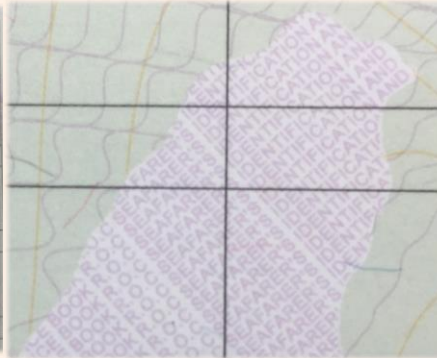


1 微小字印刷 Micro text

將” SEAFARER'S IDENTIFICATION AND SERVICE BOOK R.O.C”縮小，經印刷後仍有清晰的筆劃。設計肉眼遠看似一條實線或虛線，近看或透過放大鏡或放大設備才可清楚辨識。

The repeating micro-text reads “SEAFARER'S IDENTIFICATION AND SERVICE BOOK R.O.C”.
Printed text visible clear only with magnifying device.



SEAFARER'S IDENTIFICATION AND SERVICE BOOK R.O.C.

2 光學變色油墨 Optical variable ink (OVI)

使用特殊光學油墨，輕轉圖案呈現不同顏色之變化。

變色油墨對白光的反射光波長取決於光入射角的大小。從肉眼觀察到的效果即是隨著觀看角度的不同，油墨的顏色會發生改變。彩色複印機或掃描機只能在固定的角度相對於文檔的表面複製一份文件，OVI 印刷是特別有用的防偽措施。

The ink displays two distinct colors depending on the angle the MPB logo is viewed at. Color-shifting inks reflect various wavelengths in white light differently, depending on the angle of incidence to the surface. An unaided eye will observe this effect as a change of color while the viewing angle is changed. A color copier or scanner can copy a document only at one fixed angle relative to the document's surface.



3 雕刻凹版印刷 Intaglio printing

雕刻凹版印刷的印版，印刷圖記紋線低於空白處，下凹程度依圖像層次差異有深淺不同，深度越深，圖像層次越暗。凹版印刷油墨濃厚，所印製圖記紋線呈現浮凸立體感。

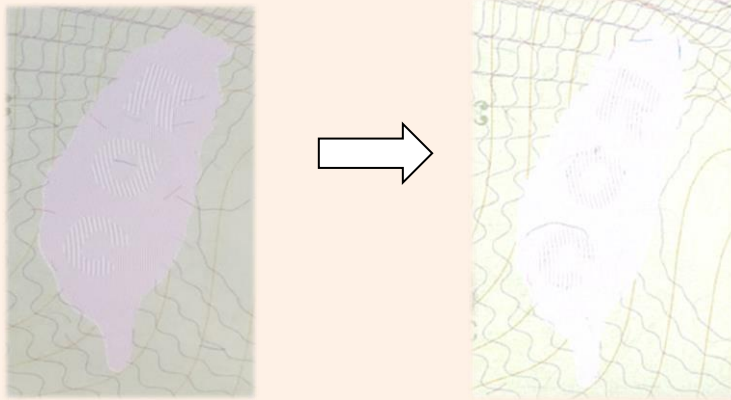
Engraved precision printing is used to elevate the ink, which when touched ridge a 3-Dimensional feel and effect.



4 防拷貝印刷 Anti-copying marks

設計台灣地圖運用細紋及特殊油墨印刷，其細紋透過掃描或複製後呈現空白。

The Taiwan map design using fine lines and printed with special ink. After scanning or copying, we can't see the fine lines.



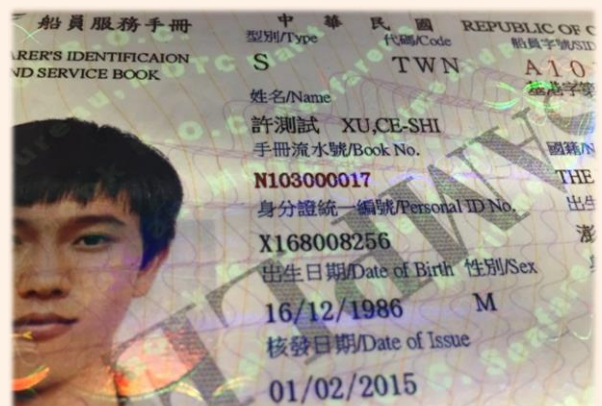
5 隱性螢光 UV 油墨 Covert fluorescent ink

- 內頁採用證券紙，含有隱性螢光絲。
- 手冊內頁設計交通部航港局 LOGO 圖及字樣，以隱性螢光 UV 油墨印刷。
- 基本資料頁膠膜防設計波浪字體 Maritime and Port Bureau, MOTC 及 Seafarer's Identification And Service Book R.O.C，以隱性螢光 UV 油墨印刷。

在紫外線或其它不尋常光線的照射下發出螢光的染料，才可顯示出文字、圖案或者圖片。防偽類型為隱性，需用儀器鑑定。

- Fluorescent fibers: Under ultraviolet light, paper fibers change to different colors.
- Covert fluorescent ink: Under ultraviolet light, the MOTC logo and words appears in yellow fluorescent ink.
- Security Foil: The repeating line reads “Maritime and Port Bureau, MOTC” and “Seafarer's Identification And Service Book R.O.C”

Image or text printed with special ink that becomes visible when observed in ultraviolet light.



6 光學雷射成像技術印刷 Laser holographic anti-counterfeiting technology

不同的角度產生 ROC、TWN 漸變文字。

Read ROC and TWN two gradient words in different angles.



7 浮雕潛影及外圈微小字 Embossed hologram latent image & micro text

潛影的原理是在一個畫面中潛入其他元素，如將文字或圖形潛藏在底紋裡。

設計交通部航港局圓章及外圈微小字“SEAFARER'S IDENTIFICATION AND SERVICE BOOK R.O.C”。

Hologram latent image, which combines a hologram with MOTC chapter round in 3D, with at least two optical effects, as well as anti-photocopy and anti-scanner characteristics. The repeating micro-text reads “SEAFARER'S IDENTIFICATION AND SERVICE BOOK R.O.C” around the image outer ring.

