LCU-1S

Liquid Control Unit

User Manual



English · 中文

© 2016 Antari Lighting and Effects Ltd.

LCU-1S
Liquid Control Unit

User Manual

Safety Information



Please read the following safety information carefully before operating the machine. This information includes important safeguards about installation, usage, and maintenance. Pay attention to all warning labels and instructions in this manual and printed on the machine.

If you have questions about how to operate the machine safely, please contact your local Antari dealer for help.

- Keep this device dry.
- Always connect to a grounded circuit to avoid risk of electrocution.
- Before connecting machine to power, always check voltage indicate on machine match to your local AC voltage. Do not use the machine if AC power voltage does not match.
- Disconnect the machine from AC power before servicing and when not in use.
- This product is for indoor use only! Do not expose to rain or moisture. If fluid is spilled, disconnect AC power and clean with a damp cloth. If fluid is spilled onto electronic parts, immediately unplug the machine and contact your local Antari dealer for advice.
- No user serviceable and modifiable parts inside. Never try to repair this product, an unauthorized technician may cause damage or malfunction to the machine.
- For adult use only. Never leave the machine running unattended.
- Never add flammable liquid of any kind to the machine.
- Make sure there are no flammable materials close to the machine while operating.
- Only use Antari fluid. Other fluid may lead to machine malfunction.
- If the machine fails to work, unplug the machine and stop operation immediately. Contact your local Antari dealer for advise.
- Before transporting the machine, make sure the fluid tank is completely drained.
- Fog/Snow fluid may present health risks if swallowed. Do not drink fog fluid. Store it securely. In case of eye contact or if fluid is swallowed, immediately look for medical advice.

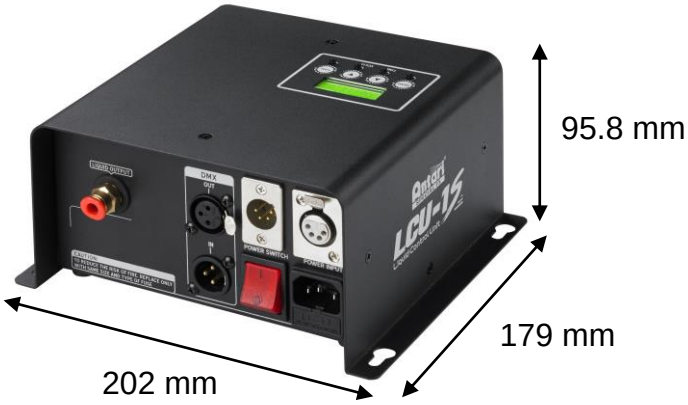
Unpacking and Inspection

Immediately upon receiving the machine, carefully unpack the carton, check the content to ensure that all parts are present and have been received in good condition. If any parts appear damaged or mishandled from shipping, notify the shipper immediately and retrain the packing material for inspection.

What is included:

1 x LCU-1S Liquid Control Unit
1 x Power Cord
1 x 4 Pin Data Connection Cable
1 x Fluid Tube
1 x Fluid Filter
1 x User Manual

