

Neon lights add Colour to frescoes

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Abstract: This paper takes neon as the main research object, probes into the application of neon in mural art, and studies its manifestation and characteristics in mural art. In order to further enrich the language and form of art creation on the wall and better enhance the overall artistic atmosphere of the built environment, to meet people's aesthetic needs.

1. Newborn neon mural

In the Concise Britannic Encyclopedia, the mural is explained as: "Mural painting, a painting that decorates buildings and ceilings." In the Western Art Dictionary, the mural is interpreted as "wall painting, a general term for all kinds of wall decorations." In the concept of modern murals, there is such an explanation: "The murals use the architectural space and its internal and external environment. Painting on indoor walls, load-bearing columns, ceilings and floors, as well as outdoor walls or walls, or through crafts and Works made by other technologies are installed as works of art in the environment of human existence." Murals are an art that is constantly developing and changing. With the rapid development of modern science and technology, new materials and new technologies are constantly emerging. Contemporary murals have far broken through the concept of traditional murals. From the "painting" as the main form of expression to the use of multi-material technology, diversified means to create a comprehensive and marginal characteristics of art.

Neon fresco is a new form of mural art based on this. Neon murals are the combination of neon lights and murals. They are mainly made of neon lights and are painted by means of bending. And fixed on the building wall to decorate its specific space environment, in order to meet people's visual needs of a craftsmanship mural. Neon murals are made by means of craftsmanship, whose material and craftsmanship are the important components of neon murals. The neon lamp he used was a cold cathode gas discharge lamp, a wonderful product of light and glass. In the production of neon lights, the inside of the elongated glass tube enclosing the electrodes is first evacuated. Then, it is filled with an inert gas (helium, neon, nitrogen or mercury vapor). When the neon electrode is applied with a high voltage, the electrons emitted by the electrode hit the gas atoms under the action of the electric field, and a large number of gas atoms are excited and ionized. So full of energy. These energies are released in the form of light radiation, and the neon lights emit light.

2. Rich colors and changing forms

The neon lights in the murals can express rich colors of light, which is unmatched by other materials. The color of the neon is determined by the type of gas being charged. There are two forms of neon light: one is made of a transparent glass tube; the other is made of a powder tube, that is, the phosphors are evenly coated on the inner wall of the glass tube to make it emit more vivid colors. The color of neon lights is usually based on the principle of color mixing. The mixing of color light is completely different from the mixing of pigments, which are color changes caused by the absorption of light of different wavelengths in the mixed pigment particles. Therefore, its mixing is a kind of dimming phenomenon, we call it negative mixing. The mixing of color and light is the result of simultaneous excitation of eyes caused by different colors of light. The brightness and saturation of the new color are increased. Therefore, it is a kind of enhancement phenomenon, we call it positive mixing. This positive mixing characteristic provides favorable conditions for the

design of neon murals. In addition to the neon lamp of the above working principle, there are some new working principle neon lamp, such as low-voltage plastic neon lamp, plastic neon lamp, optical fiber neon lamp and so on. These neon lights can be made into various patterns and colors in mural art, bringing rich artistic expression to murals.

In the production process, the balance and emphasis of light and color should be controlled. Light and color can cause the visual feeling of the audience itself. However, excessive stimulation of color can cause visual fatigue, so the principle of light and color adaptation is usually applied to color design, focusing on harmony in contrast, in order to eliminate visual interference, reduce visual fatigue, so that the eyes can get balance and contrast. In order to achieve both bright and harmonious, comfortable effect. At the same time, when designing neon murals, we should also take into account the psychological feelings caused by light and color. Usually the feeling of color is the result of the interaction between things in nature and human visual experience. When people see a certain color, nature will be affected by visual experience. Therefore, associations can be triggered and used in people's psychology. Different colors can give people different psychological feelings. In neon mural design, artists should also use the unique psychological phenomena of color to make reasonable use and performance to achieve the desired effect. This feature is reflected in the murals on the walls of the staff of the Southwest Bell Telephone Company in Dallas, USA. The work extends from the zenith-like glass roof to the restaurant below. The neon lights are on all day, and the sunlight and neon lights that shine into the ceiling are like time, blending and changing. When night falls and the flower beds and fountains in the square hall disappear into the night, the neon murals of Stephen Antononous, which has been replaced by the artificial sun and nature, debut. It always allows the audience to feel the rich and happy life in the color environment.

