Configuration Tool for Imaging Devices

CTFID

BOSCH

en User's Manual

Table of Contents

1 Getting Started

The Configuration Tool for Imaging Devices (CTFID) includes two components:

- One (1) CD-ROM containing the software application
- Configuration Tool hardware (VP-USB, interface between your computer and an imaging device)

1.1 System Requirements

The following are the minimum system requirements to run the Configuration Tool for Imaging Devices software application:

- PC operating platform: Windows® 98 Second Edition, Windows® Millennium Edition, Windows® 2000, or Windows XP®
- Processor: 200 MHz Pentium with MMX (or equivalent)
- RAM memory: 32 MB (dependent upon the operating system)
- Hard disk space: 50 MB
- Video system: 1024 x 768 with 16-bit color
- CD-ROM drive, if installing the software from a CD
- Connectivity: a free USB port (1.1 or higher)
- Connectivity through serial interface

1.2 Compatible Devices

The CTFID uses Bilinx technology, a bidirectional communication method, embedded in the video signal of all of the latest Bosch AutoDome, Dinion, Dinion^{XF}, FlexiDome, and UnityDome cameras (see the table below for a list of compatible devices).

Compatible devices		Compatible devices
AutoDome 25X Day/Night (5.2+)		VG4 300 Series 18X Color
AutoDome 18X Day/Night (5.2+)		VG4 200 Series 36X Day/Night
AutoDome 18X Color (5.2+)		VG4 200 Series 26X Day/Night
AutoDome 18X Monochrome (5.2+)		VG4 200 Series 18X Day/Night
AutoDome G3 Basic (5.2+)		VG4 200 Series 18X Color
AutoDome 26X (5.2+)		VG4 500 Series Fixed Day/Night
AutoDome 26X Day/Night (5.2+)		VG4 500 Series Fixed Color
AutoDome 25X Day/Night (5.1)		VG4 300 Series Fixed Day/Night
AutoDome 18X Day/Night (5.1)		VG4 300 Series Fixed Color
AutoDome 18X Color (5.1)		VG4 200 Series Fixed Day/Night
AutoDome 18X Monochrome (5.1)		VG4 200 Series Fixed Color
AutoDome G3 Basic (5.1)		FlexiDome VF VDM-345 Series
Dinion XF LTC 0385		FlexiDome XT VDM-355 Series
Dinion XF LTC 0485		FlexiDome VF VDC-445 Series
Dinion XF LTC 0510		FlexiDome XT VDC-455 Series
Dinion XF LTC 0610		FlexiDome XF VDC-485 Series
Dinion XF LTC 0495		FlexiDome DN VDN-495 Series
Dinion XF LTC 0620		UnityDome DN VG4-162 & VG4-164 Series
Dinion LTC 0335		UnityDome DN VG4-152 & VG4-154 Series
Dinion LTC 0355		UnityDome XF VG4-161 & VG4-163 Series
Dinion LTC 0356		UnityDome XF VG4-151 & VG4-153 Series
Dinion LTC 0435		HSPU UPH-2D10
Dinion LTC 0455		HSPU UPH-2D10W
VG4 500 Series 36X Day/Night		HSPU UPH-2D15
VG4 500 Series 26X Day/Night		HSPU UPH-2D15W
VG4 500 Series 18X Day/Night		HSPU UPH-3D10
VG4 500 Series 18X Color		HSPU UPH-3D10W

Compatible devices		Compatible devices
VG4 300 Series 36X Day/Night		HSPU UPH-3D15
VG4 300 Series 26X Day/Night		HSPU UPH-3D15W
VG4 300 Series 18X Day/Night		

NOTICE!

The only devices available for use with the BiCom over serial interface are the 200, 300, and 500 AutoDome Series.

2 Installing the CTFID

This chapter includes instructions for installing the software for the Configuration Tool for Imaging Devices. Prior to connecting to a compatible device, install the software.

Installing the Software

1. Insert the supplied CD into your CD drive. If the InstallShield Wizard does not start automatically, open the CD manually by clicking **Start, Run, Browse**. Locate and open the **autorun.exe** file. The Configuration Tool for Imaging Devices prompts you to select one of the following options: Install Configuration Tool, User Guide, View the Readme file, and Exit.

Figure 2.1 Installing the configuration tool

2. Press **Install Configuration Tool** to install the firmware.
3. The Configuration Tool for Imaging Devices - InstallShield Wizard automatically prompts you to select one of the following languages: Czech, Dutch, English, French (Standard), German, Italian, Polish, Portuguese (Standard), Russian, and Spanish.

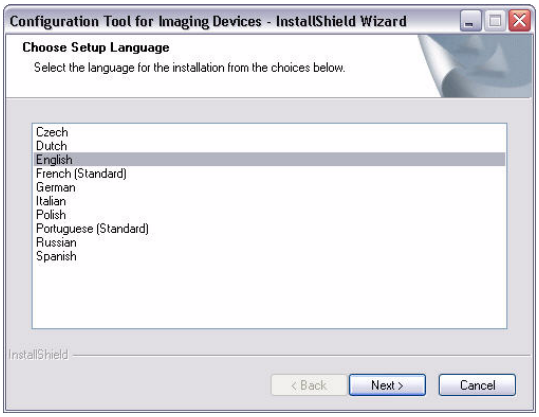


Figure 2.2 Choosing the setup language

4. Select a language, then click **Next**.

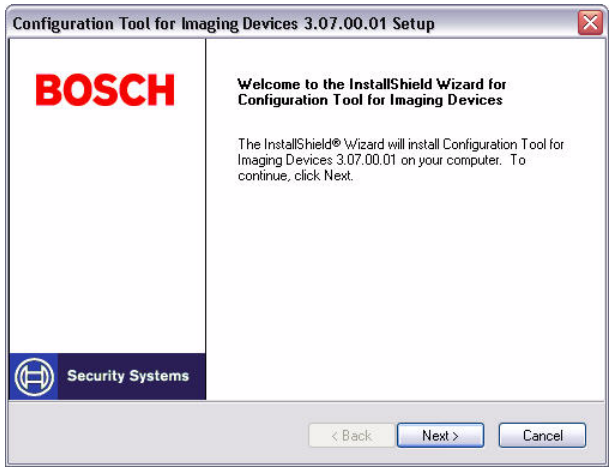


Figure 2.3 Initiating the InstallShield Wizard setup

5. Click **Next** to continue installing the application, or click **Cancel** to discontinue.

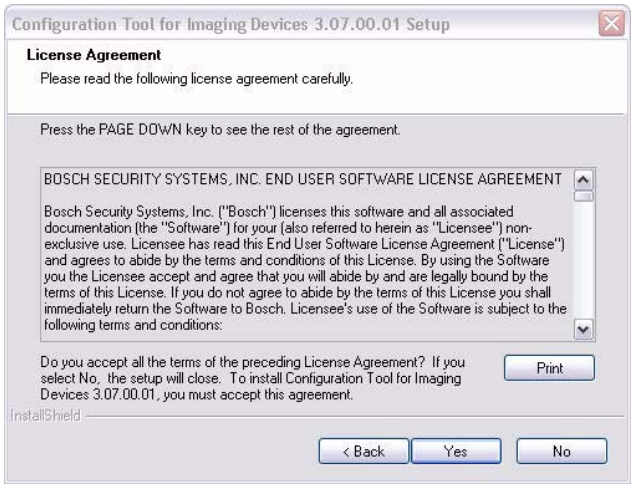


Figure 2.4 Confirming the License Agreement

6. Click **Yes** to accept the terms of the License Agreement, or click **No** to discontinue.

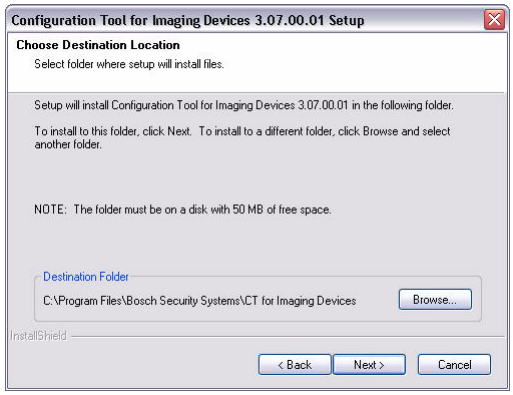


Figure 2.5 Determining the destination folder

7. To accept the default choice, click **Next**. To change the installation directory, click **Browse** and navigate to a directory. Then click **Next**.