Product Dimensions



Product Overview



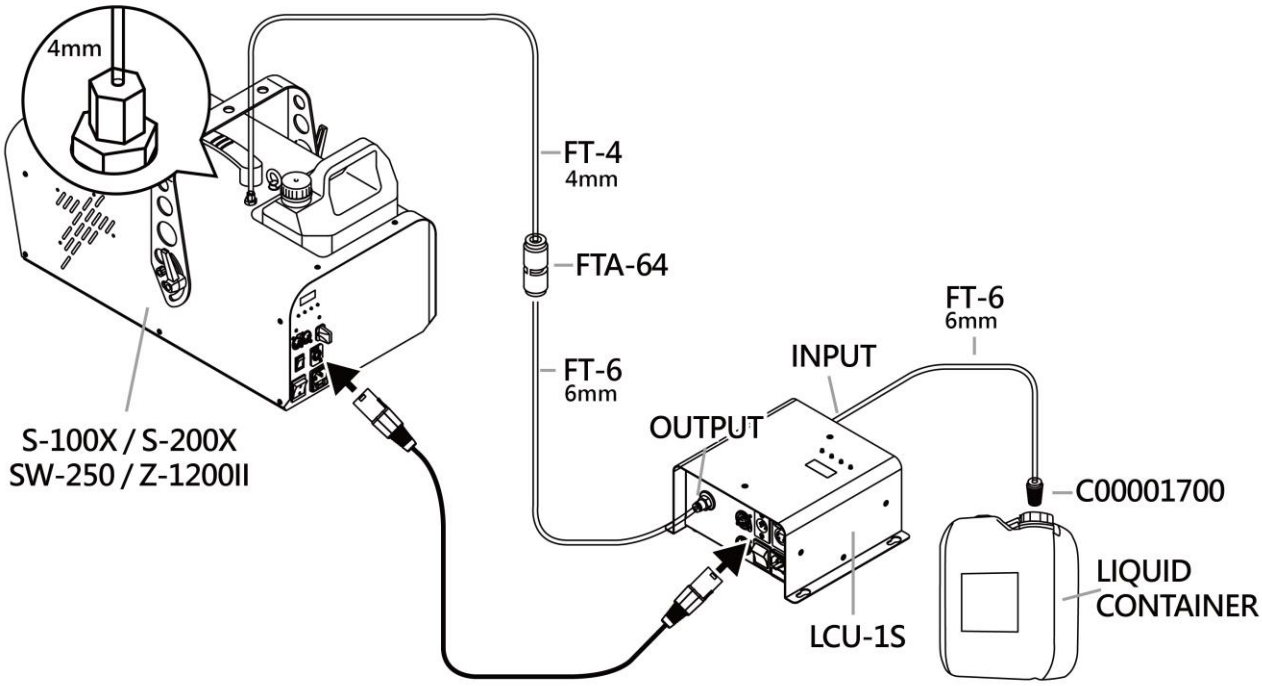
Setup and Installation

Compatible Models

LCU-1S is designed to use with Z-1200II, S-100X, S-200X and SW-250. Each model has a pre-programmed fluid flow rate to reach best performance.