Anton Nacos pays attention to the strange changes between neon lights and the sun. Unlike traditional art, neon can be seen in the dark and can be seen during the day. Anton Nacos adjusts the lights to make the work the same day and night. Artificial light and natural light complement each other, even dim neon light in the sun is also very expressive, showing a mysterious atmosphere with neon light changes, glass tube visibility also changes. They are transparent during the day, especially when the neon background is a hard metal fixture; at night, the glass tube disappears and only retains the colour. The change of neon light makes people notice the alternation of day and night.

The presentation of neon frescoes is a new and peculiar form of expression based on the development of modern science and technology. In the process of making murals, mural artists endow neon materials with a special aesthetic value through appropriate and ingenious artistic expression techniques. The morphological features of neon frescoes are closely related to their technicality. For decorative purposes, neon lights can be bent into various shapes, such as lines, curves, arcs or irregular patterns, with strong artistic expression in murals and wall art. If you have access to a controllable device in your circuit, you can get rich color graphics and automatic looping flashing effects, creating a lively atmosphere.

For example, Anton Nakos curved, shaped and colored his neon work. Antrons prefers complete or incomplete rectangles and circles, straight lines and wavy lines. He tends to incomplete geometry, a complete square is a simple generalized figure, and a part is removed, making it a special figure that is not so simple. An incomplete geometric figure can capture the eyes of the human mind and make it strive to perfect the figure. The geometry itself is something impersonal to Antnax, and as a balance he adds waves. The wavy line implies that calligraphy or writing is the most personal expression, increasing the human dimension. (Figure 2)

The famous Danish designer, Ms. Astrid Kroger, is very skillful in using neon lights. Designed for the Danish Parliament, she used 256 neon tubes, 10 different petal shapes and circular patterns in 14 different colors. Under the control of light, every 45 seconds will be like a kaleidoscope of color and graphics, Kroger uses the characteristics of light changes to make the whole static pattern move, bringing a changeable and wonderful visual enjoyment to the viewer. Artists use neon lights to integrate seemingly ordinary shapes into the artistic expression of dynamic light, which is incomparable with traditional murals.

3. Combination of neon lamp with other materials

Neon lights not only have their own texture beauty, but also combine with other materials to reflect each other and form a whole visual aesthetic feeling on the screen. In mural art, the combination of neon lamp and other materials should fully consider the different surface structure of materials. Neon lamp can not only show and contrast the texture and texture of other materials, but also enrich the expressive force of neon lamp.

Anthonax's neon works are illuminated from behind, which emits bright, diffuse light and color, and changes the spatial relationship around them. On the thick walls of the Atlantic Peach Tower in Atlanta, in a deep and narrow environment, neon lights of different colors are installed behind various images, reflecting the illumination effect on bronze and glass. This not only changes the rigid geometric form of the surface of the object, but also gives the space environment a strange charm, almost the temperament of the sea, and it is involuntarily associated with the name of the tower. He also used neon tubes as murals on the outer walls of many buildings in the United States. This kind of material is a color light that is directly exposed to the viewer's eyes. It is also very irritating, bright and intense, and can expand the area. (Figure 4)

Anton Nacos also created a new series of acrylic paintings on unopened linen, with neon tubes on the surface. In the 1980s he continued to create such wall works, and he applied colors on rectangular canvases in an unconscious or automatic manner. The choice of background color is also intuitive deep cobalt blue or warm red, the way and color show the introduction of neon. How to link the glowing tube to the canvas gives Anton Nakos a new question. He does not unfold the canvas, hang them like a tapestry, so that they are represented as objects so that they can be close to the lamp. Paint painting and glass, flax to maintain the unity of physical. The human nature of situation painting is incompatible with the inhumane nature of neon. After all, neon is an industrial means. Antonacos, however, endowed neon with human nature by painting in a postural way. The current flow in the glass tube imitates and enhances the flow of human handwriting on the screen. However, he coordinated these different components well to integrate them. Skilled and lightweight brushwork is perfectly controlled. The slight zigzag on the left side of the canvas contrasts with neon and highlights acrylic brushwork. The interaction between neon brightness and the brightness of pigments increases the complexity of the work, which is subtly altered and fused by the changing light outside the room.

