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## BOSCH DIVAR MR

BOSCH Security Systems’ new Divar MR digital video recorder is representative of most of what Bosch is doing lately. It’s a mature product, capable and well thought out, with careful consideration having been given to operating the system from an end user’s point of view.

As you’d expect, Bosch has hit all the right targets with the performance numbers of its new baby. Divar MR is available with 8 (200ips) or 16 video channels (400ips), with CIF, 2CIF or 4CIF resolutions, 8 or 16 alarm inputs and up to 2TB of onboard storage. Compression is MPEG-4, making Divar perfectly suited to network applications.

Given the additional functionality MR offers, Bosch’s attention to control and operational convenience is good stuff. Options include the IntuiKey keyboard, the unit’s front panel and jog dial, an IR remote control when the system’s installed on a nearby benchtop in a control room situation, or a mouse which calls up menus on a monitor.

Along with this lot there’s Bosch’s Divar MR Control Center software which allows easy management of multiple Divar MRs, as well as remote management with live viewing, search and image retrieval, system configuration and alarm notification. If this wasn’t sufficient, authorized

users can access the system over a web browser from anywhere in the world.

As well as having made the system as accessible as it possibly could, Bosch gave Divar MR a set of user functions that deserve a mention. It’s this feature set that really stands out. The new functionality is designed to make the system as easy as possible to use in the real world – and it’s obvious Bosch’s design team got talking to some control room operators and security managers first.

For a start, the MR DVR makes it too easy to compare past and present events and it achieves this by playing live and playback images side by side in separate cameos. Another neat feature is instant playback and recording. This is a feature control room operators rave about because it gives them the ability to react super quickly to sudden events as they occur in real time without fussing around drilling down into clumsy functionality.

DVR MR also automatically protects important event recordings against overwriting as well as

automatically sending off e-mail notifications when particular events take place. Making export easier is an archive player that is sent along with any image stream for easy playback. Along with this the archive player gives authentication to detect tampering and ensure footage is admissible in court.

The heart of Divar MR is an embedded Windows operating systems. The fact the OS is embedded is important because it streamlines processes, increasing reliability and efficiency by using the least possible code to achieve best speed and best predictability.

Essentially use of an embedded OS allows a system to incorporate task specific software and hardware modules as well as allowing engineers to optimize the system perfectly. This optimization includes the design of functionality that provides predictable control when working in asynchronous environments like computers.

In the case of a DVR, the robust embedded design of the Divar MR OS offers a higher level of



security against network attacks than traditional systems by giving hackers no doorways and this slippery design means lower maintenance as well. A robust system like this is advantageous because it maintains the security of recordings through the nature of its design and does away with the ongoing torment of software patches and anti-virus installs.

Another feature of Divar MR is a wide range of interface options designed to make it easy to connect the unit to big range of external devices. These include those 16 video inputs, as well as 16 video outputs, 4 and 8 audio outputs, an Ethernet connection and 16 alarm inputs and 8 outputs.

Along with this there's a Biphase connection that allows a cable to control a Bosch PTZ at a distance of 1500 metres, third party PTZ control and USB connectors front and back. Bosch knows its market and the sharply priced Divar MR is aimed squarely at standalone applications like stores, schools, apartment buildings, hotels and the like, that need real video surveillance in a compact, functional package. ▀ ▀ ▀

## FACT FILE

Key features of the Divar MR include:

- Secure embedded Windows OS
- MPEG-4 file compression
- USB or optional DVD writer
- CIF, 2CIF, or 4CIF resolution
- 400ips
- Up to 16 video input and output channels
- VGA and dual monitor BNC output
- Audio inputs (4 or 8) and an audio output
- Ethernet 10/100BaseT network connection
- Up to 16 alarm inputs and 8 outputs
- Biphase connection for Bosch PTZs (1500m)
- Third-party PTZ control via RS-422/RS-485