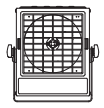
FAN Type Ionizer
風扇型靜電消除裝置

KIF-2000A 使用說明書

1. 產品內容清單



本體
(含固定座)

標準配件：

- I/O 連接埠端子 (KIF-OC1)
- 使用說明書 (本冊)
- 接地線
- 安全濾網 (KIF-OF2)

選購品：



電源轉換器組
(KIC-03)

2. 特點與優點

❶ 體積小、重量輕、出風可調，用於桌上或設備都很方便。
❷ 高周波交流放電，離子綿密可深入凹處，確實消除靜電。
❸ 高精度離子平衡。
❹ 近處、遠處皆可高速除電。
❺ 放電異常時， 警示燈及接點輸出，有效監控 。
❻ 自動清針模組， 維護容易。

3. 產品用途說明

本產品風扇型靜電消除器，係針對電子部品、塑膠製品、薄膜製程等各種產業，在生產過程中，能簡單快速的去除靜電，大幅提升產品的品質及生產良率。

4. 除電時間 (sec)

型號 \ 除電距離	300mm		600mm		900mm		1200mm	
	+	-	+	-	+	-	+	-
KIF-2000A	1.1	1.3	1.6	2.2	2.9	3.8	4.9	5.7

註：本表數據係出廠檢驗值，非保證值，實際除電時，視現場環境而定。

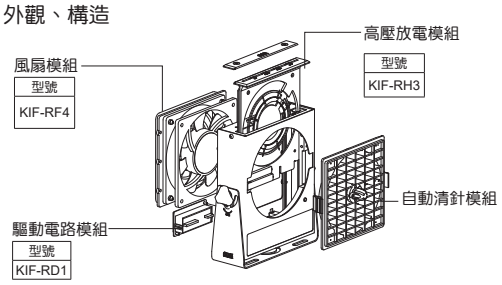
5. 規格

		KIF-2000A
離子產生方式		電暈放電
放電針電壓施加方式		高頻AC 約 2KV,72KHz
靜電消除時間 (由±1000V至±100V)★1		約1秒
離子平衡		±10V
風量 CFM(M^3/min)		64~150 CFM (1.82~4.26)
臭氧量(150㎜處)		0.007ppm
外部清針控制		電壓入力 (DC10V~30V)
警報輸出 ★2	風扇停止	有
	放電異常	有
	清針模組異常	有
環境溫度		0~40°C (indoors 室內)
相對濕度		35%~75%，無凝結
入力電源		DC24V ±5%
消耗電流		500mA
重量(不含固定座) (g)		683
本體保固		二年

★1 依最大的空氣速率測量，位於空氣出口中心距離風扇的正表面 300mm 處，所得之結果。
★2 出力接點信號 NC/NO 面板切換 (50mA)

