



## iKAN-116

Single-row, 8/16-Character  
Industrial Modbus LED Display

## iKAN-124

Single-row, 12/24-Character  
Industrial Modbus LED Display



## iKAN-116S

Small-sized, Single-row, 8/16-Character  
Industrial Modbus LED Display

## iKAN-124S

Small-sized, Single-row, 12/24-Character  
Industrial Modbus LED Display



## iKAN-208 iKAN-216 iKAN-224

Double-row, (4/8)( 8/16)(12/24)-Character Industrial Modbus LED Display

### Features

- Web-Based User Interface
- 7-color display with a text height of 16/11.5 cm
- Able to store up to 128 messages with priority configuration
- Supports multiple languages (Glyphs for Arabic, Indian and Thai alphabets are not included)
- 168 variables available for displaying real-time data in a text message
- Can be remotely controlled via a PLC, PC or smartphone
- Supports Modbus TCP/Modbus RTU/CGI protocols
- Able to display indoor air quality indexes from DL modules without any controller
- The iKAN IP65 module isn't RoHS compliant



### Introduction

The iKAN series is a family of industrial LED message display devices that deliver industrial-grade anti-noise capabilities as well as reliability and stability. ASCII characters and Unicode characters, which can be used to display multiple languages, are supported for presenting formatted messages. Support for the popular Modbus industrial protocol is provided meaning that iKAN display devices can be easily integrated into existing PLC and SCADA environments.

The iKAN series allows data written from a PC or a PLC to be displayed in a formatted message in real-time. Seven colors are available for the text, which can be used to indicate different degrees of importance of the message, as well as significantly increase the readability of the message in an industrial arena.

Messages can be edited using a standard web browser, such as Google Chrome, Firefox, or IE, etc., on a PC, mobile device, or smartphone without any limitations related to specific control tools or programs. With an open user interface and the ability to display real-time data, the iKAN series of display devices are highly suitable to be applied in a variety of indoor or semi-outdoor spaces, including shopping malls, railway stations, and industrial areas.

### Smart Control with a Smartphone

The iKAN display allows you to edit messages and control the display using your smartphone.

This is very useful when you need to quickly and efficiently display an emergency message to a large number of readers.



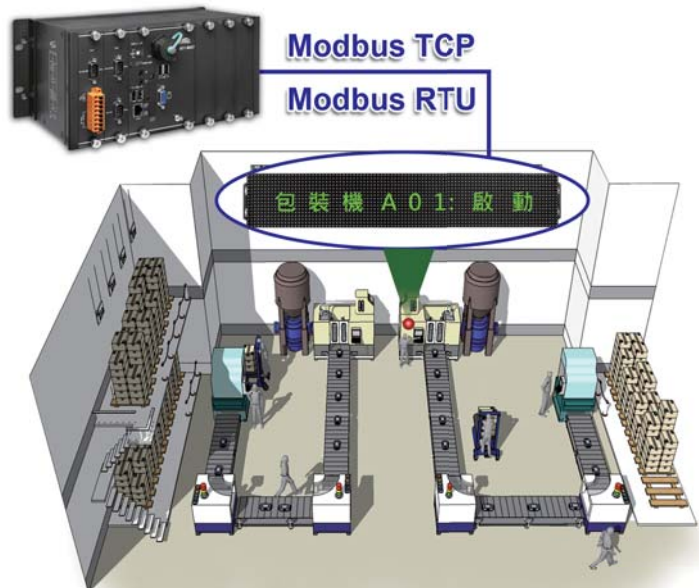
### Message Priority

Messages with instant priority have a higher priority than other messages. Once a message with instant priority is enabled, the common message currently being displayed will be suspended until the instant message is disabled. This feature allows the most important information to be displayed in an emergency situation.

### Applications

#### PLC HMI

Each model in the iKAN series provides storage space for up to 128 messages with priority configuration, and 168 variables to allow data written from a PLC to be displayed in a formatted message in real-time. Furthermore, Modbus commands can be sent from the PLC to display a message or hide it, or to transfer ASCII string to be displayed on the iKAN.



## Indoor Air Quality Display

The iKAN device can be used to display indoor air quality indexes from ICP DAS DL sensor modules, including details of the CO, CO<sub>2</sub>, and PM2.5 levels, the temperature, and the humidity, without requiring any programming skills or knowledge.

