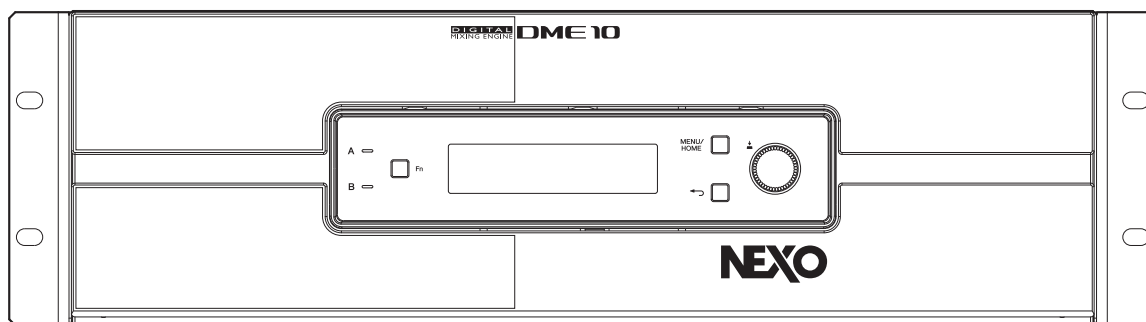




# SIGNAL PROCESSOR

## DME 10



SIGNAL PROCESSOR / PROCESSEUR DE SIGNAUX AUDIO

PROCESADOR DE SEÑAL / PROCESSADOR DE SINAL / СИГНАЛЬНЫЙ ПРОЦЕССОР

信号处理器 / 訊號處理器 / シグナルプロセッサー

EN	Setup Guide
DE	Installationsanleitung
FR	Manuel de configuration
ES	Manual de Instalación
PT	Guia de Configuração
IT	Guida alla configurazione
RU	Руководство по установке
ZH-CN	设置指南
ZH-TW	設定指南
KO	설치 가이드
JA	セットアップガイド

English

Deutsch

Français

Español

Português

Italiano

Русский

简体中文

繁體中文

한국어

日本語

# 注意事項

請在操作使用前，先仔細閱讀下述內容  
請將本說明書存放在安全之處，以供日後參考之用。



## 警告

請務必遵守以下基本注意事項，以避免因觸電、短路、損壞、火災或其他危害而可能造成嚴重人身傷害甚至死亡。注意事項包含但不限於以下事項：

### 若您注意到任何異常現象

- 若出現以下任一問題，請立即關閉電源開關，並從插座上拔下電源插頭。
    - 電源線或插頭磨損或損壞。
    - 有異常氣味或冒煙。
    - 有物體或液體掉入產品內部。
    - 產品使用過程中音訊突然中斷。
    - 產品上有裂痕或明顯受損。
- 接著，請將本產品交由合格的 NEXO 維修人員進行檢修。

### 電源

- 請勿將電源線置於加熱器或散熱器等熱源附近，勿過度彎曲或以其他方式損傷電源線，勿在產品上方放置重物，亦勿將產品置於可能遭人踩踏、絆倒或遭物碾壓的地方。
- 只能使用本產品指定的額定電壓。該需求電壓印於產品銘牌上。
- 請僅使用隨附的電源線 / 插頭。  
若您預定使用本產品的地區並非當初購買之地，則隨附的電源線可能不適用。請洽詢您的 NEXO 經銷商。
- 切勿使用其他產品隨附的線材 / 插頭。
- 請定期檢查電源插頭，擦除插頭上累積的髒污或灰塵。
- 請確定電源插頭完全插入，以防引起觸電或火災。
- 本產品由多電源供電。安裝本產品時，請確定使用觸手可及的 AC 電源插座。一旦發生問題或故障，請立即關閉電源開關，並從插座上拔下所有插頭。即使已關閉電源開關，只要未從牆上的 AC 電源插座拔下電源線，本產品就不會真正切斷電源。



- 打算長期不使用本產品時，請從插座上拔下電源插頭。
- 請勿在雷暴期間觸摸本產品或電源插頭。
- 請務必將本產品連接至設有接地保護的合適插座。接地不當可能會導致觸電、火災或產品損壞。