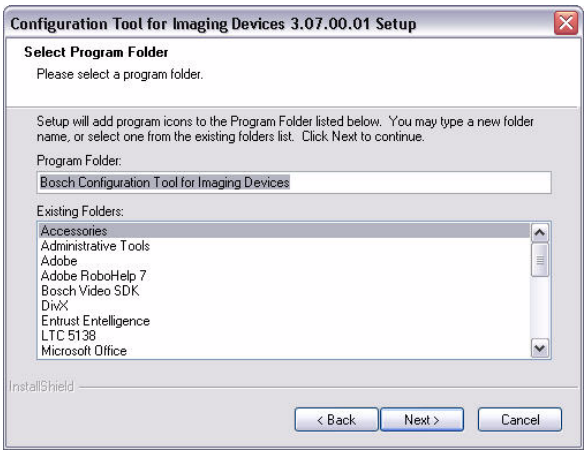


Figure 2.6 Naming the program folder

8. Click **Next** to accept the default program folder, **Bosch Configuration Tool for Imaging Devices**, or type a new name for the folder and click **Next**.

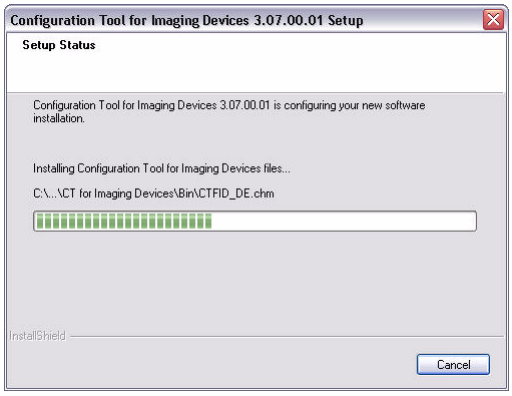


Figure 2.7 Copying the files

9. Click **Next** to begin copying the files to the folder indicated or click **Cancel** to discontinue.

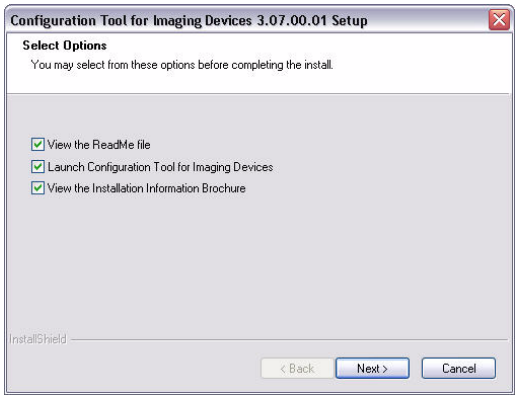


Figure 2.8 Selecting final options

10. Check the appropriate box(es), then click **Next**.

Figure 2.9 Completing the installation

11. Click **Finish** to complete the installation. The CTFID application is launched and/or the Instruction Manual and readme file are automatically displayed if the appropriate check box(s) are selected.

3 Connections

The CTFID is supplied with a VP-USB adaptor that plugs into any USB-compliant port supported by a Windows® operating system. Once the CTFID software is loaded, the adaptor communicates over the video signal from any Bilinx-enabled camera or AutoDome.
There are three (3) possible connection types to link the CTFID software to the imaging device. The first two (2) choices communicate via coax using the Bilinx protocol. These two (2) choices connect to either the USB or serial COMM port of the PC. The third choice is direct RS-232 connection between the PC COMM port and the imaging device (AutoDome only).

3.1 Connecting the VP-USB Configuration Tool

It is recommended that the CTFID software be installed prior to connecting the hardware to the USB port. Refer to *Section 2 Installing the CTFID*, page 5 for additional information.
To see the device output, use a CCTV monitor with looping inputs or a T connector (not provided) for the coaxial cable, and plug the second coaxial cable into the CCTV monitor. Ensure that the monitor is either auto-terminating or is set to low impedance. See *Figure 3.1* for an example of a typical CCTV monitor's connections.

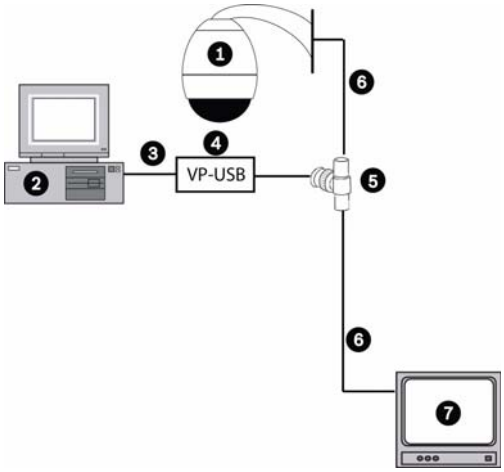


Figure 3.1 Connecting the VP-USB Configuration Tool

Number	Description
1	Typical AutoDome version 5.10 or higher, and any other Bilinx device
2	PC running CTFID software
3	USB port
4	VP-USB adapter
5	BNC "T" connector
6	Coax to input of monitor
7	Typical CCTV monitor

Connecting the VP-USB Configuration Tool to Your PC

1. Insert the Configuration Tool USB cable into a USB port on your computer. The other end of the USB cable is permanently attached to the Configuration Tool hardware.
2. Connect the coax from the VP-USB to the male connection of the BNC "T" connector.
3. Connect a coaxial cable to the input of the monitor.
4. Connect the other end of the monitor's coaxial cable into one of the female connections on the BNC "T" connector.
5. Connect the coax from the camera to the other female connection of the BNC "T" connector.

3.2 Connecting the VP-RS2BLNX Configuration Tool

It is recommended that the CTFID software be installed prior to connecting the hardware to the serial port. Refer to *Section 2 Installing the CTFID*, page 5 for additional information.
To see the device output, use a CCTV monitor. Plug the coax connected to the imaging device to one of the BNC connectors of the VP-RS2BLNX. Connect another coax between the second BNC connector and the CCTV monitor. Ensure that the monitor is either auto-terminating or is set to low impedance. See *Figure 3.3* for an example of a typical CCTV monitor's connections.

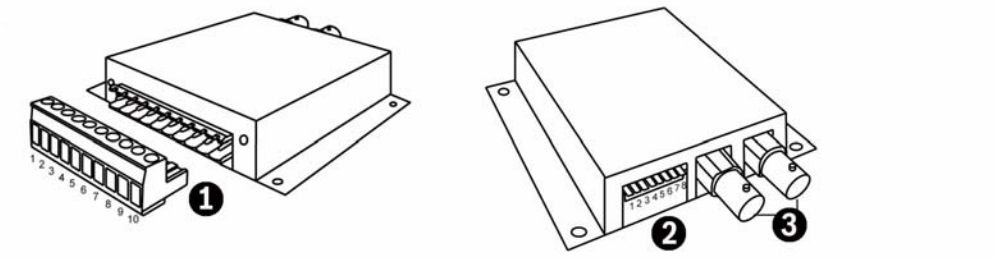


Figure 3.2 VP-RS2BLNX connections

Number	Description
1	Power and serial connection
2	Selects mode and baud rate
3	BNC connections, passive loop-through, high impedance, video input 1 Vpp nominal, 2 Vpp max.

Connecting the VP-RS2BLNX (Bilinx)

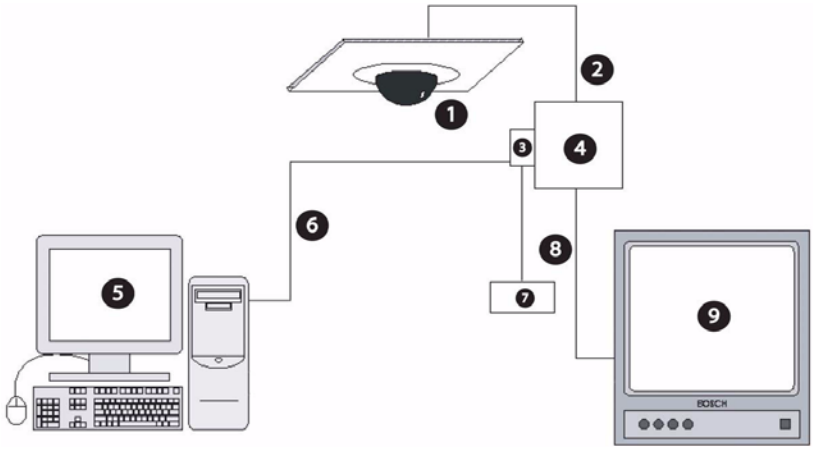


Figure 3.3 Connecting the VP-RS2BLNX Configuration Tool

Number	Description
1	Typical AutoDome version 5.10 or higher, and any other Bilinx device
2	Coax IN
3	Terminal block
4	VP-RS2BLNX
5	PC running CTFID software
6	RS-232
7	Power supply (not provided)
8	Coax OUT
9	Typical CCTV monitor

Connecting the VP-RS2BLNX Configuration Tool to Your PC

1. Pin 1 and 2 of the terminal block are for the connections for the external power supply not provided. The external power supply should be either 12-28 VAC (50/60 Hz) or 12-40 VDC (polarity independent). Galvanically insulated from video, RS-232 ground and encasing.

The Serial to Bilinx converter interface shall be supplied by a self-limited power source of less than 15 VA. Reinforced insulation is provided between input and output by safety transformer and distances on the PCB. USA/Canada: The Serial to Bilinx converter is a product for INDOOR use. It is intended for use with a UL-listed Class 2 power supply.

