

Artistic and aesthetic vision of the invisible energy of forms using kirlian photography

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ABSTRACT: Art is not nature, but its modified nature resulting by integrated new relationships generating a new emotional response, as the artist depends on different formative systems in the construction of the artistic processes based on the non-ending variety of diverse and Differentiated systems in the nature, Where the environment and nature around us in its different manifestations is the main source of inspiration for all artists, regardless of different artistic methods of these artists, but is the reference and the test on which the artist depends on in the provisions of his artistic work, in terms of drawing form and achieving the foundations of the work of art, including aesthetic values Which differ in terms of different artists' visions, which leads to the contrast between them in dealing with these aspects, as each artist has his own vision in dealing with the various elements around him.

However, the artistic vision that existed in arts in the past decades no longer there in the light of the recent scientific changes in tools, devices and computer systems that have emerged with the developments of modern science. In this sense, this research aims in combining modern science and taking advantage of its developments and techniques in the field of art, and creating distinctive artistic visions in different art fields, to come out with new aesthetic and artistic values derived from the nature around us.

KEYWORDS: invisible energy, kirlian photography, electromagnetic fields, Artistic and aesthetic vision.

INTRODUCTION

The development of artistic vision in the artistic plastic experiment is a constant continuity subject, which requires researches and studies in the knowledge, method and application of the artist's relationship with himself and his surroundings, and the their extended attempts to come up with a new thought and a different applied style in their artistic vision of forms enabling him to create and innovate in the field of plastic art. The artist always tries to discover new components to deal with visually, in order to invest them in building and shaping the works of art with his own vision, regardless of his human ability to achieve a high degree of discovery and recognition of those components. These abilities are considered limited comparing to what the environment abounds surrounding him and its multiple and diverse elements.

Art has knocked different doors in the field of science to seek creative and inspiring visions that benefit the artist and contribute to the development of the field of plastic art and keeping up with all other science. The artist has not only relied on his own intuitions to realize the aesthetic and artistic values of different elements, but also he applied the achievements of modern science and technology to his art, such as the use of magnifying glasses "microscope", "telescope" and other inventions, in order to achieve new visions that he could not know using his own cognitive abilities, the use of human achievements of science and technology has played a huge role in detecting the secrets of the universe, and changing in the traditional view of fixed aspects of visible and invisible nature, which led to the increase in the huge diversity in elements of nature, and also resulted in the infinite multiplicity of artistic and aesthetic values. the artist managed to record images from under the seabed, above the moon and from the spacecraft, and the cameras became accurate recording facts above the level of human senses of perception, even x-rays penetrated to discover and revealed some invisible objects that is not seen with the naked eye.

It is not hidden to us that the field of applied, physical and biological science was one of the most important areas in which the contemporary artist resorted to employ the aesthetics of scientific discoveries in creating an artistic and a contemporary vision inspired by the ideas, innovations and expressions of art beyond the usual and conventional, which led to achieve a partial innovations and creativity and nourishes the ambition and ambivalence that the contemporary artist seeks to achieve.

Researches and scientific theories that dealt with the artistic vision of natural and non-natural forms have changed with the merging of arts and science, and integrating with different fields such as chemistry, physics and microbiology; which showed tremendous wealth and an inexhaustible field of creative entrances, and one of these researches and theories is the invisible field of energy, or what we call (Aura) and the theory of the electromagnetic energy of forms and objects.

Today, art has been able to help science to expand and explore these theories and to develop their ideas and expand their perceptions and help this invisible energy to become visible. This has enabled the artist to create artistic and structural visions by revealing the biophysical properties of cosmic forms and objects in various artistic fields such as painting, sculpture and porcelain.

The current research reveals the unvisual energy of forms, which contains infinite variations of colors, properties and constructions, which prompted the researcher to try to benefit from this huge divine wealth to achieve a creative rich vision in the field of arts, through four main aspects of study, as follows:

First aspect: The general framework of the study (introduction - the problem of the study - the importance - the objectives - hypotheses - limits - methodology - terms) Second aspect: to identify the theory of the unvisual energy of forms and to know its properties and source Third aspect: the recognition of the digital imaging technology in Kirlian photography and its role in exploring unvisual energy of natural elements and shapes. Fourth aspect: A technical and aesthetic vision of the structure and color method emitted from the electromagnetic energy of the natural forms using kirlian photography.

THE FIRST ASPECT

THE GENERAL FRAMEWORK OF THE STUDY

Research problem:

The problem is in the question: is it possible to use the unvisual energy of the forms through the technique of kirlian photography to come out with an aesthetic vision and artistic creativity in the field of plastic art ?

