Microscopic, traceable, and virtually indestructible; ‘taggants’ are possibly the most versatile and powerful covert anti-counterfeit technology currently available and are fast becoming an integral part of the high security document printing process.

Using the Foster + Freeman DVM it is possible to detect and examine the latest generation of micro-taggants incorporated into inks and coatings on passports, ID cards, cheques, bank giros, travel tickets and other security documents.

Comprising a high specification microscope, 14 Bit CCD colour Firewire camera, two high intensity LED light sources (White and UV), darkfield ringlight and a transmitted white light XY stage, the DVM microscope can be used as a PC driven standalone instrument complete with dedicated software package featuring full image processing functions and camera control, with image measurement and annotation, or integrated with a Foster+Freeman VSC system to create a complete document examination workstation.

With an increasing number of applications in document examination and brand protection, the Foster + Freeman DVM and its ability to locate and examine taggants is becoming an essential tool for all document examiners.

- 35x to 7000x magnification
- 2.1MP CCD colour camera
- 3 modes of high intensity white light & UV illumination
- Integrates with VSC Suite software
LOCATE & VISUALISE TAGGANTS
in security documents and commonly counterfeited items

EXAMINE IN MICROSCOPIC DETAIL
view taggants smaller than 20 microns

INTEGRATE WITH VSC SUITE
combine with the VSC6000/HS to access powerful examination facilities

X35 TO X7000 MAGNIFICATION
dependent upon choice of objective

THREE MODES OF ILLUMINATION
Co-axial, darkfield ringlight, and rotating directional side light.

SPECIFICATIONS

Microscope
V6/DVM/3
10:1 zoom, C-mount and coaxial illumination port.
Transmitted light XY stage

Objective Lens
A choice of:
35x to 350x
V6/DVM/350X/3
350x to 3500x
V6/DVM/3500X/3
700x to 7000x
V6/DVM/7000X/3

Camera
V6/CAMFW/2MP
2.1 MP digital colour
CCD camera with FirewireB output,
up to 14 fps at full resolution.

Illumination
Dark field ring light
Attaches to microscope objective

High Intensity White LED
Single LED, 400-700nm bandwidth (nominal)

High intensity UV LED
Single LED, 350-380nm 10% bandwidth (nominal)

Optional PC & 24" monitor
V6/DVM/PC
Contact sales office for latest specifications.

Using the DVM to examine a selection of taggants
1. OVDot Square
2. OVDot hexagon
3. OVDOT octagon
4. OVDot UV
All images captured at x350 magnification

Taggants in High Security Documents
Taggants are being increasingly used on security documents such as passports, visas, identity cards and driving licences. The ability to identify and examine these microscopic markers of authenticity is fast becoming an essential requirement for all document examination systems.

VSC Integration
While the DVM microscope can be used as a standalone instrument for the examination of taggants and other microscopic details on documents, it can also be integrated with the VSC6000/HS to create a complete document examination solution.

Using the DVM as an external camera, images are displayed within the VSC system allowing the examiner to apply the full range of VSC functions including image comparison, measurement and annotation, area of interest (AOI) processing, colour measurement, as part of a complete casework management system.

Brand Protection & Anticounterfeiting
As well as being used in documents, taggants are commonly used by governments and manufacturers to authenticate commonly counterfeited items such as bank notes, tax stamps, pharmaceuticals, cigarettes and alcohol packaging, as well as many fast moving consumer goods.

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RISK GROUP 1: DO NOT STARE INTO BEAM
RISK GROUP 1
CAUTION: EMITS UV MINIMISE EXPOSURE TO SKIN AND EYE

LEDs classified to IEC 62471:2006