2. Connect a cable between the terminal block of the VP-RS2BLNX Configuration Tool to the serial port on the computer. Refer to the pin out table below for the proper connections.

The VP-RS2BLNX can operate in RS-232 or RS-485 mode.

	Pin #	Description
PC DB9		
	2	RxD
	3	TxD
	5	GnD
VP-RS2BLNX terminal block		
	Pin 3	GND
	Pin 4	TxD
	Pin 5	RxD

-or-

	Pin #	Description
VP-RS2BLNX terminal block		
	Pin 6	Tx/Rx+ (B)
	Pin 7	Tx/Rx- (A)
	Pin 8	Do not connect
	Pin 9	Do not connect
	Pin 10	GND

Dip switch	Description
8	On: RS-485, Off: RS-232
7	RS-232 baud rate (On: 4800, Off: 9600 Bps)
7-1	RS-485 address (0 to 127)

Table 3.1 Mode and Baud Rate Selections

3. Connect the coax from the Bilinx device to one of the BNCs on the VP-RS2BLNX.
4. Connect a second coaxial cable from the looping output of the VP-RS2BLNX to the input of the CCTV monitor.

3.3 Connecting the AutoDome RS-232

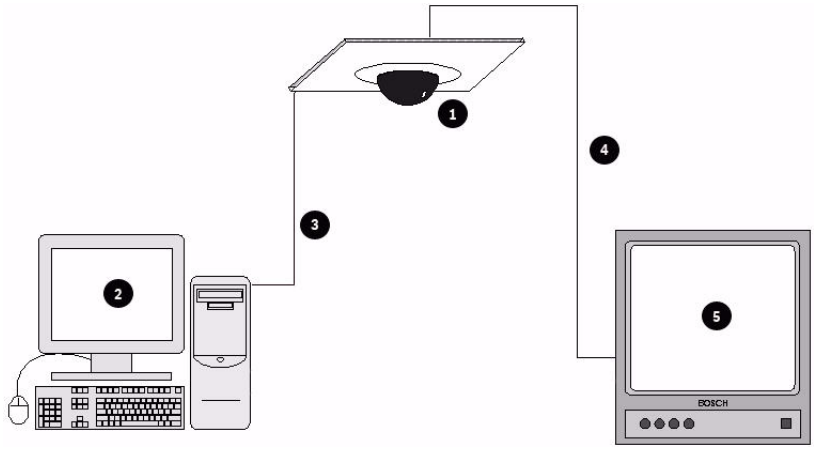


Figure 3.4 Connecting the AutoDome RS-232 to the PC

Number	Description
1	AutoDome 200, 300, and 500 Series
2	PC running CTFID software
3	RS-232
4	Coax to input of monitor
5	Typical CCTV monitor

Connecting the AutoDome to Your PC

1. Make the RS-232 cable using the table below.

	Pin #	Description
PC DB9		
	2	RxD
	3	TxD
	5	GnD
P105 (AutoDome 200, 300, 500)		
	5	RxD
	4	TxD
	6	GnD

2. Connect the DB9 connector to the Com port of the PC.
3. Connect P105 to the AutoDome.
4. Use coax to connect the Video output of the AutoDome to a CCTV monitor.
5. Reposition the slide switch located on the main board of the AutoDome. Slide the switch toward the camera head, inward and away from the LEDs. See *Figure 3.5*.

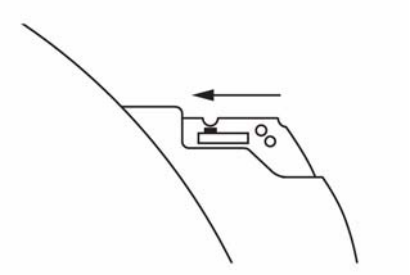


Figure 3.5 RS-232

3.4 Accessing the CTFID Application

The CTFID uses Bilinx technology, which is a bidirectional communication method, embedded in the video signal. Alternately, BiCom over serial interface is available to enable a connection to the device using the serial interface.
Camera/dome settings can be changed while connected to a device in Online mode. Alternatively, use Offline mode to download and save data so that it can be manipulated and uploaded to the same or other similar devices.

Accessing the CTFID

1. Double-click the **Configuration Tool for Imaging Devices** icon located on your desktop window.
   - or -
   Click the Windows **Start** button and select **Programs**. Then select the **Configuration Tool for Imaging Devices** folder. Finally, select the **Configuration Tool for Imaging Devices** application.

Figure 3.6 Starting the application

2. By default, the device automatically tries to connect to a device over Bilinx. The application displays the following message for approximately 20-30 seconds:

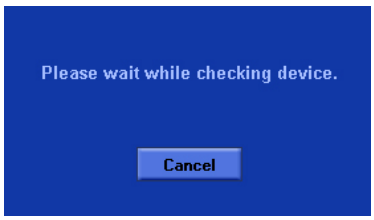


Figure 3.7 Checking the device

3. If a device is detected, go to Chapter 4. If a device is not detected within 1 minute, or if the user interrupts the process by clicking the **Cancel** button, you are given the option to select an alternate interface or work in an offline mode.

Figure 3.8 Alternate Interface Dialog box

4. To choose an alternate interface, click the **Select an alternate interface** option then, click **Continue (see *Figure 3.8 Alternate Interface Dialog box*)**. Next, select the appropriate interface type then, go to Step 5.

   - or -

   To work in an offline mode, click the **Load Configuration** option, then click **Continue** and go to Step 6.

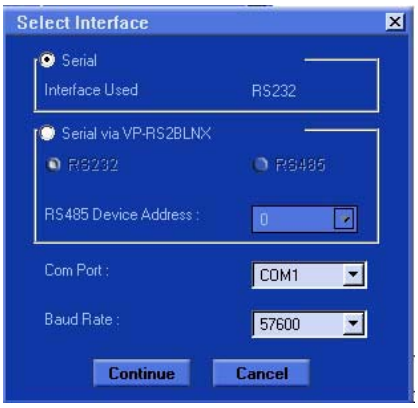


Figure 3.9 Select Interface

5. The application attempts to detect a device. If the application detects a device, it opens the **Overview** window (see Chapter 4). If the application does not detect a device, it opens the **Load Configuration** window.

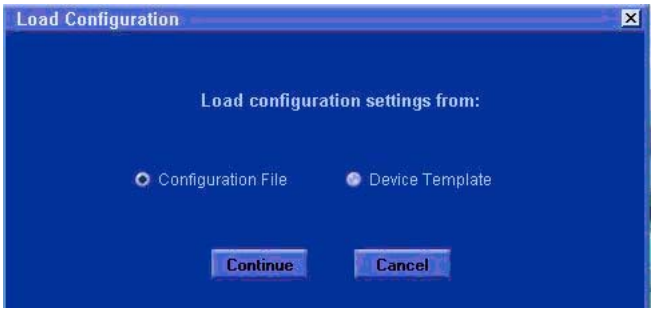


Figure 3.10 Loading the configuration window

6. To open an existing configuration file, click the **Configuration File** option, then click **Continue** and go to Step 7.

   - or -

   To create a new configuration file, click the **Device Template** option, then click **Continue** and go to Step 8.

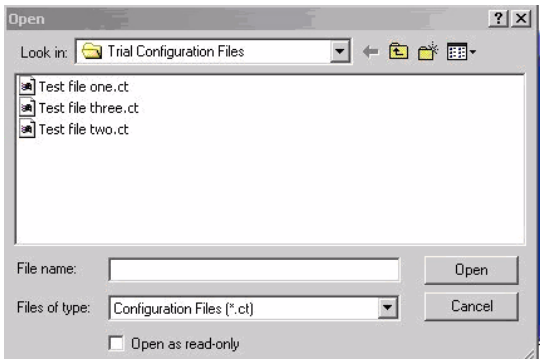


Figure 3.11 Opening the file dialog box

7. Navigate to the configuration file, then click **Open**. Proceed to Chapter 4.

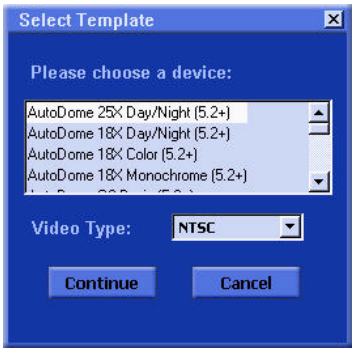
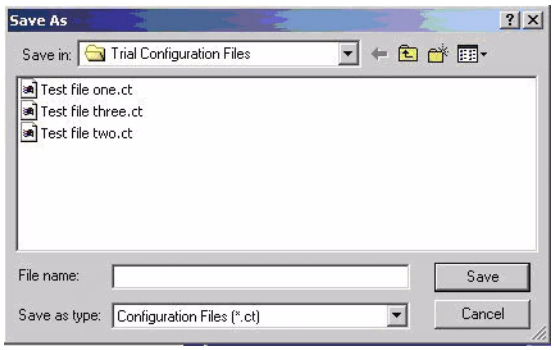


Figure 3.12 Choosing a device

8. Select the device for which you want to create a new configuration by highlighting its name. Then select a Video Type, **NTSC** or **PAL**, and click **Continue**. The application opens the **Overview** window with the default settings for the device displayed.
9. Make the changes to the template and click the **Save Configuration** button. The application opens the **Save As** dialog box.