Research Goals:

1. Achieving a new vision in dealing with different environmental elements to enable the artist to examine, detect, scrutinize and reflect on everything around him.
2. Making use of the achievements of science and technology in detecting new artistic and aesthetic values.
3. Extracting forms and artistic values from nature in its paramount appearance by linking science to art.
4. Expanding the field of visual perception and recording artistic visions above the level of sensory perception of human.
5. Changing the traditional view of shapes in their outward appearance in the visible and invisible nature.

Search Hypothesis:

The research deals with theoretical and scientific foundations of electromagnetic energy emitted from shapes and the methods of seeing them through kirlian photography. In this context, the research contains a set of foundations:

1. The discussion of different scientific theories in the field of art achieves aesthetic visions and innovative creative approaches
2. All natural and non-natural forms containing emitted electromagnetic energy can be used in the field of plastic art.
3. The technique of kirlian photography reveals the shape of the unvisual energy of forms and its contents of structural and colorful systems that carry artistic and aesthetic vision.

Research Methodology:

The research deals with the analytical descriptive approach to the concept of the theory of unvisual energy or the electromagnetic energy of forms and its relationship with the field of plastic art. And the meaning of the kirlian photography and its role in recording and photographing this energy, and the transformation of the electrobiological energy to visual energy which enriches the field of plastic art through the diversity of different forms and systems. In this sense, the research methodology is defined in the following points:

First: Identifying the theory of the unvisual energy of forms and knowing their properties and sources.

Second: the recognition of the digital imaging technology in Kirlian photography and its role in exploring the invisible energy of forms in nature.

Third: To come out with a technical and aesthetic vision of color and structural systems emitted from the electromagnetic energy of the natural forms under the imaging of the kirlian photography.

THE SECOND ASPECT

INVISIBLE ENERGY THEORY OF FORMS

Invisible energy is known as electromagnetic field of energy resulting from flowing waves in living organisms. Unusual energy is present everywhere in our environment but is invisible to the human eye. All creatures in this Universe have life. Al Quran (the Holy Book of Moslems) proves that there is an aura surrounding bodies in several situations in which Allah, the ever Majestic, talks about this invisible energy and its metaphorical implications:

"O prophet! Truly we have sent thee as witness, bearer of glad tidings and warner, and as one who invites to God's (grace) by His leave, as a lamp spreading light." "Al Ahzab" Surah.

"Can he who was dead, to whom We gave life, and a light whereby he can walk amongst men, be like him who is in the depths of darkness, from which he can never come out?", Al Anaam Surah.

"One Day will the hypocrites, men and women, say to the Believers: "Wait for us! Let us borrow a Light from your Light! It will be said: turn ye back to your rear! Then seek a Light where you can!", Al Hadid Surah.

The seven heavens and the earth, and those in them shall praise for him; and all creatures shall praise His gratitude; but ye shall not understand their praise; for he is compassionate and forgiving, Al Israa Surah.

The emitted electromagnetic radiation from things consists of electromagnetic waves that are simultaneous vibrations from electric and magnetic fields. These vibrations spread with the light speed in the space. They are vertical on each other and on the direction of the wave and energy spread to form transverse wave. The electromagnetic wave emitting from point source such as a lamp takes spherical form.

The electromagnetic waves are described according to their frequency and vibration wave length which designate its site in the electromagnetic spectrum containing increased frequency and decreased wave length such as Radio waves, micro waves, infra-red rays, visible light, ultraviolet rays, X-rays and Gamma rays. The electromagnetic waves are resulting when the charged particles accelerate.

The electromagnetic wave frequencies which we can see (visible light) range between 400 and 790 terahertz (THZ) and this indicates several hundreds of trillions of times in one second. The wavelength represents a size of a big virus ranging from 390 to 750 Nanometer (1 Nanometer = one/billionth of a meter. Our minds explain the different wavelengths in various colors as the red color has the tallest wavelength while purple color has the shortest one.

When sunlight passes through a prism, it is separated into a spectrum of colors and many light wavelengths, as the prism displays rainbow by redirecting each wavelength with a little different angle.

The gradation of colors in these frequencies has significance for some doctors in measuring the degree of diseases and specifying the health status of the person according to the irradiated color coming out of him. The irradiated spectrum colors vary by different physical, emotional, mental and spiritual state. The blue color indicates sickness, but the red color indicates vitality, and the yellow color indicates activity. Dr. Walter Kleiner, the head of the electrical therapy department at Saint Thomas in London in 1911 A.D. was able to use this theory medically. He observed when looking through stained (colored) glass, a dense line of light can be seen around the body of a patient, he also observed that the shape, intensity and color of the light changed with the patient's health. Over the past decades, many studies have been conducted with great accuracy, and auras were measured and where photographed in multiple ways in universities, laboratories and hospitals clearly as their colors can be seen and recorded their specifications. The specialized health centers published their researches results in this field. Scientists and researchers in particular Russians have exerted a lot of efforts and followed the use of aura for early diagnosis of diseases before they occur. The Russian scientist- Kortkov- is the most prominent inventor of the GDV devices. These devices are to observe the aura and diagnose the diseases. The aura is photographed at the ten fingertips by these devices to measure the difference of voltage point. Those images are analyzed and collected in one report by using the computer, then, a report is written to show the accuracy of the condition of the healthy body members, and what they suffered from troubles or diseases and the degree of each disease alone. This report is printed on private paper in several methods. These devices rely on analyzing the aura colors that are emitted from the fingertips, as they represent the beginnings and endings of the channels of the vital energy of the whole body, as these devices show one's health case fully. The Russian scientist was able to develop several types of these devices.

