

Authenticity Detectors

The devices of the series are designed for visual authenticity control of the protected printing products, detection of forged letterheads and changes in the original product.

A37 *multi-purpose currency portable detector*

Compact and easy to use. Features option of viewing in UV 254nm to effectively verify the authenticity of the new euro banknotes!

- The option to operate from a built-in battery increases the functionality of the device as an autonomous control unit.
- The option to record examination results onto the internal memory for further study and systematization of information received significantly expands the scope of application of the device (such as staff training or remote control of its work).
- Availability of basic interfaces (USB, HDMI, composite video output) make it possible to use the A37 for a variety of tasks using external devices (PCs, monitors, DVRs etc).



C6B *universal viewing detector*

The kit includes an optical magnifier with lightening (with a 10-fold zoom).

- Visual inspection of watermarks, security fibers, matching images, microperforation in the white transmitted light.
- Visualization of the presence and location of the infrared marks made in metamereric inks (contrast and low-contrast areas) on the banknotes and securities of any type (850 nm).
- Special "M" element (picture fragments made by the paint with typical properties for various wavelength of IR band 850/940 nm).
- Visual inspection (UV) of security features.



C6M *currency detector*

Has the option of switching wavelength 254 nm and 365 nm, which helps it to verify banknote authenticity according to the characteristic lightening of various marks under UV light.

- Inside light inspection of IR protective characteristics.
- Visual inspection of microprinting, identification of changes in the original content of the text through etching, erasures or additional notes using a built-in camera with a 10-fold zoom.
- Verifying security marks, notes and pictures made in ferro-magnetic ink. This kind of control is applied by using a magneto-optical camcorder (MAGVideo) which is connected to the device.
- The option to output video on to an external monitor.
- Shutters to protect against UV radiation.



GEWR-09 *table forensic unit*

Device is designed for inspection of documents, passports, banknotes, securities, as well as large-format sheets. The complex provides in-depth authentication of documents based on optical method in ultraviolet (UV), infrared (IR) and visible spectral range to all signs of authenticity, signs of forgeries and unauthorized changes. Spectral magnifier provides visual identification of various objects using LED of blue-green impinging light, lateral oblique incident IR radiation, impinging IR radiation in two spectral ranges.

Technical characteristics

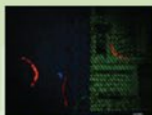
| | |
|---|------------------------------|
| UV wavelength | 365 nm |
| UV emission power in the center of the working area | 3.5±0.5 mW / cm ² |
| Upper infrared wavelength | 830 nm, 940 nm |
| Lower infrared wavelength | 940 nm |
| Lighting in the center of the working area | 3.2 ± 0.4 klx |
| Lighting of the working area at inside light inspection | 0.9 ± 0.1 klx |
| Resolution of video camera | 640x480 |
| Diagonal screen size | 4" |



Validators are able to provide authenticity of documents through the following control methods:



Control of infrared (IR) security features of the image, picture fragments made in IR-metameric inks and / or absence of IR-metameric fragments



Inspecting UV protective features on the screen displaying luminescence elements made in phosphor inks; inspecting protective fiber and threads in UF365nm or 254nm. The absence of general luminescence background of paper UV365nm



Visual inspection of microprinting, image fragments, verifying printing methods in the upper white light. Identification of changes in the original content of the text through etching, erasures or additional noting using a built-in camera with a 10-fold zoom



Visual control in oblique visible light, verification of protective marks, notes and relief elements of the image



Control of optically variable inks



Control of image fragments, made with special paints with anti-Stokes phosphors (Special I element IK980 nm) in IR radiation (laser)



Visual control in white transmitted light (in case there is a translucent table) Verification of authenticity, shape and size of watermarks, matching images etc.



Control of security features in the blue-green area of the emission spectrum (470 nm)



Glow in the field of Euro banknotes 365nm.



Glow in the field of Euro banknotes 254nm.