DiBos Micro Digital Video Recorders - Version 8 (EMEA/APR)

www.boschsecurity.com





- ► Hybrid analog/IP MPEG4 digital video recorder
- ► Models for 6 and 12 analog cameras and up to 8 additional network cameras/video encoders
- ▶ View/record video at CIF/2CIF/4CIF resolution
- ▶ Web-browser remote access and viewing
- ▶ Camera tamper detection

DiBos Micro uses Bosch's proven state of the art digital recording and communications technology and takes video surveillance to a new level. It is an integral part of overall security solutions for a wide range of applications – including banks, large retailers, railway stations, airports, city centers, industrial facilities, and office buildings.

Customers can retrieve vital images and share information faster than ever before. They can better assess critical situations and take action immediately. Whether they're on site or at a remote network location, authorized personnel have quick, convenient access to information so they can operate more effectively and efficiently.

DiBos supports live viewing and recording at resolutions up to 4CIF. Users can store images at up to 180/150 ips (NTSC/PAL) on 12 composite video inputs. As many as 4 audio data streams can also be recorded on 12 video channels units.

Users can connect up to 8 additional IP video sources. This includes support for Bosch IP cameras (Dinion IP and AutoDome IP), Bosch MPEG4 network video encoders (VideoJet and VIP X Series), as well as JPEG images from numerous network camera manufacturers. DiBos can store up to 30/25 ips per attached network video device. Every network video

encoder can add one additional audio channel. In addition to Bosch MPEG4 network encoders, DiBos can receive JPEG images from network cameras from numerous manufacturers.

The system offers advanced features for viewing and very high flexibility in recording and image access. The real power of DiBos Micro is fast, convenient accessibility to images and information. If required, accessibility to images and information is possible round the clock and everywhere all over the world. Communication and access to DiBos Micro is possible via private or public networks. For these purposes the system can be connected to a variety of peripheral devices and systems.

The unique, scalable GUI allows live and recorded images from multiple remote systems to be viewed from a single PC or another DiBos Micro. With this powerful tool, security managers can monitor and supervise various locations simultaneously. Cameras and viewing modes can be programmed or selected manually. Each camera offers in-window pan/tilt/zoom functionality from local or remote facilities. Images are displayed with date/time, location, camera name and status of connected devices such as detectors and sensors.

DiBos Micro can be programmed to respond to specific situations and events automatically. Minimal human intervention is necessary.

In response to alarms, the system can be programmed to transmit images or messages to security personnel or security control center.

Playback is easy thanks to familiar search and navigation functions in a tree structure. Images can be accessed locally or remotely via a company network or the Internet. The customer can select multiple different views from up to 30 cameras.

Fast, powerful image search functions eliminate timeconsuming manual searches. Functions include search for image changes, search for criteria such as camera number, recording date/time, and optional ATM transaction data, e. g. credit card number, bank code, account number, and/or amount withdrawn.

To ensure high security, all access is controlled by user authorization. Profiles are assigned by the system administrator. Events, such as login, logoff, status changes, image transmission, and system shutdown are stored in a database. Video authentication is built in to ensure that DiBos images are not altered in any way.

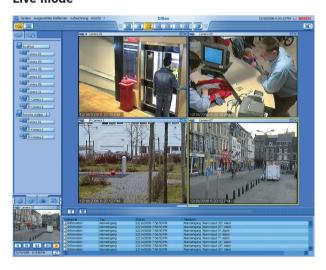
Various storage devices – such as external disk arrays, RAID and NAS devices, and external disk drives – may be used for export and backup of images.

DiBos Micro supports Bilinx for pan/tilt/zoom and camera configuration via the video coax cable.

The configuration wizard makes installation quick and easy.

DiBos Micro serial ports can be connected to Bosch alarm panels, ATM, Allegiant matrices and foyer card readers.

Live mode



Playback mode



Certifications and Approvals

| Region | Certific | ation | |
|--------|----------|-------|--|
| Europe | CE | -List | |
| USA | FCC | -List | |
| Europe | CE | | |

Installation/Configuration Notes

Front view:

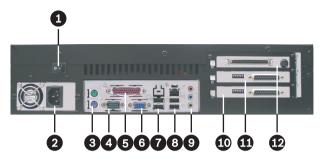


- 1 DVD-RW
- 2 Front cover Opened by pressing once on the cover.
- 3 2x USB 2.0

- Control LED: System is switched on
- Control LED: Hard disk access

Rear view:

1



2 Mains connection 100/240 VAC, 50/60 Hz

(automatic switchover)

On/Off switch

8

7

1

0

1

- 3 Mouse (green) Keyboard (purple). These connections should be used if the mouse and keyboard are not connected via USB.
- 9 Line in (blue) Speaker out (green) Microphone in (red), mono