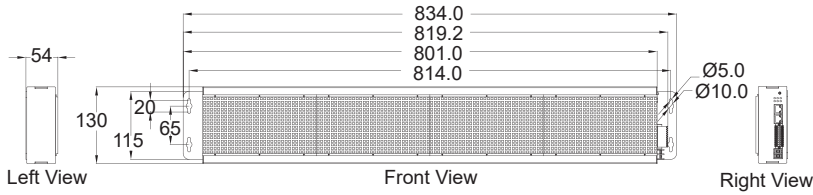


## Specifications

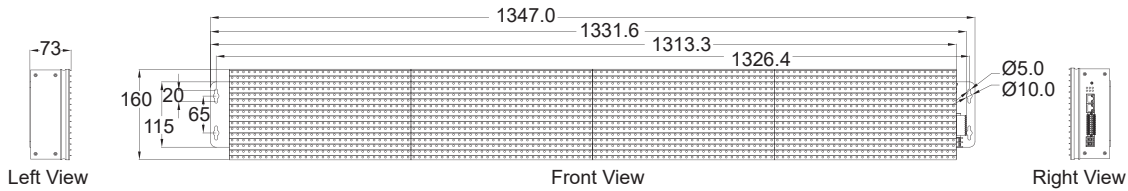
Model	iKAN-116	iKAN-116S	iKAN-124	iKAN-124S	iKAN-208	iKAN-216	iKAN-224	
<b>Display</b>								
Text Color	Red, Blue, Yellow, Green, Light Blue, Purple or White							
Character Sets	16-bit Unicode or 7-bit ASCII							
Display Size	Line	1	1	1	1	2	2	2
	ASCII Characters	16	16	24	24	8	16	24
	Unicode Characters	8	8	12	12	4	8	12
Message Pool	128 common messages with user-defined priority levels, Up to 20 Unicode characters or 50 ASCII characters each							
Data Pool	40 Coil values, 64 Float values, and 64 Integer values							
RTC (Real-time Clock)	Date and time, 24 hour format including second, minute, hour, date, day of the week, month, year							
<b>Ethernet</b>								
Port	2 × RJ-45, 10/100 Base-TX							
Protocol	Modbus TCP Master/Slave, Max. 8/8 connections							
Configuration	Web-based User Interface							
<b>COM Port</b>								
Port	2 × RS-485							
Protocol	Modbus RTU Master/Slave							
Baudrate (bps)	1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200							
Data Format	N81, E81, O81							
<b>Power</b>								
Input Range	100 ~ 240 VAC							
Consumption	0.3 A @ AC 120V	0.3 A @ AC 120V	0.35 A @ AC 120V	0.35 A @ AC 120V	0.3 A @ AC 120V	0.4 A @ AC 120V	0.5 A @ AC 120V	
<b>Mechanical</b>								
Dimensions (mm) (W × H × D)	1346 × 160 × 49	835 × 115 × 37.5	1986 × 160 × 49	1218 × 115 × 37.5	707 × 320 × 50	1346 × 320 × 49	1986 × 320 × 49	
Weight	4 Kg	2 Kg	4.6 Kg	2.5 Kg	4 Kg	8 Kg	12 Kg	
Installation	Wall mounting							
Housing Material	Aluminum							
<b>Environment</b>								
Operating Temperature	0 ~ +60°C							
Storage Temperature	-10 ~ +75°C							
Humidity	10 ~ 90% RH, Non-condensing							