### 請勿拆解

- 本產品不含使用者可自行維修的零件。請勿嘗試拆解其內部零件或以任何形式加以改造。

### 液體警告

- 請勿讓本產品淋雨、靠近水邊或在潮濕環境下使用，或將裝有液體的容器（如花瓶、水瓶或玻璃杯）置於本產品上，以避免液體滲入任何開口。
- 切勿以濕手插拔電源插頭。

### 火災警告

- 請勿於本產品附近放置任何燃燒物或施放明火，否則可能引起火災。

### 聽力受損

- 連接本產品與其他裝置前，請關閉所有裝置的電源。在開啟或關閉所有裝置的電源前，請務必將所有音量都調至最小。否則可能會造成聽力受損、觸電或裝置損壞。
- 開啟音響系統的 AC 電源時，請始終最後開啟功率擴大機，避免聽力受損或喇叭損壞。同樣，關閉電源時，亦請首先關閉功率擴大機。

### 電池

- 請在指定的充電溫度範圍內充電。在超出範圍的溫度下充電可能導致漏電、過熱、爆炸或損壞。
- 請勿將電池丟入火中。  
請勿讓電池承受極低氣壓、極冷或極熱（例如陽光直射或丟入火中）或灰塵極多 / 極度潮濕等的條件。  
否則可能會造成電池爆炸，進而引發火災或使人受傷。
- 請勿拆解電池，否則可能會引發火災、過熱、爆炸或故障。若電池內容物接觸到您的手或眼睛，可能會造成失明或化學燒傷。



## 注意

請務必遵守以下基本注意事項，以避免對您或他人造成人身傷害。注意事項包含但不限於以下事項：

### 電源

- 從本產品或插座上拔下電源插頭時，請務必握住插頭拔下，而非握住電源線。直接拉扯電源線可能會造成損壞。

### 位置與連接

- 請勿將本產品架設於不穩定或振動過大的地方，否則可能會不慎翻倒，進而造成人身傷害。
- 請將本產品架設於兒童無法觸及之處。本產品不適合在兒童可能臨近之處使用。
- 請勿堵塞通風口。本產品正面 / 背面設有通風口，用於防止內部溫度過高。尤其注意，切勿側放或倒置安裝本產品。通風不良會造成過熱，進而導致本產品損壞，甚至引發火災。
- 為確保本產品正常散熱，安裝時請留意以下事項：
  - 請勿以布料覆蓋。
  - 請勿安裝於地毯或塊毯之上。
  - 確保頂面朝上，切勿側放或倒置安裝。
  - 請勿在通風不良的密閉空間使用本產品。
 通風不良會造成過熱，進而導致本產品損壞，甚至引發火災。請確保本產品周圍有充足的空間：兩側需保留至少 10 cm，後方需保留至少 15 cm。
- 如果將本產品安裝在 EIA 標準機架上，請仔細閱讀第 89 頁的「機架安裝注意事項」。通風不良會造成過熱，進而導致本產品損壞、故障，甚至引發火災。  
如果在狹小空間而非 EIA 標準機架上使用本產品，請確保本產品周圍有充足的空間：兩側需保留至少 10 cm，後方需保留至少 15 cm。
- 請勿將本產品置於可能接觸到腐蝕性氣體或空氣中含有鹽分的場所。否則可能會導致故障。
- 移動本產品前，請務必拔下所有相連的纜線。

### 維護

- 清潔本產品時，請從 AC 電源插座拔下電源插頭。

### 小心操作

- 請勿將手指或手部插入本產品的任何間隙或開口（通風口）。
- 請勿踩踏本產品或在其上方放置重物。

### 備用電池

- 請勿自行更換備用電池。否則可能會造成爆炸及 / 或本產品損壞。  
需要更換備用電池時，顯示器上會顯示「Low battery」或「No Battery」。在這種情況下，請聯絡您的 NEXO 經銷商或合格的 NEXO 維修人員更換備用電池。

## 須知

為避免本產品故障/損壞、資料毀損或其他財產受損，請遵守以下須知事項。

### ■ 使用與維護

- 請勿將本產品直接連接至公用 Wi-Fi 及/或網際網路。僅透過具有強大密碼保護功能的路由器將本產品連接至網際網路。關於安全性最佳實務的資訊，請洽詢路由器製造商。
- 請勿在電視、收音機或其他電子產品周圍使用本產品。否則，本產品、電視或收音機可能會產生雜訊。
- 為防止面板變形、操作不穩或內部組件損壞，請勿將本產品置於灰塵瀰漫、振動、極為寒冷或炎熱的環境中。
- 請勿將本產品安裝於溫度可能急劇變化的場所。否則，產品內部或表面可能會產生凝結，導致產品破裂。
- 若有充分理由相信本產品內部或表面可能已產生凝結，為防止損壞，請將本產品靜置數小時且不要開啟電源，直到凝結完全乾燥。
- 請勿在本產品上方放置乙烷基、塑膠或橡膠物品，否則可能會導致面板變形或褪色。
- 請使用乾的軟布清潔本產品。請勿使用次氯酸鈉、酒精、苯、塗料稀釋劑、清潔液或浸漬化學物質的抹布清潔產品表面，否則可能會造成表面變色或性質改變。
- 請使用長度不超過 3 公尺的 C 型 USB 纜線（USB-A 轉 USB-C 或 USB-C 轉 USB-C）。

