# REALIZING A MULTIMEDIA COMPUTER MONITOR MULTIFUNCTIONAL NON-TRADITIONAL FORMS

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**Annotation.** This article deals with the implementation of a multimedia multi-function computer monitors non-traditional forms; project developed by the example of computer monitors a new design. Users can take advantage of multi-functional capabilities of the proposed new design monitors.

**Keywords.** Monitor, technology, computer, button, audio system, web camera, screen, multimedia, versatile, comfortable, technology, information design, interface, economic.

## I. INTRODUCTION

Information exchange between the user and the computer is provided by the monitor. The first microcomputers had the appearance of a block without indicator means. Compared to modern standards the first computer monitors were very simple: the text was only one color (usually green). Then the color monitors were designed to increase the screen resolution, and LCD panels of laptop computers have brought to the user's desktop PC. Monitors are an essential device information reflection. As the number of video standards, as well as the number of types of monitors, available today, are characterized by their diversity.

## II. TARGET

The purpose of the realization of a multimedia multi-function computer monitors non-traditional forms - improving efficiency and productivity, the separate purchase of equipment by the user, to avoid the need to establish a connection with the computer, to prevent large economic costs, the implementation of a large number of tasks in a short time, that is, the simultaneous use of several possibilities.

## III. CAPABILITIES

With the development of computer technology devices are beginning to acquire versatility, that is, achieved the ability to perform multiple tasks with one device. This, in turn, eliminates the need for other devices and increases efficiency.

Presents you a multimedia multi-function computer monitor has a number of advantages:

- **Speakers.** With the sound system used for listening to sounds, music, audio and video files.
- **Web-camera.** It is located in front and behind and is used for still pictures and videos.
- **Drive.** recording and reading device. Supporting all types of discs (CD, DVD, Blue Ray), it produces a reading of the information and its recording.
- **The lighting system.** Located on the back side of the monitor, the system performs a task table lamp. It can be used in a dark room. This lighting can be switched on and off as needed.
- **The Universal Serial Bus**. USB-Universal Serial Bus. As one of the most important devices, provides connectivity to flash drives and additional computer devices such as a mouse, keyboard, etc. [5].
- **Charger.** The charger is to monitor the electrical network. The monitor can be used by charging it through the network. In addition, the monitor is equipped with an extra battery. If necessary, you can use the unit, replace the batteries.
- **System unit.** Located on the back of the monitor. This provides a savings in space and relieves the user from connection to the system unit and further as a result of its purchase.
- **Audio port.** Allows the use of devices such as headphones, speakers, microphone.
- **Microphone.** Use audio recording software, video and audio communication.
- **Radio system.** Radio - a kind of wireless transmission of information, where as using radio waves propagating freely in space. With the help of powerful listen to broadcasts on local radio frequencies
- **Control button sound.** With it you can adjust the volume, switch to the previous or next track, pause or disable play music.
- **Network port.** As a parameter of TCP and UDP, it determines the use of the data in the IP packet format.
- **TV tuner.** Rhode television receiver (tuner) for receiving a television signal broadcast in a variety of formats with a display on a computer monitor. In

addition, most modern TV tuners receive the FM-radio stations and can be used to capture video. Produced monitors with built-in TV tuners, allowing output while working with a PC in a separate window video as a television receiver.

- **Recorder.** Apparatus for recording, or for recording and playback of speech for the purpose of its subsequent listening and transcribing. Unlike portable reportorial tape designed for high-quality recording outside the studio, voice recorders are used in cases where it is necessary to record it for a long time without special requirements to the quality of the recording - the lectures and speeches, to fix the telephone and dispatch communications, and so on. . Using the recorder facilitates and speeds up the transfer process speech on paper, eliminates the costly services of transcribers.
- **Wi-Fi.** This monitor is also available, and a wireless Internet system. Brand Wi-Fi Alliance for wireless networks based on the IEEE 802.11 standard. Under the acronym for Wi-Fi (Wireless Fidelity of English phrases, which can be literally translated as "the quality of the wireless" or "Wireless Fidelity") is currently developing a whole family of standards for the transmission of digital streams of data over radio channels [1].
- **Clock and alarm clock.** The system informs the user of the time information. In addition to its main task the alarm function performs a task reminders about important events and dates.
- **The system for measuring the air temperature and the internal temperature of the computer.** It identifies and shows the room air temperature and the degree of heat of the processor.
- **Projector.** The monitor is implemented complementary projection device. Projector - an optical device designed to create a real image of a small-sized flat object on the big screen. The advent of cinema projection apparatus resulted in the appearance of belonging to the projection art.
- **Wireless System for keyboard, mouse and headphones.** With a wireless system it is possible to add additional devices. In such systems, data is transmitted by radio. Such systems are typically used in confined spaces (offices, exhibition halls and the like), or for communication in local area networks.
- **Bluetooth.** Wireless technology NFC (frequency intervals of 2.4 Giga Hz). It provides on-net communication devices, and facilitates connection to the Internet and synchronization of data between computers.

## IV. BENEFITS

1. Simultaneously activates several functions.
2. User-friendly interface.
3. Exemption from the extra space devices.
4. No extra costs.
5. Perform multiple tasks.
6. The abundance of opportunities.
7. Save the device materials.


**Figure 1.** Ellipsoid form of a computer monitor


**Figure 2.** The octagonal shape of a computer monitor

## V. CONCLUSION

With multifunctional computing devices is achieved by an increase in labor productivity. In addition, the desktop space is freed from unnecessary devices, reduces the number of wires used (cable), eliminating the need for the acquisition. I think that the proposed multi-functional multimedia computer monitors non-traditional forms create a number of opportunities for users. I will continue his research on the development of monitors with even greater increase in functionality and performance and hope to present users with my achievements.


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