## ■ Dimensions (Units: mm)

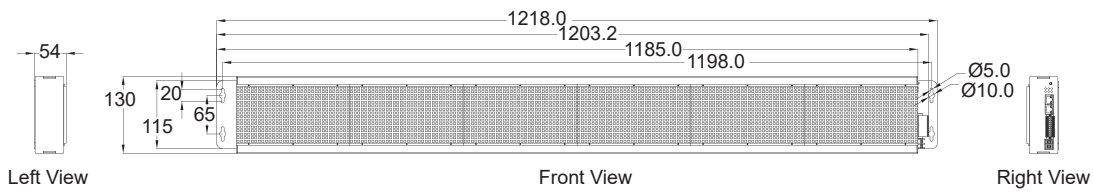
### iKAN-116S



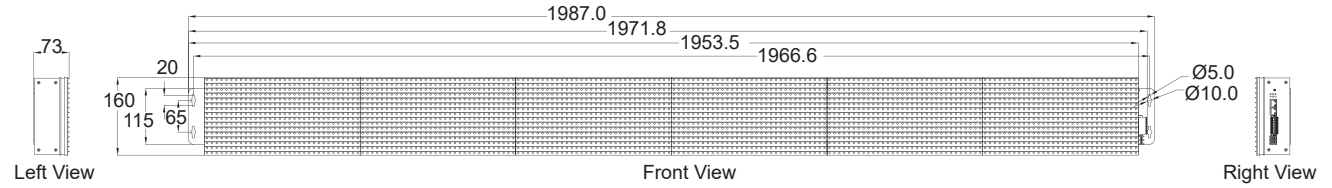
### iKAN-116



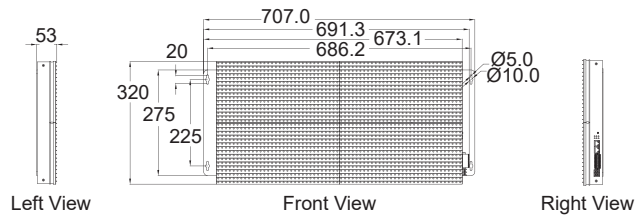
### iKAN-124S



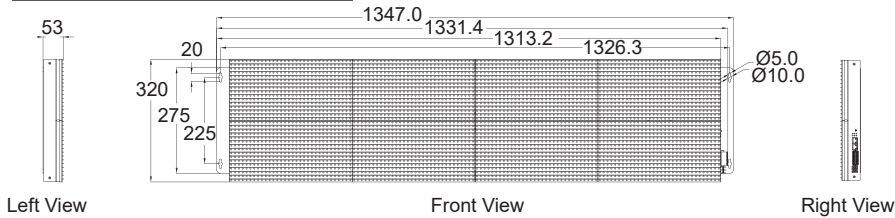
### iKAN-124



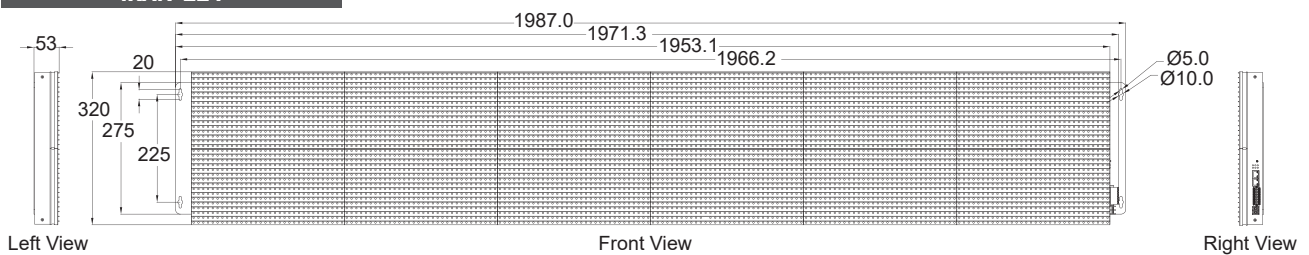
### iKAN-208



### iKAN-216



### iKAN-224



## ■ Ordering Information

<b>iKAN-116 CR</b>	Single-row, 8/16-Character Industrial Modbus LED Display with Web-based User Interface and Modbus/TCP protocol (RoHS)
<b>iKAN-116S CR</b>	Small-sized, Single-row, 8/16-Character Industrial Modbus LED Display with Web-based User Interface and Modbus/TCP protocol (RoHS)
<b>iKAN-124 CR</b>	Single-row, 12/24-Character Industrial Modbus LED Display with Web-based User Interface and Modbus/TCP protocol (RoHS)
<b>iKAN-124S CR</b>	Small-sized, Single-row, 12/24-Character Industrial Modbus LED Display with Web-based User Interface and Modbus/TCP protocol (RoHS)
<b>iKAN-208 CR</b>	Double-row, 4/8-Character Industrial Modbus LED Display with Web-based User Interface and Modbus/TCP protocol (RoHS)
<b>iKAN-216 CR</b>	Double-row, 8/16-Character Industrial Modbus LED Display with Web-based User Interface and Modbus/TCP protocol (RoHS)
<b>iKAN-224 CR</b>	Double-row, 12/24-Character Industrial Modbus LED Display with Web-based User Interface and Modbus/TCP protocol (RoHS)



## iKAN-116

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Single-row, 12/24-Character  
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## iKAN-116S

Small-sized, Single-row, 8/16-Character  
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## iKAN-124S