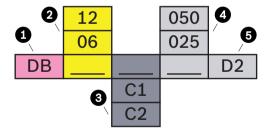
1x Ethernet (RJ45)

2x USB 2.0 (e.g. for mouse and keyboard with USB connection)

2x USB 2.0

- 4 Serial interface COM1
- Grabber 2 (camera 7 12)
- 5 Parallel interface.
- 1 Grabber 1 (camera 1 6)
- 6 VGA monitor
- I/O card with plug for connecting the alarm inputs and relay outputs and socket for video monitor A and video monitor B

Ordering information:



- 1 Type DiBos Micro
- 2 Number of analog camera inputs
- 3 C1 version with max. 6 camera inputs C2 version with max. 12 camera inputs
- 4 Disk size (x10 GB)
- 5 Version

E. g. : **DB 12 C2 025 D2**

12 channel DiBos Micro with 250 GB storage

Technical Specifications

Electrical

| Electrical | | | | |
|---|---|---|--|-------------------------------------|
| Compression Method | MPEG4 | | | |
| Camera Inputs (analog) | 1 connection cable with 6 BNC connectors (DB 06) or 2 connection cables, each with 6 BNC connectors (DB 12) | | | |
| Camera Inputs (IP) | 8 video/audio MPEG4 data streams from Bosch/VCS network or JPEG devices | | | |
| Composite video signal | 1 Vpp +/- 1.4 Vpp) | | 0.7 Vpp, ma | ıx. |
| Recording resolution (analog inputs) | (2CIF), 3 NTSC: 704 x 48 | 52 x 288 Pi | 04 x 240 Pix | |
| Recording resolution (IP inputs - Bosch IP devices) | 464 x 57 D1), 352 NTSC: 704 x 48 464 x 48 | 6 (2/3 D1), x 288 (CIF) 0 (4CIF/D1 0 (2/3 D1), |), 704 x 288 352 x 576), 176 x 144), 704 x 240 352 x 480), 176 x 120 | (1/2 (QCIF) 0 (2CIF), (1/2 |
| Recording rates (analog) for DiBos Micro models | IPS CIF (PAL) | IPS CIF (NTSC) | IPS 2CIF (PAL) | IPS 2CIF (NTSC) |
| DB 06 C1 xxx D2 | 75 | 90 | 50 | 60 |
| DB 12 C2 xxx D2 | 150 | 180 | 100 | 120 |
| Recording rates (analog) for DiBos Micro models | IPS 4CIF (PAL) | IPS 4CIF (NTSC | | |
| DB 06 C1 xxx D2 | 25 | 30 | | |
| DB 12 C2 xxx D2 | 50 | 60 | | |
| Recording rates per channel (video inputs analog) | PAL: 0,5; 1; 2; 3; 4; 5; 6; 8; 12,5; 25 ips NTSC: 0,5; 1; 2; 3; 5; 6; 7,5; 10; 15; 30 ips | | | |
| Image size (video inputs analog) | Configurable from approx. 1.5 kB to 30 kB | | | |
| Maximum recording rate (analog and IP) | 50 Mbit per second | | | |
| Recording rates per channel (video inputs IP) | PAL: 0,5; 1; 2; 3; 4; 5; 6; 8; 12,5; 25 ips NTSC: 0,5; 1; 2; 3; 5; 6; 7,5; 10; 15; 30 ips | | | |
| Image size (video inputs IP) | Configurable bit streams up to 3 MBit per camera | | | |
| | | | | |