⚠ 1. 若輸入電源小於 DC24V，則風扇風量及釋放離子量皆會下降，影響除電效果
⚠ 2. 使用輸出入信號接點前，請先參考 9. 接線範例說明。

6. 外觀、構造

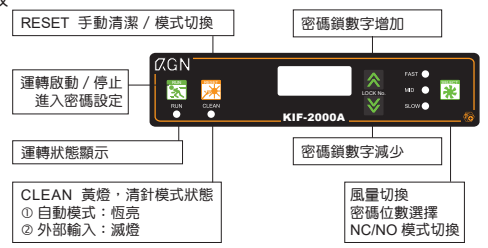


背面



I/O 連接插座 (電源入力及出入力連接用)
接地端子 (連接接地線)
電源入力插座 (電源入力用)
驅動電路模組

面板

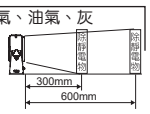


7. 注意事項

1. 消除靜電對象，置出風口正前方。建議距離約 300~600㎜。

⚠ 設置場所：請盡量避免使用於有眾多水氣、油氣、灰塵的場所，以及高溫、多濕的場所。

⚠ **本產品不可使用於需要防爆的場合。**



2. 本產品前方 200mm、側面及後方 50mm 的範圍內，請不要放置任何物品。此區域範圍內，容易感應到高電壓，而產生帶電的可能。

⚠ 觸電危險：
a. 通電中不要觸摸放電針
b. 保養或維修，請停止運轉
c. 請務必做好接地

3. 安裝濾網可預防物品不慎掉入。
安裝方式：先拆開背面風扇濾網蓋，放入濾網後，重新裝上風扇濾網蓋。

4. 插入 KIC-03 電源轉換器。

⚠ 使用 I/O 連接插座輸入電源時，請參考 9. 接線範例說明

8. 操作方法

1. 面板控制：

RUN 運轉 (RUN) - 短按 0.5 秒切換
啟動 (RUN 運轉指示燈恆亮；停止：RUN 運轉指示燈閃爍。

RESET 清針 (RESET) - 短按 0.5 秒清潔放電針
清針完成後，重新計時 (自動清針模式)。

SELECT 風量 (SELECT) - 短按 風量循環切換。

8. 操作方法

2. 功能設定：

① RUN 鎖定機能 (Lock)：

①-1 進入鎖定機能：長按 3 秒進入 0000。

①-2 輸入鎖定密碼：
a. 調整數字：按 鍵數字 0000 可上、下調整。
b. 切換位數：按 可移動位數。 1234

⚠ 10 秒內無操作，將自動跳出 (設定未完成)。

①-3 儲存 (解除) 鎖定密碼：輸入密碼後，短按 後顯示，
L.1-A 鎖定密碼；
L.0-A 解除鎖定密碼。

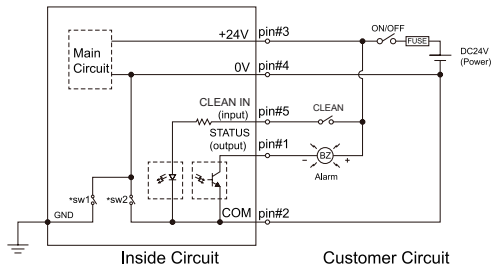
⚠ 若不慎遺忘鎖定密碼，請聯絡服務處為您處理。

② SELECT NO / NC 模式切換：長按 3 秒
NO 模式： MID 閃爍 (出廠預設值)
NC 模式：SLOW 閃爍

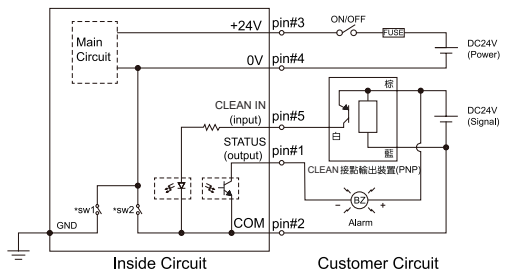
③ RESET 自動 / 外部模式切換：長按 3 秒
自動模式： CLEAN 恆亮 / L.0-A
外部模式： CLEAN 燈滅 / L.0-E

9. 接線範例說明

接線範例 1



接線範例 2



9-1. 接線範例說明

信號切換 (置於驅動電路模組後方)

開關	說明	預設值
1：sw1	選擇電源 0V 與接地端子導通或隔離	ON- 導通
2：sw2	選擇電源 0V 與接點 COM 導通或隔離	OFF- 隔離

本體說明

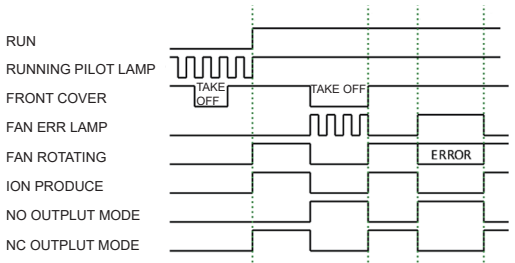
電源入力插座 (#4 #3 #2 #1)
pin#1 STATUS OUTPUT 狀態信號出力點
pin#2 COM 信號共同端子點 (信號 0V 點)

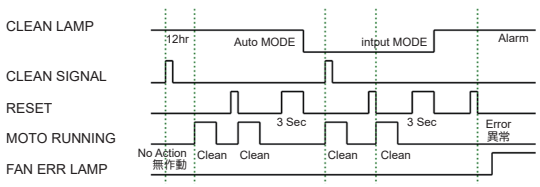
I/O 連接插座 (1 2 3 4 5)
pin#3 Power DC+24V 電源 24V 入力點
pin#4 Power GND(0V) 電源 0V 入力點
pin#5 CLEAN IN(10~30V) 清針信號入力點

電源及警告輸出線色說明 (選購品)

[White 白]： STATUS OUTPUT 狀態信號出力點
[Black 黑]： COM 信號共同端子點
[Red 紅]： Power DC+24V 電源 24V 入力點
[Green 綠]： Power GND(0V) 電源 0V 入力點