## 資訊

### ■ 關於著作權

- 除非取得製造商的書面同意，否則明確禁止以任何方式完整或部分複製軟體或重製本說明書。

### ■ 關於本產品配套的功能/資料

- 本產品使用由 Audinate Pty. Ltd. 提供的 Dante 模組。您可以使用 Dante Controller 以顯示關於本產品所用 Dante 模組的相關資訊。  
關於個別 Dante 模組適用的開源軟體授權詳情，請參閱 Audinate 網站。  
<https://www.audinate.com/software-licensing>

### ■ 關於本說明書

- 本說明書中的示意圖與畫面僅供說明之用。
- NEXO S.A. 對軟體及說明文件的使用不做任何陳述或保證，也不對因使用本說明書及軟體產生的結果負任何責任。
- 本說明書中所提及之公司名稱與產品名稱，皆為其各自公司的商標或註冊商標。
- 軟體可能修改及更新，恕不另行通知。

### ■ 關於棄置

- 本產品包含可回收組件。  
棄置本產品時，請聯絡當地相關主管機構。

對因不當使用或改造本產品所造成的損壞、資料遺失或毀損，NEXO 概不負責。

型號、序號及電力需求等資訊列於本裝置頂部的銘牌上或附近。建議您將序號記錄在下方空白處，並保留本說明書做為永久購買記錄，以便在本裝置遭竊時當做識別資訊使用。

型號

序號

(1003-M06 plate top tw 01)

## 前言

感謝您購買 NEXO DME10 訊號處理器。本產品可以處理各種音訊訊號。本設定指南說明如何在安裝期間進行各種基本設定。為了確保您能正確使用各項產品功能，請務必先詳閱本設定指南，然後再使用產品。詳閱本設定指南後，請將其留存供日後參考。

## 特色

- **可程式化訊號處理器，適用於應用廣泛的音響系統**

DME10 是一款可設定範圍極廣的處理器，能提供應用廣泛的先進功能及高品質音訊。除了擁有基本的矩陣混音、等化、延遲、壓縮器及門限功能以外，還包括許多支援各種應用的組件，例如自動混音器、房間組合器應用。亦支援具有 256 × 256 個 Dante 輸入及輸出通道的大型音響系統。

- **適用於設計完整音響系統的 Yamaha ProVisionaire Design 應用程式軟體**

ProVisionaire Design 應用程式軟體不僅能讓您程式設定各項 DME10 音訊處理功能，還能用來設定包括輸入/輸出及擴大機在內的全套綜合音響系統。

- **可在任何空間創造沉浸式音響環境的 Yamaha AFC Image Controller 應用程式軟體**

AFC Image Controller 應用程式軟體可用來設定及控制 AFC Image 系統。

該軟體能讓使用者靈活地控制聲像在空間內的聆聽位置，例如：劇院、歌劇院、演唱會場地、音響設施及主題公園，以創造應用廣泛的沉浸式音效體驗。

- **支援 Yamaha 外部控制**

DME10 支援各種 DCP 牆面嵌入式控制面板，以及可用來自訂設計的 Windows 版 ProVisionaire Control PLUS 應用程式。

DME10 也支援根據特定的設備應用自訂使用環境。ProVisionaire Control PLUS 可用來輸出至 Windows 及 iOS 版 ProVisionaire Kiosk 應用程式，並可作為現場操作的專用應用程式。

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## 包裝內容物（請確認）

- ☐ 設定指南（本說明書）× 1
- ☐ Euroblock 接頭（16 針，3.50 mm 間距）× 2
- ☐ 電源線 × 2
- ☐ 纜線鉤 × 1

## 隨附說明書

- **DME10 設定指南（本說明書）**  
詳細說明從連接電源到設定系統的安裝程序。
- **DME10 參考手冊（HTML）**  
說明如何進行設定及操作系統。
- **Yamaha ProVisionaire Design 使用指南（HTML）**  
說明如何在電腦上使用 ProVisionaire Design 軟體操控 DME10。  
<https://manual.yamaha.com/pa/pv/pvd/>
- **Yamaha AFC Image Controller 使用指南（HTML）**  
說明如何在電腦上操控 AFC Image Controller 軟體或控制可選購組件 AFC Image。  
[https://manual.yamaha.com/audio/apps\\_software/afc\\_image\\_controller](https://manual.yamaha.com/audio/apps_software/afc_image_controller)