4. Interaction between Neon Frescoes and Environment

Neon frescoes and their architectural space environment are an organic whole, and they interact with each other. The design of neon murals is unified with the architectural environment space. The architectural environment space has a certain restriction on the creation of neon murals. At the same time, the design of neon murals can make up for the blank of architectural environment space. So as to achieve the role of decorating and beautifying the environmental space. Neon murals are installed in public places and have a certain publicity, which not only creates an atmosphere of architectural environment and space. At the same time, it also brings visual enjoyment to the public, so that the public can enjoy the spiritual pleasure and satisfy the aesthetic needs of the public.

Anton Nakos's environmental work highlights the intersection of the corners of the room and the wall and the floor and ceiling. The red neon tube extends along the four sides of the floor and rises to about half the height of the room. The entire interior is full of intense Red light. At the same time, neon lights can be used to redefine the building space, give the building a new identity, and the neon lights are everywhere in the scope of everything, especially when the building is very ordinary, all the things are enveloped in the light. Or light can be used to devour or split buildings, creating interference rather than harmony. Neon lights can highlight a building from its surroundings or draw attention to it and make it disappear. No matter how it is used, neon lights can show the designer's wishes, on the one hand, highlight the space, on the other hand, attract the audience's eyes or attention.

In urban public streets, there are a large number of public facilities with commercial functions,

mainly in the form of billboards. In light and shadow processing, the earliest form of neon light bulb combination, stitching out the business needs of graphics and text, the form combination is more rigid. The early light color also has certain limitations, but the single red, green and other pure color light changes and flickers. Nowadays, the development of neon technology has created favorable conditions for the improvement of this form of light and shadow art, from the linear combination to the plane and three-dimensional combination. On the other hand, the variety of colors has also increased, and the combination of monochrome and multi-color has broken the monotonous form of the past. Because the cost of neon materials is relatively cheap, neon-made advertising signs are favored by many merchants, and can be seen in the streets of many cities. It can also be said that it provides the public with a clear, targeted, indicative and recognizable.

Public Art Works The streets of Hong Kong, Kowloon, are filled with neon art that is very functional in business, with neon “square boxes” of different shapes and sizes. The buildings on both sides of the attached street are suspended and hung above the street, and the number is countless, forming a spectacular and magnificent phantom of the neon. This kind of public art with strong commercial function gives the public a strong visual impact and rapid business identification. At the same time, it adds the artistic effect of light and shadow to the urban night public environment. As a medium of expression of public art, it is worth popularizing and applying.

The glass curtain wall of a university art museum created in 1986 is an example of Anthonax's integration of neon lights with architecture and the surrounding environment. It consists of two tracks. One is the proportion of an incomplete rectangle which imitates the proportion of the front rectangle of the museum. The second is that a wave line extends parallel to the rectangular long side. The work as a whole inclines diagonally to the upper left corner of the museum. Its height and angle make it stand out from the landscape on the left, the sky above and the broad porch below. So the works can be seen from the front, from the inside of the museum and the sidewalk parallel to the left of the building. The incomplete rectangle is painted orange, with a red neon in front, a blue neon in the back, and a wavy line in blue, with a neon behind the green neon. The light changes continuously 24 hours a day. In the evening, the neon lights on both sides become three-dimensional. “Because the light passes through the front of the building, it is filled with the empty corridor. The reflection of the glass curtain wall around the entrance of the museum suddenly enters people’s sight and sees amazing details. The experience of the light and the mixed tones is intimate. From a distance, the sculpture is equally effective, it becomes public, and the display complements the building that supports it, praising its function.”

In 1994, the largest public work of Anton Nakos was placed in Tachikawa, Japan. He surrounded the four buildings with neon lights. He said: “I installed neon in key parts of the building to allow people to feel the location of these buildings in the overall space while feeling the space itself. He also installed neon lights on a 400-foot-long roof above the passage, symbolically accompanying the people walking below. He installs neon lights in narrow angular spaces between buildings to create amazing contrasts with other parts of the complex. As a special light source, neon lights can beautify the urban environment, and add a lot of interest to people's life under the beautiful and soft light with constantly changing colors.

Fresco is a comprehensive art, which includes almost all the visual art forms. With the development of science and technology and the renewal of ideas, neon lights are more and more used in murals. The wide use of neon lights in murals will certainly promote the combination of murals and techniques in the new era, make the mural art more diversified, enrich and expand the mural art, and provide a new direction for the development of mural art.

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