10. Navigate to the folder where you want to save the configuration file.
11. Type a name for the configuration file in the **File name** field.
12. Click **Save**. The configuration file is saved in the specified folder.

4 Using the Configuration Tool

The CTFID main screen contains all the options for changing a template, configuring a live view, displaying specific device information, downloading information, changing device settings, and manipulating a device. By default, the CTFID opens the **Overview** window in the central workspace when started. The main screen is divided into four (4) segments, as illustrated in *Figure 4.1*.

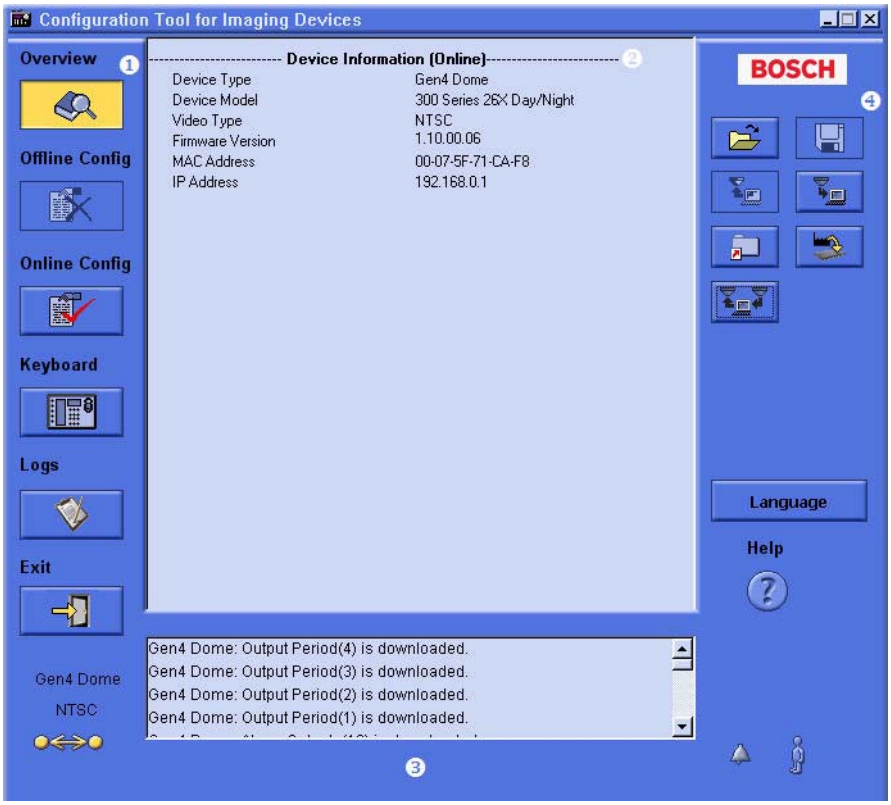


Figure 4.1 Overview/main window

Segment reference	Description	Function
1	Main menu column	The left-hand column represents the main menu, which includes the **Overview, Offline Config, Online Config, Keyboard, Logs**, and **Exit** buttons.
2	Central workspace	The middle section represents the central workspace, which includes device information or provides access to user settings.
3	System feedback	The bottom segment represents the system feedback, which includes device type, alarm, connectivity status, and motion information.
4	Operations column	The operations column includes buttons for creating, saving, uploading, downloading, restoring, printing, changing the language, and accessing the online Help system.

4.1 Main Menu Buttons

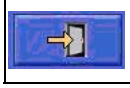
Button	Description
	Opens the **Overview** window. The **Overview** window displays general information about the device, the application environment, and the state of the application. The data includes specific device information.
	Opens the **Offline** mode window. The **Offline** mode window allows you to establish settings in a new configuration file or to modify settings in an existing configuration file. Note: The CTFID software allows two (2) files to be open simultaneously: – **Online** mode configuration file: contains the current settings for the connected device. – **Offline** mode configuration file: contains either the settings saved in a specific configuration file or the default device settings.
	Opens the **Online** mode window. The **Online** mode window displays the current settings for the device connected to the Configuration Tool software. Changes made to the settings in **Online** mode are reflected in the device.
	Opens the **Virtual Keyboard** window. The virtual keyboard controls various settings, depending on the device type. In **Online** mode, changing the settings on this screen automatically changes the settings on the device.
	Opens the **Logs** window. The **Logs** window allows you to download diagnostic information from the connected device. The downloaded diagnostic information can be saved as a text file. Note: The **Logs** button is enabled only when the CTFID software is connected to a VG4 Series AutoDome.
	Exits the Configuration Tool for Imaging Devices.

Table 4.1 Main menu buttons

4.1.1 Overview Window

The **Overview** window displays general information about the device, the application environment, and the state of the application. The data includes specific device information (see *Figure 4.1*).

4.1.2 Offline Mode Window

The **Offline** mode window establishes settings in a new configuration file, or changes settings in an existing configuration file. To start downloading and saving data so that it can be manipulated and uploaded to other devices, click the **Offline Config** button.

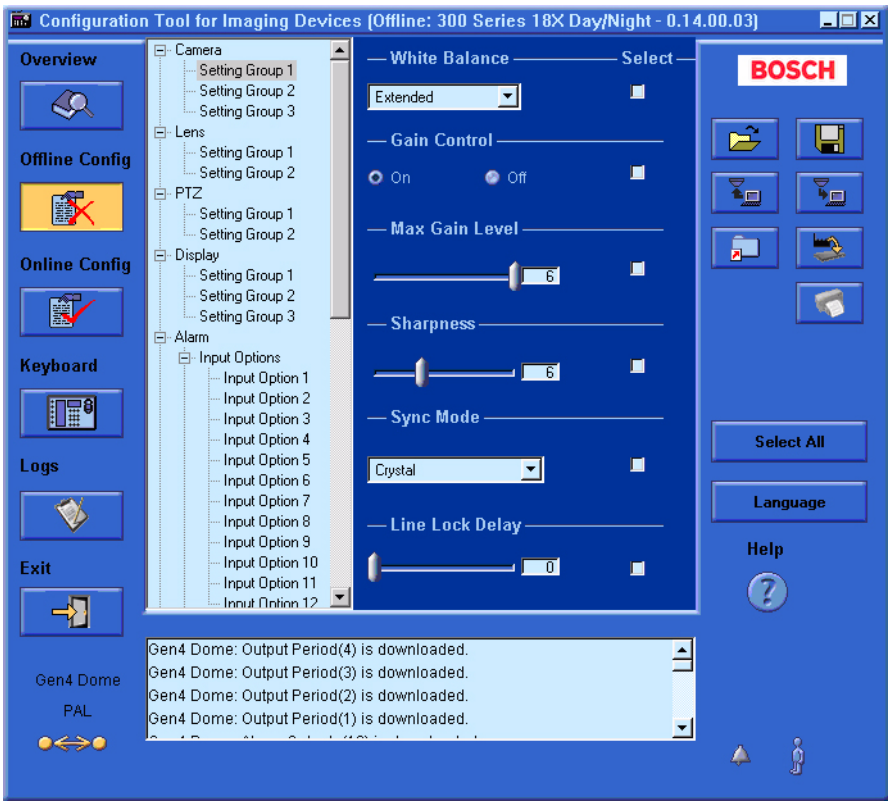


Figure 4.2 Offline mode window

The headings and settings tree are available based on the device selected. For detailed information about the possible settings, refer to the installation instructions manual for the specific device.

Overwriting the Configuration Settings

If you are working in an open file and would like to open another file in **Offline** mode, the following **Information** dialog box opens:

Figure 4.3 Information dialog box

The Information dialog box provides several options:

– Click **Yes** to open a **Save As** dialog box. Name the file and save it.
– If you click **No**, the changes to the file will not be saved. The Load Configuration dialog box opens. Choose a different file or device template.
– Click **Cancel** and the dialog box closes.

4.1.3 Online Mode Window

The **Online** mode window allows you to view the current settings of the device connected to the Configuration Tool for Imaging Devices. When device settings are changed in **Online**

mode, the changes are immediately conveyed to the remote device. To access the **Online** mode window, click the **Online Config** button.