Small-sized, Single-row, 12/24-Character  
Industrial Modbus LED Display



## iKAN-208

## iKAN-216

## iKAN-224

Double-row, (4/8)/(8/16)/(12/24)-Character Industrial Modbus LED Display

### 特色

- 網頁操作介面 · 免安裝設定軟體
- 七種文字顏色 · 字高 16/11.5 cm
- 支援多國文字  
(不包含泰文、印度文與阿拉伯文等複雜語系文字)
- 128 組文字訊息預儲存空間 · 可設定優先權
- 168 個變數空間 · 可將 PC/PLC 的即時數據併入文字訊息顯示
- 可讓 PLC, PC 或智慧手機遠端控制顯示
- 支援 Modbus TCP/Modbus RTU/CGI 通信協定
- 可直接與 DL/CL 系列感測器模組連線並顯示即時監控數據
- iKAN IP65 型號無符合 RoHS



### 簡介

iKAN 系列工業級 LED 字幕機具有工業等級的抗雜訊能力 · 高可靠性與高穩定性 · 支援 ASCII 與 Unicode 編碼字集 · 可用於顯示多國語言文字訊息。也因為支援工業自動化領域裡廣泛普遍被使用的 Modbus 通信協定 · 能與各種工業控制設備通信 · 因此可以迅速地應用在各種 PLC、HMI 或 SCADA 控制系統中。

PC、PLC 或 SCADA 控制系統可透過網路或序列通訊埠將即時數據寫到 iKAN 系列字幕機 · 寫入的數值會按照預先規劃的格式顯示在文字訊息中。搭配 7 種文字顏色做為緊急程度的區別 · 可以大幅增加現場訊息的可讀性。

iKAN 提供 128 則文字訊息的預儲存空間 · 透過電腦或智慧手機的 Google Chrome、Firefox 或 IE 等網頁瀏覽器即可輕鬆編輯訊息 · 並控制要顯示或隱藏已編輯好的訊息。不受專用的控制設備與地點限制 · 隨時可以修改訊息內容或插播緊急訊息。開放的操作界面上能夠即時顯示資料的功能 · iKAN 字幕機可以安裝在各種室內或半戶外空間包含醫院、商場、機場、車站以及工業現場使用。

### 智慧手機控制

當發生突發狀況或是臨時有重要訊息需要通知現場人員時 · 取出隨身攜帶的智慧手機 · 打開網頁瀏覽器登入 iKAN 即可編修新的訊息 · 並能以最快的速度顯示新的訊息。



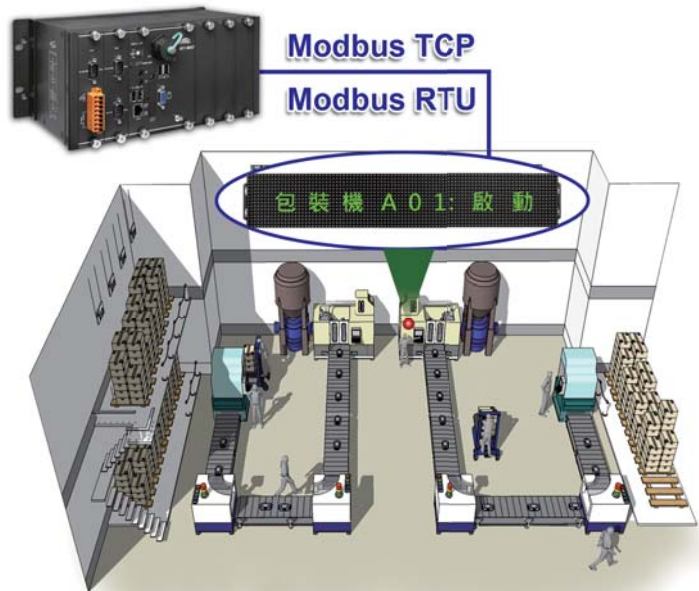
### 顯示優先權設定

設定 iKAN 的文字訊息時可同時設定優先權 · 若具有較高優先權的訊息被設定播放 · 則所有正在播放中的訊息都會停止 · 直到具有較高優先權的訊息停止播放 · 其他訊息才會再次顯示。使用者可以透過手機指定要優先顯示的訊息 · 也能在遠端的主機程式中控制緊急狀況發生時要臨時插播的訊息。

### 產品應用

#### PLC HMI

iKAN 系列顯示器提供 128 則訊息儲存空間與 168 個變數空間 · 可將 PLC 的即時資料顯示在文字訊息中。除此之外 · PLC 能傳送 Modbus 命令給 iKAN 控制要顯示或隱藏某則訊息 · 或是將 ASCII 編碼的字串傳送到 iKAN 顯示。