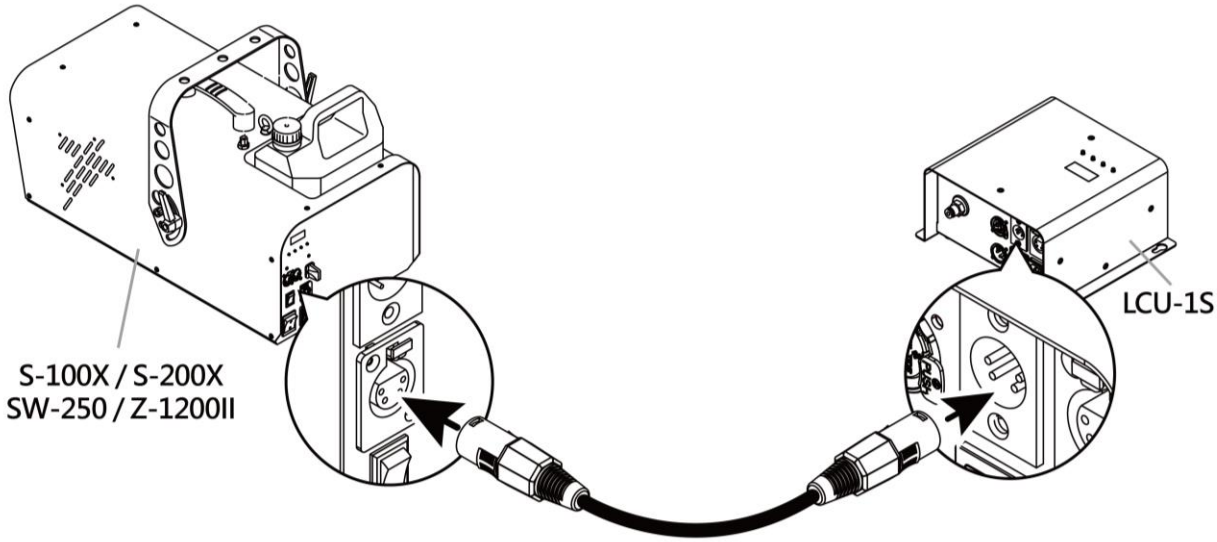
Fluid Connection

From control unit to machines the fluid flow through 6mm tube. The machine is equipped with 4mm tube, use supplied 6 to 4mm adaptor to connect from end of fluid tube to machin fluid inlet. On the input of fluid to control unit fit provided filter to the end of fluid tube prevent obstacle entering the fluid line.



Data Connection

For data connection 4-pin connector is used. Connect the output of control unit with input of remote on the machine.

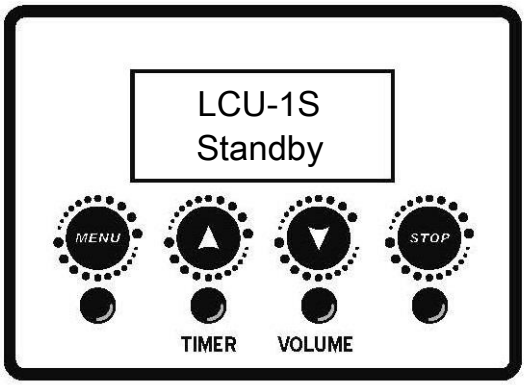


****Note: LCU-1S is designed to use with Z-1200II, S-100X, S-200X and SW-250. Can supply to one machine at a time.*

Operation

Control Panel Operation

The control unit can be operated with the onboard digital control interface.



Button	Function
[MENU]	Scroll through setting menu
▲ [UP]/[TIMER]	Up/Activate Timer function
▼ [DOWN]/[VOLUME]	Down/Activate Volume function
[STOP]	Deactivate Timer/Volume function

Control Menu

Interval XXX Sec	Set interval from 5 to 200 seconds
Duration XXX Sec	Set duration from 1 to 200 seconds
Timer Out 100%	Set timer output from 1 to 100%
Volume Out 100%	Set output volume from 1 to 100%
DMX512 Add:XXX	Set DMX address from 1 to 512
Remote Type XXX	Select remote SC-2 or Z-8
Model XXXX	Select model to operate with S-100X, S-200X, SW-250, Z-1200II

IMPORTANT: “Null” can be used with any machine required supplying of liquid, and possible to supply multiple machines. In this mode the fluid pump is program to run at full capacity, which the output volume can be adjusted manually to match the supplied machines.

Z-8 Remote Control Operation (Optional)

To operate the Z-1200II by remote control, connect the remote to the 4 pin control input located on the rear of control unit. Z-8 remote offers manual, continous and timer operation. For timer mode use rotarty knob on top to set interval, duration and output volume.



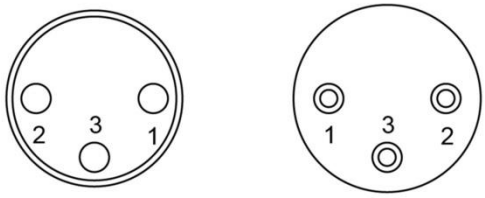
SC-2 Remote Control Operation (Optional)

Use SC-2 remote control for operation with S-100X/S-200X/SW-250. Set switch to on position to activate, and adjust the output volume by turning the rotary knob.



DMX Connector Pin Assignment

The machine provides a 3-pin XLR connector for DMX connection. The diagram below indicates pin assignment information.



3 Pin XLR

Pin	Function
1	Ground
2	Data-
3	Data+

DMX Operation

Making the DMX Connection – Connect the machine to a DMX controller or to one of the machines in the DMX chain. The machine uses a 3-pin XLR connector for DMX connection, the connector is located on the front of the machine.



