新科科技有限公司
New Forward Technology Limited

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機身操作簡易指南 · QUICK OPERATION GUIDE

NF-BWC-S7 雙電池 GPS 隨身攝錄機

NF-BWC-S7 Dual-Battery GPS Body-Worn Camera

安全須知 · 機身部件 · 基本操作 · 充電及電池 · 記憶卡及取出錄影 · 佩戴及保養

Safety · Device overview · Basic operation · Charging & battery · Memory card & footage · Wearing & care





初版 First edition · 2026 年 11 月 November 2026

內容按廠方資料編寫，以實機為準 Based on manufacturer information; the actual unit prevails

新科科技有限公司 New Forward Technology Limited

九龍觀塘創業街15號萬泰利廣場40樓全層

40/F, Montery Plaza, 15 Chong Yip Street, Kwun Tong, Kowloon, Hong Kong

電話 Tel 2815 5056 · 電郵 Email admin@newforward.net · www.newforwardtech.com

1 安全須知 Safety Precautions

- 使用本機前，請細閱本指南。
  Read this guide before using the camera.
- 只使用隨機提供的 USB 線、充電器及充電配件；充電時請放在通風、遠離易燃物的地方，切勿覆蓋機身。
  Charge only with the supplied USB cable, charger and charging accessories, in a ventilated place away from flammable materials. Do not cover the unit while charging.
- 本機防護等級為 IP66（廠方標示），可抵禦塵埃及雨水，但並非潛水設備：切勿浸水；機身、接口或電池觸點潮濕時切勿充電；使用時請蓋好 USB 膠塞，並鎖好電池門。
  The camera is rated IP66 (manufacturer-stated) against dust and rain, but it is not a diving device: do not immerse it, never charge it while the body, the port or the battery contacts are wet, and keep the USB cover closed and the battery door locked in use.
- 切勿拆解機身或電池；切勿擠壓、刺穿、短路電池或把電池投入火中。電池如有鼓脹、漏液或異常發熱，請立即停用並聯絡新科科技。
  Do not disassemble the unit or the battery. Never crush, puncture, short-circuit or burn a battery. If a battery swells, leaks or overheats, stop using it and contact New Forward.
- 避免長時間放在高溫環境，例如陽光直射的車廂內。後備電池請放在充電座或絕緣袋內，避免金屬物件接觸電池觸點。
  Do not leave the camera in hot places such as a parked vehicle in direct sun. Keep the spare battery in the dock or an insulating pouch so that metal objects cannot touch its contacts.
- 請小心使用，避免摔跌及重壓；鏡頭請用柔軟乾布清潔。長期不使用時，請先充電後存放於陰涼乾爽處，並每三個月補充電一次。
  Handle with care; avoid drops and heavy pressure. Clean the lens with a soft dry cloth. For long storage, charge the battery first, keep the unit cool and dry, and top it up every three months.
- 切勿把白光燈或紅藍爆閃燈近距離直射任何人的眼睛。
  Never point the white light or the red / blue warning flash into anyone's eyes at close range.
- 錄影及錄音涉及個人資料：請按貴機構的指引使用，展示錄影告示，並妥善保管錄影檔案。
  Video and audio recordings contain personal data: follow your organisation's policy, display the recording notice and keep the footage secure.

關於本初版 About this first edition

本指南按廠方提供的產品資料編寫，操作以實機為準。如實機與本指南有出入，請以實機為準並通知新科科技，我們會在修訂版更新。

This guide is written from the manufacturer's product information; the actual unit prevails. If your unit differs from this guide, follow the unit and let New Forward know so that we can update the next edition.

日常使用流程 Daily use at a glance

充電 Charge › 佩戴及告示 Wear + notice › 錄影 Record › 回放檢查 Review › 複製到電腦 Copy to PC

2 機身部件 Device Overview

下圖以編號標示機身各部件，名稱按廠方說明書的按鍵說明編寫，對照表見下頁。線圖為示意，細節以實機為準。

The numbered callouts identify each part, named after the key list in the manufacturer's manual; the parts list is on the next page. The line drawings are illustrative; the unit prevails.

