



ORIGINAL RESEARCH PAPER

Geography

SECURITY VIDEO CAMERA & ENVIRONMENTAL SENSORS: USE OF TECHNOLOGY FOR SUSTAINABLE TOURISM IN AJMER

KEY WORDS: Tourism, video cameras, crime, security, environment, sensors.

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ABSTRACT

In recent years, there has been a marked and sustained growth in the use of closed circuit television (CCTV) surveillance cameras to prevent crime in public places. Closed circuit television surveillance is a commonly used and equally commonly debated method for preventing crime. Each tourists destination has its own characteristics and outstanding features to attract visitors. One of the most important factors that keep the visitors visiting the destination is the security of the place. Security is one of the keys to sustainable tourism as well. To achieve this, "Security Video Camera" is a very important tool and plays a highly significant role regarding this matter and have also contributed to a constant growth in the use of CCTV surveillance. The study aims to provide the future aspects of video cameras and environmental sensors in Ajmer(Rajasthan), there role in providing security and monitoring environment related issues.

METHODOLOGY Both primary and secondary research methodologies were used in the preparation of this study. The research methodology was both quantitative and qualitative in nature. Market data was derived from trade sources, self-reported data by companies, and government statistics covering the pollution control markets and the sensor and instrumentation markets. The most recent academic literature on environmental sensors was reviewed. Other key market information sources include sensor magazines and journals, books, trade literature, marketing literature, product and promotional literature, annual reports, security analyst reports, and government publications. A patent search and analysis was conducted.

INTRODUCTION

The Effect Of Security Video Camera On Public Safety:

Nowadays traveling has become the significant and profitable industry. Tourism, as a dynamic and exchange process, involves a direct and reciprocal relation between users, residents and producers of the tourism product .With or without economic crisis, tourism business has led to the satisfying economic cycle that is those with career in service and hospitality industry, for examples, shipping business, restaurants, souvenirs' shop, show and entertainment business, hotel and accommodation business, tourism business, communication business, etc. Safety and security are crucial aspects for the development of all tourism destinations. It is natural to have anxiety when travelling typically with regards to safety and security. Tourism is a fragile industry. It depends on many encouraging or discouraging factors. Some of the factors are the economic condition, political stability, and most importantly safety and security assurance. Tourism research demonstrates that travelling exposes people to varying degrees of risk and shows that destination choice is not only based on price and destination image, but also on perceived personal safety and security. Among these risks, crime is one of many types of risk that can mostly affect the tourists. Crime-related incidents can be in the form of: Larceny, Theft, Robbery, Rape, Murder, Piracy and Kidnapping. These crime-related incidents may take place in various scenarios, such as crimes committed by local residents against tourists; crimes committed by tourists against local residents, crimes committed by tourists against other tourists and organized crime against tourism enterprises. Apart from this, there can also be other kinds; for examples, terrorism, wars ranging from full-scale to limited to a given region, civil/political unrest, etc. These incidents have caused major declines in tourism demand in various parts of the world. the local tourism industry as a result of trip cancellation behavior and a shift of bookings to a safer alternative destinations.

Security video cameras could curb crime. These will not only watch a criminal, but also stop the culprit from committing a crime. A common goal of most security cameras systems has been the prevention of crime and disorder through determent. These will aid detection through its surveillance capability and the opportunity it may afford to deploy security personnel or police officers appropriately. Also by providing public reassurance and therefore reduces fear of crime.

Security Cameras In Ajmer



Now, CCTV cameras will aid the police department to curb crime in the holy city of Ajmer where an average of 10,000 devotees come daily to worship in the dargah of Khwaja Moinuddin Chishti. The police department has already identified the important places to install about 500 security cameras. Usually, small scale crimes take place mainly in the Dargah Bazaar, Madar Gate, Diggi Chowk, station road and even at bus station.