## 空氣品質監測

iKAN 可直接與 DL/CL 系列感測模組連線，讀取並顯示空氣品質監控數據包含室內溫、濕度、CO、CO2 與 PM2.5 濃度等資訊。案場人員能針對現場環境條件變化，即時採取有效的對策，以確保工作環境品質，提供現場人員健康的作業環境

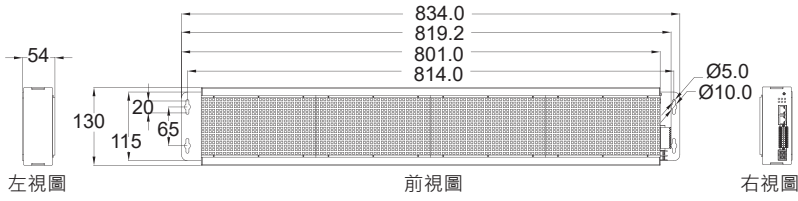


## 產品規格

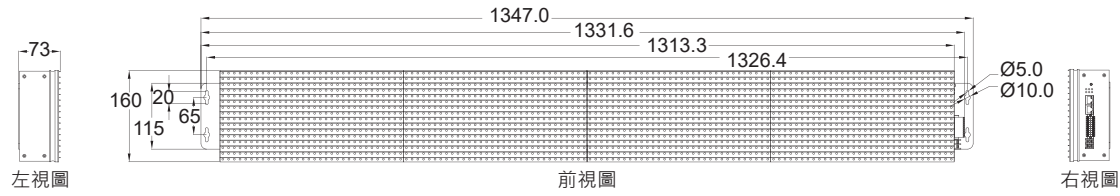
型號	iKAN-116	iKAN-116S	iKAN-124	iKAN-124S	iKAN-208	iKAN-216	iKAN-224	
顯示								
文字顏色	紅、藍、黃、綠、天空藍、紫、白							
支援字集	16-bit Unicode 或 7-bit ASCII							
顯示範圍	行數	1	1	1	1	2	2	2
	ASCII 字元	16	16	24	24	8	16	24
	Unicode 字元	8	8	12	12	4	8	12
訊息池容量	128 則文字訊息，可設定優先權 每則訊息最長為 20 個 Unicode 字元 (含中文字) 或 50 個 ASCII 字元							
數據池容量	40 個 Coil 變數、64 個整數變數、64 個浮點數變數							
RTC (萬年曆)	可設定與顯示時間包含西元年、月、日、星期、時、分、秒							
<b>乙太網路通信</b>								
埠數	2 × RJ-45, 10/100 Base-TX							
通信協定	最多 8 Modbus TCP Master 連線 · 8 Modbus TCP Slave 連線							
組態設定	網頁操作界面							
<b>序列通信</b>								
埠數	2 × RS-485							
通信協定	Modbus RTU Master/Slave							
傳輸速度 (bps)	1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200							
組態設定	N81, E81, O81							
<b>電源</b>								
輸入範圍	100 ~ 240 VAC							
功耗	0.3 A @AC 120V	0.3 A @AC 120V	0.35 A @AC 120V	0.35 A @AC 120V	0.3 A @AC 120V	0.4 A @AC 120V	0.5 A @AC 120V	
<b>機構</b>								
尺寸 (mm) (寬 × 高 × 深)	1346 × 160 × 49	835 × 115 × 37.5	1986 × 160 × 49	1218 × 115 × 37.5	707 × 320 × 50	1346 × 320 × 49	1986 × 320 × 49	
重量	4 Kg	2 Kg	4.6 Kg	2.5 Kg	4 Kg	8 Kg	12 Kg	
安裝方式	壁掛安裝							
外殼材質	鋁							
<b>環境參數</b>								
運作溫度	0 ~ +60°C							
儲存溫度	-10 ~ +75°C							
濕度	10 ~ 90% 相對濕度 · 非冷凝 (Non-condensing)							