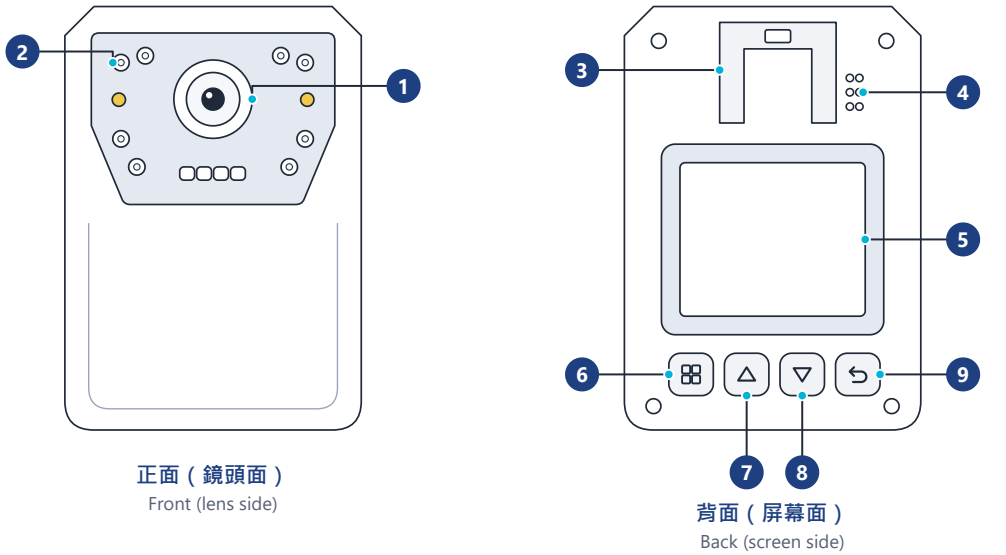


圖 2-1 Figure 2-1 正面及背面 Front and back

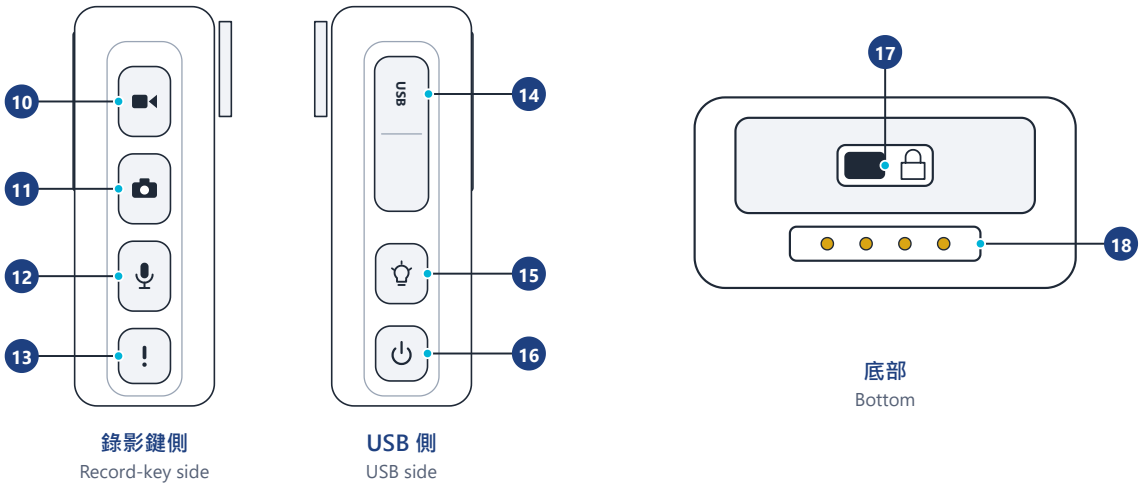


圖 2-2 Figure 2-2 機身兩側及底部 Both sides and bottom

正面另設白色補光燈、光感應器（自動控制紅外燈開關）及紅藍爆閃燈；機頂設工作指示燈；USB 接口旁設重設孔。

The front also carries the white fill light, the light sensor (switches the infrared lights automatically) and the red / blue warning flash; the working indicator is on top; a reset hole sits beside the USB port.

