

## **CCTV – LAMP CAMERA FOR SMART HOME SOLUTION**

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The report contains the results of a study of the communication quality parameters of a remote wireless channel for controlling a lamp as a remote access for monitoring the security status of a home, workplace or company. Closed Circuit Television Cameras (CCTV) have become an important crime prevention and security measure. Cameras collect images and transfer them to a monitoring-recording device where they are available to be watched, reviewed and/or stored.

CCTV is a situational measure that enables remote surveillance of a locale. This makes it possible for the police and other law and regulatory agencies such as private security to respond to incidents when alerted and to have information about what to look for when they arrive. The storing of images facilitates post-incident analysis that may be helpful to an investigation. There are many different types of CCTV systems and they have different capacities to meet a variety of objectives.

Despite the tendency within the criminological literature to discuss CCTV as if it were a single measure, CCTV systems can differ quite markedly. Cameras can be: static (focusing on a single view); able to pan, tilt and zoom (moved by operators or placed on ‘tours’ to survey a succession of scenes); fixed (permanently installed in one location); redeployable (moved around power points within an area); mobile (placed in vehicles and transported to where they are needed).

Speaking as correctly as possible, the camera in Figure 1 does not transmit video, but allows remote viewing of video in online mode. Viewing video from the camera is possible from almost any modern mobile device (smartphone, tablet). The principle of transmitting data to the Internet is very simple, the camera connects to a wireless WiFi network (with Internet access), after which video viewing from the camera becomes available. Thus, the router to which this camera is connected becomes a “gateway” to the Internet and makes it possible to remotely work with the camera. Access to the camera from mobile devices is possible through the free icsee or xmeye application. This application is free and available for owners of Android phones, as well as for owners of phones with iOS. The camera works according to the P2P principle, while connecting to this Wi-Fi camcorder can be carried out in two options - either directly or via the Internet (using a Wi-Fi network).



Fig. 1. Panoramic IP Wi-Fi Camera Fisheye Light Bulb

The camera will be an excellent assistant and an unobtrusive observer in a situation when you need to observe a person, be it an elderly person, a child, a nanny, a housekeeper or colleagues at work. Moreover, this camera can be an excellent means of protection against burglars. Not every robber will immediately determine that this lamp is not just a lighting lamp, but also has a camera. In this case, as soon as the camera detects movement, you will receive a notification in the application and you can call law enforcement agencies to prevent robbery. In view of the widespread use of smartphones and tablets, this camera will be very useful for young parents, who often, in addition to caring for the child, are engaged in other important tasks. With this camera, you can constantly monitor whether the child is sleeping or not, and what happens to him at all directly from your smartphone anywhere in the house. Simply put, if you are looking for an inexpensive camera with a panoramic view, then this panoramic IP Wi-Fi fisheye camera will pleasantly please you with its capabilities.

They can transmit analog or digital images via cable or wireless links. The images can be recorded in different ways with different implications for quality. The many methods of storing and manipulating images have different implications for the type and speed of monitoring that can be carried out. The availability of specialized uses such as number plate and facial recognition has generated yet more potential applications of this flexible technology