## Yamaha ProVisionaire Design 軟體

此 Windows 應用軟體涵蓋了訊號處理器、功率擴大機及音訊介面等裝置的設定。

您可從下列網站下載 ProVisionaire Design：  
<https://www.yamahaproaudio.com/>

詳情請參閱 ProVisionaire Design 使用指南（HTML）。

## Yamaha AFC Image

這是可用來製作應用廣泛之沉浸式音效的聲像控制系統，適用於劇院、歌劇院、演唱會場地及其他設施。

請從下列網站下載適用於聲像控制的 AFC Image Controller 應用程式軟體：  
<https://www.yamahaproaudio.com/>

詳情請參閱 AFC Image Controller 使用指南（HTML）。

## Yamaha Steinberg USB 驅動程式

Yamaha Steinberg USB 驅動程式軟體可透過 USB 將 DME10 連線至電腦。

可以使用 DAW 軟體及其他裝置交換最多八（8）個輸入/輸出音訊訊號。

您可從下列網站下載該驅動程式軟體：  
<https://www.yamahaproaudio.com/>

## 更新韌體

您可以更新主機的韌體，以提升操作性、加入新功能以及修正錯誤。

如有可用的韌體更新，下列網站上會發布相關資訊。  
<https://www.nexo-sa.com/>

關於主機的更新程序與設定，請參閱 ProVisionaire Design 使用指南（HTML）。

### 註

視 Dante 網路中使用的裝置版本編號而定，在某些情況下，可能需要進行更新才能與其他裝置相容。如需更多資訊，請參閱上述 NEXO 網站提供的韌體相容圖表。

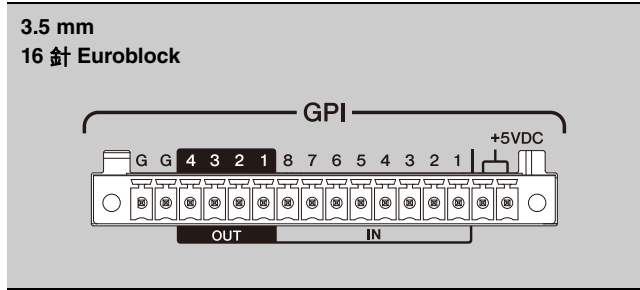
## 機架安裝注意事項

本產品的保證工作溫度範圍介於 0 至 40°C 之間。如果您僅安裝 DME10 裝置，則只需在標準 EIA 機架上安裝及操作多個裝置，無需在裝置之間保留空間。如果 DME10 與其他裝置一起安裝在標準 EIA 機架上，由於機架內溫度會升高，裝置之間產生的熱量可能對效能造成負面影響。為防止本產品內部積熱，請務必採取符合以下條件的方式安裝產品。

- 如果本產品與功率擴大機或其他容易產生熱量的裝置一起安裝，請在本產品與其他裝置之間保留至少一台裝置的空間。此外，為確保充分通風，請在這些空間處安裝通風面板或使其保持開放。
- DME10 的設計是前側進氣和後側排氣。因此，請勿將 DME10 與後側進氣且前側排氣的其他裝置安裝在一起。
- 請保持後側面開放，機架距離任何牆面或天花板至少 10 cm。如果機架的後側無法保持開放，請使用市面上出售的風扇套件或其他強制通風系統。如果安裝風扇套件，請注意在某些情況下，封閉機架的後側可以改善散熱。如需更多資訊，請參閱機架和風扇套件的說明書。

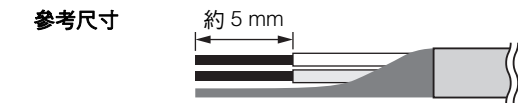
# 安裝 Euroblock 接頭

使用隨附的 Euroblock 接頭連接至 [GPI] 端子。



## 纜線的準備與處理

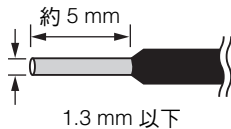
將要連接至 Euroblock 接頭的纜線剝去下圖中所示的長度，並連接導線。請注意，由於金屬老化，連接至 Euroblock 的電線重疊或振動可能導致導線斷裂。



