

## Summary

Diploma project dedicated to the development of the optical device to determine the color. This work was completed by student of the department "Devices and systems of nondestructive testing" (NTUU "KPI") Pohrebenko Dmytro.

The project volume of 70 pages consist of an introduction, four chapters, general conclusions, list of references and contains 25 figures, 3 tables, 7 references and 4 applications.

In the first section of the project justified the choice of control, with all the advantages and disadvantages. The second section contains a calculation of the optical circuit. The third section contains development structural and functional of the scheme, the choice of components and the development of electrical circuits and power schemes. In the fourth section is calculated measurement error.

The project was performed according to the task. This device can be used in industry to testing the paint color.