The scientist "Beverley Rubik" shows that this energy is accurate, and he supports the idea that there is energy permeating all living beings within the electromagnetic fields of things. Rubik's experiments were based on Kortkov's device GDV to produce the images that measure the distribution of energy levels of the vital bodies. He proves that these energies can be picked by private photography equipment's. The scientists have competed in the development of devices to photograph this energy over

years, which have become the most modern techniques for early detection of health symptoms and various physical and psychological disorders. Since everything in the universe is full of energy, it is believed in modern times metaphysically that it is possible to see the recognition. The vision of this invisible energy by naked eye is done by training to focus on the emitted energy paths from the shape. The vital energy is neither heat nor magnet, but it is energy within the living human body in invisible and renewal circuits that charge each cell passing through in its continuous movement, and also it forms aura surrounding the person in a shape of magnetic field that can be seen by certain devices.

THE THIRD SUBJECT

DIGITAL KIRLIAN PHOTOGRAPHY TECHNIQUE AND ITS ROLE IN EXPLORING INVISIBLE ENERGY OF FORMS

The origin of Kirlian photography goes back to the late 1700s but was officially invented in 1939 by "Simeon Davidovich Kirlian", after a three-year effort from 1936 to 1939. The name of the device was named after Simeon Kirlian, a Russian electrician, who discovered by accident a unique method of photography, as he noticed that by placing the shapes on a photographic plate on which a high electrical potential is projected, colored images of halo appear around these shapes.

This method enables the camera to take a photograph of the light halo surrounding the human body which radiates several types of radiation of different colors. The radiation produced by a vital process cannot be photographed, such as the effect of psychological emotions on the functions of the body and vital organs as each member of the body such as the heart, Liver and muscle is affected by it and each member emits a kind of radiation and different color which distinguishes it from the other member. These light halos have implications on the body's vital activities and diseases such as cancer, heart failure, colon and pancreatic diseases, eye diseases and endocrine disorders.

Although this process of photography was invented in 1939, it was not detected and circulated until 1958 and Kirlian photography was not known to the general public until 1970. The GDV device which is based on Kirlian photography is invented. This device contains high-frequency generator and high-voltage generator, which together generate low-density electric charge. This device is equipped with Helium and Newton gas tanks to be pumped into a closed compartment under the surface of the machine. When placing something on the dish, the electric charge causes the gas molecules to glow and the radiation around the shape is formed as if it is a halo.

This technique of Kirlian photography can detect the invisible energy around living organisms which are photographed, and which indicates glow of color around shapes and objects. This technique has been subject of controversy among philosophers and scientists over the years. The challenge in recent years has been to find a way to record and photograph these invisible waves.

Thus, many benefits of the Kirlian device have appeared and have been exploited in diagnosis, treatment, lying detection, and tracking of criminals. It was necessary to develop such devices which have taken various forms based on the exploitation of modern scientific techniques. For example, devices that capture the halo of hands, feet and other simple things started with a plate on which the customer puts his hand and the plate is developed with different sizes. All these devices are dispensed with the computer that depicts, analyzes and shows the results at the same time. The studio itself becomes of limited size and consists of a set of sophisticated electronic technology that relate to the computer.

The camera which copied the ionization of aura around the body was just a box contained the sensitive film, as the photographer through this box, looked at the aura by putting his head inside a cover that obscured the light. Then, this camera is evolved into a small certain one which is placed on the top of computer screen. This method is a very easy technique and it does not need any skill of how to use the camera.

This technique is implemented through several steps as follows: -

First, a sheet of photographic film is placed on the top of a metal plate, then the object to be photographed is placed on the head of the film. To set up the initial exposure, the current light voltage i is applied to a metal plate, then the electrical discharge is picked up between the object and a metal plate on the film.

The photography method which is known as bioelectric photography depends on the body temperature degree and the electrical emission degree of these bodies. These degrees may change according to the persons' mood or what have surrounded them. This ionization appears in the colors and forms that indicate the condition of the body in general. The issued light color also depends on the installation of the photographic slide and at the range of the ultraviolet induction of this slide. Then, a certain color or a group of colors appear from the degrees of red, green and blue colors. The aura is usually in the seven colors of the rainbow (red, orange, yellow, green, blue, indigo and purple) and include all colors either the dark or clear. Each color of these colors has its significance as follows: -

The red color: - is essential one. It indicates self-esteem, presence, superiority and excellence. The red color is positive one because it generates vitality and activity, but it is negative one because it symbolizes the violence.

