

## VOCORD Avantpost VB4/VB8



### Technical solution catalog

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### Materials

- [VOCORD Avantpost VB4/VB8](#)
- [VOCORD Avantpost VM4](#)
- [Technical Specifications](#)

### Advantages

- high video data quality;
- built-in hard disk;
- managing peripheral devices;
- intelligent motion detector;
- integration;
- high reliability;
- simple installation and maintenance.

## High video data quality

VOCORD Avantpost uses the [JPEG2000](#) algorithm for frame by frame compression, which provides image definition of more than 500 TV lines with 720x576 pixels resolution. Excellent color rendering is a result of using high-quality 9-bit DACs and the color video signal sampling scheme YUV 4:2:2.

The high quality of video recording is confirmed by the Ministry of the Interior of Russian Federation Criminal Investigation Department in their resolution on the applicability of video and audio materials recorded by VOCORD Avantpost for scene reconstruction, face identification, and forensic examinations.

## Built-in hard disk

A hard disk for data recording is mandatory in the standalone mode and is an important advantage when VOCORD Avantpost is operating as a part of a distributed security system. A hard disk makes the system network fault- and overload-proof. In case of a network fault, VOCORD Avantpost dumps data to the built-in hard disk, and when the network connection is restored it automatically transfers the data dump to the central archive.

A hard disk provides an option to reduce the size of the central archive and the network load by using the following scheme: recent records (for the last few days) with high frame rate are stored locally on the hard disk, while records with lower frame rate are stored in the central archive. Data search and analysis are primarily performed in the central archive and, if an important fragment is demanded in high quality, it is retrieved from VOCORD Avantpost built-in archive.

## Managing peripheral devices

For creating remotely controlled security systems that support telemetry data retrieval, VOCORD Avantpost offers the [RemoteDrive](#) technology. It allows controlling remote devices that are connected to VOCORD Avantpost through the RS232/422/485 interface directly from the monitoring center. For example, a PTZ camera is connected to VOCORD Avantpost while its remote control unit is connected to an automated workstation. This allows controlling the camera from the remote control unit as if it were directly linked to the camera. There are no restrictions to the remote control communication protocols used because VOCORD Avantpost translates it through the network transparently. VOCORD Avantpost also has a relay output.

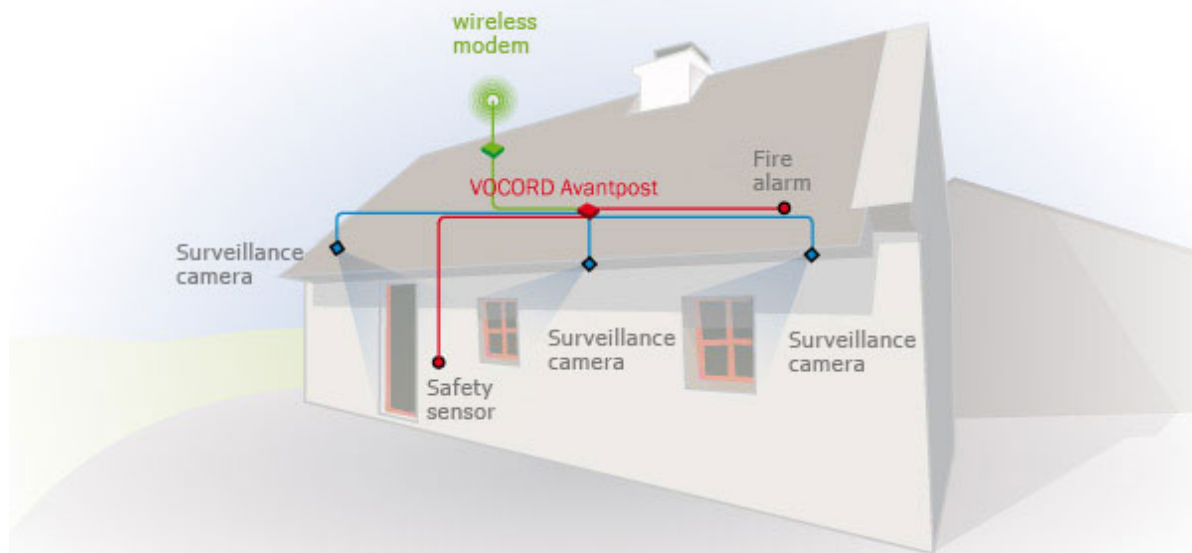
## Intelligent motion detector

VOCORD Avantpost features a high-quality built-in motion detector with increased sensitivity and automatic adaptation to changes of lighting conditions and visual obstruction factors, such as snow, rain, camera noise, and so on.

## Integration

VOCORD Avantpost can operate as a data collection and processing center. It is capable of retrieving telemetry data from sensors, alarm and fire protection system controllers, and access control systems, and then saving this data or sending it to the network.

External devices can be connected to VOCORD Avantpost through the RS232/485/422 interface or electrically insulated alarm inputs. The embedded server software can be updated to facilitate flexible reaction to external events. In particular, remote devices can be controlled through the RS232/485/422 interface or the relay output.



## High reliability

All VOCORD Avantpost hardware components pass quality assurance tests. Vocord developed all hardware manufacturing technologies and strictly controls all manufacturing stages in compliance with ISO 9001:2000, which almost completely eliminates the chance of hardware faults. The server is designed to stay fully operational under the maximum load.

## **Simple installation and maintenance**

The compact size and wide range of operating temperatures allow easy selection of the location for installing VOCORD Avantpost. Unlike PC-based servers, VOCORD Avantpost features minimum heat production and therefore does not require additional cooling. It does not contain cooler fans or other moving parts, which significantly increases its reliability and minimizes the requirements to its maintenance.