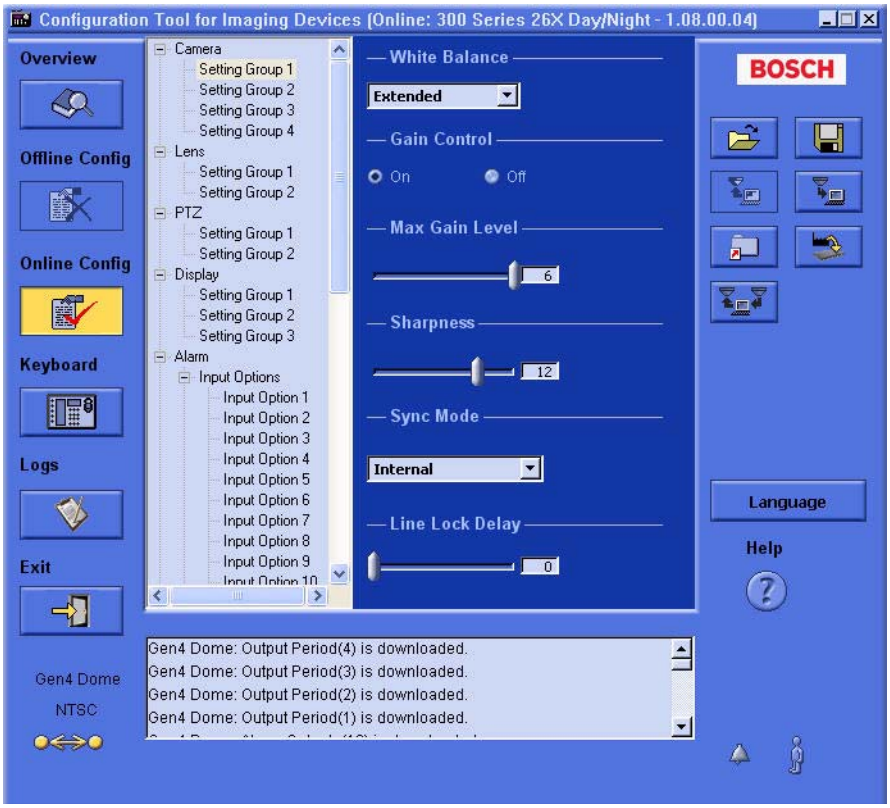


Figure 4.4 Online mode window

The headings and settings tree are available based on the device selected. For detailed information about the possible settings, refer to the installation instructions manual for the specific device.

4.1.4 Virtual Keyboard Window

To access the Virtual Keyboard window, click the **Keyboard** button. The Virtual Keyboard window allows setting adjustments. If a PC monitor is connected to the device, the effects of the setting changes can be viewed.

The layout of the Virtual Keyboard window varies depending on the device. The functionality described below may not be available on all devices.

VG4 Series AutoDome Pan/Tilt

Place the cursor on the Pan/Tilt control (see #1 *Figure 4.5*), then click and hold down the left mouse button. When used with a variable-speed device, the further the cursor is from the center of the control, the faster the device will pan. Double-click the left mouse button to lock the cursor to the control. Then, moving the mouse moves the device. A single left-click releases the cursor.

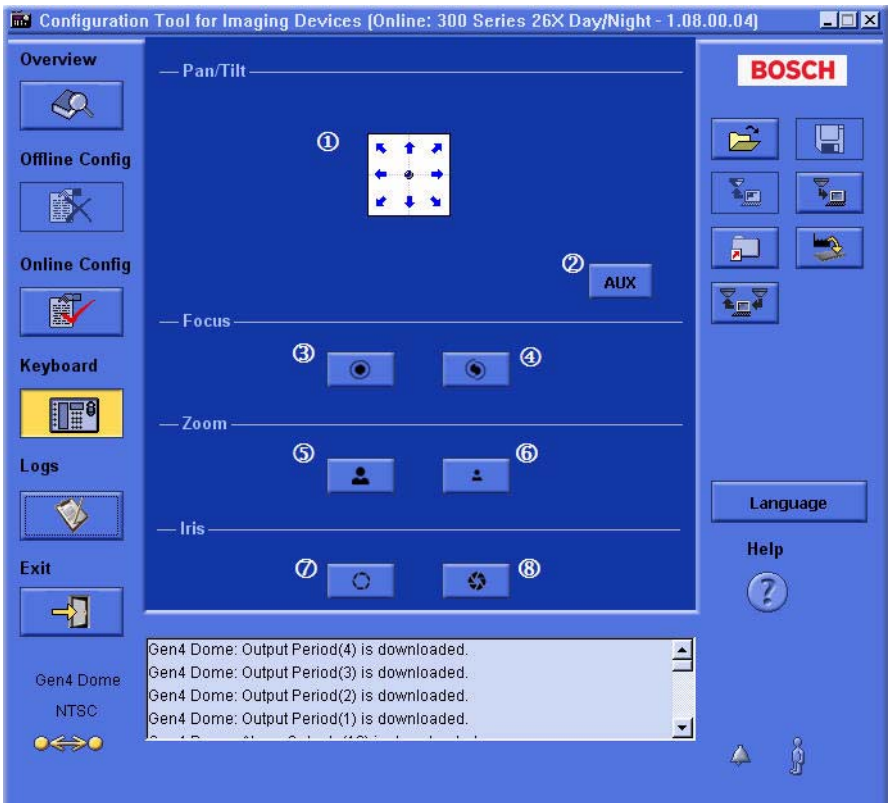


Figure 4.5 VG4 Series AutoDome Virtual Keyboard window

Number	Button	Description
1	Pan/Tilt	Moves the device.
2	AUX	Opens the **AUX** Commands dialog box.
3	Focus	Widens the scope of the focus lens.
4	Focus	Narrows the scope of the focus lens.
5	Zoom	Zooms in on the subject of the device.
6	Zoom	Zooms out and widens the field of view.
7	Iris	Increases the light level for proper exposure.
8	Iris	Decreases the light level for proper exposure.

Dinion Virtual Keyboard

Place the cursor on the **Enter** control (see #5 *Figure 4.6*), then click once to open the **Mode** menu; click once to open the submenus. Click and hold to open the **Install** menu; click once to open the submenus.

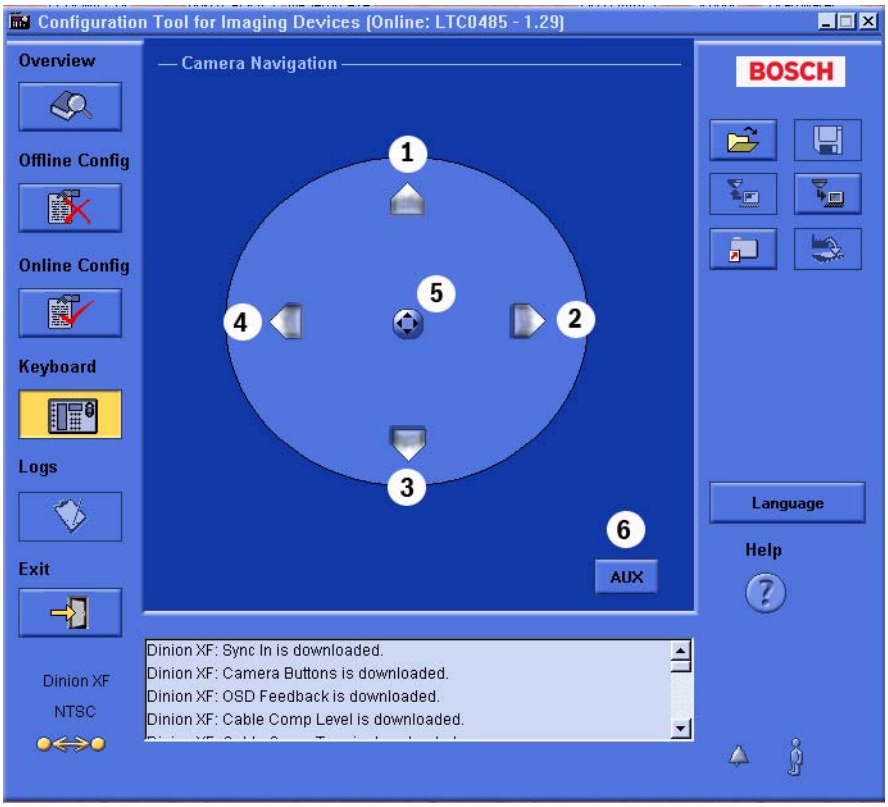


Figure 4.6 Dinion Virtual Keyboard window

Number	Button	Description
1	Pan/Tilt	Moves the cursor up.
2	Pan/Tilt	Moves the cursor to the right.
3	Pan/Tilt	Moves the cursor down.
4	Pan/Tilt	Moves the cursor to the left.
5	Enter	Opens menus and functions as an enter button.
6	AUX	Opens the **AUX** Commands dialog box.

4.1.5 AUX Commands Dialog Box

When you click the **AUX** button, the **AUX** Commands dialog box opens. The **AUX** Commands dialog box is designed to simulate the hardware keypad, and allows direct entry of the **AUX** command.