The orange color: -- is sub-color. It is a mixture of red and yellow (expresses will and thought), and it is symbol of life and vitality as it helps to sustain self-esteem, feeling happiness, activity and optimism.

The yellow color: -- is essential one. It is a symbol of thought, wisdom and creativity, as it helps mental concentration, comprehension and vitality, but if it is used frequently, it will indicate mental radicalism.

The green color: -- is sub-color. It is a mixture of blue and green. It is a symbol of tranquility, active life, sensitivity and harmony with community, as the dark green indicates jealousy, ferocity, fury and hate.

The blue color: -- is essential one. It is a symbol of love, serenity and spirituality. It helps relaxation but if it is used frequently, it will cause misery, pain and depression as it blocks appetite.

The indigo color: -- is sub-color. It is a mixture of the essential color, the red and the blue. It is a symbol of purity, superiority and awareness. It has a similar effect like the blue.

Purple color: -- is sub-color. It consists of red and blue. It is a symbol of integration and lofty spiritual. It helps relaxation if it is used carefully.

The image of the aura in these devices is electro-magnetic field that wrapped the objects. When the person sits on the chair at the studio and puts his hand on the sensors that are directly related to the skin, these sensors can measure the electric resistance around the skin (the reaction of electric skin). This resistance varies from person to another one according to the level of humidity and salt. These levels are affected by many things such as diet, liquids, healthy condition, body, temperature, sweat, emotion and personal mood during the photography process and also are affected by body members and brain activity... etc. These measurements feed directly into the electronic processor that relates to the camera. This electronic processor decodes continuously them into electrical signals that reach inside the machine and turn into a changing pattern of lights and colors which radiate on the film, then, an image of ghost of the aura is copied or duplicated on it.

As a result, there is continuous change which makes the aura as glittering object and shimmering with colors. It is rarely that we have two pictures match one person unless they are picked up on the same day or under the same conditions because of the continuous changes that occur to the electronic information either inside the person during the photography process, from the conditions that are surrounded him, or from the weather factors.

All these affected factors have been taken into account when setting up a treatment file or even memorial one. It is noteworthy that the lighted aura colors have indicators. These colors graduate from red color which indicates the vitality, but blue one reflects the degree of sickness. The presence of aura in a certain color around the head, shoulders or arms reflects the case of these members either healthy or sick.

Most of European countries such as Russia, Germany, England, Denmark, France, USA, Japan and Australia are interested in these scientific researches and at the same time they have special institutes in these fields which are called kirlian.

THE FOURTH SUBJECT

ARTISTIC AND AESTHETIC VISION OF THE INVISIBLE ENERGY OF FORMS USING KIRLIAN PHOTOGRAPHY

The art is in fact a philosophical, cultural and social phenomenon which expresses intellectual, technical and aesthetic aspects. The first aim of the artist is not only to achieve aesthetic pleasure, but also the full appreciation of the artistic work through its shapes and values. The contemporary artist, with his spiritual and creative energies through the artistic activity, has managed to rise a higher level of aesthetics. He has managed, through his experiments and researches in the various fields, to exalt the artistic creativity in the contemporary arts towards the world and this attribute characterized many artists of this age, because they agree that the basis of the artistic work " the idea" is to hand over the appreciation, so that he does his best to employ these modern researches, devices and techniques in order to help express this idea.

Undoubtedly, the scientific discoveries which contain innumerable secrets, play an important role as a source of the artistic vision. This has continued throughout the ages and this role varied from era to another one, where the artist in each age can present this vision in a different way other than before, so that he can explain it in several forms that agree with the philosophy of his time through contemplation and research into the hidden contents to conclude theories or to explore the foundations of new structural elements. The artist always seeks to present the invisible energy of objects and think in his search for new plastic systems in his artistic work, which is also one of the artist's goals since the early times.

Art has recorded over the centuries a lot of paintings and drawings of the artist's creativities in the discovery of those invisible aesthetic values throughout the ages including that invisible energy. In Australia, in west of Kimberley's, the drawings and inscriptions dating back to prehistoric times were discovered, when the artists painted, thousands of years ago, pictures of shapes, forms and people surrounded by auras and lights in different forms. Also, in the Sumerian and Persian arts, the aura was well known of "Glory" which was founded in the drawings of kings as well as in the ancient Indian arts that appeared as shapes surrounded by auras in seven colors. There are other models of graphics and images which confirm the artist's insistence in the search and scrutiny beyond the physical image.