## 尺寸圖 (單位: mm)

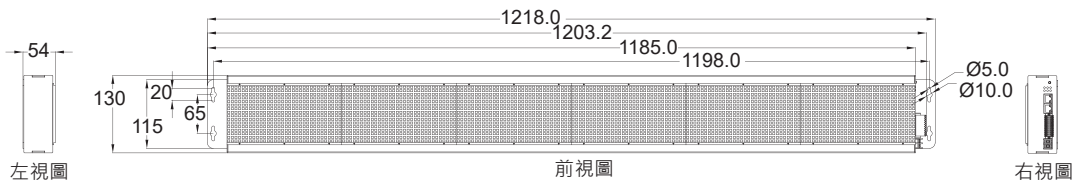
### iKAN-116S



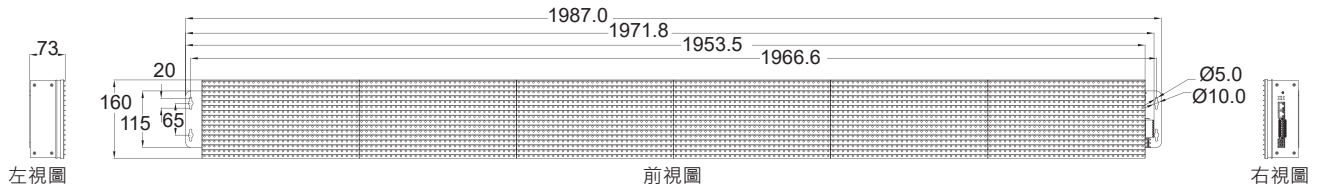
### iKAN-116



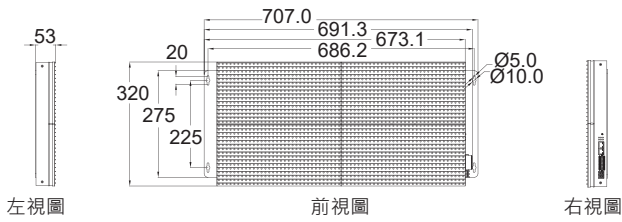
### iKAN-124S



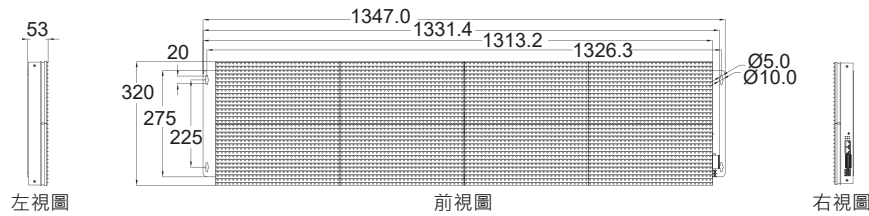
### iKAN-124



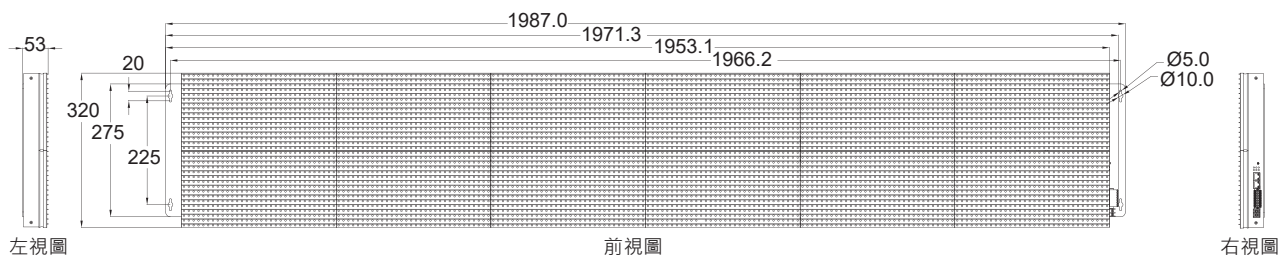
### iKAN-208



### iKAN-216



### iKAN-224



## 訂購訊息

<b>iKAN-116 CR</b>	單行條型, 8/16 字工業級 LED 字幕機, 內建網頁管理介面
<b>iKAN-116S CR</b>	單行條型, 8/16 字小尺寸工業級 LED 字幕機, 內建網頁管理介面
<b>iKAN-124 CR</b>	單行條型, 12/24 字工業級 LED 字幕機, 內建網頁管理介面
<b>iKAN-124S CR</b>	單行條型, 12/24 字小尺寸工業級 LED 字幕機, 內建網頁管理介面
<b>iKAN-208 CR</b>	雙行條型, 4/8 字工業級 LED 字幕機, 內建網頁管理介面
<b>iKAN-216 CR</b>	雙行條型, 8/16 字工業級 LED 字幕機, 內建網頁管理介面
<b>iKAN-224 CR</b>	雙行條型, 12/24 字工業級 LED 字幕機, 內建網頁管理介面