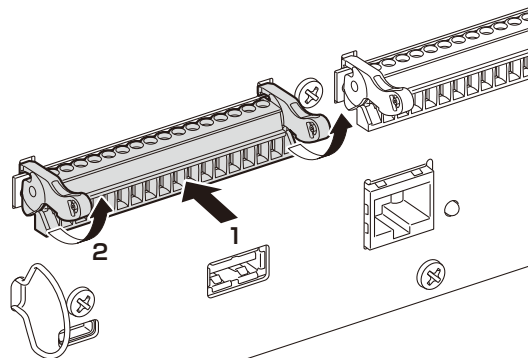
**注意**  
如果使用導線連接 Euroblock，請勿對電線進行錫焊。

若要頻繁插拔電線，建議使用帶絕緣套管的針腳端子。請使用如下所示的針腳接頭。

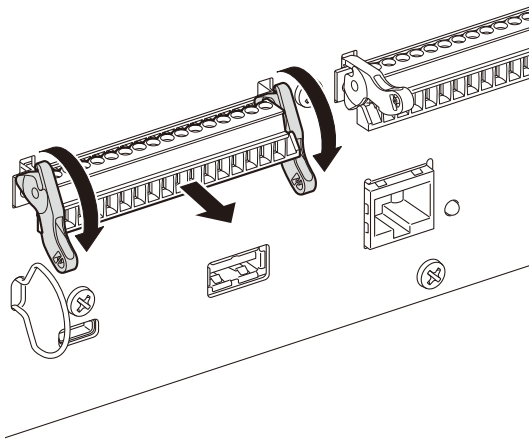
使用直徑最大 1.3 mm、長度約 5 mm 的型號（如 Phoenix Contact 公司的 AI0、5-6WH 型號）。



1. 將 Euroblock 接頭完全插入主機的 [GPI] 端子，直至將其插到底。然後向上推左右兩側的鎖扣。



2. 若要斷開 Euroblock 接頭，放下左右鎖扣後拔出接頭。



## 連接電源

**警告**  
請永遠使用本產品隨附的電源線。切勿使用其他產品隨附的電源線。否則可能會導致故障、發熱、火災或其他問題。

**注意**  
連接或斷開電源線之前，請務必關閉電源。

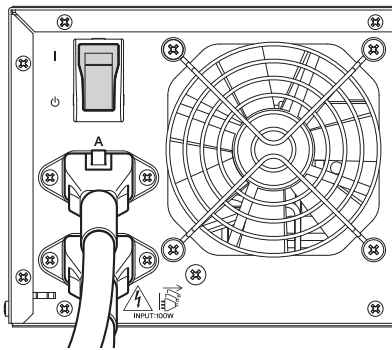
1. 連接隨附的電源線。首先，將電源線連接至主機，然後將另一端插入電源插座。

### 註

- 斷開電源線時，請以上述相反的步驟進行。
- 按下電源線門扣即可斷開電源線。

## 開啟/關閉電源

1. 使用後面板上的電源開關來開啟（I）或關閉（⏻）電源。



### 須知

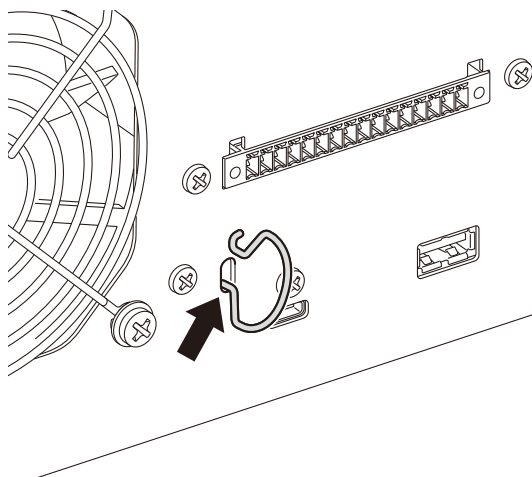
- 快速連續開啟和關閉電源開關可能會造成裝置故障。關閉電源開關後，請靜待至少六秒，然後再重新開啟。
- 即使電源已關閉，產品中仍有微量的電流繼續流動。打算長期不使用裝置時，請務必從電源插座上斷開電源線。