DMX Channel Function

Channel Mode	Channel	Value	Function
1	1	0-4	Off
		5-255	Output volume from 1-100%

Service and Maintenance

- Do not allow the machine to become contaminated.
- Only use a damp cloth to clean the casing.
- It is recommended to run the machine on a monthly basis in order to achieve best performance and output condition.

Fuse Replacement

Disconnect AC power before replacing fuse. Only replace fuse with same type and rating.

Step 1: Disconnect power cord from supply.

Step 2: Use a flat-head screwdriver to release fuse holder.

Step 3: Replace fuse with exact same type and rating as indicated below.

Step 4: Reinsert fuse holder.

Fuse

120V = T2A 250V

230V = T1A 250V

Error Messages

System Error	Indicates the power is not switch on.

If above message shows on the display, switch on the power of control unit or contact your local Antari dealer for advise

Technical Specifications

Input voltage	AC120V, 50/60Hz
	AC240V, 50/60Hz
Fuse	120V = T2A 250V
	240V = T1A 250V
Control option	DMX 512, Cable remote, Manual,
DMX channels	1 channels, Output volume
Power connection	IEC
DMX data connection	3-pin XLR
Remote control connection	4-pin XLR
Dimension	L 202 x W 179 x H 95.8 mm
Dry weight	3.30 kg
Accessories (Optional)	Z-8 remote control, SC-2 remote control

LCU-1S
Liquid Control Unit

LCU-1S 流量供應器　中文使用說明書

使用說明及安全注意事項



在使用機器以前，請仔細閱讀以下說明，此份說明書包含了如何在安全的情況下安裝並使用機器，且會說明機器上所有標示的標籤所代表的意義。

如果您有任何使用上的問題，請聯繫當地的 Antari 經銷商尋求清楚的說明與協助。

- 保持機器的乾燥。
- 請配合接地型插座，以避免觸電的危險。
- 使用機器前，請確定使用場所的 AC 電源規格，與機器電壓規格是否相符。
- 拔開機器和 AC 電源插座時，請確認機器已關機不在使用的狀態下。
- 本產品僅限室內使用，請勿將機器暴露在雨中或潮濕的環境，如果有液體(煙霧油)翻倒或溢出，請勿連結機器與 AC 電源，用乾布擦拭乾淨，如果任何液體進入機器電子零件，請立即拔除插頭，並連繫當地的 Antari 經銷商。
- 本機器不含任何用戶拆解和自行維修或修改的零件在內，請勿嘗試自行維修或改裝機器，未經授權的技術人員，可能導致機器故障或永久損壞。
- 機器限成人操作，請勿在無人值守時讓機器運作。
- 請勿添加任何易燃物品進入機器。
- 操作機器時請確認周邊沒有任何易燃的材料。
- 為確保機器的使用壽命，請使用 Antari 品牌之煙霧油，添加其他液體可能會導致電熱管阻塞和機器的故障。
- 如果機器出現故障，請拔下機器插頭，立即停止工作。並請連繫您當地的 Antari 經銷商。
- 運送機器以前，請確認機器的油箱已完全清空。.
- 煙霧油不能食用，吞食煙霧油可能導致損壞健康的風險，請將煙霧油存放在室內安全的地方。如果碰觸到眼睛或誤吞食，請立即尋求醫生的協助。

包裝內容

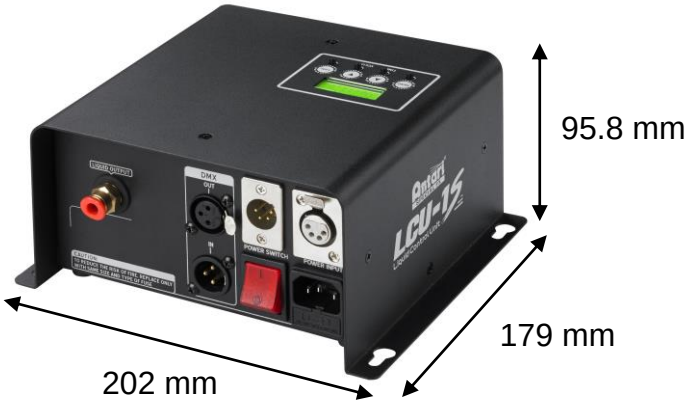
在收到機器後，請立即小心地打開包裝紙箱，檢查所有內容，以確保所有零配件都有齊全收到，