2.1 部件對照表 Parts list

編號 No.	部件 Part
1	**鏡頭** Lens
2	**紅外燈** Infrared LEDs
3	**背夾扣位** Clip mount
4	**喇叭孔** Speaker
5	**顯示屏** Display
6	**選單 / 確認鍵** Menu / OK key
7	**上鍵** Up key
8	**下鍵** Down key
9	**返回鍵** Back key

編號 No.	部件 Part
10	**錄影鍵** Record key
11	**拍照鍵** Photo key
12	**錄音鍵** Audio record key
13	**緊急鍵** Emergency key
14	**USB 接口（數據及充電）** USB port (data and charging)
15	**燈鍵** Light key
16	**電源鍵** Power key
17	**電池門鎖** Battery-door lock
18	**充電座觸點** Dock contacts

2.2 指示燈 Indicator lights

指示燈 Indicator	位置 Where	含義 Meaning
藍色 Blue	機頂工作指示燈	充電時長亮，充滿後自動熄滅。 Steady while charging; goes out when the battery is full.
綠色 Green	機頂工作指示燈	開機待機時長亮；錄影、錄音或拍照指示燈亮起時會同步熄滅。 Steady when on standby; goes out while the video, audio or photo indicator is lit.
紅色 Red	機頂工作指示燈	錄影時閃爍；拍照時亮起，拍照完成後熄滅。 Flashes while recording video; lights while a photo is taken.
黃色 Yellow	機頂工作指示燈	錄音時閃爍。 Flashes while recording audio.

注意 開啟「密拍開關」後，所有操作均沒有聲音提示及相應的指示燈。
Note With Covert mode on, no operation gives a sound or lights its indicator.

3 基本操作 Basic Operation

下表按廠方說明書編寫。「待機」指開機後的拍攝預覽畫面。
The table follows the manufacturer's manual. "Standby" means the live preview shown after power-on.

按鍵 Key	短按 Short press	長按 Long press
電源鍵 16 Power key	開機狀態下：關閉屏幕背光。 When on: turns the screen backlight off.	按住約 3 秒：開機 / 關機。 Hold for about 3 s: power on / off.
錄影鍵 10 Record key	待機時：開始 / 停止錄影。 On standby: start / stop video recording.	關機狀態下：開機並直接開始錄影（一鍵錄影）。 From power-off: switches on and starts recording (one-key recording).
拍照鍵 11 Photo key	待機時：拍照。 錄影期間：抓拍一張與錄影解像度相同的相片。 On standby: take a photo. While recording: take a still at the video resolution.	—
錄音鍵 12 Audio record key	待機時：開始 / 停止錄音。 On standby: start / stop audio recording.	開啟夜視模式。 關機狀態下：開機並直接開始錄音（一鍵錄音）。 Night-vision mode on. From power-off: switches on and starts audio recording (one-key audio).
緊急鍵 13 Emergency key	紅藍燈閃爍並發出警報聲；再按一次取消。 Red / blue lights flash with a siren; press again to stop.	錄影期間：把目前影片設為重點影片；再按一次取消。 While recording: marks the current video as important; press again to cancel.
燈鍵 15 Light key	開啟夜視。 Night vision on.	開啟白光燈。 White light on.
選單 / 確認鍵 6 Menu / OK key	待機時：進入選單。 選單或回放模式下：確認。 On standby: opens the menu. In the menu or in playback: confirm.	—
上鍵　下鍵 7 8 Up / Down keys	選單或回放模式下：向上 / 向下選擇，或向左 / 向右翻頁。 In the menu or in playback: move up / down, or page left / right.	—
返回鍵 9 Back key	返回上一級。 Back one level.	—

注意　重點影片：錄影期間長按緊急鍵，屏幕上方會顯示重點標識；開啟循環錄影時，重點影片不會被覆蓋。紅外夜視可按燈鍵或長按錄音鍵開啟，亦會由光感應器感應環境亮度自動開關；雙濾光片切換令日間畫面不偏色。夜視畫面為黑白屬正常。

Note　Important videos: hold Emergency while recording — a mark appears at the top of the screen, and marked videos are not overwritten by loop recording. Night vision is switched on with the Light key or a long press of Audio, and the light sensor also switches the infrared lights by ambient brightness; a dual filter keeps daytime colours true. A black-and-white night picture is normal.

3.1 選單設定 Menu settings

待機時短按選單 / 確認鍵進入選單，以上 / 下鍵選擇項目，按選單 / 確認鍵確認；短按返回鍵退出目前設定。選單項目名稱以機上顯示為準。

On standby, short-press Menu / OK to open the menu, choose an item with Up / Down and confirm with Menu / OK; press Back to leave the current setting. Item names follow the on-screen labels.

