Article Side
Three technical skills about the infrared wireless ip camera troubleshooting by Guardlyer

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Under normal circumstances, unnecessary deliberately select an infrared camera, like now Day and night ip camera and ultra-low-light cameras have been able to meet the needs of most of the monitoring system, only those with special needs project or need an infrared camera.

The infrared camera technology troubleshooting

Since the launch, the infrared camera will be its night vision distance, concealment, performance and other outstanding advantages, occupy most of the market in night vision surveillance. Although the infrared camera night surveillance market, "the dominant party, but during the day, the infrared camera is not so themselves, and during the day to monitor the image color cast to become one of the obstacles of the infrared

wireless ip camera PK ordinary camera. In addition, the life of the light-emitting ability of infrared camera, night images with or without interference has also become the focus of the user.

The infrared lamp life

From the point of view of outside the red light, increased life expectancy and increase the distance is often conflicting. Because manufacturers need to increase the distance of infrared light irradiation, is bound to need to increase the power of infrared light, and increase the power is bound to shorten the life of the infrared light, some manufacturers deliberately increase the power of infrared light to the blind pursuit of the distance of infrared light, infrared lamp life is greatly reduced. As the power increases, making the

ir network camera internal temperature increased, making the camera can be easily damaged, resulting in a vicious cycle.

In this case, we can not be used to increase the supply current to increase the brightness of the infrared light, so overloaded with work, although on the surface to optimize the infrared performance, in essence, seriously affect the life of decay of the infrared light. To improve the infrared light of life must first ensure that the infrared light does not load, while the load by increasing the number of infrared light to ensure the effective distance; some manufacturers through high-conductivity material such as aluminum plate, to increase the use of air-cooled devices to increase the housing area, and other ways to increase the cooling capacity of the body, so as to enhance life.

Circuit control section, part of the surveillance box ip camera manufacturers to adopt the law of pulse width modulation to keep the current constant of the infrared light, thereby reducing the heating of infrared light in order to achieve the purpose of prolonging life. Using pulse width modulation law, regardless of external input current fluctuations through the circuit into the infrared light of the current is very stable, in order to ensure the infrared light to play to their maximum efficiency, and prolonging life.

Image color cast problems

All black and white ip network camera sense infrared light. Under visible light irradiation, infrared light color camera in terms of a stray light, color camera will reduce the clarity and color

reproduction. While the camera using a CCD sensor light (visible, infrared and ultraviolet, etc.), which resulted in images taken during the day and we only observed by the naked eye to the images generated by visible light is very different to the infrared CCD sensor, it would interfere with DSP operations, the lead cast.

Infrared cameras to monitor the image color cast problems, the industry conducted a number of technology research and development, at present, there are three ways to solve this problem. One is for DSP processing through the debugging of the RGB hue on the CCD, this practice of treating the symptoms not the root cause, and not every manufacturer has this chip processing power; second switch through the filter during the day with all the filter In addition to the infrared filter, and at night with a conventional quartz-chip trimming light; by the change of the model, with dual-CCD infrared cameras replace h 264 ip camera to ensure that during the day and cast, and can also increase service life.

Cooling problem

Thanks to the large heat of infrared light, infrared light in the start, the entire work period (12 hours) before the infrared camera will be the heat concentrated high front-end temperature of the cavity, where it can not heat evenly will affect the Dome IP Camera and other components to work properly. 50 ï¿ 5 IR LED board, the long-running, then the LED board temperature is almost 90 degrees.

Infrared emitting LED radiation power is proportional to current, a lot of non-standard manufacturers to increase the current way to improve the effect of irradiation, however, the larger the current the higher the temperature. Irradiation effect has been raised, but the machine itself because LED overheating will be great harm. The LED board behind the CCD is the most direct victims. CCD generally only support to the 60-70 degree long

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