



AFIANT White Paper – Video Cassette Recorders

What are the advantages of an AFIANT Digital Video Management System compared to a Video Cassette Recorder?

OPERATIONAL

A video cassette recorder requires that tapes are changed daily in order to reduce the risk of quality degradation, as well as the fact that the tape can only hold a maximum of 24 hours recording so must be changed every day to ensure it is not overwritten.

AFIANT Series Network Video Recorders can hold a maximum of 30 days digital video online without any operational measures and will totally automated manage the deletion of historic data after the storage media is full.

VIDEO QUALITY

A video cassette recorder and tapes will degrade over time unless the tapes are discarded regularly and the head is cleaned and changed regularly.

AFIANT Series Network Video Recorders use digital recording technology which does not degrade over time.

REMOTE SURVEILLANCE

A video cassette recorder can only be viewed by a monitor directly connected to it. Hence the name, Closed Circuit Television (CCTV)

AFIANT Network Video Recorders can be viewed from anywhere in the world via a computer or mobile phone.

STORAGE

A video cassette recorder can only hold a maximum of 24 hours on each video cassette before manually requiring the tape to be changed.

AFIANT Series Network Video Recorders provide a maximum of 30 days online recording without any manual intervention.

MODERN SECURITY SOLUTIONS
Taking Your Security One Step Further



VIDEO RECORDING SPEED

A single video cassette recorder has maximum recording capacity of 25 frames per second. Usually cameras are first connected to a video multiplexer which will time-slice the camera output between the maximum of 25 frames per second.

e.g If you have 8 cameras connected to a video cassette recorder you will only receive a recording of 3 frames per second for each camera.

AFIANT Network Video Recorders record at a maximum of 15 frames per second for each camera, delivering 5 times the amount of video data to ensure evidence is captured.

LOCATION OF RECORDER

Due to the fact that the video cassette recorder requires operational intervention on a daily basis, it must be located in a place where it is easily accessible by staff. This of course leaves the recorder vulnerable to any people who wish to either remove evidence by removing either the video cassette or the recorder itself.

AFIANT Series Network Video Recorders are totally remotely managed and require no daily operational intervention. This means that our AFIANT recorders can be located in a secure location where the location is not known by either staff or any potential unwanted persons.

ENHANCED SECURITY

Video cassette recorders will record evidence which can be reviewed at the location of the recorder but it may be hours after the event as you have no form of remote notification of any event.

AFIANT Network Video Recorders can detect motion or movement at the time of the event and send out an image of the picture at the time of this happening therefore potentially allowing the perpetrator to be caught in the act.



SUPPORTED CAMERAS

Video cassette recorders only support analogue cameras which are based on technology which has changed very little in the last 25 years.

AFIANT Hybrid series supports both analogue CCTV cameras and the more modern and much more beneficial network cameras, providing investment protection for the future.

NETWORK CAMERAS

Below are some of the benefits from choosing a network camera over a CCTV Analogue Camera.

Network cameras support Power Over Ethernet and so only one network cable needs to be taken from the camera to the nearest network socket.

Some network cameras support wireless network standards 802.11b/g which enables cameras to be utilised without any network cables, useful for long distances or across open spaces.

Network Cameras offer higher resolutions as the limitation of the VCR PAL/NTSC format is restricted to .5 Mega pixels. There are already 1,2,3 and 5 Mega Pixel network cameras available and this will become the standard in the future and offers great detail when zooming into recorded video.

SUPPORT AND MAINTENANCE

A VCR is like any other electrical item which may be used in the home. It cannot be accessed remotely; it is sold once and not updated or enhanced. If it goes wrong someone has to come out and repair it.

AFIANT series network video recorders can be remotely upgraded to add new functionality or fix bugs. They can also be remotely managed and also repaired remotely in many cases. The AFIANT customer care package even includes a 24 hour hot swap replacement.