To enter an AUX command:

1. Select the command type radio button on the left.
2. Enter the four-digit number in the **Shot #** field (or click the four numerals via the keypad).
3. Click **Enter**.
   - The command is sent to the device. For a list of AutoDome and Dinion keyboard commands, refer to Chapter 8.
   - Although the **AUX** button is active for the FlexiDome and Unity Dome Series, no additional commands are available.
   - The **AUX** button is disabled for Dinion mid-range models (Dinion LTC 0355, Dinion LTC 0356, Dinion LTC 0435, Dinion LTC 0455, FlexiDome VF VDM-345 Series, FlexiDome XT VDM-355 Series, FlexiDome VF VDC-445 Series, FlexiDome XT VDC-455 Series).

Figure 4.7 AUX commands dialog box

Number	Description
1	Initiates camera movement to a shot. The shot is selected by entering a four-digit shot number in the **Shot #** field.
2	Defines a shot.
3	Turns on an auxiliary camera function.
4	Turns off an auxiliary camera function.
5	Displays numerical **AUX** commands entered.
6	Numerical keypad.

4.1.6 Logs Window

To access the **Logs** window, click the **Logs** button. The **Logs** window allows you to download and view the diagnostic log information from the connected device.

The **Logs** window is enabled only when a VG4 Series AutoDome camera is connected to the CTFID. The functionality described below may not be available for all devices.

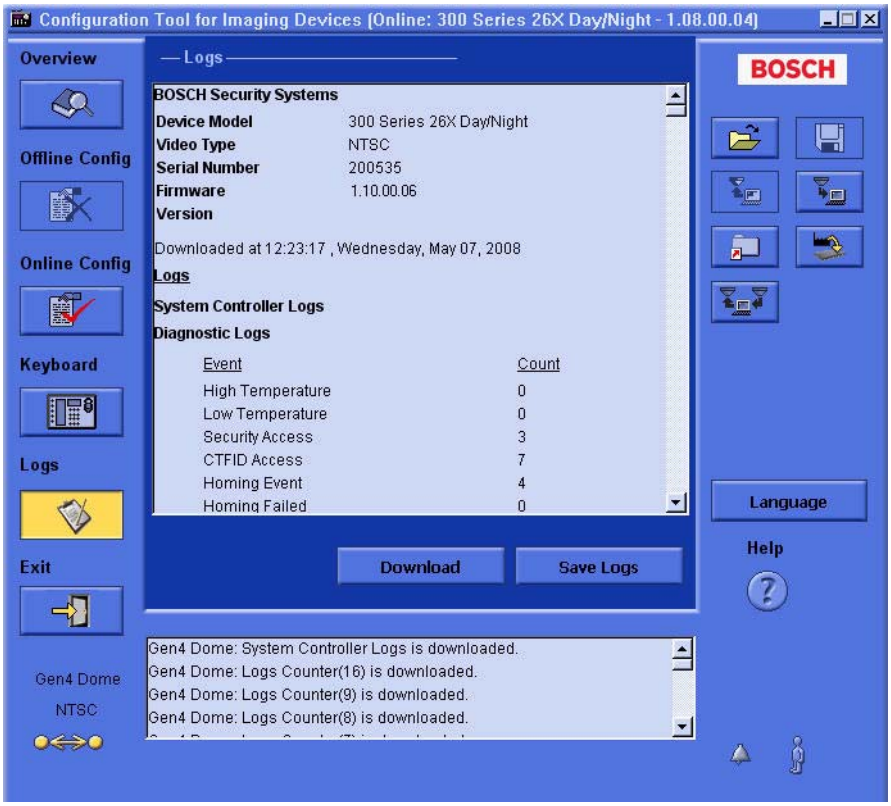


Figure 4.8 Logs window

How to Download and Save Diagnostic Log Information

1. Click the **Download** button.
2. Click the **Save Logs** button. The **Save As** dialog box opens.

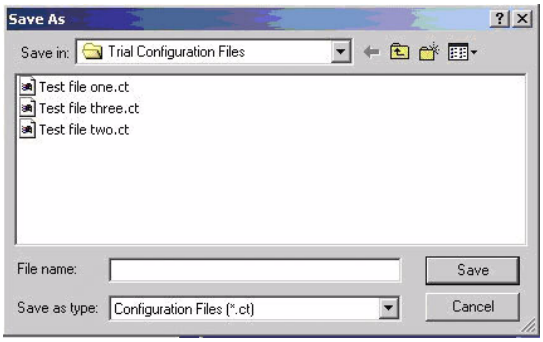


Figure 4.9 Save As dialog box

3. Navigate to the folder where you want to save the log file.
4. Type a name for the log file in the **File name** field.
5. Click **Save**. The configuration file is saved in the specified folder.

4.2 Central Workspace

The central workspace displays the main menu windows. For example, when the **Offline Config** button is clicked and a configuration file or device template has been selected, the central workspace displays a two-pane window. The settings tree and the windows in the central workspace vary, depending on the device selected. The settings are divided into different groups. For detailed information about the possible settings, refer to the installation instructions manual for the specific device.

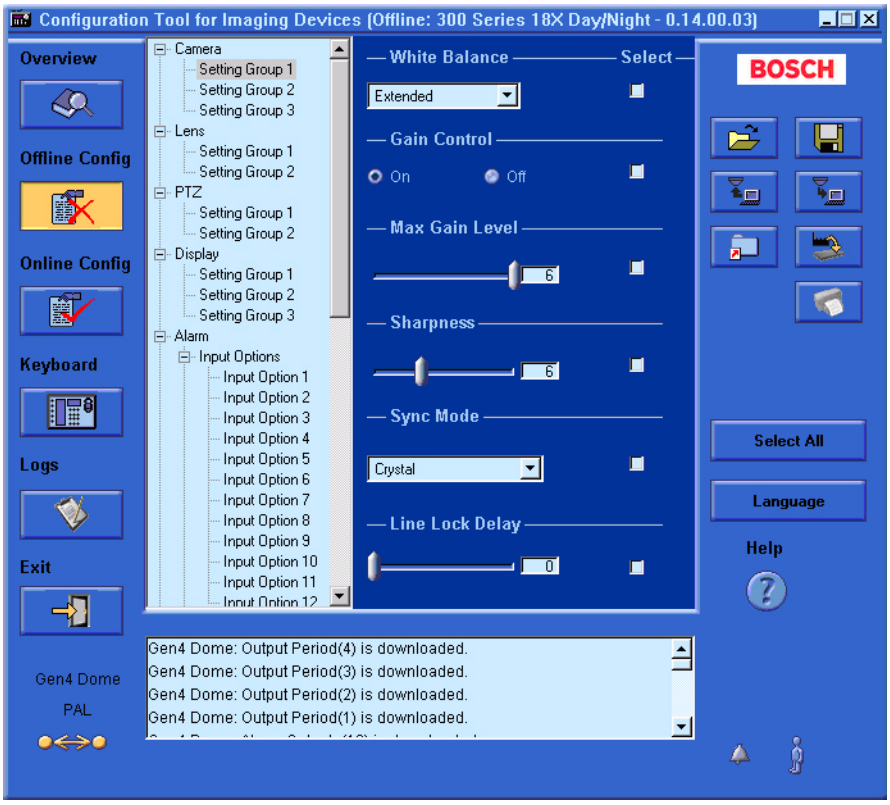


Figure 4.10 Offline configuration, settings tree, and device settings

4.3 System Feedback

The system feedback section includes device, alarm, and motion information. The **Status** text box displays specifics on the connected device in **Online** mode.

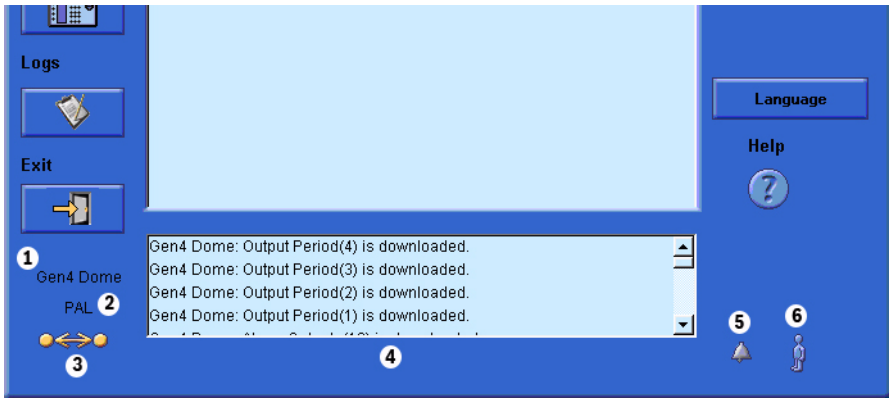


Figure 4.11 System feedback

Number	Description
1	Indicates the name of the device currently connected in **Online** mode.
2	Indicates the video type of the device currently connected in **Online** mode.
3	Confirms that the device is connected to the Configuration Tool for Imaging Devices. When a device is not connected, a red X appears. 
4	Confirms that the application is displaying the current device settings. Any changes made to the settings are immediately applied. Other messages may include: – Confirmation message: When you change settings on the device, the setting change is noted in this box. If no message appears, the device has not received the change. – Error message: If there is a problem with the device, an error message may appear. Possible causes may be a connection problem or an incompatibility issue.
5	Detects the alarm condition of a connected device (icon turns red). Click the icon to acknowledge the alarm; the icon then returns to its normal gray color. Note: When the VG4 Series AutoDome detects the alarm condition, the alarm icon turns red and remains red until the alarm condition is cleared. The VG4 Series will not acknowledge an alarm by the icon being clicked. Note: The **Alarm** icon will always be present, but the associated functionality may not be available for all devices.
6	Detects motion of a connected device (icon turns red). Click the icon to acknowledge the motion. The icon returns to its normal gray color. Note: The **Motion** icon will always be present, but the associated functionality may not be available for all devices.

