

ANNOTATION

Page count – 103 pages;

Figures – 41 figures;

Tables – 24 tables;

35 used sources.

Relevance. The need for armed forces in modern optoelectronic intelligence and surveillance is high. And it is especially important in devices that allow to scout both day and night. Multichannel OE systems are the most effective for round-the-clock reconnaissance.

Therefore, it is important to increase the efficiency of channel fusion.

Aiming of thesis:

1. Consider most popular methods of channel fusion;
2. Look for problems that are connected to channel fusion;
3. Research for ways to improve existing methods.

Object of study: Input block of multichannel surveillance OE systems.

Subject of study: Improving spectral fusion performance.

Key words: *Channel fusion, surveillance, multispectral optical systems.*