

# 東興自動化投資有限公司



## TEMI ROBOT FOR MEDICAL AND ELDERLY CARE 醫療與長者護理

### temi 護老機械人

#### 自動導航 以色列軍事科技

Temí 可以自動行駛至指定位置，如長者牀邊、房間、休息室、飯桌等，其視像聊天功能，正可以幫忙解決長者與親友的相思之苦，滿足長者與親友聯繫的渴望。Temí 亦可擔當「小助手」的角色，定時走到長者牀前，主動為長者量度體溫，攜帶消毒用品、設備，提醒長者消毒雙手，減低工作人員的負擔。

#### 購置成本低 自動避開障礙物

TEMI 擁有 20 多個感應器，可以準確到達護士設定的每一個地點。價格親民，容易安裝，購置成本低



#### 多種進階功能

可即時使用現有功能，或配合其他程式以達至更多進階效果

- 量度每間房間的空氣質素
- 巡邏並拍攝可疑影像
- 攜帶測溫儀量度體溫
- 運載消毒噴霧器到處消毒

#### 專人服務團隊

可選服務：

1. 設定全院社地圖與床位
2. 訂制托盤
3. 訂制院舍專有外形
4. 訂制接待處服務、每天巡邏流程、語音提示等
5. 申請政府資助



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移動電腦  
開放平台  
隨意安裝APP







# 三種護老院抗疫產品



**Steami**  
The Affordable ClO<sub>2</sub> Disinfecting Robot

Chlorine dioxide for surface decontamination

Military-grade LIDAR to navigate your entire house automatically

**Product Specification:**

**Steami part:**  
Mist composition: ClO<sub>2</sub> (Chlorine Dioxide)  
Concentration: 100ppm  
Refill cost: HKD 25 per liter  
Diffusion Rate: 100ml per nozzle per hour  
Suggested cycle: 4 hours  
Effective area: Under 100,000 square feet


**Temi part:**  
Robot: Autonomous mapping and navigation  
LIDAR radius: 12m  
Sensors: 20+ sensors for Obstacle Avoidance  
Battery life: 8 hours per 3 hours charge

What is ClO<sub>2</sub>? It kills not only bacteria but also other pathogens, mold, and fungus yet it is food safe. The US Army Sanitizes Food and Food contact surfaces with ClO<sub>2</sub>, particularly in battlefield kitchens.

**ROBOCORE**

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WWW.WEB.ON.COM



**THERMAL TEMI**

Take Body Temperature  
Patrol and cover an entire area  
Infection Control  
Record data  
Email Alert  
Photo Alert

**Thermal Temi:**

- Temi carries an IR array to sense human body temperature
- Record temperature and time stamp
- Configurable voice recording or photo taking
- Email temperature and photo
- Configurable welcome message
- Support English, Cantonese and Mandarin
- Mobile temperature taking – patrol around a premise and take all location's temperature

**IR Camera specification:**

- Small size, low cost 32x24 pixels Infrared (IR) array
- Use IR Array instead of Thermal camera to reduce cost by 10-fold
- Operational temperature range: -40 to 85°C allows deployment in all kinds of weather
- Accuracy: NETD of just 0.1K RMS at a 1Hz refresh rate
- I2C compatible digital interface
- Programmable refresh rate 0.5Hz...64Hz
- 3.3V supply voltage
- Electric Current: less than 23mA
- Complies with RoHS regulations

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A Tung Hing Automation Venture



**temIAQ**  
Indoor Air Quality without border

**Specification**

	CO <sub>2</sub>	VOC	PM <sub>2.5</sub>	HCHO	Temperature	Relative Humidity
Range	400-10000 ppm	0-1000 ppb	1-1000 µg/m <sup>3</sup>	0-5 mg/m <sup>3</sup>	-30-+125 °C	0-100 %
Resolution	1 ppm	1 ppb	0.01 mg/m <sup>3</sup>			
Accuracy	±40 ppm	±5%	±10%	±0.02 mg/m <sup>3</sup>	±0.3 °C	±3%
Response Time			≤3s			

**Dashboard**

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# Customers in Hong Kong

- Technology partners

- 中華電力公司 CLP
- 香港電燈 HK Electric
- 香港科學園 HKSTP
- 數碼港 Cyberport
- 信和集團 Sino Group
- 新世界集團 New World Group
- 香港電訊 HKT
- 香港生產力促進局 HKPC
- 香港機電工程署 EMSD
- 港鐵 MTR

- Utility customers

- ▶ 瑞士銀行 UBS
- ▶ 仲量行 JLL
- ▶ Amazon
- ▶ IBM
- ▶ 眼鏡88 Optical 88
- ▶ 香港地鐵公司 MTR
- ▶ 香港大學 HKU
- ▶ 香港職業訓練局 VTC
- ▶ 浸會大學 HKBU
- ▶ 台灣逢甲大學
- ▶ 香港理工大學 HK PolyU
- ▶ 清華大學 Tsinghua University
- ▶ 城市大學 City U of HK
- ▶ 嶺南大學 HKLU

