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POL.LT.PAWEENA KASIKITWIWAT : A STUDY OF THE EXAMINATION TECHNIQUE OF PASSPORT UTILIZING VIDEO SPECTRAL COMPARATOR. THESIS ADVISORS : POL.MAJ.GEN. VISUDDHI SUVARNASUDDHI, Cert. (Police Cadet) LL.B. SOMCHAI PHOLEAMEK, M.D.Dip.Amer.Bd of Path. POL.LT.COL. REWATT CATITHAMMANIT B.Sc.M.Sc 55 p. ISBN 974 - 662 - 494 - 1

A passport is a personal identification document needed by people who travel abroad. Forgery of passports to assist illegal entry to countries continues to be a growing problem. The objective of this study of passport examination is to identify and recognize various counterfeit methods and assess the efficiency of a number of examination instruments. This study uses documentary study and laboratory experiment to study the formats of passports from various countries and to examine 129 passports which had been captured by immigration officers. Captured passports were examined by normal visual and video spectral comparator to prove whether the passports were counterfeit or not, and in case of counterfeit, identify method of counterfeit. Counterfeit passports can be classified into 4 types : counterfeit, photograph substitution, biographical data alteration and page substitution. Moreover this study also compared the efficiency of examination method between normal visual and video spectral comparator with the McNemer test and binomial test.

The result of the study shows that most of the suspect passports in the study were Asian passports and photograph substitution was the most common form of counterfeit. There is no difference in efficiency of examination method between normal visual and video spectral comparator in detecting counterfeit and page substitution. Video spectral comparator method is significantly better ( $\alpha = 0.05$ ) for detecting photograph substitution and biographical data alteration. The recognition of the efficiency of video spectral comparator and the result of this study will further facilitate the examination of passports and other suspect documents.