

THE USE OF LIGHT AND COLOR FOR DESIGN OF MODULAR FACADES

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The theme of the main study is renovation of urban architecture with introduction modules. But in this thesis are discussed in more detail exactly modular facades. One of the problems of using a modular architecture is its uniformity and monotony. Typical and monotype of building facades prevent navigate the city, especially at night. The use of light and color at night may help to solve the problem of monotonous architecture using different techniques and technologies illumination of facades.

Based on foreign and domestic experience of the use of artificial lighting in the dark, the concept aimed at creating a unique look every part of the city (the larger module). The concept takes into account the natural, climatic, social factors in matters of equipment selection, choice of color and illumination intensity. Use lighting to give a unique look is also an inexpensive way to solving problems of orientation and architectural expression.

According to the concept developed in the reconstructed part of the city will be actively used the color scheme of passage and travel. Marking color areas and direction signs will simplify and make intuitive orientation in the city. At night, the lights will work appropriate color. For projecting information on the facades is proposed to use technology of 3d mapping. Facades will be projected on the following information: multimedia information, maps, presentations, advertising. To increase the possibility of using 3d mapping is proposed to make some modular facades as dynamic. At night, the facade can be transformed into a flat surface, ideal for the presentation of multimedia material. Also we can protect residents of homes that are dynamic facades installed on from the vibrant street lighting.

Color palette to select the color of the facades and color night illumination decided based on local factors, including climate. It is due to the cold, cruel climate, urban management architecture exposed recommendations on the formulation of urban facades only warm color gamut.

The use of modular and dynamic facades for the day is cost-effective and fast enough in realization method of renovation architecture. Their combined use with well-chosen street lighting, as well as 3D mapping allows creating a unique view of the city by day and by night.