

# VOCORD Phobos Video

## Multi-channel digital video surveillance system

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### Purpose

[VOCORD Phobos](#) hardware and software suite is intended for building high-performance multi-channel digital video surveillance systems.

It features hardware compression of video signal, which allows creating multi-channel systems based on standard PC platforms.

The client/server architecture of VOCORD Phobos is perfect for building large distributed systems with virtually unlimited total performance. Multiple recording stations are combined into a single system through a TCP/IP network featuring centralized administration and unified distributed data archive. If any of the stations becomes unavailable, the functioning of other stations and the entire system is not affected.

Adding a network client for monitoring real-time video feeds or viewing archive records increases the system load only by 3-5%. Therefore, the number of network connections is only limited by the throughput capacity of the network. VOCORD Phobos is intended for managing archives having millions of records. A convenient search and sorting system provides the capabilities for quickly accessing, viewing, deleting, and replicating records, as well as exporting them to files of standard formats. Flexible scheduling settings allow running these tasks automatically, without operator's participation. The system can run in unattended mode for prolonged durations. VOCORD Phobos supports data backup to external storage media (MO disks, DVDs, and so on) or to remote archive servers through a TCP/IP network.

### Features

- Parallel monitoring, data archiving, and viewing archive records.
- High precision of synchronization of video and audio data (less than 40 ms).
- Start of recording triggered by motion detector, schedule, or sensor alarm.
- Scheduled replication and deletion of records.
- A selection of deinterlacing algorithms.
- Intelligent motion detector with up to 6480 detection zones.
- Multi-function remote access.
- Public interface for integration with other applications.
- Image resizing while viewing, automatic adaptation to data channels with limited throughput capacity.
- Multi-level security system.

### Advantages

- Intraframe video signal compression.
- High performance achieved by using hardware video compression.
- Video stream scaling.
- Frame dropping.
- Distributed architecture with unlimited scalability by the number of channels and by archive depth.



## System structure

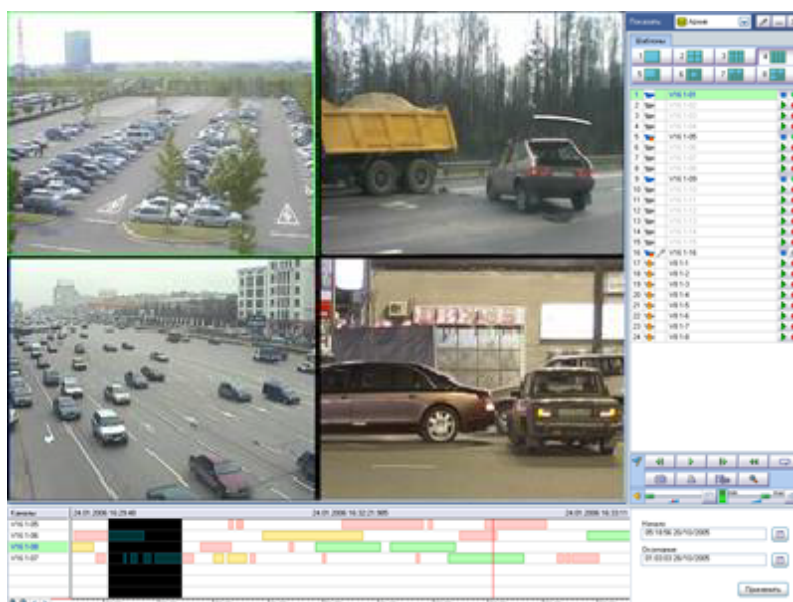
The systems are based on industrial or commercial computers equipped with adapters that convert analog video signals to digital form and compress the resulting data.

Network configuration consists of one or several recording stations combined into a local network and remote workstations for monitoring and managing the archive. If necessary, long-term storage servers can be added.

All parameters of the work scenarios are set up at the software level, individually for each channel and without interruption of recording. Recording at each channel can be paused and resumed manually, scheduled for specific time, or triggered by signals from external equipment.

A distinct feature of the system is virtually unlimited scalability. The client/server architecture supports parallel connection of any number of workstations (including workstations connected through the Internet).

The number of recording stations, long-term storage servers and workstations is determined individually for each task. The total number of supported channels is not limited.



VOCORD Phobos Video surveillance system interface

## Logical channels

A distinct feature of VOCORD Phobos is the option to group multiple physical communication channels into logical channels. This allows flexible setup of recording triggers for channel groups. For example, when a channel is triggered (by a motion detector, a sensor alarm, and so on), simultaneous recording for all channels that belong to the same logical channel is started. Playing records belonging to the same logical channel is also performed simultaneously.

## **Archive**

Besides the working archive stored on built-in hard disks at recording stations, replication of records to removable storages for backup and long-term storing purposes is available. To create the backup archive, high capacity storage media is used (MO disks, DVDs, and so on). Replication to external storages can be performed manually by operator's command or automatically according to the schedule.