Crimes like pickpocketing, chain or purse snatching, mobile thefts and also thefts of luggage go unreported because devotees do not want to do the rounds of police station or court. Another regular crime in these areas is eve-teasing along with cases of abusing and immoral activities. Small crimes mostly happen when the crowd at dargah is thick and gangs, mostly of young boys and children are engaged to steal purses, mobiles and even costly things. The camera vigilance will help to identify the criminal gangs active mostly at Dargah Bazaar and will also help to identify people who break traffic rules and also park vehicles at wrong places. In the protection of the Dargah of Khwaja Moinuddin Chishti, 50 eyes will now be recorded for twenty-four hours without blinking time. high capacity 48 CCTV cameras have started working in the area and the surrounding area. Rajasthan Electronics and Institution Limited Jaipur (Reel) has installed auto-motorized focal bullet cameras at a cost of about Rs 32 lakhs. will also be able to monitor criminal activities along with crowd control in the dargah.

Advantages of Security Video cameras :

1. Improves public safety - Public surveillance cameras help you

stay safe while clubbing, shopping, and travelling. Cameras can be used as a way to keep an eye out for any crimes that are being committed. Panoramic fisheye security cameras put in public spaces, like a crossroad, a retail store, parking lots, museums, concert halls, do an excellent job in providing 360° seamless surveillance solutions. Additionally, crimes can be deterred before they even begin in some cases. If a suspicious individual or individuals or items are seen in an area, the appropriate authorities can be contacted to move into the area before any damage is done or any crime is committed. Additionally, any people in the area can be cleared as a precaution. Since public safety is guaranteed, people's fear of crime can also be reduced, while their sense of security is created.

2. **Reduces crime rate** - Some authorities place cameras in offices, shops hoping that the cameras will help prevent crimes from being committed. If an individual knows that there is a surveillance camera in a certain area, they may be less willing to commit a crime near the location for the fear of being caught. The mere sight of the camera staring back at them, and the sheer thought of getting caught red-handed are intimidating enough for mischief-makers to be on their best behavior as they would know that their identity and illegal activity have been captured.
3. **Helps in catching criminals** - If a crime is committed in an area where a surveillance camera has been set up, the chances of catching the criminal are much higher. Facial recognition software has improved greatly over the years, which means that if a person is caught on camera committing a crime, the chances of them being caught is much higher. Posters can be created and the images can be aired on network television to help spread the word about the criminal. Without the footage from the CCTV camera, it can be extremely difficult to gain a quality description of the person who committed the crime, even if there were eye witnesses.
4. **Video Cameras in Public Locations Provide Evidence and Gather Clues** - Any footage that is on a surveillance camera that captures a crime being committed can be used in a court of law as evidence against the accused. In some cases, if there were no footage there would be little or no evidence to convict the person of the crime and the individual may go free. Those night vision security cameras features good and long range of night vision, so that robbers can be recognized even if they commit a crime in dark areas. Additionally, in some cases the video surveillance footage can also help prove someone's innocence if they have been accused of a crime that they did not commit.
5. **Improves Convenience for Everyday Life** - Relevant authorities can monitor road conditions with surveillance cameras. So they can make real-time traffic reports, helping people choose the right time and road when going out, also prevent people from speeding or from going through a red light.

Disadvantages of Security Video Cameras :

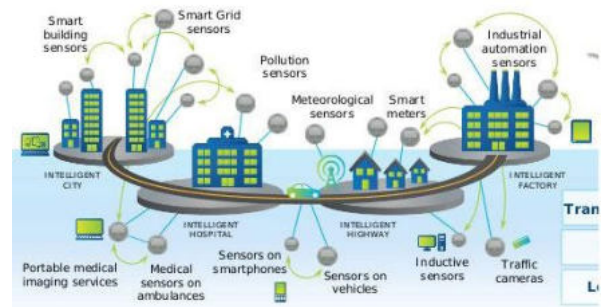
1. **It Can be a Costly Affair** - One of the arguments against the widely use of surveillance cameras is that it costs big money depending on the features and the number of cameras and monitoring systems. Getting them installed and their maintenance means added costs.
2. **Effectiveness of a Public Security Camera is Doubted** - Another controversy of the use of surveillance cameras in public places is that its effectiveness has not been proven. While there has been a push for more video surveillance equipment to be placed in public places because of the threat of terrorist attacks, it is quite clear that a suicidal bomber is not going to be deterred by the fact that there is a camera in place.
3. **At times it doesn't work** - Even if the cameras are positioned correctly, there is no guarantee that the cameras will catch any crime or unwanted behavior done on the property. These cameras can sometimes be thwarted by covering them up or by sticking a piece of chewing gum on the lenses. When cameras are high above the ground, criminals can avoid detection simply by holding their heads down. Someone who is familiar with the property may still be able to get around the