## 安裝纜線鉤

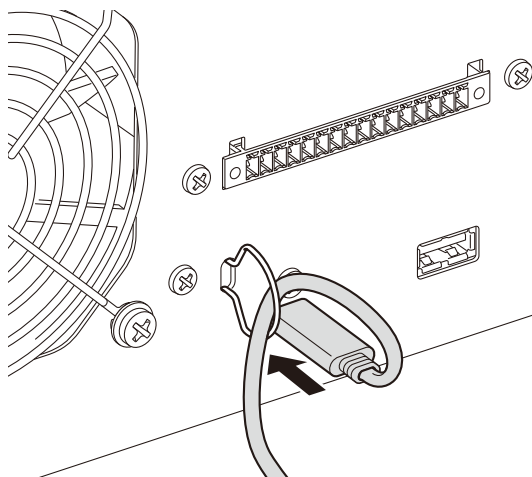
隨附的纜線鉤用於防止意外斷開 USB 纜線。請依照下列步驟安裝纜線鉤。

1. 將隨附的纜線鉤一端鉤住位於後面板左下部位的安全插槽下端。



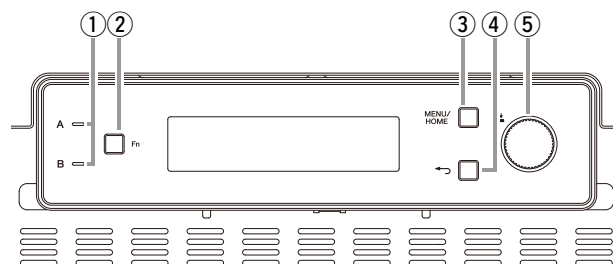
2. 將鉤的另一端插入安全插槽上端。

3. 將 USB 纜線穿過纜線鉤，然後將其插入 USB 連接埠。



## 主機設定

### 前面板概述



#### ① [A/B] 指示燈

[A/B] 指示燈會顯示 [A]/[B] AC IN（電源輸入）端子是否連接至電源。電源開啟時，指示燈亮起綠燈。

#### ② [Fn] 鍵

按下 [Fn] 鍵會顯示 [Device Mute] 畫面。再次按下會顯示 [Control Function] 畫面。

#### ③ [MENU/HOME] 鍵

按下 [MENU/HOME] 鍵會切換 [Menu] 或 [Home] 畫面。

#### ④ [↶]（返回）鍵

按下 [↶]（返回）鍵會顯示上一個畫面。

#### ⑤ 主旋鈕

轉動主旋鈕可選擇參數或變更參數設定值。按下旋鈕可套用設定。

### 面板鎖定/解鎖設定

同時按住 [MENU/HOME] 與 [↶]（返回）鍵至少兩秒可鎖定或解鎖面板。

每當面板鎖定時，[Home] 畫面會顯示一個按鍵圖示。



## 設定裝置 ID

如果使用多台 DME10 裝置，請確保裝置 ID 之間沒有衝突。

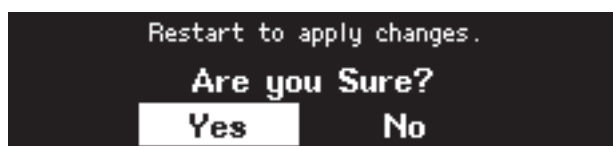
1. 在 [Menu] 畫面上，旋轉主旋鈕選擇 [Settings]，然後按下旋鈕套用設定。  
顯示 [Unit ID] 畫面。



2. 在 [Unit ID] 畫面上，按下主旋鈕以啟動編輯模式。



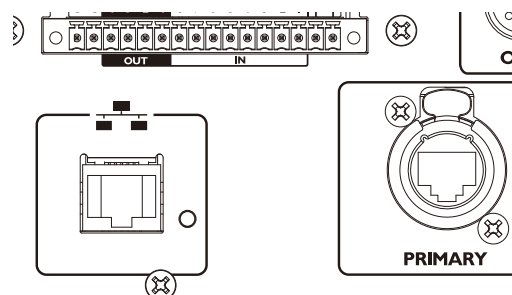
3. 轉動主旋鈕選擇所要的 ID。  
當裝置 ID 變更時，該值會閃爍。  
數值範圍介於 01 至 FE 的十六進位值。
4. 選擇要變更的裝置 ID 後，按下主旋鈕。  
顯示一則訊息，提示您重新啟動裝置。



5. 旋轉主旋鈕選擇 [Yes]，然後按下旋鈕套用設定。  
重新啟動裝置後，將啟用新的裝置 ID。

## 連接 Yamaha ProVisionaire Design

將電腦（已安裝 ProVisionaire Design 軟體）直接連接至主機後面板上的網路接頭或 Dante Primary 接頭，或者透過交換機連接。



## 設定 IP 位址

IP 位址可指定與 Yamaha ProVisionaire Design 通訊使用的連接埠（DME Control Port1、DME Control Port2）。