並處於良好的狀態。如果有任何部件因運輸過程出現損壞或缺少，請立即連絡經銷商，並以原包裝退回檢查。

內容包括:

LCU-1S 流量供應器 1 台
電源線 1 條
4 Pin 數據連接線 1 條
10 米的油管 1 條
FTA-64 轉接頭（6mm 轉接 4mm）1 個
使用說明書 1 本

機器尺寸



機器外觀概述



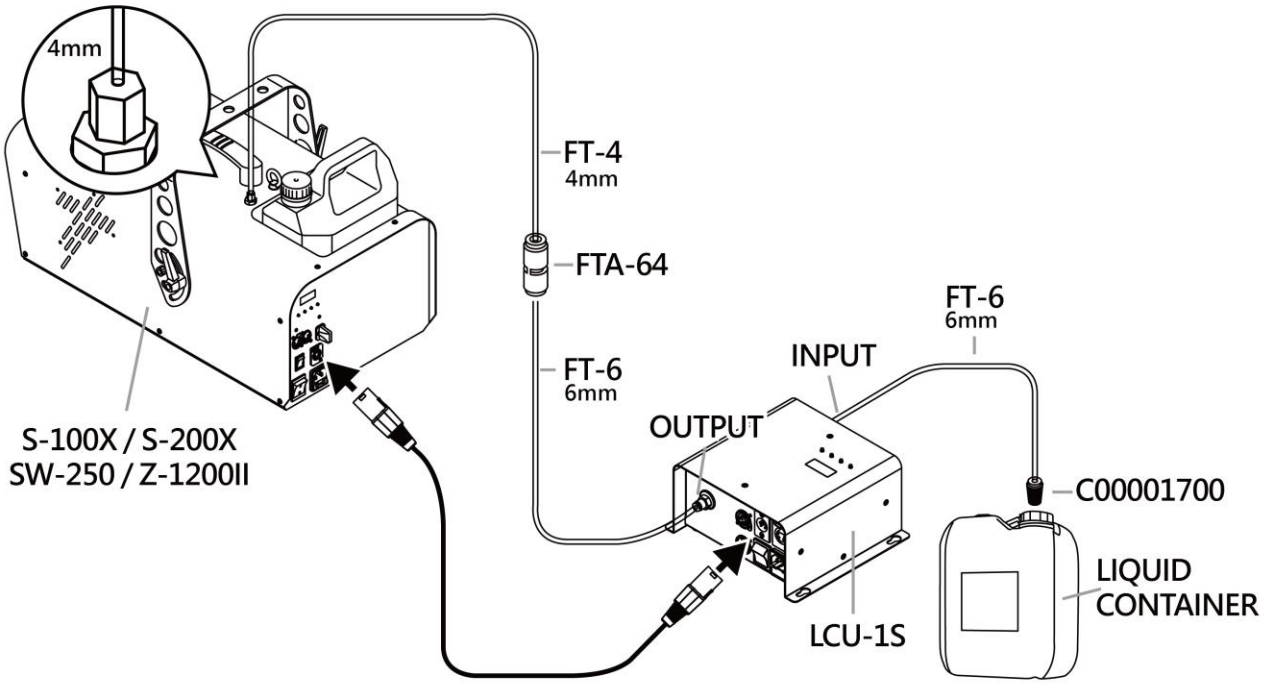
設定安裝

搭配使用型號

LCU-1S 設計搭配 Z-1200II，S-100X，S-200X 和 SW-250 的使用。每個機型都有一個預先設計好的液體流速已達到機器供應液體的最佳性能。