10. 時序圖說明





11. 警告

① 請勿在產品規格範圍外使用本產品，若強制使用將會造故障、機能損壞或停止，且會顯著降低產品的使用壽命與效果。
② 請勿用手碰觸放電針，因其前端很尖銳，容易刺傷手指而造成傷害。
③ 實施配線工作時請務必關閉電源，以避免發生觸電的危險。
④ 使用前請確認配線是否正確，錯誤的接線是造成作動異常的主要原因之一。
⑤ 設置場所：請盡量避免使用於有眾多水氣、油氣、灰塵的場所，以及高溫、多濕的場所。**本產品不可使用於需要防爆的場合。**
⑥ 進行檢查、定期清潔保養時，請務必先關掉電源再實施工作，否則會有觸電危險的可能。
⑦ 通電中請勿觸摸放電針，以免發生觸電危險。
⑧ 本產品進行更換高壓模組、驅動模組、風扇模組前，請關閉供應的電源或拔除電源入力端子插頭。
⑨ 使用前，請務必做好接地 !!

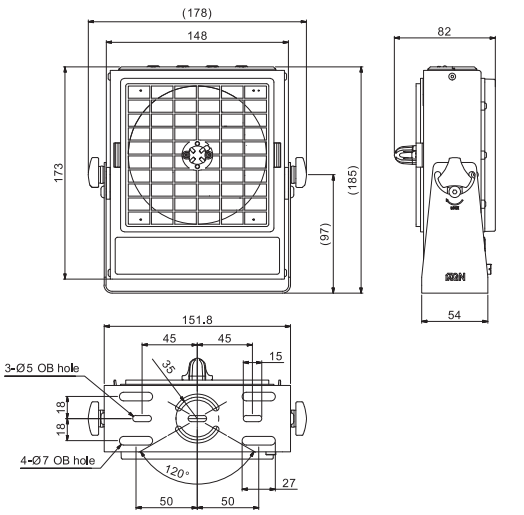
12. 注意

① 若輸入電源小於 DC24V，則風扇風量及釋放離子量皆會下降，影響除電效果。
② 暖機 3~5 分鐘，離子平衡較為穩定
③ 使用 I/O 連接插座輸入電源時，或使用輸出入信號接點前，請參考 8. 接線例說明。
④ 使用操作鎖定功能時，若不慎遺忘鎖定密碼，請聯絡服務處為您處理。
⑤ 若風扇異常警示 (紅燈) 亮起，請參考故障排除，無法處理請聯絡服務處。
⑥ 請勿將本產品應用於消除靜電以外的目的。
⑦ 遇有故障或異常時，請先參考故障排除，若有無法處理的狀態，由於有必要讓專家或以特殊儀器做調整、維修，因此請務必與銷售工程師聯繫。

故障排除參考

狀況	可能原因	對策
無反應	電源未接	接上電源，如 :KIC-03、KIC-05
	電源端子未完全插入主機	重新插入電源入力插頭
	電源入力接線錯誤	參考 9-1. 接線範例說明
	主機故障	請聯絡服務處
Err1 + ● (紅燈恆亮) 風扇模組異常	供應電壓或電流容量不足	請確認電源電壓及電流容量
	驅動或風扇模組未設置完成	請重新裝置
	驅動或風扇模組故障	請聯絡服務處，更換模組
Err2 + ● (紅燈恆亮) 高壓放電模組異常	供應電壓或電流容量不足	請確認電源電壓及電流容量
	驅動或高壓放電模組未設置完成	請重新裝置
	驅動或高壓放電模組故障	請聯絡服務處，更換模組
Err3 + ● (紅燈恆亮) 清針模組 (異物)	清針刷棒遭異物卡住	請確認前蓋是否遭異物侵入
Err4 + ● (紅燈恆亮) 清針模組 (馬達)	清針模組馬達故障	請聯絡服務處，更換清針模組
RUN + ● + 風扇未運轉	未啟動運轉	SELECT 短按 0.5 秒啟動
	清針模組未蓋好	重新蓋上清針模組
	開關故障	請聯絡服務處
按下操作按鈕沒反應 + L.1-A	操作鎖定中	參考密碼鎖定機能設定操作 8-2-① 說明解除鎖定
外部清針信號無反應 + ● (橘燈恆亮)	未切換至外部清針模式	RESET 長按 3 秒切換清針模式； CLEAN 燈滅 / L.0-E
靜電無法消散或太慢： ● (綠燈恆亮) + ○ (紅燈未亮)	放電針過於髒污	請清潔放電針
	高壓放電模組潮濕， 或前蓋附近有導電物質， 金屬、碳粉、污垢等	請確認高壓放電模組及清針模組的狀態
	產品性能規格不足	請聯絡服務處，提供改善對策