1. 在 [Menu] 畫面上，旋轉主旋鈕選擇 [Settings]，然後按下旋鈕套用設定。  
顯示 [Unit ID] 畫面。



2. 旋轉主旋鈕選擇 [IP Settings]，然後按下主旋鈕套用設定。  
顯示 [DME Control Port1] 畫面。



3. 在 [DME Control Port1] 畫面上，按下主旋鈕選擇 [Network Mode] 畫面。



4. 按下主旋鈕以啟動編輯模式。

5. 旋轉主旋鈕選擇 [Unit ID]，然後按下主旋鈕套用選擇。



此程序會將 IP 位址設為 192.168.0.x（其中「x」表示裝置 ID），子網路遮罩設為 255.255.255.0。  
IP 位址及子網路遮罩皆使用十進位格式。

### 註

關於 DHCP 模式或靜態 IP 模式的設定資訊，請參閱 Yamaha ProVisionaire Design 使用指南。

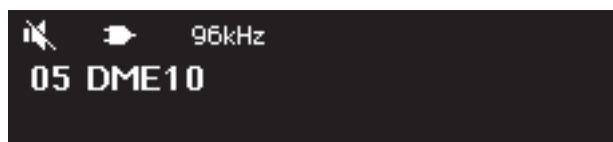
## 靜音或取消靜音

1. 按下 [Fn] 鍵會顯示 [Device Mute] 畫面。



2. 旋轉主旋鈕選擇 [Yes]，然後按下主旋鈕套用選擇。

您可根據 [Home] 畫面頂部的圖示確認靜音開/關狀態。



若要將裝置取消靜音，請再次按下 [Fn] 鍵。

### 註

連續按兩次 [Fn] 鍵可顯示控制功能開 / 關畫面。您可以使用上述方法來指定設定。

## 恢復（重新初始化）原廠預設設定

可使用兩種方法初始化本產品。

### 選擇 [Settings] 後選擇 [Initialize Settings]

請勿在初始化過程中關閉電源。

1. 在 [Menu] 畫面上，旋轉主旋鈕選擇 [Settings]，然後按下旋鈕套用設定。

顯示 [Unit ID] 畫面。



2. 旋轉主旋鈕選擇 [Initialize Settings]，然後按下旋鈕套用選擇。



顯示用於選擇初始化設定的畫面。

3. 旋轉主旋鈕選擇要初始化的設定，然後僅將該設定設為開啟。



如果設為 On，除訊號處理設定以外，以下設定亦將初始化。

IP Settings
Unit ID/ Device Name
Dante Settings
Stored Files

### 註

此常規初始化程序不會初始化管理員 PIN 值或授權啟用資訊。

4. 當您選擇設定完成後，旋轉主旋鈕選擇 [Initialize]，然後按下旋鈕。

將顯示初始化確認畫面。



5. 旋轉主旋鈕選擇 [Yes]，然後按下主旋鈕套用選擇。

初始化完成後，系統會自動重新啟動。

