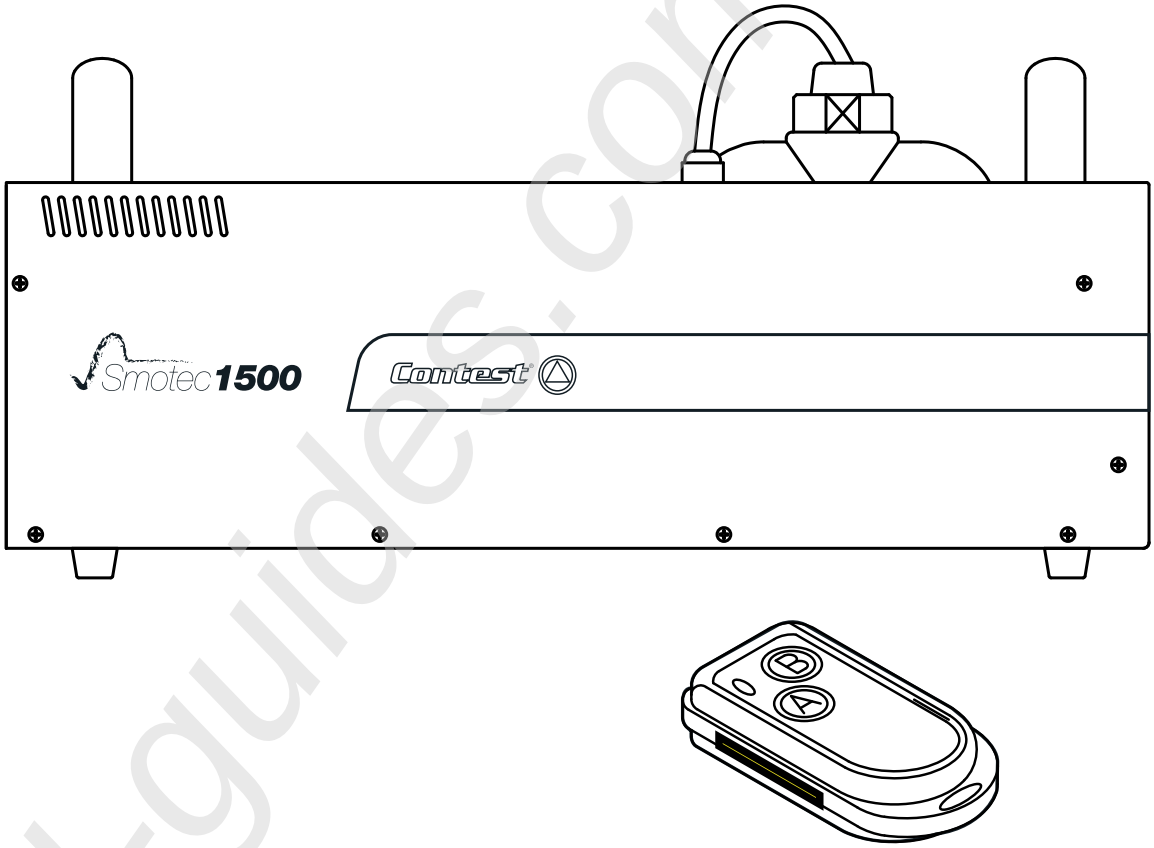
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Contest®

1500W DMX smoke machine with HF remote control and Timer



Smotec1500

USER GUIDE

9577 - December 2009 Version 1.0

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1 - Safety information

Important safety information



This unit is intended for indoor use only. Do not use it in a wet, or extremely cold/hot locations. Failure to follow these safety instructions could result in fire, electric shock, injury, or damage to this product or other property.



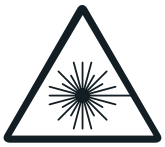
This product contains non-isolated electrical components. Do not undertake any maintenance operation when it is switched on as it may result in electric shock.



Any maintenance procedure must be performed by a CONTEST authorised technical service. Basic cleaning operations must thoroughly follow our safety instructions.