外型尺寸圖 (mm)



202512

ΩGN FAN Type Ionizer
風扇型靜電消除裝置

KIF-2000A Instruction Manual

1.Product list

Package Content



Body
(including mounting kit)

I/O Connector (KIF-OC1)

Operation instruction(this manual)

Ground Wire

Safety Filter
(KIF-OF2)

Option accessories:



AC Power Adapter
(KIC-03)

2. Features and advantages

① Small volume, light weight, flow volume adjustable,convenient for desk top or inside-equipment applications.
② High frequency AC discharge, high density ion capable of infiltrating into cavities, hence thoroughly eliminating static.
③ High accuracy ion balance.
④ High speed discharge in both short or long distance.
⑤ Whenever abnormal discharge occurs, there will be warning light and contact point output for effective monitoring and control.
⑥ Automati clean module. Easy cleaning and maintenance.

3. Applications of this product

This Model static electricity eliminator is designed for those applications in manufacturing processes for industries of electronic parts, plastic products, films, etc. It can easily and rapidly eliminate static during manufacturing thus drastically promote product quality and higher production successful rate.

4.Decay Time (sec)

Model \ Distance	300mm		600mm		900mm		1200mm	
	+	-	+	-	+	-	+	-
KIF-2000A	1.1	1.3	1.6	2.2	2.9	3.8	4.9	5.7

The figures in the table above are ex-factory inspection values, but not guarantee values, which will be determined according to the site environment during actual ionizing status.

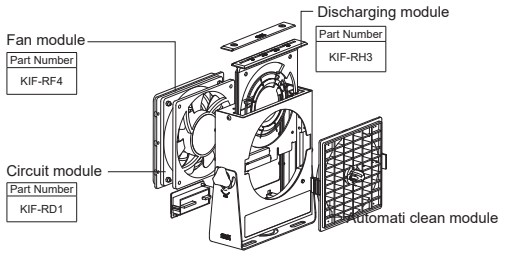
5. Specification

		KIF-2000A
Ion Generation		Corona discharge
Voltage supply method		High-frequency AC Approximate 2KV,72KHz
Static elimination time ★1 (±1000V~±100V)		1.0 sec
Ion balancing		±10V
Air volume	CFM(M^3/min)	64~150 CFM (1.82~4.26)
Ozone volume (within 150 mm)		0.007ppm
External Pin cleaning control		By power input suspension (DC10V~30V)
Warning output ★2	Fan stop	YES
	Discharge error	YES
	The pin cleaning module is not properly covered	YES
Ambient temperature		0~40℃ (indoor)
Relative humidity		35%~75%，non-condensing
Power supply voltage		DC24V ±5%
Current consumption		500mA
Weight(tripod excluded) (g)		683
Warranty (Accessories excluded)		2 Yr

★1 Measured with maximum air speed and at a location centered in the air output and 300mm away from the fan.
★2 Signaling at output contact, NC/NO panel switch (50mA)

⚠ 1.If the input power is less than DC24V, the air flow of the fan and the quantity of the released ions will drop and affect the ionizing effect.
2.Before using the input/output signal connection, as per 8.Wiring Example Instructions.

6. Appearance and Construction

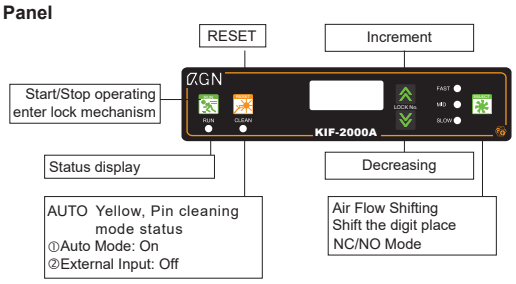


Backside



I/O connection Socket (for power input and I/O connection).
Grounding Terminal (for connecting the Grounding wire).
Power input Socket (for power input)
Circuit module

Panel



7. Warning

① Put the object that is to be subjected to static electricity elimination in front of the air outlet. Distance is suggested to be around 300~600mm.

⚠ Installation location: Try to avoid locations with abundant of steam, oil vapor, dust, and high temperature and high humidity.