- Healthcare

- ▶ 香港醫管局 Hospital Authority
- ▶ 香港仁濟醫院各分院 x9
- ▶ 香港賽馬會多家分院
- ▶ 香港聖公會多家分院
- ▶ 仁愛堂多家分院
- ▶ 路德會多家分院
- ▶ 東華三院多家分院
- ▶ 浸信會多家分院
- ▶ 博愛多家分院
- ▶ 協康會 Heep Hong Society
- ▶ 盲人輔導會 The Hong Kong Society for the Blind
- ▶ 失明人協進會 Hong Kong Blind Union
- ▶ 香港科技大學 HKUST
- ▶ 伊利沙伯醫院 Queen Elizabeth Hospital
- ▶ 靈實醫院 Haven of Hope Hospital
- ▶ 港安醫院 Adventist Hospital
- ▶ 香港兒童醫院 HK Children Hospital



# Steami 消毒噴霧機械人

群策群力齊抗疫   
雨後樂見彩虹現 



智能消毒機器人 

# Thermal temi 體溫探測機械人



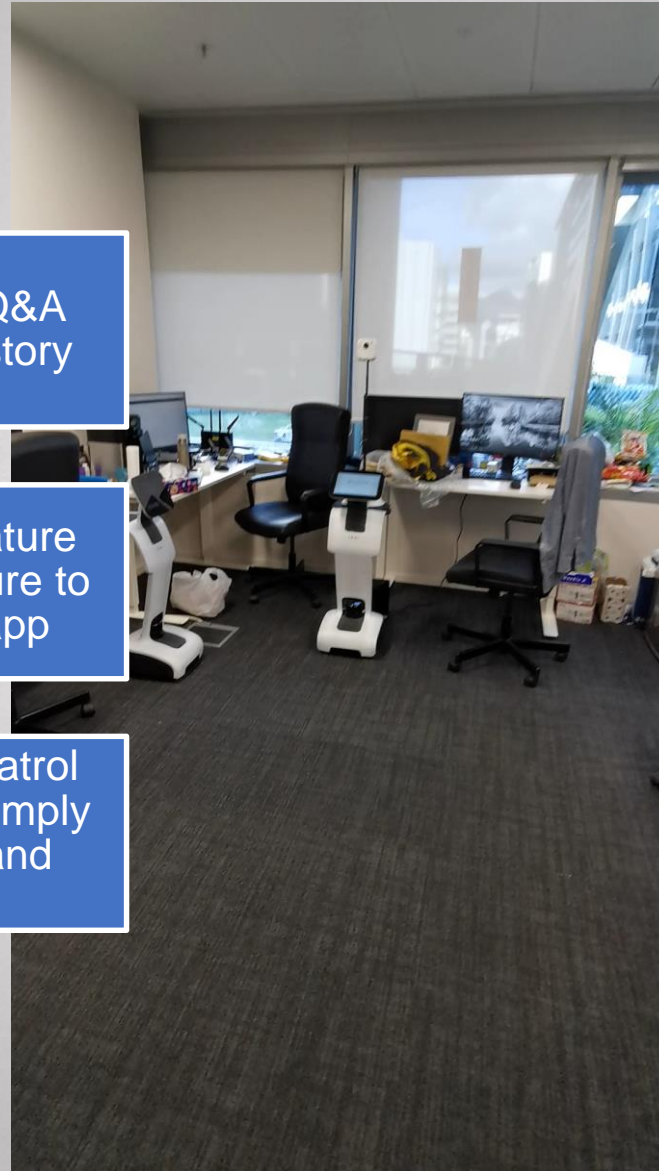
Step 1 – Ask customers Q&A about his past 14 days history



Step 2 – Take the temperature and transfer that temperature to a QR code of your own app



You can ask the robot to patrol and take temperature, or simply place it at the reception and collect data





# 外置托盤 Hardware trays



**UTILITY MOUNT**  
*for*  
t e m i

Custom Drink Tray      Bluetooth Lockbox

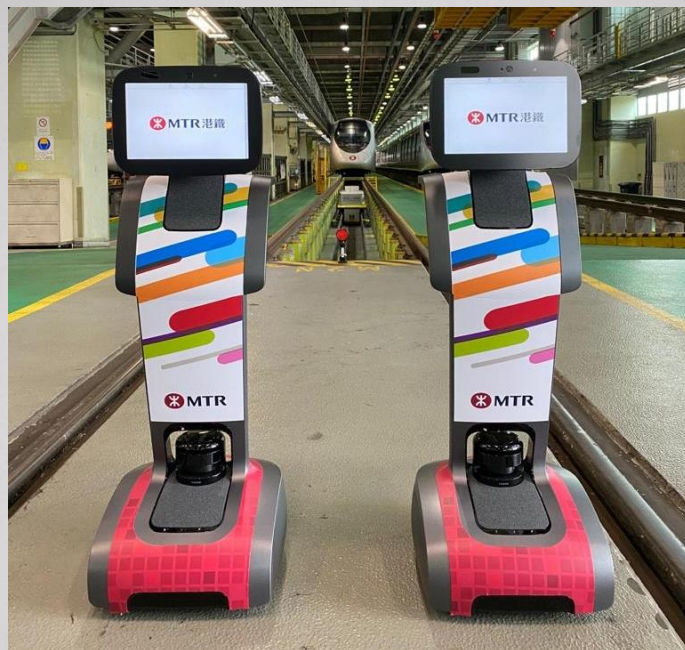
Camera Pod      Bluetooth Document Box

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# 裝飾






**NIKKEI ASIAN REVIEW**

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as major clients.

