



"Closed Circuit Television" (CCTV) also known as video surveillance. It is used to monitor a sensitive area. (A particular area which needs to be in continuous observation where there is no one to watch all the time).

It consists of elements like:

- \* video camera
- \* Display monitor
- \* Recording devices
- \* cables

\* CCTV uses the wired/wireless transmission to send the signals to the correspond monitor, or the Recording device.

It was first installed in Germany by Siemens AG.

Places where CCTV's are generally used.

Banks, ATM's

Shops, multiplexes

Casinos

City roads & highways

Buildings & residential Apartments

- \* In many corporate sectors
- Government offices
- Industries, Airports, Railways, schools, colleges etc.

## Benefits of CCTV :

CCTV systems are the great threat to thieves. Once they realize they are under surveillance of CCTV he will prefer to somewhere else.

It reduces mainly the fear of crime.

Remote monitoring

Home security

CCTV footage for monitoring the crimes or investigating them.

## Mainly used for :

- \* Crime Solving
- \* Traffic flow monitoring
- \* Employee monitoring

## Disadvantages:

- \* cannot stop the theft (It just records).
- \* If robbers cover their faces by masks then it is useless.
- \* private life normal people.
- \* Cost to Installation can't be affordable for

\* Can be used for capturing another private life that was illegal.

## Essential Advanced features to CCTV's:

- \* High definition and wide angle coverage.
- \* Night vision
- \* Wireless Technology.
- \* Remote access (controlling of CCTV from anywhere else).
- \* Speakers (To record or To warn them)
- \* Motion Sensors

To use CCTV's correctly we (Government need maintain some additional regulations on using camera's :-

- \* permission to use Spy camera, button camera's.
- \* we can detect Spy camera's Small camera by our phone (Mobile based apps to detect HIDDEN camera's).
- \* camera's to detect all types of rays Spontaneously.
- \* camera's to detect the facial Impression of their when they HIDE their face with any Instruments.

These CCTV camera's are "One of best Invention of 21<sup>st</sup> century" with some modifications to done for the best virtual monitority.