⚠ **This product shall not be used at locations where explosion-proof is required.**

② Please keep the range of 200mm ahead, 50mm aside and behind this machine clear of any other objects on the ground that charging is highly possible within that range due to induction by high voltage.

⚠ **ELECTRIC SHOCK DANGER**
a.Never touch the discharge needle when energized
b.Switch off power before going ahead with service or maintenance
c.Be sure that grounding is properly executed

③ Mount the Filter
To prevent inadvertent dropping of articles, the Filter should be installed.
The installation method is as per the figure. Remove the Fan Filter Cover on the backside, load the Filter and then restore the Fan Filter Cover.

④ Input KIC-03 or KIC-05 power adapter .

⚠ When using the I/O connecting socket for inputting power, as pre 8.Wiring Example Instructions.

8. Operating Method

1.Fan panel control：

RUN **Start Running** - Press RUN for 0.5 second
Running: RUN remains Illuminated.Stand-by: RUN indicator flickers.

RESET **Pin Cleaning** - Press RESET for 0.5 second
After pin cleaning is completed, restart the timer. (automatic mode)

SELECT **Fan Speed** - SELECT Short press to cycle through fan speeds.

8. Operating Method

2. Function settings：

① RUN Lock function：

①-1 Lock Function：Press RUN and hold for 3 sec to 0000.

①-2 Set the Lock Password：

a. Adjust number: Press ▲▼ to change the number. 0000

b. Move digit left: Press SELECT to move left . 1234

⚠ Exits after 10 sec of inactivity (setting not saved).

①-3 Save or Delete Password：
After entering the password, press RUN briefly
L.1-A Password saved ; L.0-A Password deleted.

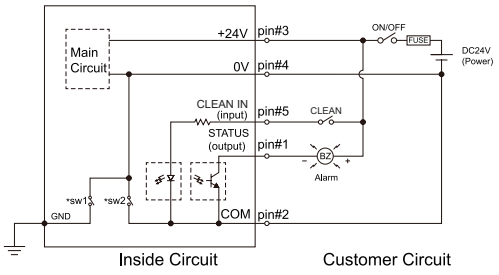
⚠ If you forget the password, please contact customer service.

② SELECT NO / NC Mode Switch：Press for 3 sec.
NO Mode：MID Blinking light (Factory)
NC Mode：SLOW Blinking light

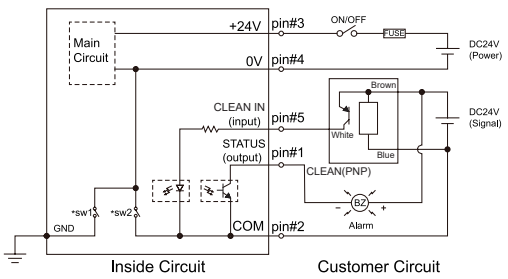
③ RESET Auto / External Mode: Press and hold 3 sec：
Auto Mode： CLEAN Steady light / L.0-A
External Mode： CLEAN Light off / L.0-E

9. Wiring Example Instructions

Wiring Example 1



Wiring Example 2



9-1. Wiring Example Instructions

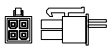
Signal Switching (Mount behind the Drive Circuit Module)

Switch	Description	Default Value
1: SW1	Select 0V power for connecting with or isolating from the Grounding Terminal.	ON– Connection
2: SW2	Select 0V power for connecting with or isolating from the Connection COM.	OFF-Isolating

Main Body Description

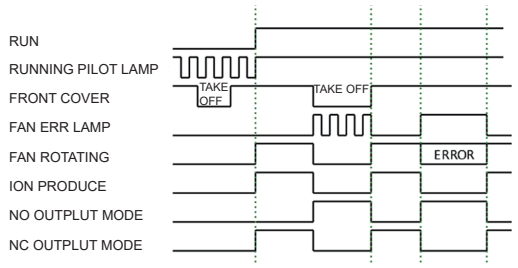
Power Input Socket	pin#1 STATUS OUTPUT	Status signal output point
	pin#2 COM	Signal common terminal point (Signal 0V point)
I/O Connection Socket	pin#3 Power DC+24V	24V power input point
	pin#4 Power GND(0V)	0V power input point
	pin#5 PAUSE IN(10~30V)	Pause signal input point

