



路德會聖十架學校
Holy Cross Lutheran School

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D020

便攜式火警鐘 Portable Fire Alarm



設備旨在提高員工在發生火災時發出警報的積極性，並縮短發出警報所需的時間。
該套件採用模組化設計，並配備多種可編程感測器。便攜式火災警報系統使用觸摸感應器作為按鈕，可透過無線通訊於發送和接收紅外線訊號。它採用基於模塊的程序設計方式，允許程式編寫者建立邏輯序列，該設備還能發出警報以提醒使用者。這需要無線電訊號或藍牙技術在設備之間發送和接收警報。

它專為在火災發生時，員工可能因驚慌失措而無法迅速尋找並觸及「固定警報系統」啟動按鈕，或員工必須先到遠安全地點才能使用手機求助的情況而設計。這項便攜式警報裝置的觸摸通知功能尤為重要。

此款便攜式設備可與現有系統集成，確保警報的覆蓋範圍更廣泛。
此外，一個可編程的蜂鳴器，有效提升警報的覆蓋範圍。因此，即使缺少一個可攜式警報器，也不會造成任何延誤。

This innovative system is designed to sound alarms during a fire while significantly reducing activation time. With a modular design and multiple programmable sensors, the portable fire alarm system uses a touch sensor for activation and an infrared transmitter and receiver. It uses a block-based programming method that allows users to create logical sequences with customizable code blocks and emits an audible alarm to notify users. This requires radio signals or Bluetooth technology for notifications.

It is specifically designed for situations where employees may be too panicked to quickly locate and touch the activation button of a fixed alarm system, or where employees must reach a safe location before using their mobile phones to call for help. In these scenarios, the portable alarm device's functionality (reducing notification time) is particularly important.

This portable device can be integrated with existing systems, ensuring wide coverage. Furthermore, a portable alarm can be used as a backup, ensuring the overall alarm coverage even if a portable alarm is lost, it will still trigger an alarm.

創科大獎
IMMO AWARD

路德會聖十架學校
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職安健創科大獎頒獎禮

OSH INNOVATION & TECHNOLOGY AWARD PRESENTATION CEREMONY

3/6/2026

小學組 Primary Category
優異獎 Merit Award

Yaumati Catholic Primary
(Hoi Wang Road)

Vision & Posture Smart Glasses

Holy Cross Lutheran Primary
Portable Fire Alarm

S.K.H. St. Andrew's Primary
Smart Health & Safety

德烈小學 (海泓道)
頭小助手

十架學校
火警鐘

德烈小學
安全帽

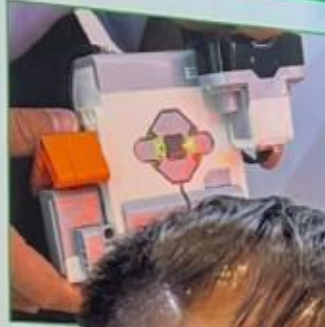




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便攜式火警鐘
Portable Fire Alarm



設備旨在... 並縮短發出警報所需的時間。
該套作... 器。便攜式火災警報系統使用觸控感應器作為按鈕，紅外線感應器用於
發送和... 式設計方式，允許程式碼區塊建立邏輯序列。該設備還能發出警報聲以提
醒使用... 備之間發送和接收警報。
它專為在... 而無法迅速尋找並觸及「固定警報系統」啟動按鈕，或職工必須先到達安全
地點才能... 便攜式警報裝置的... 時間功能尤為重要。
這款便... 版上，...
此外... 的警報... 因此，即使遺失一個可攜式警報器，
employee motivation... significantly reducing activation time
multiple programming... em uses a touch sensor for activation
communication. It a... with customizable code blocks and
active warnings, ... technology for notificat
situations where er... edly locate and tou
ing a fire, or where e... location before using the
the portable alar... (reducing notification t
attached to sta... Furthermore, a
actively incre... if a po

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職安健創科大獎
OUR INNOVATION & TECHNOLOGY AWARDS
小學組 Primary Category
優異獎 Merit Award
HKD 1000

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Primary Category
優異獎
Merit Award

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此裝置在提高員工在發生火災時發出警報的積極性，並縮短發出警報所需的時間。

該套件採用模組化設計，並配備多種可編程感測器。便攜式火災警報系統使用觸控感應器作為按鈕，紅外線感測器用於發送和接收紅外線訊號。它採用基於模組的程序設計方式，允許程式編寫者建立邏輯序列。該設備還能發出警報發出通知音。這需要無線電訊號或藍牙技術在設備之間發送和接收警報。

它專為在火災發生時，員工可能因驚慌失措而無法迅速尋找及觸及「固定警報系統」啟動按鈕，或員工必須在火災發生地點才能使用手機手動的情況而設計。這項便攜式警報裝置的縮短通知時間功能尤為重要。

此款便攜式設備可輕鬆固定於工作人員的制服上，確保警報的覆蓋範圍更廣泛。

此外，一些可攜式警報器能觸發其他裝置的警報，有效提升整體警報的覆蓋範圍。因此，即使遺失一個，也不會造成任何問題。

This innovative device boosts employee motivation to sound alarms during a fire while significantly reducing the time required to do so.

With a modular design and multiple programmable sensors, the portable fire alarm system uses a touch sensitive sensor as a button and an infrared sensor for communication. It allows users to create logical sequences with customizable code. The device can also emit an audible alarm for effective warnings, relying on radio signals or Bluetooth technology for notification.

It is specifically designed for situations where employees may be too panicked to speedily locate and touch the activation button of a fixed alarm system during a fire, or where employees must reach a safe location before using their mobile phone to call for help. In these situations, the portable alarm device's functionality (reducing notification time) is particularly important.

This portable device can be easily attached to staff uniforms, ensuring wide coverage. Furthermore, a portable device can trigger alarms on other devices, effectively increasing the overall alarm coverage. Therefore, even if a portable device is lost, it will not cause any problems.