With the advent of modern times and the beginning of scientific discoveries, the most prominent is the photographic camera. The experiments and practices have an important role in the art and in the thoughts and philosophies of the artist himself. It is an obvious reason for variety of artistic production with the continuous interaction between the artist and his vision of things and universe around him too. This relation attracts the artist at the same time excites his feelings and thought as it spurs him for contemplation and exploration of what is new. As scientific progress continues, countless cameras have proliferated and each one achieves a certain function, some of which focus on the motion, including the focus on the faces, including what is almost faster than the light and up to the photography of Kirlian.

In 1970s, there were researches which linked art with Kirlian photography mainly in USA when its mixed technique between scientific discoveries and metaphysical relics paid attention of new age practitioners who paved fertile field for creativity to achieve new visions that they had no ability to know by using their own private cognitive abilities. Then, researches in the field of Kirlian photography are followed. Before going into the details of the mechanism of camera Kirlian, it should be referred first to the parts of this device as follows: --

It is made of metal conductive material.

1-A panel is conducted to a high voltage electrical and frequency generator, this panel is topped by a piece which is made of insulation material.

2- A sensitive photographic slice (film) is conducted to the object to be photographed.

3- When the power is connected to the device, an aura appears around the photographed object in the existing aerial gap between the object and the film. This photographed aura appears as a result of what scientists call the cold electron radiation that occurs because of the existence of a strong electric field between the two conducting plates, one is the negative board and the other is the positive one leading to increase the difference of electrical voltage and to increase the intensity of the electric field according to the following equation:

$$E = V/D$$

Where

E = electric field,

V = voltage difference,

D = distance between two boards.

The object to be photographed with the camera is considered as the cathode (negative) while the metal plate acts as the anode (positive), and when the high voltage electric current passes through the generator, the high voltage difference between the cathode and the anode makes the cathode throws free electrons that accelerate towards the anode, meanwhile, air ionization occurs between the two boards because of the impact of these free electrons with air atoms as they accelerate towards anode that stimulates electrons which located in the outer course of the atom around the nucleus to move to higher levels of energy but electrons remain inside it for a fraction of the second before returning again to its first state and releasing with it a light energy during its returning to discharge part of its acquired excess energy during its transition to a higher level of energy. Thus, the radiated light around the object in the image of Kirlian camera is an electric discharge that occurred because of light ionization for the located gases around the object to be photographed under high voltage difference.

The color of the visible light relies on the type of atoms that existed in the air gap, therefore, the produced light often contains the invisible ultraviolet as a result of the ionization of Nitrogen gas in the air and the color of light changes due to the change in the course of gas. When addressing the color of auras, it must be mentioned that the aura varies in its colors that it has the colors of the seven colors of the spectrum and all colors are either dark or clear ones. In art, each color has a symbolic and moral significance.

Red color is an essential one. It is symbol of self-esteem and strong presence, It is positive because it generates heat and activity but it is negative one because it symbolizes the violence. Orange color is a sub-color which is a combination of red and yellow, and it symbolize the will and the thought, that is the symbol of vitality and fresh life. It helps the mental focus and

comprehension, but its frequent use leads to radical thought. Green color is a sub-color. It is a combination of blue and green. It is symbol of active life and tranquility, as it indicates high sensitivity and adaptation to community but the dark blue is evidence of jealousy, anger and hate. Blue color is an essential one. It is symbol of love, serenity and spirituality, and it helps relaxation but its frequent use causes depression and block appetite. Indigo color is a sub-color. It is a combination of two essential colors, red and blue. It is symbol of superiority, purity and awareness as it has a similar effect to the blue color. Purple color is a sub-color. It consists of red and blue. It symbolizes the integration and spiritual piety, as it helps to relaxation if it is used carefully. The artist has one of the fundamental standards in the formation of art, which paves the way to us to discover aesthetic and appreciation and put in our memory landscapes and creative paintings and all kinds of plastic art. The existence of creative paintings art in our cultural life cannot be erased by the technological invasion and there are no new concepts of information that have a negative impact on the course of contemporary artistic work.

The task of the artist is to prepare himself to be able to examine and reflect on what he sees either by the naked eye or by using the modern scientific devices. Some of them rely on the construction of technical formation on the surfaces and some of them rely on the employment of three-dimensional forms as well as others think deeply to discover varied invisible aesthetic values from which he innovates forms that can be employed in his artistic work.

Since the technology is imposed on us to be accepted as it is a necessary fact of this time and stressed on the trend of culture, art and creative methods. There is an attempt to devote new aesthetic concept which matches with technology not with the appreciation of the artist. Hence, we can say that creativity is linked to the emotions of the artist who is a core for the formation of creative art in simulation of nature and innovation.