WARNING : This unit contains no user-serviceable parts. Do not open the housing or attempt any maintenance by yourself. In the unlikely even your unit may require service, please contact your nearest dealer.
In order to avoid any electrical malfunction, please do not use any multi-socket, power cord extension or connecting system without making sure they are perfectly isolated and present no defect.



Warning

This product is equipped with Class 2 LEDs.
Please avoid looking directly at the beam as it may cause severe eye injuries.



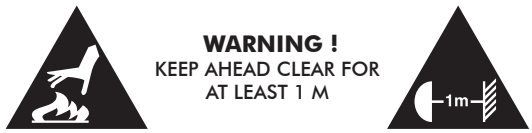
Risk of electrocution

To prevent the hazard of electric shocks, do not use extension cords, multi-socket or any other connection system without making sure metal parts completely are out of reach.



Recycling your device

- As HITMUSIC is really involved in the environmental cause, we only commercialise clean, ROHS compliant products.
- When this product reaches its end of life, take it to a collection point designated by local authorities. The separate collection and recycling of your product at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.



Scalding hazard

The outlet nozzle is at very high temperature. The smoke is also at very high temperature when getting out of the nozzle. Keep a safe distance of at least 1 m.

Symbols used



This symbol signals an important safety precaution.



The CAUTION symbol signals a risk of product deterioration.



The WARNING symbol signals a risk to the user's physical integrity.
The product may also be damaged.

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Instructions and recommendations

1 - Please read carefully :
We strongly recommend to read carefully and understand the safety instructions before attempting to operate this unit.

2 - Please keep this manual :
We strongly recommend to keep this manual with the unit for future reference.

3 - Operate carefully this product :
We strongly recommend to take into consideration every safety instruction.

4 - Follow the instructions:
Please carefully follow each safety instruction to avoid any physical harm or property damage.

5 - Avoid water and wet locations :
Do not use this product in rain, or near washbasins or other wet locations.

6 - Installation :



We strongly encourage you to only use a fixation system or support recommended by the manufacturer or supplied with this product. Carefully follow the installation instructions and use the adequate tools.
Always ensure this unit is firmly fixed to avoid vibration and slipping while operating as it may result in physical injury.

7 - Ceiling or wall installation :
Please contact your local dealer before attempting any ceiling or wall installation.

8 - Ventilation :
The cooling vents ensure a safe use of this product, and avoid any overheating risk.
Do not obstruct or cover these vents as it may result in overheating and potential physical injury or product damage. This product should never been operated in a closed non-ventilated area such as a flight case or a rack, unless cooling vents are provided for the purpose .

9 - Heat exposure :
Sustained contact or proximity with warm surfaces may cause overheating and product damages. Please keep this product away from any heat source such as a heaters, amplifiers, hot plates, etc...

10 - Electric power supply :



This product can only be operated according to a very specific voltage. These information are specified on the label located at the rear of the product.

11 - Power cords protection:



Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at lugs, convenience receptacles and the point where they exit from the fixture.

12 - Cleaning precautions :



Unplug the product before attempting any cleaning operation. This product should be cleaned only with accessories recommended by the manufacturer. Use a damp cloth to clean the surface. Do not wash this product.

13 - Long periods of non use :



Disconnect the unit's main power during long periods of non use.

14 - Liquids or objects penetration :



Do not let any object penetrate this product as it may result in electric shock or fire.
Never spill any liquid on this product as it may infiltrate the electronic components and result in electric shock or fire.

15 - This product should be serviced when :



Please contact the qualified service personnel if :
- The power cord or the plug has been damaged.
- Objects have fallen or liquid has been spilled into the appliance.
- The appliance has been exposed to rain or water.
- The product does not appear to operate normally.
- The product has been damaged.

16 - Inspection/maintenance :
Please do not attempt any inspection or maintenance by yourself. Refer all servicing to qualified personnel.

17 - Operating environment :



Ambient temperature and humidity: +5 - +35°C, relative humidity must be less than 85% (when cooling vents are not obstructed).
Do not operate this product in a non-ventilated, very humid or warm place..