選單項目 Item	選項 Options
視頻分辨率 Video resolution	480P/30、720P/30、1080P/30、1296P/30、1440P/30（預設 1080P/30） 480P to 1440P at 30 fps (default 1080P/30)
照片分辨率 Photo resolution	4M、8M、12M、26M、34M、40M、48M（預設 8M） 4, 8, 12, 26, 34, 40 or 48 MP (default 8 MP)
照片連拍 Burst shooting	關 / 3 / 5 / 10 張（預設關） Off / 3 / 5 / 10 shots (default off)
視頻預錄 Pre-recording	開 / 關（預設關） On / Off (default off)
視頻延錄 Post-recording	關 / 5 秒 / 30 秒 / 1 分鐘 / 5 分鐘（預設關） Off / 5 s / 30 s / 1 min / 5 min (default off)
超級存儲 Super storage	開 / 關（預設關） On / Off (default off)
循環錄影 Loop recording	開 / 關（預設關） On / Off (default off)
分段時間 Clip length	3 / 5 / 10 / 15 / 20 / 30 分鐘（預設 3 分鐘） 3 / 5 / 10 / 15 / 20 / 30 min (default 3 min)
運動偵測 Motion detection	開 / 關（預設關） On / Off (default off)
屏幕保護 Screen saver	關 / 30 秒 / 1 分鐘 / 2 分鐘（預設 30 秒） Off / 30 s / 1 min / 2 min (default 30 s)
自動關機 Auto power-off	關 / 3 / 5 / 10 分鐘（預設 3 分鐘） Off / 3 / 5 / 10 min (default 3 min)
按鍵音 Key tone	開 / 關（預設開） On / Off (default on)
曝光補償 Exposure compensation	−3 至 +3（預設 0） −3 to +3 (default 0)

選單項目 Item	選項 Options
音量調節 Volume	低 / 中 / 高（預設中） Low / Medium / High (default medium)
車載模式 Vehicle mode	開 / 關（預設關） On / Off (default off)
密碼設置 Password	初始密碼 000000；輸入舊密碼後可更改 Initial 000000; enter the old password to change it
密拍開關 Covert mode	開 / 關（預設關） On / Off (default off)
本機編號 Device ID	7 位設備編號 7-digit device ID
警員編號 User ID	6 位用戶編號 6-digit user ID
語言設置 Language	簡體中文 / 繁體中文 / 英文（預設簡體中文） Simplified / Traditional Chinese, English (default Simplified)
語音播報 Voice prompts	開 / 關（預設關） On / Off (default off)
GPS GPS	GPS 定位開關 GPS positioning on / off
日期 / 時間 Date / time	設定日期及時間 Set the date and time
格式化 Format	格式化記憶卡 Formats the memory card
默認設置 Factory defaults	選「是」恢復所有選單初始設定 Select "Yes" to restore all menu settings
版本 Version	顯示軟件版本 Shows the software version

說明 超級存儲：降低畫質以減少佔用空間，可錄影時間約增加一倍。運動偵測：待機時鏡頭前有物體移動即自動錄影 20 秒，20 秒內沒有移動便停止。車載模式：由車載電源經 USB 供電，汽車點火後自動開機錄影，熄火後自動儲存並關機。屏幕保護關屏後，按任何按鍵可重新開啟屏幕。

Notes Super storage: lowers picture quality to save space — about twice the recording time. Motion detection: on standby, movement in front of the lens starts a 20-second recording, which stops if there is no movement within 20 s. Vehicle mode: powered from a vehicle supply through USB, the camera starts recording when the ignition is switched on, and saves and switches off when it is switched off. After the screen saver turns the screen off, any key turns it back on.

4 充電及電池 Charging and Battery

- 本機隨機提供兩枚 2200 mAh 可拆卸電池：每枚電池約可錄影 9 小時，兩枚合共 18 小時或以上（廠方標示）。如需連續錄影超過約 9 小時，請中途換上第二枚電池（見 4.1）。
  Two removable 2200 mAh batteries are supplied: approx. 9 h of recording per battery, 18 h or more with both (manufacturer-stated). To record continuously for longer than about 9 hours, swap to the second battery part-way (see 4.1).
- 充電：可經 USB 接口 14 充電，或把攝錄機放入充電座，經底部觸點 18 充電；廠方標示可邊充電邊錄影。充電時機頂藍燈長亮，充滿後自動熄滅。
  Charging: through the USB port 14, or by seating the camera in the charging dock, which charges through the contacts 18; recording while charging is manufacturer-stated. The blue indicator on top stays on while charging and goes out when full.
- 只使用專用充電座或充電器；切勿放在高溫環境；防止觸點短路；切勿把電池投入火中。
  Charge only with the dedicated dock or charger; keep away from high temperature; do not short the contacts; never put a battery in a fire.