The artist is indebted to the nature of existence through new interactive forms. There are selected models which lead us to analytical presentation which has been associated with the Kirlian photography and has benefited from the advantages and techniques in the field of plastic arts. The creation of distinctive artistic visions in the field of different arts has to come out with aesthetic and artistic values that made it a creative way to recreate a realistic world of photography with endless possibilities of vision, image, sensation and light that the contemporary art aims to achieve. These examples are as follows:

- Robert Bultmann

This artist uses one of the artistic techniques that integrate Kirlian photography with drawing. The artist is specialized in photographing of landscapes, the flowers and leaves. The artist has excelled in selecting and drawing the form and achieving the aims of art work basically, including aesthetic values, although nature is one thing in its visible appearance, but his vision seems different and this would lead to the great contrast between them in manipulating of his images and creations which appeared due to the Kirlian photography, that integrated into new relations that resulted in a new emotional response with endless diverse and varied systems.



Fig. 1. Robert Buelteman
Image by, Robert Buelteman Studio, [www. buelteman.com](http://www.buelteman.com)

- Luis Hernan

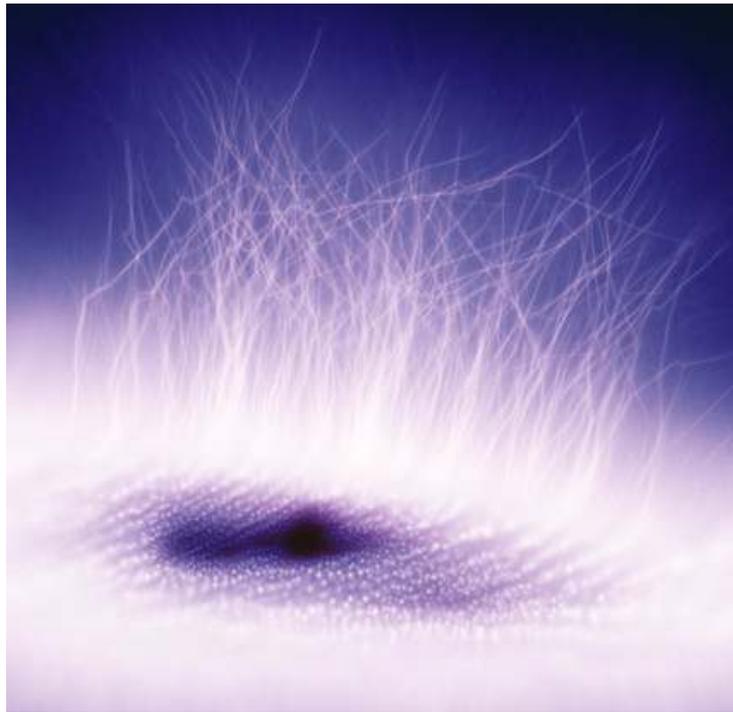
Technology operates in an inexhaustible world of electromagnetic waves that are increasing around us every day. The idea of the artist which he names Digital Ethereal and it talks about capturing these invisible signals of Wi-Fi by using innovative combination of long-term photography and application of Android. That information are decoded, by the creative artist Luis, in light and color by using application of Android throughout Kirlian mobile device which can photograph Wi-Fi signal power by using series of colors. The produced images of these invisible signals which Hernan described as the ghosts reveal the most important technique to integrate photography with Kirlian in the field of arts and it is innovative art technique in technology of kirlian photography, as it changes the electromagnetic waves to artistic images 2D or 3D, and it displays the innovative style of the artist in dealing with the invisible energy of forms.



Fig. 2. Luis Hernan
Imad by, Photographs courtesy of Luis Hernan/Digital Ethereal

- Sara Smith

The natural raw materials of different kinds are a motive for innovation, this picture describes the corona discharge phenomenon, which takes place when an electrically grounded object discharges sparks between itself and an electrode generating the electrical field. When these sparks are captured on film, they give the appearance of coronas of light. as it is an obvious reason for variety of art production where the continuous interaction between the artist and his vision, and his comprehension of nature symbols because of the availability of structural systems for these symbols and relations that are combined in the same environment. In paranormal circles this method is seen as visualizing an object's 'aura', and is used as a diagnostic technique in some alternative therapies



*Fig. 3. Sara Smith
Image by, Science & Society Picture Library.*

- Gordon Kirkwood

The artist has surpassed in contemplation of the natural forms and its invisible system through the exposure of an orchid using electrical apparatus, and visualizing the pattern of branching lightning that is recorded onto 20-square-inch large sheets of silver halide and color film and discovering new rhythms and aesthetic relations that were not taken into account, as he has been still mediating and interacting with it, to know more and to find out many new secrets in its surface and interior. In his book, "Theory and Practice of High Voltage Photography", the artist says " One of the most exciting learning discoveries for me during this work is that I can significantly control whether lightning issues radially from the leaf, or tangentially skirting around it, or some mix between the two".

