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Divar XF/700 Software Release Letter

Software Version 3.34
Release letter Version 1.0

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Main change:

Support of DVR 440 and DVR 480 models in PC software Version 3.34

Support of DVR 600 firmware version 3.1.2

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1. Installation requirements

The Divar XF/700 Series PC applications require the following minimum configuration:

- Processor: Intel Pentium DualCore, 3.0 GHz or comparable
- RAM memory: 2048 MB
- Free hard disk space: 10 GB
- Graphics card: NVIDIA GeForce 8600 or higher
- Network interface: 10/100/1000-BaseT
- Operating System: Windows XP (Service Pack 2 or higher) or
Windows Vista (Service Pack 2) or
Windows 7 (32 bits and 64 bits)

1.1 Required Divar XF/700 Series firmware

The Divar XF/700 Series Firmware version 3.4 can be installed on all Divar XF and 700 Series models.

Note that some features of the software on the Divar XF/700 Series will only work on recorder devices and networks supporting them:

- iSCSI storage on Divar XF/700 Series can be used reliably only on 1 GBit/s networks.

- The Divar XF models support up to 8 IP expansion channels, the Divar 700 series support up to 16 IP expansion channels.

HD support on Divar 700 Series units will only be activated extra RAM memory is installed. Contact your sales representative for information on how to get a memory upgrade.

Please note that Divar XF recorder models can not be upgraded to be HD capable.

Note that for some features on the Divar XF/700 Series optional license must be installed:

- IP expansion channels (Hybrid models for Japan have 8 IP channel installed as standard)
- Text feature (formerly called ATM/POS license), RAID-4 local disk protection feature.

When installing 3.4 firmware on the recorder you will also need to use the accompanying PC application software release 3.34. This PC software release includes a new version of the Upgrade tool.

The following table lists the dependencies between Divar XF/700 Series recorder firmware and PC application software releases:

PC APPS release	Compatible Divar XF/700 Series Firmware releases
1.01	1.22 and earlier
1.02	1.22 and earlier
1.21	1.22 and earlier
1.23	1.22 and earlier
2.0	2.1 and earlier
2.5	2.56 and earlier
2.51	2.56 and earlier
2.52	2.56 and earlier
2.56	2.56 and earlier
3.0	3.0 and earlier
3.1	3.12 and earlier
3.20	3.21 and earlier
3.3	3.3 and earlier
3.31	3.31 and earlier
3.32	3.31 and earlier
3.33	3.4 and earlier
3.34	3.4 and earlier

Do not install pre-3.1 firmware on Bosch 700 Series recorders. Older firmware is incompatible with the Bosch 700 Series hardware.

1.2 Required DVR 400/600 Series firmware

For the DVR 400/600 there is a dependency between the firmware on the DVRs and the PC application software 3.34 release:

- DVR 430/451 models Firmware version 1.5.0 must be installed.
- DVR 440/480 models Firmware version 1.0.0 must be installed.
- DVR 600 Series Firmware version 1.2.0 (or the latest version 1.3.2) must be installed on all DVR 600 devices.

PC APPS release	DVR 430/451	DVR 440/480	DVR 600
3.32	v1.5.0	-	v1.2.0
3.33	v1.5.0	-	v1.2.0
3.34	v1.5.0	v1.0.0	v1.2.0
3,34	v1.5.0	v1.0.0	v1.3.2

2. This release includes the following new features and improvements:

2.1 Divar Classic

1. A bug preventing the export of recorded video footage from the last camera on a Divar Classic has been fixed.

2.2 DVR 440/480 models (PC software v3.34)

1. PC application support of DVR 440 model with firmware version 1.0.0.
2. PC application support of DVR 480 model with firmware version 1.0.0.

3. This release includes the following known limitations:

3.1 Divar XF/700 Series

1. Stepping mode only available in single screen mode on Divar-2.
Due to performance limitations on Divar-2, stepping mode is only available when viewing a single camera image (single screen mode). In multi screen mode the stepping buttons will be disabled.
2. Stepping mode sometimes does not start on Divar-2.
In some cases stepping forward or backward does not start when the step forward or step backward button is pressed. This can be solved by stepping in the other direction a few times before stepping in the desired direction.
3. Configuration Tool for Divar-2 not installed when installing the Divar Control Center version.
For remote configuration of a Divar-2 recorder, the Divar-2 Configuration Tool should be installed manually. This can be done prior or after installing the Divar Control Center. When the Divar-2 Configuration Tool is installed, Divar Control Center will start the Divar-2 Configuration Tool automatically (when attempting to configure a Divar-2 via the Divar Control Center).
4. Due to the highly graphical nature of the PC application suite, in particular Control Center and Archive Player, a PC can run low on available (video) resources. This can hamper video/audio streaming and slow down (or stop) the response of the application. If the application becomes unresponsive, start up the Windows Task Manager (press CTRL+ALT+DELETE) and close down the application.
5. To ensure proper functioning of the PC application suite, make sure that:
 - The recommended PC requirements are met
 - The latest graphics card drivers are downloaded and installed
 - The DirectX version is up to date