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2 - Introduction

Thank you for purchasing the Smotec1500 smoke machine. You now have in your possession a high-quality, powerful and intelligent product which will enlighten your parties, animations, concerts ...

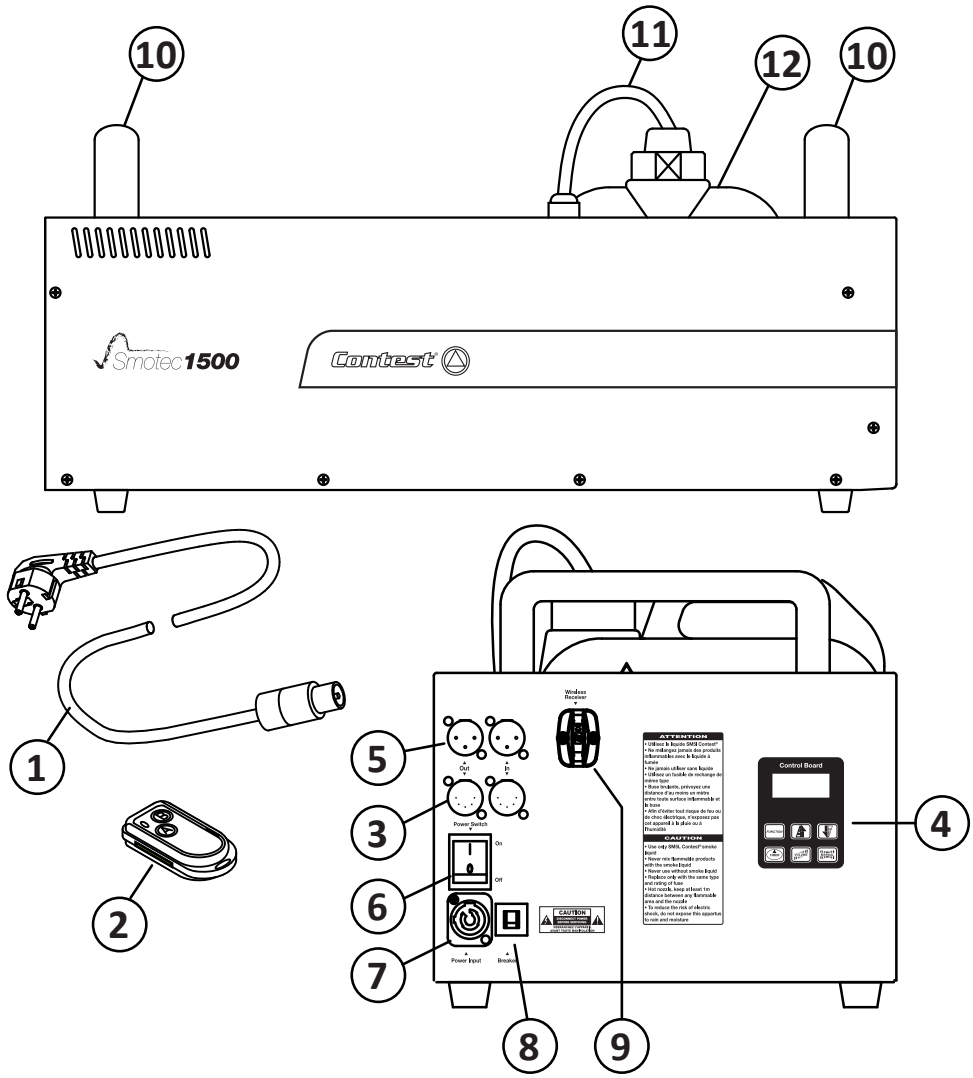
3 - Package contents

The package must contain the following articles:
- The Smotec1500 and its fluid canister
- The user guide (you are currently reading)
- A remote control
- A Powercon® cord

In the event of one or several missing articles, please contact your retailer immediately.

4 - Description

4-1 : The smoke machine



1 - Power cord
2 - Remote control
Please refer to the chapter dedicated to the remote control further in this guide for more details.