"These organizations need an urgent solution to mitigate human interaction during the crisis, so once they find out about us, they make orders without a second thought," said Lim.



"Since the virus outbreak in January, we can sell three to five robots every day," said Roy Lim, president of Tung Hing Automation.

With many customers telling him they will never be able to go back to doing everything manually again, Lim is confident demand for service robots like Temi will outlive the pandemic, and he is already looking to expand into Europe and other parts of Asia.

## Nikkei Asian Review

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**Now Playing** | **Up Next**

- How robots have joined the coronavirus battle (01 Apr)
- New online communities help those facing isolation (25 Mar)
- How to clean your smartphone safely (13 Mar)
- Could a hand washing robot help save lives? (05 Feb)
- Cupcakes, creams and cocktails: Too many pods? (07 Mar)
- The fake 'kitchen hacks' with billions of views (15 Feb)
- 'A good dog': F helps people w (09 Feb)

**How robots have joined the battle against coronavirus**

From taking temperatures remotely to helping with hand washing, robots are helping with healthcare around the world.

BBC Click's Lara Lewington looks at some of the novel ways robots are being used in the battle against coronavirus.

See more at [Click's website](#) and [@BBCClick](#)

01 Apr 2020

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## BBC News

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**Bloomberg**

Menu Search

- Access the internet
- Patrol around the center
- Provide various reminders

For You

Now Playing: Robot Corn Families Due Lockdown

00:28 No Better Than Smoking

01:44 Virus Update: Cases Near Deaths Top

03:16 Italian Covid Talks

02:50 Global Corona Cases Near Million

03:08 Coronavirus One Million

01:12 Stay-At-Home Helps Tobacco

03:29 Henry Scott Product

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## Bloomberg

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**TT HONG KONG ELDERLY ROBOT**

Projects Details Shotlist Storyline Categories

Project: None

Details: Robot protects elderly from virus by allowing video calls

Story No.: 4257358

Restrictions:


Duration: 00:03:10:00

Source: ASSOCIATED PRESS

Dateline: 14 February 2020 - Hong Kong

Date: 02/03/2020 12:20 PM

Shotlist



Clip Bin Request Share Select In HH:MM:SS / HH:MM:SS

00:00:00 00:00:05 00:00:10 00:00:20

## Associated Press





Viu TV



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Apple Daily



Headline Daily





Now News



East Week Magazine



Ming Pao



TVB News





待會會用棉棒放進你的鼻子

Cable TV



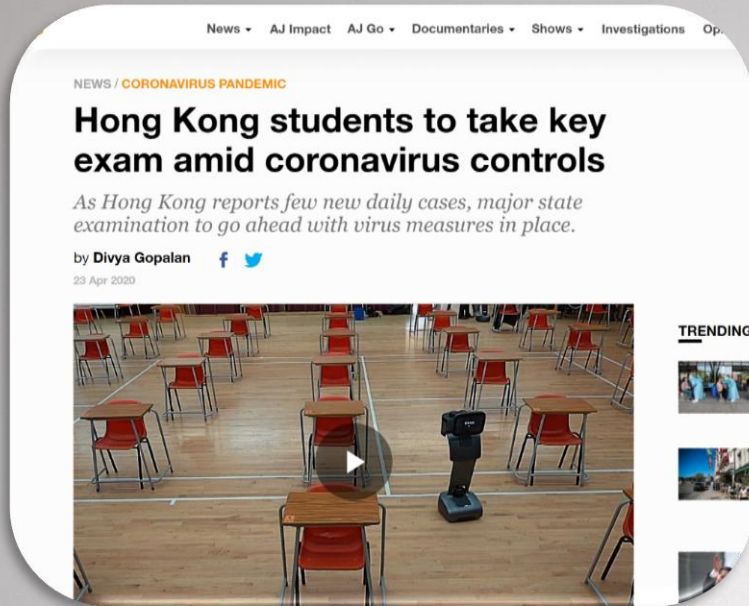
South China Morning Post



The Epoch Times



Sing Tao News



Al Jazeera



Hong Kong Skypost



Ming Pao



TVB 東張西望



Dr Temi



# 創新及科技局 – 盲人輔導會

香港特別行政區政府  
創新及科技局

科技抗疫

安老院舍隔離下  
機械人助拉近與家人距離

ITBHK

科

temi

ITB 科技抗疫



# 其他護老院輔助功能

機械人再可以加上：

- 1 ) 防跌監控
- 2 ) 人臉識別活動點名
- 3 ) 防認知障礙長者遊走
- 4 ) 消毒噴霧機、巡邏探熱機
- 5 ) 空氣質素傳感器
- 6 ) 與長者談心的陪伴機械人
- 7 ) 血壓計、血含氧量、醫生遙控面診



Thank you 多謝

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