- Sufficient network bandwidth is available
6. To lower the required PC performance, the following measures can be taken:
 - View only a limited amount of channels simultaneously e.g. do not use the 3x3 and 4x4 modes
 - Close down other applications while running the Divar XF/700 Series software
 - Run only one Divar XF/700 Series application at a time
 - Use a single monitor display and limit the output resolution of the graphics card to 1024x768 pixels
 7. Divar XF/700 Series Control Center running on Vista/Aero with high frequency multi-screen switching actions can result in not responding of the Control Center. To avoid this, select the "Windows Classic" theme to limit the heavy graphical activities.
 8. (New in 3.3) When adding LUNs to the Divar Storage they should have a size of at least 10 GByte.
 9. When using NBC series of Bosch cameras with Bosch 700/DIVAR XF Series recorders you are advised not to use the 1 IPS frame rate setting. The pre-event recording time is severely shortened and you will lose video. At 3 IPS or higher this problem will not occur.
 10. Ethernet port 1 ("Connection 1" in configuration tool) has slightly more features than the (optional) Ethernet port 2 ("Connection 2" in CT):
For Ethernet port 1 the IP address, Subnet mask, Default gateway and DNS server address plus options for DHCP or Auto DNS address can be set.
For Ethernet port 2 only the IP address, subnet mask and option for DHCP can be set.
This means that on the second Ethernet port no routing to IP devices or workstations on other subnets through routers or gateways is supported.
 11. iSCSI maximum LUN size has been increased to 480 Million Terabytes.
 12. Due to design limitations the timeline in playback will show longer (up to 15 seconds) post motion event recording period than the actual duration of the recordings. When showing video at the end of such a motion event recording period, the camera will not show any video.
 13. Due to design limitations, the playback of motion event recordings or alarm recordings will show the last picture of these recordings for a few seconds (as a static image) before blanking the camera.
 14. When performing a store-set-recovery, make sure that all portals are online and in configuration mode before initiating the recovery. Video data that is on off-line disks will be lost after the recovery!
Please review the Application note: iSCSI Configuration on Divar 700 Series recorders.
 15. When using DHCP for giving IP addresses to network cameras, make sure that the server providing these addresses assigns a fixed IP address to the MAC addresses of the network cameras.

16. Due to design limitations of the text search feature, not all text messages will be shown when playing back video at any other speed than 1x.
17. Use of IP cameras with Divar XF/700 Series recorders has been tested with camera firmware version 4.1.
18. Due to issues in the software (camera firmware 4.10 build 42) in NBC 255 cameras, Smart search does not work correctly with this type of camera. Some motion will go undetected. This issue will be addressed in a firmware update of the camera.
19. SNMP timestamps can be up to 20 seconds off.
20. The Divar XF/700 Series can not put Easydome IP cameras in DHCP mode when configuring IP addresses of this type of camera. This limitation is due to firmware constraints in easydome IP cameras. Workaround is to use the camera web interface to enable DHCP in these cameras.
21. Motion detection in the recorder does not work with Autodome easy IP cameras.
22. Microsoft Internet Explorer 6.0 and 8.0 have been used to test the zero-install version of CC mentioned in the new features section. Firefox has not been tested.
23. It is sometimes not possible to recover (or import) an iSCSI LUN using configuration tool. It is always possible to do this using the configuration menu on the Divar XF/700 Series.
24. DLA-AIOU0-1400 is only supported when a UPS unit is used. Data protection is not guaranteed when the unit is not shut down orderly.
25. CC can not view high definition cameras. Trying to do so may cause CC to fail.

3.2 DVR 400/600 Series

1. Max. playback speed is 16 times for DVR 400/600 Series. However in the Instant playback window still 64 times can be selected which is not working.
2. Only full screen and quad playback is possible. During playback of DVR 400/600 Series the 3x3 and 4x4 icons are disabled
3. The feature “Retrieve from Divar” in the ‘Add Divar’ window is not supported on the 400/600 Series.
4. Selecting Export in PC application will open the Export web page on 400/600 Series
5. To configure a DVR 400/600 Series select ‘configure’ by right mouse click on Individual DVR 400/600 units in the System Management window (live mode). A Web application will start-up were after log-on the configuration icon can be selected.
6. In Smart Motion search only forward direction is supported (not backwards)

4 Firmware Installation procedure

4.1 Upgrade Divar XF/700 Series to firmware v3.4

1. Upgrade procedure

The firmware on the Divar 700 recorders can be upgraded using a USB stick locally on the recorder or using the Upgrade Tool to update recorders across the network.

1.A

When performing the upgrade with USB stick, please take the following steps.

- * Copy the firmware img file onto a USB stick.
- * Power down the Divar XF/700 Series recorder.
- * Insert the USB stick in a free USB port.
- * Power up the Divar XF/700 Series recorder and accept installation of the new firmware.

NOTE: If you do not power down before inserting the USB stick, the Divar XF/700 Series recorder may return a message "Invalid Code Image".

On rare occasions the Divar XF/700 Series recorder is not able to completely upgrade the firmware.

In this case proceed as follows:

- * Power down the Divar XF/700 Series recorder.
- * Insert the USB stick in a free USB port.
- * Press and hold down the full screen button and the 3X3 multiscreen button.
- * Power-up the Divar XF/700 Series recorder, while keeping the buttons pressed for 10 seconds.
- * The monitor will show the message: "Please wait, loading image from USB"
- * The monitor will show the question: "Do you want to install the new firmware?"
- ? Click "Yes" button.
- * Monitor shows the message:
- ? "Updating firmware. This may take several minutes. Please wait."
- * The Divar Xf/700 Series recorder will reboot and the monitor will display:
- ? "No different image found on USB. Loading internal image"
- * Now the new firmware is installed and running.

1.B Performing a firmware upgrade using the Upgrade Tool.

Please refer to the Application note: "Using the Firmware Upgrade Tool with Divar XF and 700 Series recorders". Note that the Divar XF/700 must have firmware release 3.20 or later installed for network based firmware upgrade.

4.2 Upgrade DVR 400/600 Series

To upgrade the DVR 400/600 Series to the latest firmware, please refer to the Video recorder Operation Manual, chapter 6.6.5 or firmware release notes.