4.4 Operations Column

Button	Description
	Creates a new or opens an existing configuration file. When in **Online** mode, the configuration file opens in **Offline** mode by default.
	Saves the configuration file on which you are working.
	Uploads the open configuration file to the device. The **Upload Configuration** button is only available when working in **Offline** mode.
	Downloads the configuration file from the device to **Offline** mode. Note: If you click this button when working in **Offline** mode and are not connected to a device, the following error message will appear: There is no compatible device currently connected.
	Uploads a firmware upgrade directly to the device. Note: Not available on the following models: Dinion LTC 0355, Dinion LTC 0356, Dinion LTC 0435, Dinion LTC 0455, FlexiDome VF VDM-345 Series, FlexiDome XT VDM-355 Series, FlexiDome VF VDC-445 Series, FlexiDome XT VDC-455 Series.
	Restores all settings in the device to factory defaults. Configuration Tool for Imaging Devices subsequently downloads all settings from the device. Note: The functionality described above is only available when a VG4 Series AutoDome camera is connected to Configuration Tool For Imaging Devices.
	Prints the offline configuration settings when in Offline mode.
	Migrates the current offline or online settings of one AutoDome to another AutoDome.
	Automatically checks all of the **Select** check boxes and uploads all changes to the device (only appears when in **Offline** mode). To upload only a few device settings, click the appropriate check boxes. The **Select** check boxes specifically note which changes are to be uploaded to the device. This is useful if only a few settings are to be changed. Uploading all of the settings can be a lengthy operation. – To upload all settings, click the **Select All** button; all check boxes are automatically checked. The button changes to **Deselect All**. – To remove all checks, click the **Deselect All** button.
	Changes the language displayed by the Configuration Tool software. Note: The application must be restarted in order to affect the language setting change.
	Accesses the Configuration Tool software **online Help system**.

Table 4.2 Operations buttons

5 Configuration Settings

The configuration buttons enable the user to upload and download setting changes from a device. It is more efficient to only download/upload the settings that have been modified. The configuration settings allow an operator to download the configuration settings of one AutoDome then upload those settings to another AutoDome. This feature ensures that the menu settings of each AutoDome in a surveillance system are configured the same way.
The CTFID saves downloaded settings in a configuration file (.ct) on the operator's computer. To upload the settings stored in the .ct file, the operator connects another AutoDome to the computer that contains the CTFID application and has access to the configuration file. Next, the operator uses the Load Config button to copy the settings in the configuration file to the AutoDome.

5.1 Downloading Configuration Settings

1. Click the **Offline Config** button or **the Online Config** button. The **Offline Configuration** window or **Online Configuration** window opens in the central workspace.

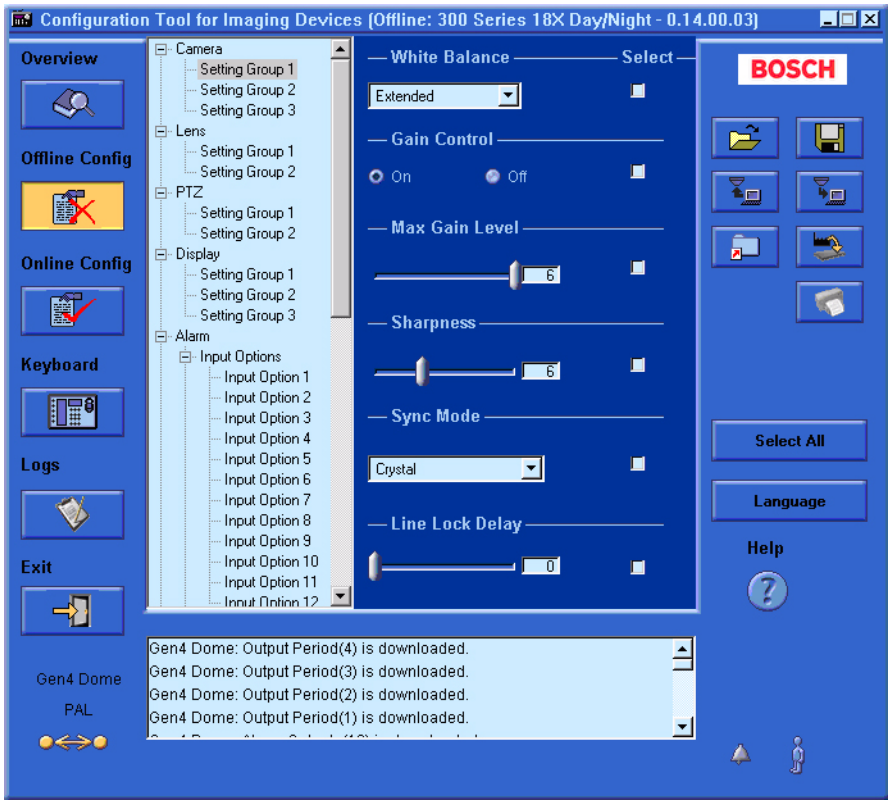


Figure 5.1 Offline configuration window

2. Click **Select All** or check the appropriate boxes for individual settings. If the **Download Configuration** button is pressed before selecting the check boxes, the following error is displayed:

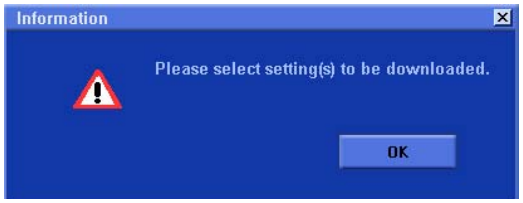


Figure 5.2 Information message

3. Click the **Download Configuration** button. The device settings are automatically downloaded into the application and displayed in the **Offline Configuration** window. This operation may be a lengthy process. A progress bar is displayed at the bottom of the window, indicating the status of the operation.

