by channel control. The music sensitivity is adjusted by the AUDIO LEVEL control.
  - PROG SOUND** You can select the desired program from 42 presets using the PROG SELECT button. Press that button once, then the program will be increased. Press and hold PROG SELECT for one second, then program will

	be increased by 10 steps per second. Press PROG SELECT + MODE SELECT, then program will be decreased. Corresponding indicator is lighting. Chasing speed is controlled by audio signal.
<i>PROG SPEED</i>	Corresponding indicator is lighting. Operating is same as PROG SOUND but the chasing speed is controlled by SPEED control or TAP SYNC.
<i>AUTO SPEED</i>	Operation according to PROG SPEED. In this mode each program will be executed four times. Then next program will be activated. The corresponding indicator is lighting.
<i>AUTO SOUND</i>	Operation is same as AUTO SPEED. Each program will be executed four times.
<i>MEMORY</i>	In this mode, you can select the desired operating mode from Program/Manual/Auto sound/Auto speed. The LED indicates "PR, ST, AS, AP" accordingly. Press and hold PROG SELECT, then press STAND BY once. PROG DISPLAY will show the current operating mode. Press STAND BY again to select the next mode. Release PROG SELECT, then the selected mode will be executed.
<i>PR mode</i>	Press PROG SELECT, until "0 1" appears in the display. Adjust master dimmer control or channel dimmer control to meet user's requirement. Press PROG SELECT button, then the display will flash 4 times continuously, which means it is memorized and the display will show "02". You can store programs in this way until "32" appears. Now exit from "PR" mode and engage any other mode. If you fail in a certain step, you should restart programming, otherwise the previous operation was not successful.
<i>ST mode</i>	In this mode, press PROG SELECT once. Then the program will execute the next step. The display will show the information.
<i>AS mode</i>	The program is executed according to the music rhythms. The display shows the steps.

### *AP mode*

- Program is executed automatically and the display shows the steps. You can adjust the chasing speed using TAP SYNC or SPEED CONTROL.
3. Full on and flash  
Press FULL ON button to activate the “full on” function of all outputs. Press a flash button to activate the “full on” function of one channel. These two functions are effective in any mode.
  4. Stand by  
Press this button once to turn off all outputs. Press it once more to exit stand by mode.
  5. Audio input select  
You can select audio signal from mic or audio line input. Press the PROG SELECT button and turn off the power. Wait some seconds, then turn the power on again. Now the display shows “I” or “E” (“I” = internal mic, “E” = external audio input). Press MODE SELECT once, then the audio signal will be changed and the LED display will change accordingly. Press the button again, and the audio signal will be changed again.

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## Disposal

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**Do not dispose of the device at the end of his operating life in your normal domestic waste. This device is subject to the European Guidelines 2002/96/EC.**

- ▶ Have the product disposed of by a professional disposal company or by your communal disposal facility.
- ▶ Observe the currently applicable regulations. In case of doubt contact your disposal facility.
- ▶ Dispose of packaging materials in an environmentally responsible manner.