3 - DMX outputs
3 and 5-pin XLR sockets allowing you to daisy-chain DMX devices.

4 - Control panel
Allows you to configure your GEYtec. Please refer to chapter "4.3" for more information.

5 - DMX inputs
3 and 5-pin XLR sockets allowing you to receive DMX information from a DMX remote control.

6 - Power switch

7 - Power input / Fuse
Connect the supplied power cord here. The fuse has the following characteristics: 5A - 250V, 5 x 20 mm. If need to be replaced, please use a fuse with the same characteristics.

CAUTION: The supplied cable features a Powercon® connector from Neutrik®. Do not lose this cable as you will not be able to replace it by another standard EEC cord.

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8 - Circuit-breaker
Protects the Smotec1500 against overcurrent.

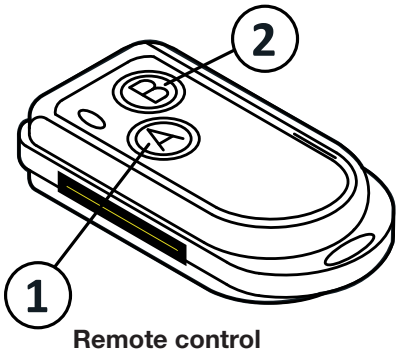
9 - HF Antenna
Receives the signals emitted by the remote control. This antenna is directly connected to the GEYtec management system, do not try to remove it as it will result in serious internal damages.

10 - Transport handles

11 - Feeding tube with filter

12 - Fluid tank
Please fill the tank before turning on the device.
Your Smotec1500 features a LED gauge automatically detecting the minimum level of fluid in the tank.
Once this level reached, the pump will be automatically deactivated and the display indicates EMPTY FLUID.

4 -2 : The remote control



Remote control


Receiver

1 - A button
Activates the smoke output.
2 - B button
Deactivates the smoke output.

Functions and settings
- The receivers can receive signals from any linked remote control.
- Each receiver can be linked to up to 5 remote controls.
- The supplied remote control has been linked during the manufacturing process and is ready to go.
- In order to use another remote control, you must link it to your Smotec1500 during the 15 seconds after you turned on your device.

Note: You must stay in a 50 m area around the machine for the receiver to maintain a proper connection with the remote control.

Linking your HF remote control (transmitter):

- When turning on your Smotec1500, the display will indicate WIRELESS SETUP for 15 seconds, meaning the receiver is awaiting information from a remote control.
- Press button A of your remote control during these 15 seconds to link it to your smoke machine.
- If information are received, the display will indicate WIRELESS SETUP OK.
- In order for a single remote control to pilot several units, turn on all the units at the same time and proceed as described above.
- If no remote control has been linked while turning on the Smotec1500, the receiver will keep the last remote control linked in memory.

Note:
- The receiver will delete the previous remote controls when trying to link a new remote control while 5 remote controls have already been linked.

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4-3 : The control panel



The control panel features 6 buttons: ***Function***, ***Timer***, ***Up***, ***Down***, ***Volume*** et ***Manual***.
The display will indicate READY TO FOG W once the preheating process has been completed, W meaning the device is waiting for information from the remote control.

1 - Once the display indicates READY TO FOG, press FUNCTION until it indicates INTERVAL SET.
This function allows you to use the UP / DOWN buttons to adjust the interval between smoke projections (from 1 to 200 seconds).

2 - Once the display indicates READY TO FOG, press FUNCTION **twice**. The display will then indicate DURATION SET. This function allows you to use the UP / DOWN buttons to adjust the duration of smoke projections (from 1 to 200 seconds).

3 - Once the display indicates READY TO FOG, press FUNCTION **three times**. The display will then indicate TIMER OUT. This function allows you to use the UP / DOWN buttons to configure the smoke quantity in Timer mode (from 1 to 100%). Press the TIMER button to deactivate the Timer mode. Press it again to activate it.

4 - Once the display indicates READY TO FOG, press FUNCTION **four times**. The display will then indicate VOLUME OUT. This function allows you to adjust the smoke output in Volume mode, via the UP / DOWN buttons. Press VOLUME to deactivate the Volume function. Press again to reactivate.