4.1 不停機更換電池 Swapping the battery without stopping

廠方標示更換電池時錄影不會中斷。首次執勤前，請先試換一次電池。

The manufacturer states that recording continues while the battery is changed. Practise one swap before the first shift.

1 準備後備電池 Have the spare ready

確認後備電池已充滿，放在手邊。

Make sure the spare is fully charged and within reach.

2 開鎖換電池 Unlock and swap

撥開底部電池門鎖 17，取出用完的電池，放入後備電池。

Slide the battery-door lock 17, take out the used battery and insert the spare.

3 鎖好並確認 Lock and check

蓋好電池門並鎖上；看屏幕確認錄影沒有中斷。

Close and lock the battery door; check on the screen that recording continued.

4 把舊電池充電 Recharge

把用完的電池放入充電座充電。

Put the used battery in the dock to recharge.

5 記憶卡及取出錄影 Memory Card and Copying Footage

- 本機隨機提供 256 GB 記憶卡，最高支援 512 GB（廠方標示）。256 GB 約可錄 55–60 小時 1080p，約 7 個 8 小時工作天（按廠方儲存表估算）。
  A 256 GB memory card is supplied; up to 512 GB is supported (manufacturer-stated). 256 GB holds approx. 55–60 h of 1080p — about 7 working days of 8 hours (approx., per manufacturer storage tables).
- 錄影、相片及錄音分別存於 DCIM 資料夾內的 VIDEO、PHOTO 及 AUDIO 資料夾；影片為 MP4 / MOV（H.264）格式。檔名及水印包含拍攝時間、警員編號及產品編號。
  Videos, photos and audio are stored in the VIDEO, PHOTO and AUDIO folders inside DCIM; videos are MP4 / MOV (H.264). File names and the watermark carry the recording time, user ID and device ID.
- 以 USB 線複製到電腦：停止錄影 → 打開 USB 膠塞 14，以 USB 數據線連接電腦（如已開啟密碼保護，須先在本機輸入密碼，初始密碼 000000）→ 從攝錄機的磁碟複製檔案並試播 → 在電腦「安全移除硬件」後拔線，蓋好膠塞。
  Copying by USB: stop recording → open the USB cover 14 and connect the data cable to the PC (if password protection is on, enter the password on the camera first; initial 000000) → copy the files from the camera's drive and test-play them → use "Safely Remove Hardware", unplug and close the cover.

5.1 GPS 定位 GPS positioning

本機內置 GPS，可在選單「GPS」開關。接收到衛星訊號後，位置資料會一併記錄，在電腦以廠方播放軟件播放時可顯示路線軌跡（廠方標示）；室內或有遮擋時可能未能定位。如需播放軟件，請聯絡新科科技。

The camera has built-in GPS, switched on and off under "GPS" in the menu. Once satellites are received the position is recorded too, and the manufacturer's PC player shows the route during playback (manufacturer-stated); a fix may not be available indoors or under cover. Contact New Forward for the player software.

6 佩戴及錄影告示 Wearing and Recording Notice

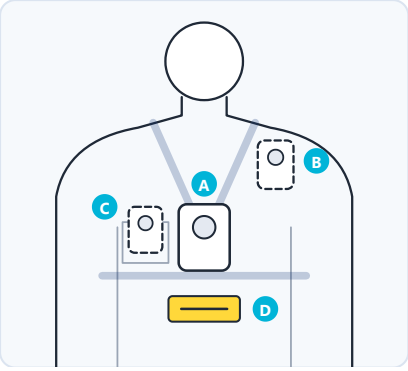


圖 6-1 Figure 6-1 佩戴位置
Wearing positions

告示為示意圖，樣式以隨機提供的為準。
Notice shown for illustration; the supplied one may differ.

- **A** 胸前中央（建議）：以隨機的胸前 / 肩膊揹帶固定，畫面最穩定，視野最接近佩戴者所見。
  Centre of the chest (recommended): on the supplied chest / shoulder harness — the steadiest picture, closest to what the wearer sees.
- **B** 肩帶位置：以背夾夾在肩帶上，機身保持垂直。
  Shoulder strap: use the back clip on a shoulder strap and keep the body upright.
- **C** 胸袋或衣襟：以背夾夾穩，確保不會鬆脫。
  Chest pocket or placket: clip the camera on firmly so that it cannot work loose.
- **D** 雙語錄影告示：佩戴於身前當眼位置，讓在場人士知道正在錄影及錄音。
  Bilingual recording notice: worn where it is clearly visible, so that people nearby know that video and audio are being recorded.