| Supported single channel encoders Bosch VideoJet Series and Bosch VIP Series | VideoJet 10S, VideoJet 1000 VideoJet X10 VIP X1, VIP 10 |
|---|--|
| Supported multi channel encoders Bosch VideoJet Series and Bosch VIP Series | VideoJet 8004, VideoJet 8004A VideoJet 8008, VideoJet 8008A VideoJet X20, VideoJet X40 VIP X2, VIP X2A, VIP X1600 |
| Supported Bosch IP cameras | Dinion IP, AutoDome IP, FlexiDome IP, Megapixel IP |
| JPEG protocol | JPEG image request via HTTP |
| Supported JPEG cameras from other manufacturers | IP cameras from Axis, Sony and Mobotix. For further information please contact Bosch Security Systems |
| Audio Inputs | 2 (DB 06) or 4 (DB 12), cinch connector, line in signal, 16 KHz sampling rate |
| Audio Outputs | 1, line out signal, 1/8" mini-plug (3,5 mm) |
| Alarm Inputs (NO / NC) | 12 Switching voltage (high): >2 VDC Switching voltage (low): <0,5 VDC Input voltage: max. 40 VDC Impedance: 22 kOhm pull up (+5 V) |
| Malfunction relay output | 1 Voltage range: 30 VAC - 40 VDC Switching current: max. 500 mA AC or DC Switching power: max. 10 VA |
| Relay Outputs (NO / NC) | 12 Voltage range: 30 VAC - 40 VDC Switching current: max. 500 mA AC or DC Switching power: max. 10 VA |
| Spot monitor output | 2 CVBS outputs for full screen or sequences from connected analog cameras |
| Bilinx control | For AutoDome control and Dinion camera configuration via coax |
| PTZ control | Bilinx: Via coax cable, up to 12 AutoDome units. Biphase: Up to 12 AutoDome units. RS 232: Via Console Port of any Allegiant matrix. |
| Storage capacity (internal hard disk) | 250 GB, 500 GB (8 GB are needed for the operating system and video system software) |
| Video output | 1x VGA |
| Ethernet | 10/100/1000 Base-T, bandwidth-limited |
| CPU | Intel Celeron(min. 2,8 GHz) |
| RAM | 512 MB |
| RS 232 | 1 (to connect Bosch alarm panels and Allegiant matrices) |
| USB 2.0 | 6 |
| | |

| DVD writer | Included; supported medias: CD-R, CD-RW, DVD-R |
|-----------------------------|---|
| Power supply | 100 / 240 VAC, 50 / 60 Hz (auto switch) |
| Typical power consumption | approx. 120 W |
| Power consumption | max. 140 W |
| Operating system | Microsoft Windows XP Embedded |
| Web Browser | Microsoft Internet Explorer 6 or higher, on Windows 2000 or Windows XP |
| Export of video/audio datas | DiBos-format or ASF-format on CD/DVD writer, USB-device or network drive |
| Image Printer | via USB (with Windows XP drivers) |
| External storage capacity | max. 16 TB |

Supported protocols

| | Panasonic, Pelco (D protocol), JVC, SAE | Bosch (Bilinx, Biphase, Allegiant) | Geutebrueck Lederer |
|----------------------------------|--|---|------------------------|
| Pan / tilt / zoom | Yes | Yes | Yes |
| Focus / Iris | Yes | Yes | Yes |
| Prepositions | Yes | Yes | Yes |
| AUX commands | No | Yes | No |
| Extended commands, e.g. wiper on | No | No | Yes |

Mechanical facilities

| Dimensions (H x W x D) | 11.5 x 48.0 x 43 cm (4.5 x 19 x 16,9 inch), also in 19 inch rack mountable |
|---------------------------|--|
| Weight | Approx. 11.5 kg (25 lb), dependent on model |

Environmental conditions

| Operating temperature | +5 °C to +40 °C (41 °F to 104 °F) |
|--------------------------------|-------------------------------------|
| Storage temperature | -10 °C to +60 °C (-14 °F to 140 °F) |
| Relative humidity in operation | 15% to 80%, no condensation |
| Relative humidity when stored | 8% to 80%, no condensation |

Electromagnetic Compatibility (EMC)

| 100141110,014001 | • USA | FCC Part 15, Class B |
|------------------|-------|----------------------|
|------------------|-------|----------------------|

| • EU | EMC Directive 89/336/EEC Interference immunity: Conformance with EN 50130-4 requires an external UPS. The product is tested according to EN 50130-4, with the exception of voltage interruption to EN 50130-4:1995 Chapter 3/8/04. To comply with EN 50130-4, an external UPS is required. The UPS (Pulsar ellipse 500) is not included in the product and must be ordered separately. The UPS should be dimensioned for at least 480 VA. Interference emission: EN 55022, Class B Mains power fluctuations: EN 61000-3-2 Voltage fluctuations: EN 61000-3-3 |
|--------|---|
| Safety | |

Minimum requirements for computer with DiBos Receiver Software/IP Recorder Software (in brackets recommended requirements)

| Operating system | Windows XP Professional, 32-bit versions; Windows Vista, 32-bit versions |
|---------------------|--|
| CPU | Pentium 4, 3 GHz with Hyper Threading, (Core 2 Duo CPU) |
| RAM | 1024 MB (2048 MB) |
| VGA card | 32-Bit color depth (DirectX 9 Hardware Support, no shared memory) |
| Recording partition | Dedicated partition for recording |
| Network adapter | 1000 Base-T, Gbit |

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Intel Pentium and Celeron are registered trademarks of Intel Corporation.

Ordering Information

DB 06 C1 025 DL2 DiBos Digital Video Recorder

6 channel DiBos Micro with 250 GB HDD, CD-RW, no IP devices.

Order number DB06C1025DL2

DB 06 C1 025 D2 DiBos Digital Video Recorder

6 channel DiBos Micro with 250 GB HDD, DVD-RW, 8 IP devices.