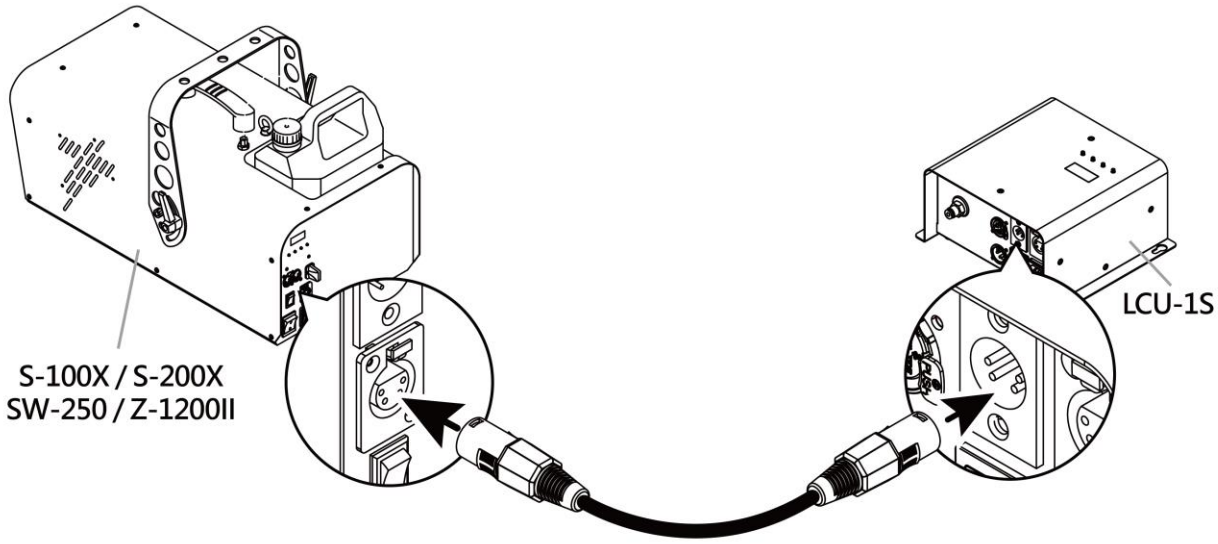
液體連接供應

從控制機器到 LCU-1S 供應器採用 6mm PU 管。該機再配用 6mm 轉向 4mm 的 FTA-64 的分流接頭，以 4mmPU 的管線從液體管的一端連接到被供應機器的液體入口。並在液體輸入到控制單元安裝過濾器在液體管的末端以防止細小雜物進入液體造成管路組礙。



連接數據

採用 4Pin 的連接器以傳輸訊號。用以連結 LCU-1S 和機器之間的輸出控制。

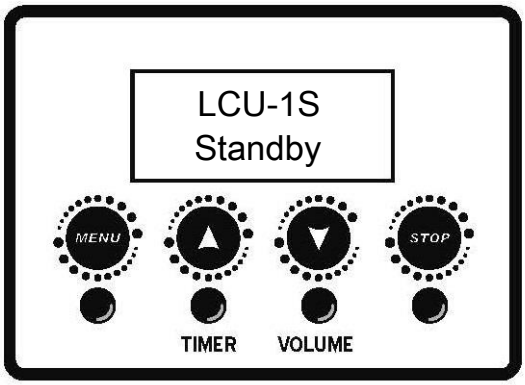


*** LCU-1S 設計供應 Z-1200 II，S-100X，S-200X 和 SW-250 使用。每次供應一台機器作使用 。

操作說明

控制面板操作

LCU-1S 配備有液晶螢幕，可經由螢幕下方的選項鈕做控制



按鍵	功能
[MENU]	瀏覽功能選單
▲ [UP]/[TIMER]	UP 功能選項和定時功能
▼ [DOWN]/[VOLUME]	Down 功能選項和輸出量功能
[STOP]	解除定時/ 輸出量功能