surveillance and avoid getting caught. If the cameras are positioned incorrectly, the high traffic areas of the facility will not be shown on camera. In this case, much of the behavior that the CCTV cameras are designed to detect will not be captured on tape.

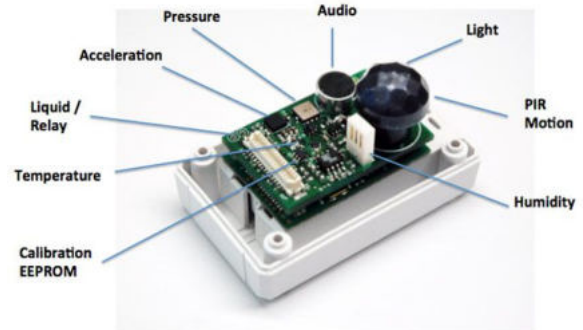
Thus, in today's world surveillance cameras can be extremely helpful. Needless to say, placing cameras in strategic areas throughout a city can help ensure public safety, protect property, and prevent crimes. But on the other hand, there are always crimes which are not deterred by surveillance cameras. And the abuse of public video cameras would violate privacy and personal rights. Therefore, how to balance public safety and personal privacy needs to be considered further.

Importance Of Environmental Sensors :

Smart City Sensor Model



Sensors are the building blocks of smart cities because they gather data about its vital statistics and, in turn, ensure that a city functions smoothly. As cities move towards becoming smarter, demand for sensors has increased. Environmental monitoring is required to protect the public and the environment from toxic contaminants and pathogens that can be released into a variety of media including air, soil, and water. Air pollutants include sulfur dioxide, carbon monoxide, nitrogen dioxide, and volatile organic compounds, which originate from sources such as vehicle emissions, power plants, refineries, and industrial and laboratory processes. Soil and water contaminants can be classified as microbiological (e.g., coliform), radioactive (e.g., tritium), inorganic (e.g., arsenic), synthetic organic (e.g., pesticides), and volatile organic compounds (e.g., benzene). Pesticide and herbicides are applied directly to plants and soils and incidental releases of other contaminants can originate from spills leaking pipes underground storage tanks waste dumps and waste repositories. Some of these contaminants can persist for many years and migrate through large regions of soil until they reach water resources, where they may present an ecological or human-health threat.



Thus, Environmental monitoring is important for the wellbeing of present and future generations. This is particularly important due to increasing pollution associated with the technological advancements being made in the developing nations. The impact of this development, if uncontrolled (as we have seen during the

industrial revolutions), will have severe consequences in terms of natural ecological balance of the planet where all life on this earth depends on. The environmental monitoring process involves recording as many parameters as possible, for example, temperature, humidity, pressure, particles, toxic and greenhouse gases, liquids, air flow, nuclear radiation, electro-magnetic radiation, vibration (earth quakes), bio-medical threats, including human, animal and insects activities (e.g. movements and migration)

CONCLUSION

Safety in the tourism industry has contributed to a tourist arrival. A successful tourism industry in a destination may benefit in term of increasing tourist arrival, attract more investors, provide job opportunities and develop a good image of the country. Future research should explore more on the relationship of the individual measures and instruments of safety and security installed with the intention of travelers to travel to particular destinations and impact on poor security on tourist arrivals. So many parties and subjects are involved in research and development around these technologies that we can be really optimistic about how future will respond to our needs. One day, will hopefully use data and technology to improve every part of urban life, including our health. That day might not be so far in the future also.

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