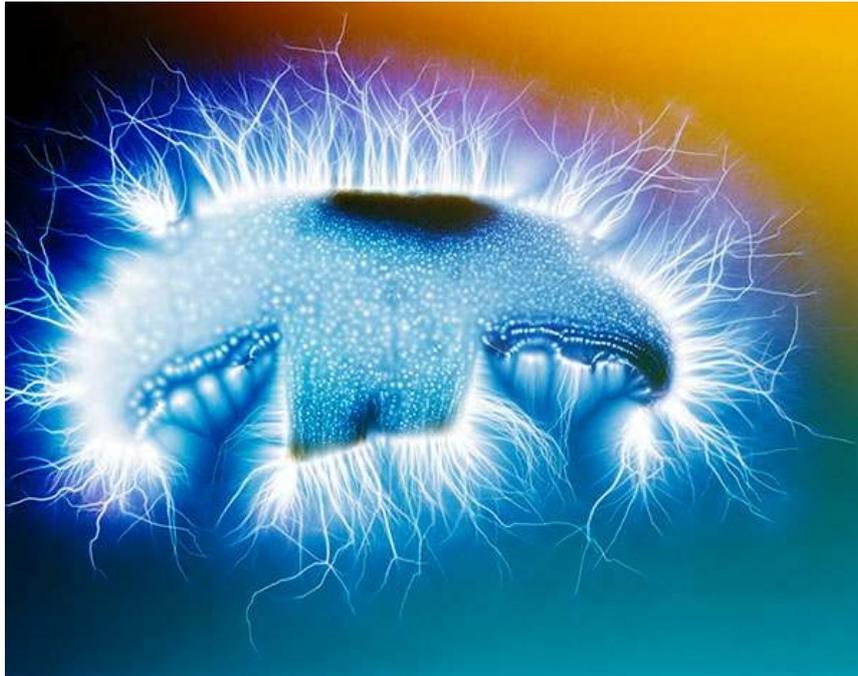


Fig. 4. Luis Hernan
Image by, the Amy B.H. Greenwell Ethnobotanical Garden

- Jonathan Knowles

In this work, the artist aimed at looking for laws of the invisible construction of the natural form and he discovered aesthetic systems that exist in all its aspects, this leads to develop and train the visual vision consciously through the study of elements and re-photographed by using traditional Kirlian Photography techniques, Photoshop was not involved in the production of this series; they are all straight scans. where the electrical 'aura' of a charged item is recorded on a piece of film (remember film, and happy trips to the lab and excitement when it all came out!), placed on a discharge plate. which helps the artist to arrange his forms and realize the endless varieties that are founded in his tools.

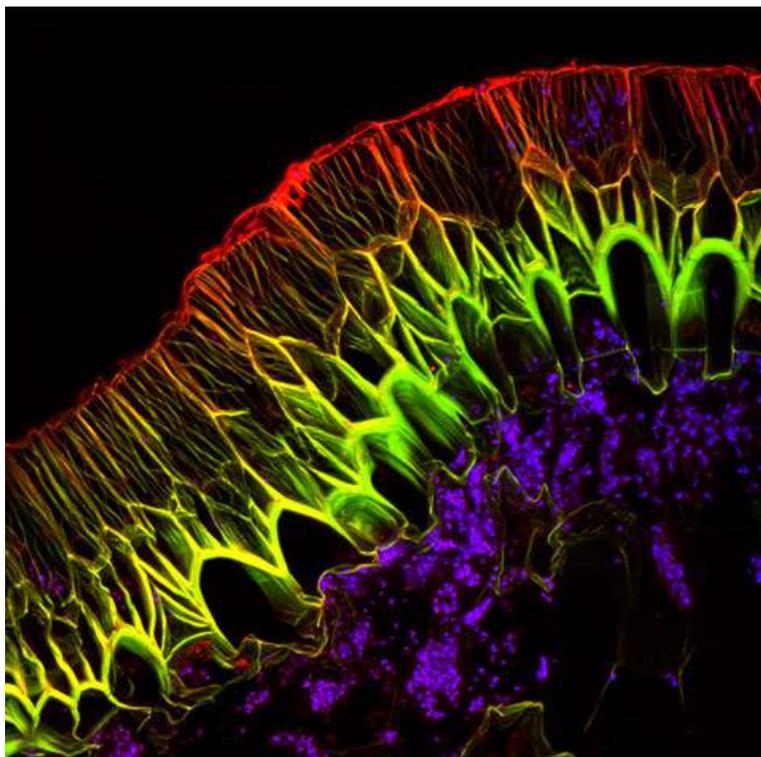
The intensity of the 'aura' can be controlled and changed dependent on the amplitude and wave form which is put through the object, which will also have the by-product of altering the colors, though not in an entirely predictable way.