Order number DB06C1025D2

DB 06 C1 050 D2 DiBos Digital Video Recorder

6 channel DiBos Micro with 500 GB HDD, DVD-RW, 8 IP devices

Order number DB06C1050D2

DB 12 C2 025 D2 DiBos Digital Video Recorder

12 channel DiBos Micro with 250 GB HDD, DVD-RW, 8 IP devices.

Order number DB12C2025D2

DB 12 C2 050 D2 DiBos Digital Video Recorder

12 channel DiBos Micro with 500 GB HDD, DVD-RW, 8 IP devices.

Order number DB12C2050D2

Accessories

DB EK 012 CS English Keyboard and Czech Manuals (only EMEA)

Order number DBEK012CS

DB EK 012 DA English Keyboard and Danish Manuals (only EMEA)

Order number DBEK012DA

DB EK 012 DE German Keyboard and German Manuals (only EMEA)

Order number DBEK012DE

DB EK 012 EL English Keyboard and Greek Manuals (only EMEA)

Order number DBEK012EL

DB EK 012 EN English Keyboard and English ManualsOrder number **DBEK012EN**

DB EK 012 ES English Keyboard and Spanish Manuals

Order number DBEK012ES

(only EMEA)

DB EK 012 FI English Keyboard and Finnish Manuals (only EMEA)

Order number DBEK012FI

DB EK 012 FR French Keyboard and French Manuals (only EMEA)

Order number DBEK012FR

DB EK 012 HU English Keyboard and Hungarian Manuals (only EMEA)

Order number DBEK012HU

DB EK 012 IT English Keyboard and Italian Manuals (only EMEA)

Order number DBEK012IT

DB EK 012 NL English Keyboard and Dutch Manuals (only EMEA)

Order number DBEK012NL

DB EK 012 NO English Keyboard and Norwegian Manuals (only EMEA)

Order number DBEK012NO

DB EK 012 PL English Keyboard and Polish Manuals (only EMEA)

Order number DBEK012PL

DB EK 012 PT English Keyboard and Portuguese Manuals (only EMEA)

Order number DBEK012PT

DB EK 012 RU English Keyboard and Russian Manuals (only EMEA)

Order number DBEK012RU

DB EK 012 SV Swedish Keyboard and Swedish Manuals (only EMEA)

Order number DBEK012SV

DB EK 012 TR English Keyboard and Turkish Manuals (only EMEA)

Order number DBEK012TR

DB EK 021 SCSI Card Adapter and SCSI Cable

Built in the factory. Included SCSI cable. DiBos Micro: Only for DB 06, due to required PCI slot. DiBos 19 inch: Not for DB 30 C5 100 R2 and DB 30 C5 160 R2, due to required PCI slot. Order number **DBEK021**

DB EK 061 SCSI Card Adapter and SCSI Cable

Expansion. Included SCSI cable. DiBos Micro: Only for DB 06, due to required PCI slot.

Order number DBEK061

DB SE 041 Tele Service Package for DiBos (only EMEA)

PC Anyware Host Version 10.5 Order number **DBSE041**

DB EK 831 OVS Interface Converter OVS

RS 485/RS 232 interface converter.

Order number DBEK8310VS

DB EK 823 9M Connection Cable 9-pole, between DTP3 and OVS

Order number DBEK8239M

DB EK 721 RS 232 PCI Interface Expansion for RS 232 (only EMEA)

PCI card for 2x RS 232. Requires one free PCI slot. Order number **DBEK721RS232**

DB EK 211 DCF Radio Clock Receiver DCF-77 (only EMEA)

Requires one free RS 232 interface.

Order number DBEK211DCF

DB EK 211 DCFC Extension Cable 50 m for DCF-77 (only EMEA)

Order number DBEK211DCFC

DB EK 201 UPS Uninterruptable Power Supply UPS (only EMEA)

Order number DBEK201UPS

Software Options

DB SE 016 DiBos ATM POS Bridge License

Software interface via TCP/IP to Bosch ATM/POS bridge.

Order number DBSE016

DB SE 017 DiBos IP Software License

Software interface via TCP/IP socket connection to IP server providing POS, ATM or other data.

Order number DBSE017

DB SE 031 Software Interface to Bosch Alarm Panels

Connection via RS 232 to Bosch G Series, UGM 2020, UEZ 2000/1000, BZ 500, NZ/BZ 1060, NZ/BZ 1012, NZ 1008.

Order number DBSE031

DB SR 002-B DiBos 8 Receiver SW Burning License

Order number DBSR002-B

DB SW CD-DVD

SW Recovery DVD and setup CD Order number **DBSWCD-DVD**

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