控制清單

Interval XXX Sec	設定 5 到 200 秒的輸出間隔
Duration XXX Sec	設定 1 到 200 秒的輸出時間
Timer Out 100%	在定時的模式設定下 1 到 100 %的輸出量大小
Volume Out 100%	在輸出量的模式設定下 1 到 100 %的輸出量大小
DMX512 Add:XXX	設定 DMX 從 1 到 512 的位址
Remote Type XXX	選擇 SC-2 或 Z-8 的控制器
Model XXXX	選擇搭配使用的機型 (Z-1200II, S-100X, S-200X, SW-250 以正確的計算機器在安全控制下的有效輸出。)

控制選項的模式中還有 Model Null (空白)選項，在這個模式下，可以一台 LCU-1S 可以和任何一台需要液體的機器或與多台機器連接使用。此模式下，幫浦設定為全力輸出，可以手動調整輸出量。(多台連結使用，請參考 LCU-1 的使用說明。)

Z-8 控制器 (選配)

透過 Z-8 控制器來控制 Z-1200II 煙霧機，將 Z-8 控制器連結機器背後的 4-pin 輸入孔，利用控制器上的旋鈕進行控制煙霧的定時設定、輸出間距、輸出時間及輸出量設定。



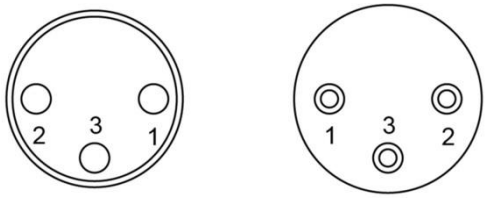
SC-2 控制器 (選配)

透過 SC-2 控制器來控制 S-100X, S-200X 及 SW-250，將 SC-2 控制器連結機器背後的輸入孔，利用控制器上的旋鈕進行控制雪花輸出量設定。



DMX 連接 Pin 點說明

本機提供了 DMX 連接 3 Pin XLR 的 DMX 連接選擇。下方為 Pin 接點說明：



3 Pin XLR

Pin	功能
1	接地
2	數據-
3	數據+

DMX 操作

建立 DMX 連接 –將機器連接到 DMX 控制器或 DMX 鏈中的機器之一。本機採用的 DMX 連接座是 XLR 3 Pin 連接座，該連接器位於機器的前側。



DMX 通道功能

通道模式	通道	DMX 數值範圍	功能
1	1	0-4	關閉
		5-255	控制輸出量從 1－100%

維護與保養

- 請保持機器潔，不要讓機器髒汙。
- 機殼可使用濕布擦拭。
- 建議每月至少讓機氣溫機並運轉一次，以保持機器處於最佳的性能和輸出條件。

更換保險絲

更換保險絲前關閉電源。並限使用相同類型和等級的保險絲。

第1步：關閉電源

第2步：用平頭螺絲刀鬆開保險絲座

第3步：更換相同類型和等級的保險絲如下所示

第4步：裝回保險絲座

保險絲規格

120V = T2A 250V

230V = T1A 250V

錯誤訊息

System Error

顯示電源未開啟

若控制螢幕顯示以上訊息，請將電源開啟或連繫您當地的 Antari 經銷商，尋求清楚的說明與協助。

規格資料

電壓	AC120V, 50/60Hz
	AC240V, 50/60Hz
保險絲	120V = T2A 250V
	240V = T1A 250V
控制方式	DMX 512, 有線控制器, 手動控制
DMX 通道	佔用 1 通道, 輸出量
電源連接	IEC
DMX 數據連接座	3-pin XLR
控制器連接座	4-pin XLR
外型尺寸(mm)	長 202 x 寬 179 x 高 95.8
淨重	3.30 kg
選配配件	Z-8 控制器, SC-2 控制器

For current product information visit Antari at:www.antari.com
For information requests please contact us at:sales@antari.com

C08LCU1S0

www.antari.com