*Fig. 5. Jonathan Knowles
Image by, www.jknowles.com/, London, United Kingdom*

- Shirley Owens

In this work, the female artist sought for photography an aerial root showing orchid, and she displayed the integrated structure of the countless formal and structural systems, as she tried to obtain some of those systems to know the core of its structure for testing the appropriate entries to benefit of the formal nature of symbols, then, she employed them to benefit from its appearance and its structure. The she-artist recorded images that changed the traditional view of the fixed outlooks at the visible and invisible nature, these lead to increase the enormous variety in natural vision, and also the endless multiplicity in its aesthetic and artistic value.



*Fig. 6. Shirley Owens
Image by, Michigan State University*

- Natasha Seery

The shapes around us vary in nature from one place to another and from one environment to another, but they were and still attract the artist and provoke his feelings, but also his thought as they are driven to meditate. The human body is full of many intellectual and experimental sensors, The artist has a special area in which there are various concepts and values of plastic and decorative elements that raise his perceptions of visual, emotional and artistic one, The artist emphasized this role in this work, in which the human structure was portrayed in the kirlian photography. The style expresses the artist himself and distinguishes it from others who have dealt with these elements and vocabulary, thus creating a retrospective view of the human body and its components, expressing expressive values and characterizing them and embodying their ideas and visions. Which is developed through the techniques of crystalline imaging is detected by the pattern and system through the configurations expressed by taking advantage of the components and elements of the human body.



*Fig. 7. Natasha Seery
Image by, Science & Society © Natasha Seery*

CONCLUSION

Modern technology, which has provided modern human beings with a lot of tools and techniques and which opened up vast horizons of knowledge, has also imposed on them new methods of vision under the so-called coping with modernity and the requirements of the new evolution. The artistic vision that exists in the arts in the past decades is no longer present in the light of the recent scientific changes in the tools, devices and computer systems that have emerged with the modern scientific developments.

Modern digital technology has become a daily part of contemporary life and an essential component of our lives and environment. Its use generates the need for further development and advancement in all areas so that the individual can coexist and merge with the contemporary lifestyle. All modern studies are trying to link the artistic vision with the techniques of the information age and the various systems of the modern art image. The artistic objective of the artist is to come up with creative techniques and visions for the arts to keep pace with the inventions and requirements of development while saving the time and effort as well as obtaining the best results. This is what has fantastically realized by the Kirlian photography. The artistic and aesthetic vision of the invisible energy of the forms with the Kirlian photography technology has availed several usages including:

1. To use advanced technology systems and adapt them to practice art,
2. To show the artwork with several techniques and from several angles to obtain various innovative fields,
3. To use sequential and orderly techniques with great effort and much time saving,
4. To enable the artist to employ the tools and cameras of the Kirlian photography according to his vision,
5. To make possible the changing of the traditional vision to the natural shapes and forms as well as arranging the technical elements in them to create different artistic visions,
6. To create an innovative interactive method so as to make the art work able to combine with advanced technical applications that integrate scientists and engineers with artists,
7. To dealing with a huge amount of invisible visions of images and art drawings to be transformed into a visual reality.

The specialists in the field of artistic expression emphasize that the artist goes through two processes to inspire nature since his vision and contemplating it until his dealing with it in one way or another with the aim of producing artistic work inspired from it. The two processes are: 1- Internal process related to his cognitive abilities including culture, mood, physiological and biological abilities. 2- External process presents in his relationship with the nature which depends on the process of theoretical and visual inspiration, how to see and look at nature and extract geometrical systems and others that achieve rhythm, unity, balance and diversity in nature.

Research Results:

1. The use of Kirlian photography within the field of drawing and painting creates new aesthetic values and additive values associated with technology.
2. The artistic objective achieved by linking art to the various technological media provides an integrated experience that is not connected to the traditional vision of shapes, forms and elements.
3. The introduction of innovative methods in the environment of the artist gives him greater scope for innovation and the creation of tangible artistic expressions with an integrated creative vision.
4. The effective of integration and merging of traditional techniques in artistic vision of painting and drawing with Kirlian photography can produce creative abilities in imaginations and actual practices.
5. The Kirlian photography has ability to combine the outside with the inside of the form so as to make to the artistic vision acquire remarkable efficiency in simulation, creativity and innovation.

Research Recommendations:

1. It is important to make further studies on the Kirlian photography in the field of art due its novelty of this subject, so that it needs further studies and research.
2. It is necessary to combine programs and modern digital technologies as well as advanced photography technology within the curricula of drawing and painting.
3. It is imperative to teach new values and vision that is compatible with technology in the early stages of education so as to make students able to deal easily with the techniques and tools of the digital age in which we live.
4. It is preferable to provide an innovative environment and to establish specialized laboratories to experiment and discover the technology of the modern era to integrate them in the field of painting and drawing.
5. It is advisable that artists and specialists in the field of arts should make maximum use of modern digital technology and integrate it into their artistic production in accordance with the spirit of modern age.
6. It is recommended to emphasis on the new roles of Kirlian photography within the new vision of art topics with multiple perspectives.

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