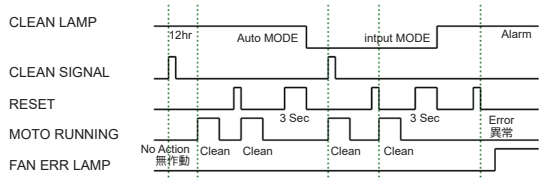
Power and alarm output wire color description (Optional)



[White] ：Abnormality output
[Black] ：COM
[Red] ：Input power (+DC24V)
[Green] ：Ground for power (0V)

10. Time Sequence Diagram Description





11. Warning

① Please don't use IONIZER in excess of its specification range. Such use could result in product breakdowns, cessation of function, or damage. It could as well result in a significant reduction of its service life.
② Please don't touch the discharging needles, because it has a sharp-pointed tip.It could result in hand injury.
③ Please shut off power when performing wiring work. Leaving the power on could result in electric shock.
④ Please check the catalogue to ensure the IONIZER wiring is correct. Error wiring could lead to abnormal operation.
⑤ Installation location: Try to avoid locations with abundant of steam, oil vapor, dust, and high temperature and high humidity. **This product shall not be used at locations where explosion-proof is required.**
⑥ Please shut-off power when inspecting, cleaning and performing maintenance. Leaving the power on could result in electric shock.
⑦ Never touch the discharge needle when energized.Leaving the power on could result in electric shock.
⑧ Before replacing HV module, drive module or fan module of this product, be sure to disconnect the supply power or remove the power input terminal plug.
⑨ Before use, please be sure that grounding is properly executed.

15. Caution

① If the input power is less than DC24V, the air flow of the fan and the quantity of the released ions will drop and affect the ionizing effect.
② Ion balance will be more stable after warm up about 3~5 minutes.
③ When using the I/O connecting socket for inputting power, as per 8.Wiring Example Instructions.
④ If you forget the locking password, please contact our Customer Service Dept. and they will solve the problem for you.
⑤ If the red LED is illuminated, refer to Troubleshooting Instructions. If not avail, please contact this Company.
⑥ Please don't use ΩGN IONIZER for any other purpose than for static electricity removal.
⑦ If a failure or error occurs, please refer to the Troubleshooting Instructions first. If the problem cannot be solved and it must be adjusted or maintenance by a technician or with special instruments, please contact our Sales Engineer.

TROUBLESHOOTING INSTRUCTIONS

FAN TYPE STATUS	POSSIBLE CAUSE	SOLUTION
No Response	No power connection	Connect power supply (e.g., KIC-03 or KIC-05)
	Power plug not fully inserted	Re-insert power input plug
	Incorrect power input wiring	Refer to 9-1. Wiring example instructions
	Main unit failure	Please contact service center
Err1 +(RED light Steady) Fan module abnormal	Insufficient supply voltage or current capacity	Please check power supply voltage and current capacity
	Drive or fan module not fully installed	Please re-install
	Drive or fan module failure	Please contact service center, replace module
Err2 +(RED light Steady) High-voltage discharge module abnormal	Insufficient supply voltage or current capacity	Please check power supply voltage and current capacity
	Drive or high-voltage discharge module not fully installed	Please re-install
	Drive orHigh-voltage discharge module failure	Please contact service center, replace module
Err3 +(RED light Steady) Pin cleaning module (foreign object)	Pin cleaning brush rod stuck by foreign object	Please check if the front cover has been invaded by foreign objects
Err4 +(RED light Steady) Pin cleaning module (motor)	Needle cleaning module motor failure	Please contact service center, replace needle cleaning module
RUN +Fan not running	Not started	RUN Press and hold for 0.5 seconds to start
	Pin cleaning module not covered properly	Re-cover the Pin cleaning module
	Switch failure	Please contact service center
Pressing the operation button has no response +L.1-A	Operation locked	(Refer to password lock function setting operation 8-2-① instructions to unlock
External pin cleaning signal no response+ (Orange light Steady)	Not switched to external pin cleaning mode	RESET Press and hold for 3 seconds to switch pin cleaning mode, CLEAN Orange light Off and L.0-E
Static electricity cannot be dissipated or is too slow (Green light Steady)+(Red light off)	Discharge pin is too dirty	Please clean the discharge pin
	High-voltage discharge module is humid, or there are conductive substances, metal, toner, dirt, etc. near the front cover	Please check the status of the high-voltage discharge module and needle cleaning module
	Product performance specifications are insufficient	Please contact service center, provide improvement countermeasures

Dimensions(mm)

