

The processes of synthesis of light-absorbing paste and the technology of manufacturing film screens to protect information against leakage through optical channels

Type of collaboration

commercial agreement with technical support

Key words

film, screens,
information protection

State of IPR

Secret know-how

The film screen is a double-sided optically transparent film developed using the innovative "micro-louver" technology.

The film has an anti-glare effect and reduces the reflection of light, which makes it comfortable to use the device in intense room lighting.



Contacts

Head of research

Igor Vrublevsky

PhD, Associate Professor
vrublevsky@bsuir.edu.by

Technology Transfer

science@bsuir.by



**Belarusian State University
of Informatics and Radioelectronics**

R&D Department

BSUIR, 6, P. Brovki Str., Minsk 220013, Republic of Belarus

Flat screens are designed to protect the confidentiality of information on monitors, displays, and indication panels. They provide protection of information against unauthorized retrieval by outsiders who are beyond the viewing angle of 10 degrees or more.

Advantages of using a film screen:

- reduces stress on the user's eyes by creating contrast between small text and images;
- does not distort the display of information;
- easy to install and remove;
- protects the display against external damage and dust.

The film screen is in demand for devices used by employees of the banking sector, border control, customs, etc.

The production technology of film screens includes:

- synthesis, composition and production modes of a light-absorbing paste based on a base polymer material,
- processes of application and polymerization of light-absorbing paste in grooves with a depth of about 100 microns in a polymer transparent carrier.