5 - Once the display indicates READY TO FOG, press FUNCTION **five times**. The display will then indicate DMX 512 ADD. This function allows you to configure the DMX address via the UP / DOWN buttons.

6 - Once the display indicates READY TO FOG, press FUNCTION **six times**. The display will then indicate WIRELESS ON. This function allows you to activate or deactivate the remote control via the UP / DOWN buttons.

7 - Once the display indicates READY TO FOG, press and hold MANUAL to force the smoke output at 100%. The smoke output will be deactivated as soon as you release MANUAL.

8 - Your Smotec1500 features an optical level sensor. The pump will automatically stop if the fluid level gets too low, the display will then indicate EMPTY FLUID. Pour more fluid into the tank and press MANUAL until EMPTY FLUID disappear.

9 - If you do not wish using the optical sensor, press FUNCTION **seven times** as the display indicates READY TO FOG. The display will then indicate FLUID SENSOR ON. Use the UP or DOWN buttons to deactivate the optical sensor. The display will then indicate FLUID SENSOR OFF. Proceed in the reverse order to reactivate it.

10 - Once the pre-heating process has been completed, the display will indicate the sensor and remote control status as follows:

- If the remote control is activated, the display will indicate: READY TO FOG W.
- If the optical sensor is activated, the display will indicate: READY TO FOG S.
- If both functions aforementioned are activated, the display will indicate : READY TO FOG WS.
- If both functions are deactivated, the display will indicate: READY TO FOG.

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5 - DMX Configuration

Your Smotec1500 features a DMX interface allowing you to control it via a universal DMX remote control. It only requires one DMX channel, controlling the smoke output. The DMX values are as follows:

Valeur DMX	Effet
006 - 255	Increasing smoke output
000 - 005	Off : No smoke

DMX Addressing

To be controlled via DMX devices, each unit needs its own DMX address so the remote control does not send information to untargeted units.
Your Smotec1500 only requires one channel.

Configure your dipswiches 1 to 9 in order for your units to receive the DMX signal. Please refer to the table below to learn about the matches between DMX addresses and the dipswitches binary code.

Dipswitches	#1	#2	#3	#4	#5	#6	#7	#8	#9
Decimal value	1	2	4	8	16	32	64	128	256

Example:

Address 1: Activate dipswitch #1 (value 1)
Address 9: Activate #1 and #4 (value 1+8=9)

6 - Preparation and maintenance

Preparation

• Fill the tank with smoke fluid. We strongly recommend to use the Contest® **FD5L** smoke fluid. It was designed to be used with the Smotec series and guarantees the best visual effects, with a very fast smoke dissipation.
• **Your Smotec1500 and the FD5L fluid have been designed and optimised to be combined together. Using any other smoke fluid will void the warranty of your smoke machine.**
• Connect the power cord of your smoke machine to an electrical outlet. If necessary, position the circuit-breaker power switch on "On".
• Connect a DMX cable from a universal DMX remote control to use it in DMX.
• Please wait approximately 8 minutes for the heater to reach its operating temperature.

Storage and cleaning

• Once done with your Smotec1500, please unplug it and empty the tank.
• Pour a small amount of deionised water into the tank, plug the machine again and use it as if it was smoke fluid, until there is no water left in order to ensure an optimal lifespan.

7 - Technical specifications

• Smoke output: 566m3 / minute
• Heater: 1500W
• Pre-heat time: 8 minutes
• Fluid tank: 10 litres
• Standard fluid consumption: 8.6 litres / hour at 100%
• Electronic management of fluid quantities
• Remote control: On /Off
• Remote control batteries : A27S DC 12V
• Control panel allowing you intervals control from 1 to 200 seconds and smoke output control from 1 to 100%.
• DMX Channel: 1
• Power supply: 230V - 50Hz
• Power consumption: 1600W max.
• Dimensions: 668 x 319 x 170 mm
• Net weight: 15 kg

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