## 忘記 PIN 碼時的強制初始化

如果忘記用來鎖定面板的 PIN 碼或是管理員 PIN 碼，且無法在 [Settings] 畫面上選擇 [Initialize]，請使用下列方法以強制初始化。

### 註

此強制初始化程序不會修改授權啟用資訊，但會將所有其他設定恢復為原廠預設設定。

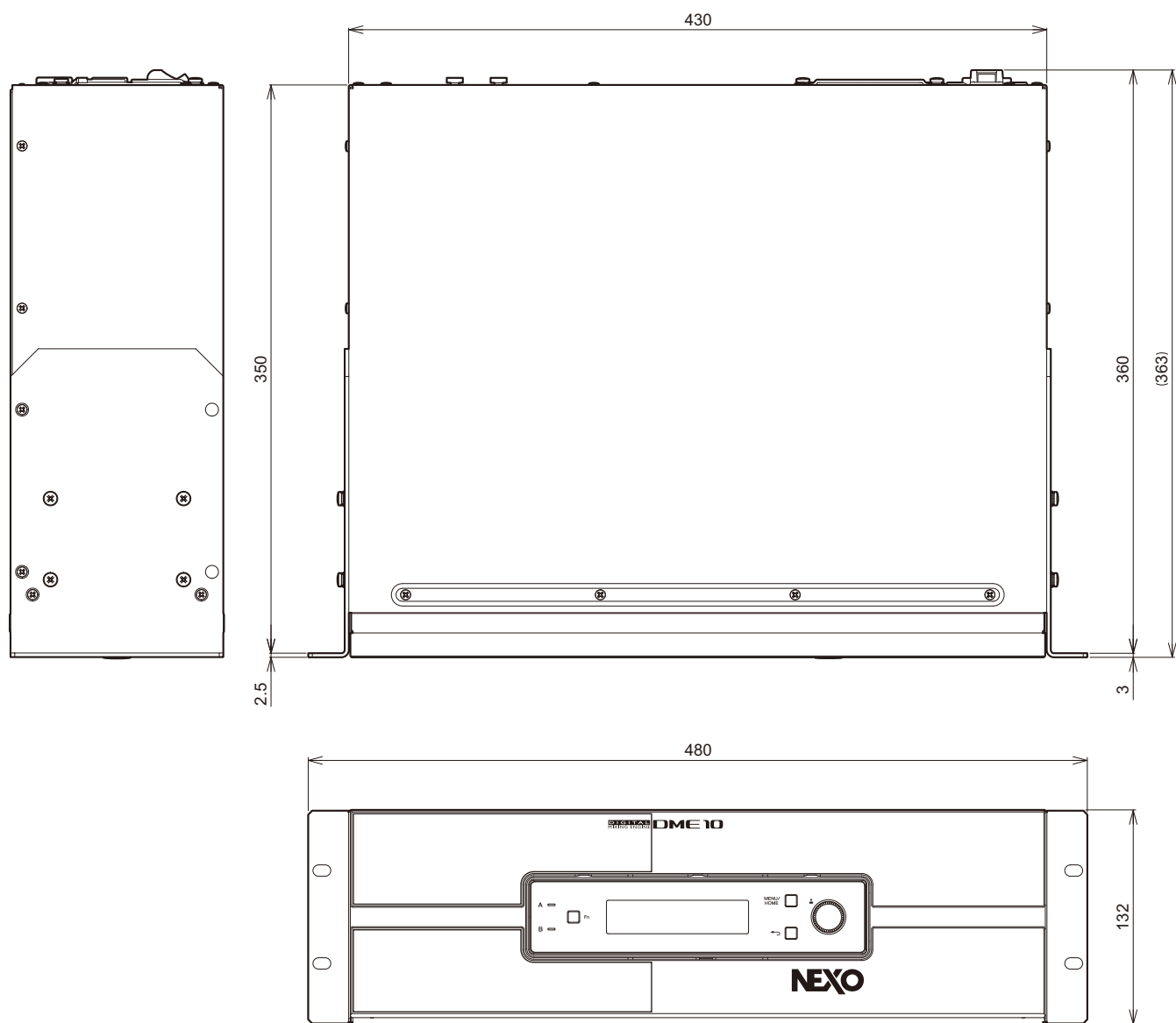
1. 同時按住 [Fn]、[MENU/HOME] 及 [↩]（返回）鍵，開啟電源。
2. 繼續按住這三個按鍵，直到畫面上顯示 NEXO 標誌與初始化畫面。  
初始化完成後，系統會自動重新啟動。

## 一般規格

Dante 介面	通道計數	256IN、256OUT、冗餘
	取樣頻率	44.1/48/88.2/96 kHz
	位元深度	24/32 位元
USB 音訊	通道計數	8IN、8OUT 帶 SRC
	取樣頻率	44.1/48/88.2/96 kHz
接頭	Dante	etherCON × 2 (PRIMARY / SECONDARY) 1000Base-T
	DCP	RJ45 × 1
	USB TO HOST	USB 2.0 Type-C (USB 音訊)
	USB TO DEVICE	USB 2.0 Type-A (檔案分享)
	網路	RJ45 × 1 100Base-TX
	GPIO	Euroblock 16 針 (mini) × 2 (GPI × 16、GPO × 8、+5 V 電源 × 4)
	MIDI	DIN 5 針 × 2 (IN、OUT)
	AC IN	AC 輸入口 (IEC、V-Lock) × 2
AC 電源需求		100 V 至 240 V；50 Hz/60 Hz
功耗		100 W
工作溫度		0 °C 至 +40 °C
儲存溫度		-20 °C 至 +60 °C
尺寸 (寬 × 高 × 深)		480 × 132 × 363 mm (3U)
淨重		9.5 kg
包裝內容物		設定指南 (本說明書)、Euroblock 接頭 (16 針, 3.50 mm 間距) × 2、 電源線 × 2、纜線鉤 × 1

\* 本使用說明書的內容為出版時最新的技術規格。請至 NEXO 網站下載最新版本的使用說明書。

Dimensions/Abmessungen/Dimensions/Dimensiones/Dimensões/  
Dimensioni/Размеры/尺寸/尺寸/치수/寸法図



Unit: mm

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```
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author>
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