CLAIMS

1. A device for signature adaptation, comprising at least one surface element (100; 300; 500) arranged to assume a determined thermal distribution, wherein said surface element comprises at least one temperature generating element (150; 450a, 450b, 450c) arranged to generate at least one predetermined temperature gradient to a portion of said at least one surface element, wherein ~~the device is **characterized in** that~~ said at least one surface element (100; 300; 500) comprises at least one display surface (50), ~~wherein said at least one display surface is arranged to radiate at least one predetermined spectrum~~ **characterized in** that said at least one display surface comprises a plurality of display sub surfaces (51A-51K), wherein said display sub surfaces are arranged to radiate at least one predetermined spectrum in at least one predetermined direction, wherein said at least one predetermined spectrum is directionally dependent.

2. Device according to claim 1, wherein said at least one display surface (50) have thermal permeability.

3. Device according any of the preceding claims, wherein said at least one display surface (50) is arranged to allow said at least one predetermined temperature gradient to be maintained in said at least one surface element.

4. Device according any of the preceding claims, wherein said display surface (50) is constituted by thin film.

5. Device according any of the preceding claims, wherein said at least one display surface (50) is of emitting type.

6. Device according any of the preceding claims, wherein said at least one display surface (50) is of reflecting type.

7. Device according any of the preceding claims, wherein said ~~at least one display surface (50) is arranged to radiate~~ at least one predetermined

spectrum ~~that~~ comprises at least one component within the visual area and at least one component within the infrared area.

~~8. Device according any of the preceding claims, wherein said at least one display surface (50) is arranged to radiate at least one spectrum in a plurality of directions, wherein said at least one predetermined spectrum is directionally dependent.~~

~~9.~~ 8. Device according any of the preceding claims, ~~wherein said at least one display surface (50) comprises a plurality of display sub surfaces (51A-51K), wherein said display sub surfaces are arranged to radiate at least one predetermined spectrum in at least one predetermined direction,~~ wherein said at least one predetermined direction for each display sub surface is individually displaced relative an orthogonal axis of said display surface (50).

~~10.~~ 9. Device according any of claims ~~8-9~~ 8, wherein the display surface (50) comprises an obstructing layer (52) arranged to obstruct incident light and a underlying curved reflecting layer (51) arranged to reflect incident light.

~~11.~~ 10. Device according any of the preceding claims, wherein the device comprises at least one radar suppressing element (190; 535, 536) arranged to provide radar suppression.

~~12.~~ 11. Device according any of the preceding claims, wherein the device comprises at least one additional element (180) arranged to provide armouring.

~~13.~~ 12. Device according any of the preceding claims, wherein the device comprises a framework (710) or support structure (750;755), wherein the framework or support structure is arranged to supply current and control signals/communication.

~~14.~~ 13. Device according any of the preceding claims, wherein the device comprises a first heat conducting layer (110), a second heat conducting layer (120), said first and second heat conducting layer being mutually thermally

isolated by means of an intermediate insulation layer (130;131,132), wherein at least one thermoelectric element (150; 450a, 450b, 450c) is arranged to generate said predetermined temperature gradient to a portion of said first heat conducting layer (110) and wherein said first layer (110) and said second layer (120) have anisotropic heat conduction such that heat conduction mainly occurs in the main direction of propagation of the respective layer (110, 120).

~~15.~~ 14. Device according to claim ~~14~~ 13, wherein the device comprises an intermediate heat conducting element (160) arranged in the insulation layer (130;131) between the thermoelectric element (150; 450a, 450b, 450c) and the second heat conducting layer (120), and has anisotropic heat conduction such that heat conduction mainly occurs crosswise to the main direction of propagation of the second heat conducting layer (120).

~~16.~~ 15. Device according any of the preceding claims, wherein the surface element (100; 300; 500) has a hexagonal shape.

~~17.~~ 16. Device according to any of the preceding claims, further comprising a visual sensing means (615) arranged to sense the visual background of the surrounding, e.g. visual structural background.

~~18.~~ 17. Device according to any of the preceding claims, further comprising a thermal sensing means (610) arranged to sense surrounding temperature, e.g. thermal background.

~~19.~~ 18. Device according to any of the preceding claims, wherein the surface element (100; 300; 500) has a thickness in the range of 5-60 mm, preferably 10-25 mm.

~~20.~~ 19. Object (800), e.g. a craft (800), comprising a device according to any preceding claims.

~~21.~~ 20. Method for signature adaptation comprising the step of: providing a determined thermal distribution to ~~a~~ at least one surface element (100; 300;

500) based on generating a predetermined temperature gradient to a portion of ~~a~~ said at least one surface element (100; 300; 500) using a temperature generating element (150; 450a, 450b, 450c); **characterized by** the step of: radiating at least one predetermined spectrum in at least one predetermined direction ~~from~~ using a plurality of display sub surfaces (51A-51K) of at least one display surface (50) ~~arranged on~~ of said at least one surface element (100; 300; 500), wherein said at least one predetermined spectrum is directionally dependent.

~~22.~~ 21. Method for signature adaptation according to claim ~~21~~ 20, wherein said at least one display surface (50) have thermal permeability.