- 機身保持垂直、鏡頭向正前方，並確保沒有被衣領、對講機或安全帶遮擋。
  Keep the camera upright with the lens pointing straight ahead, clear of collars, radios and safety harnesses.
- 開始巡查前先錄一小段試片並在屏幕回放，檢查拍攝角度及聲音。
  Before the inspection, record a short test clip and play it back on the screen to check the angle and the sound.

7 保養及故障排除 Care and Troubleshooting

情況 Symptom	處理方法 What to do
不能開機 Will not switch on	電量不足或電池處於保護狀態：充電後再開機；或以幼針輕按 USB 接口旁的重設孔後重新開機。 Battery flat or in protection mode: charge and switch on again, or press the reset hole beside the USB port with a thin pin and switch on.
死機、按鍵沒有反應 Frozen / keys do not respond	輕按重設孔後重新開機；如經常死機，請聯絡新科科技。 Press the reset hole and switch on again; if it freezes often, contact New Forward.
開機後屏幕全黑 Screen stays black	可能已關閉屏幕：再按一下電源鍵即可恢復顯示；如仍全黑，請輕按重設孔後重新開機。 The screen may have been switched off: press Power once to restore the display; if it stays black, press the reset hole and switch on again.
日期時間不正確 Wrong date / time	在選單「日期 / 時間」重新設定。 Set it again under "Date / time" in the menu.
電腦提示「請重新連接設備」 PC asks to reconnect the device	USB 線或電腦 USB 接口接觸不良：更換 USB 線或接口再試。 Faulty USB cable or PC port: try another cable or port.
影片沒有 GPS 軌跡 No GPS track	確認選單「GPS」已開啟；GPS 須在空曠位置接收衛星訊號。 Check that "GPS" is on in the menu; GPS needs a clear view of the sky.

8 主要規格 Key Specifications

以下規格均為廠方標示，以實機為準。
All specifications are as stated by the manufacturer; the actual product prevails.

項目 Item	規格 Specification
錄影 Video	1440P（2560 × 1440）/ 1296P / 1080P / 720P / 480P，30 fps；MP4 / MOV（H.264）；附聲音 1440P (2560 × 1440) / 1296P / 1080P / 720P / 480P at 30 fps; MP4 / MOV (H.264); with audio
相片 Photo	最高 4800 萬像素（JPEG） Up to 48 MP (JPEG)
鏡頭及夜視 Lens and night vision	130° 廣角；紅外夜視距離 8–15 米；光感應器自動切換；雙濾光片 130° wide angle; IR night vision 8–15 m; automatic switching by light sensor; dual filter
燈光及警示 Lights and warning	白色補光燈；紅藍爆閃燈連警報聲 White fill light; red / blue warning flash with siren
顯示屏及定位 Display and positioning	480 × 360 彩色顯示屏；內置 GPS 480 × 360 colour display; built-in GPS
儲存 Storage	隨機提供 256 GB 記憶卡；最高支援 512 GB 256 GB card supplied; up to 512 GB
電池 Battery	兩枚 2200 mAh 可拆卸電池；每枚約 9 小時，兩枚合共 18 小時或以上；不停機換電；充電座 Two removable 2200 mAh; approx. 9 h each, 18 h or more with both; hot-swap; charging dock
防護及環境 Protection, environment	IP66；裸機可承受 2.5 米自由跌落；濕度 ≤ 93%；存放 −40 °C 至 60 °C IP66; survives a 2.5 m free drop; humidity ≤ 93%; storage −40 °C to 60 °C
尺寸及重量 Size and weight	56 × 80 × 28 mm；123 g（連背夾 138 g） 56 × 80 × 28 mm; 123 g (138 g with clip)

9 技術支援 Technical Support

新科科技有限公司 New Forward Technology Limited

地址 Address 九龍觀塘創業街15號萬泰利廣場40樓全層
40/F, Montery Plaza, 15 Chong Yip Street, Kwun Tong, Kowloon, Hong Kong

電話 Tel 2815 5056 · 2618 5055 · 9405 8300

電郵 Email admin@newforward.net

網址 Web www.newforwardtech.com

辦公時間 Hours 星期一至五 09:30 – 18:00
Monday to Friday, 09:30 – 18:00

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