

University of Dundee

DOCTOR OF PHILOSOPHY

An anthropological investigation into the facial preservation of ceremonial tsantsa and commercial shrunken heads

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Appendix 1

A pilot study testing infrared reflectography (IRR) and ultraviolet fluorescence (UVF) on pre-embalmed cadavers

Three pre-embalmed cadavers were photographed under the influence of IRR and UVF, to sample how normal deceased facial tissue presents when illuminated by these technologies. The equipment and techniques used were as described in Chapter 3.4 (UVF, pp.108-9) and Chapter 3.5 (IRR, pp.109-11).

Photographed elements included the forehead, corner of the mouth, ears, corner of the eyes and chin. This demonstrated the general skin surface detail, crease patterns and vermillion border appearance. Full-face photography was avoided, to maintain donor confidentiality.

Features are as identified in Table A1-1.

Table A1-1: Visible features using IRR and UVF on pre-embalmed cadavers.

UVF	IRR
1. Generally smooth, even skin texture presents.	
2. Clear visibility of facial texture, including creases and moles, and vermillion border.	
3. Clearly highlights scars, moles, freckles and bruises. (Blood is removed from shrunken heads, thus bruises will not present).	3. Faintly highlights bruises. (Blood is removed from shrunken heads, thus bruises will not present).
4. Highlights dust particles and miscellaneous stains.	4. Highlights vein patterns (removed in shrunken heads).