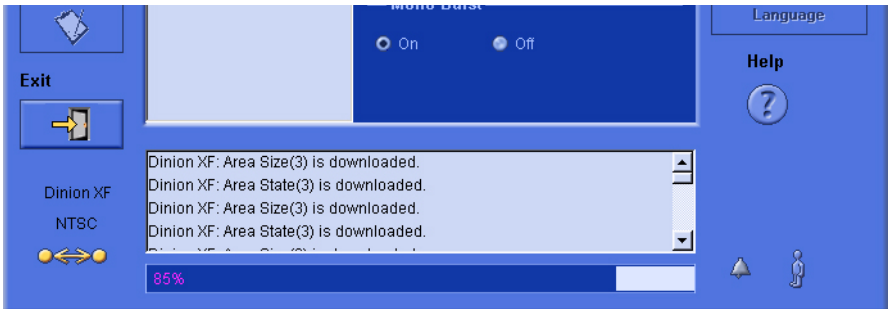


Figure 5.3 Progress bar

4. The following message is displayed:

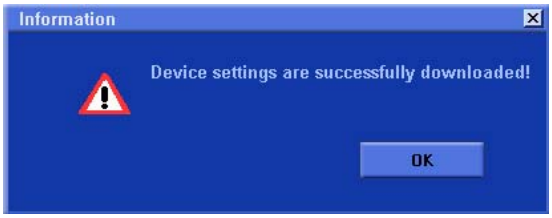


Figure 5.4 Confirmation message

How to Upload or Download Specific Setting Changes

5.2 Uploading/Downloading Specific Setting Changes

1. In **Offline** mode, open the configuration file that contains the current settings for the device.

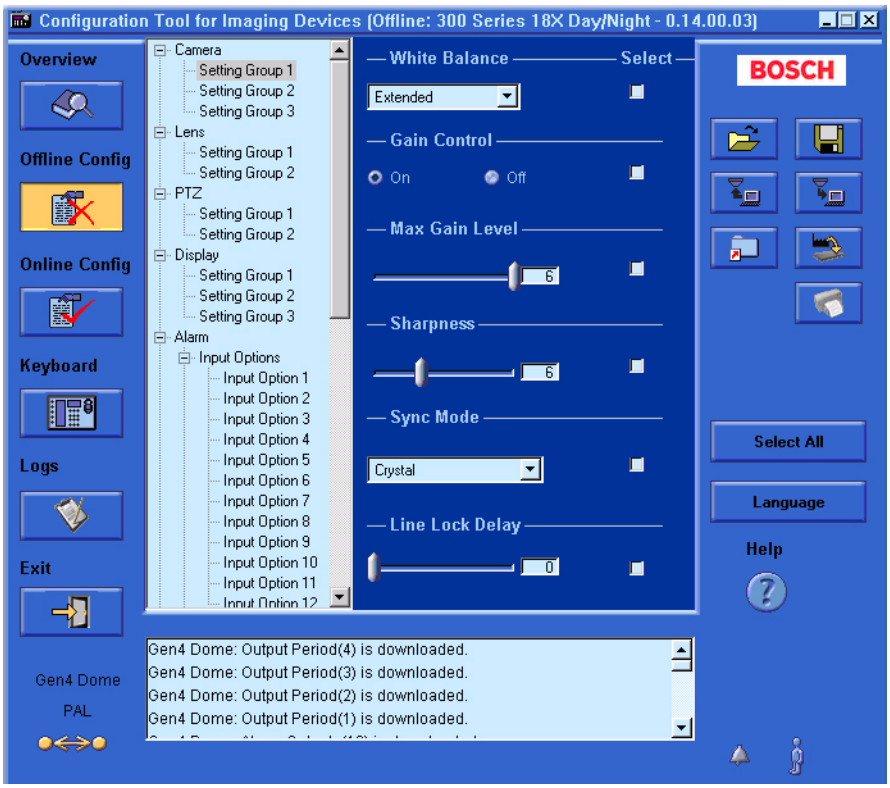


Figure 5.5 Uploading and downloading specific changes

If you do not have such a file, connect to the device in **Online** mode. The current settings are automatically downloaded upon connection. Click the **Save** button to display the **Save As** dialog box. Navigate to the folder where the file is to be saved. Name the file and click **OK**. In **Offline** mode, open the configuration file you saved.

2. Navigate to the setting(s) you want to change. For example, to change the **Max Gain Level** on an AutoDome Security Camera, navigate to the **Offline Configuration** window, **Camera Setting Group 1**.
3. Move the **Max Gain Level slide** from 2 to 6.
4. Click the check box(es) in the **Select** column.
5. Click the **Upload** or **Download Configuration** button.
   A confirmation dialog box opens to confirm that you want to replace the selected settings in the offline configuration file with the specific current device settings. Only the selected settings are uploaded or downloaded.

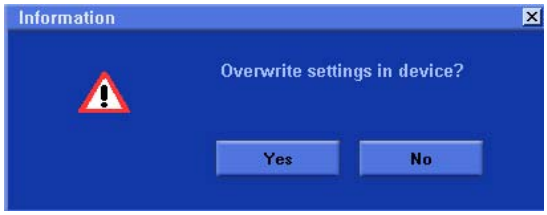


Figure 5.6 Confirmation of overwriting settings

6. Click **Yes** to begin uploading or downloading the settings. Since this can be a lengthy operation, depending on the number of configuration changes made, a progress bar is displayed at the bottom of the window to indicate the progress status of the operation (see *Figure 5.3*).
7. A confirmation message is displayed.

Figure 5.7 Confirmation message

If you have a number of devices that require the same change of settings, you can move from device to device, leaving the application open and uploading or downloading the same Select settings from the **Offline** mode configuration file. The Select check boxes are NOT saved when you save and close the configuration file.

5.3 Changing an Existing Configuration File

1. Open the configuration file (see *Section 3.4 Accessing the CTFID Application*, page 13).
2. Navigate to the window that displays the setting(s) that you want to change.

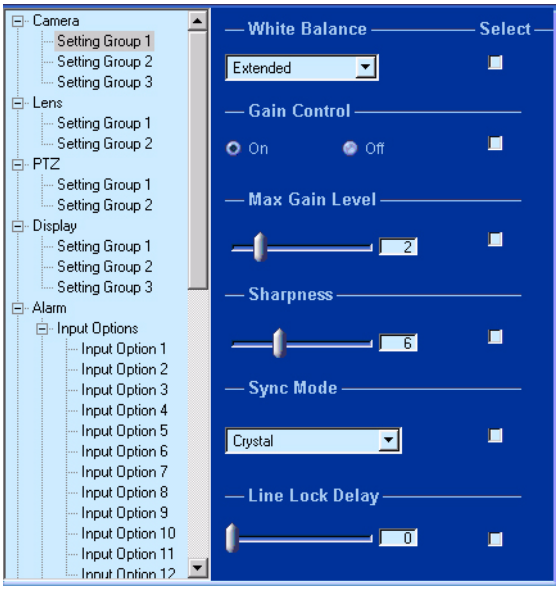


Figure 5.8 Settings tree display window

3. Click the **Save Configuration** button.

5.4 Uploading All Configuration Settings to a Device

1. In **Offline** mode, either create a new configuration file or open the configuration file that contains the settings to upload.
2. Click **Select All**. The **Select** check boxes are all checked.
3. Click the **Upload Configuration** button.
   A confirmation dialog box opens to confirm you want to replace the current device settings with those in the offline configuration file.

Figure 5.9 Confirmation of overwriting settings

4. Click **Yes** to begin uploading the settings. Depending on the number of configuration changes made, a progress bar is displayed at the bottom of the window to indicate the progress status of the operation (see *Figure 5.10*).

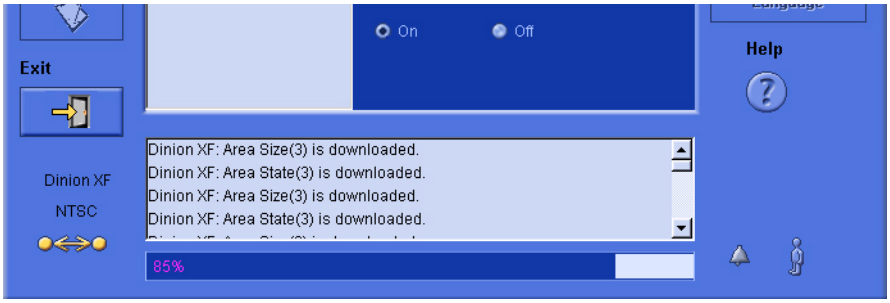


Figure 5.10 Progress bar indicator

5. The CTFID displays a confirmation message.

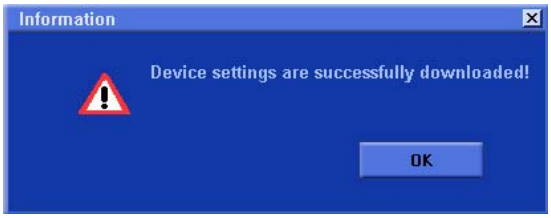


Figure 5.11 Confirmation message

5.5 Migrating Data

The Migration feature allows an operator to download and save the configuration settings and the PTZ coordinate data such as privacy/virtual mask of the AutoDome before a firmware upgrade is completed. This feature ensures that the PTZ data will not need to be reprogrammed after a firmware upgrade.

The CTFID saves downloaded settings in a configuration migration file (.ctm) on the operator's computer. To upload the settings after the firmware upgrade is completed the operator reconnects the same AutoDome to the computer and restores the data. Next, the operator uses the Migration upload utility to copy the settings in the configuration file to the AutoDome.

Note: Migration is available for transferring settings only for the 200, 300, and 500 Series AutoDomes. If you attempt to migrate settings between an AutoDome and another imaging device or between two non-AutoDome imaging devices, the CTFID relays a message that the imaging devices are incompatible.

1. Connect an AutoDome to a computer that contains the CTFID application.
   Ensure that you can connect this computer to the AutoDome that is to upload the configuration settings.
2. Launch the CTFID application on a computer that you can connect to different AutoDomes.
3. Configure the offline or online settings for the AutoDome using the CTFID main screen.

4. Click the **Migration** button.

Figure 5.12 Migration window

5. Select the **Download** radio button and click OK.
   The CTFID collects the parameters for each AutoDome setting, then opens the Save As dialog box.

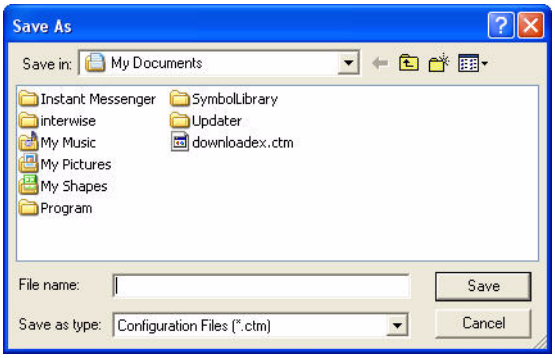


Figure 5.13 Migration Save As dialog box

6. Navigate to the directory in which you want to store the configuration file (.ctm).
7. Type a name for the file in the File name input box and click **Save**.
   You return to the CTFID main screen.
8. Follow the firmware upgrade procedure *Section Figure 5.7 Confirmation message, Page 30*. (DELETED STEPS 9 and 10)
9. Click the **Migration** button and select the Upload radio button.

Figure 5.14 Migration window

10. Click **OK**.
    The CTFID opens the Open dialog box.

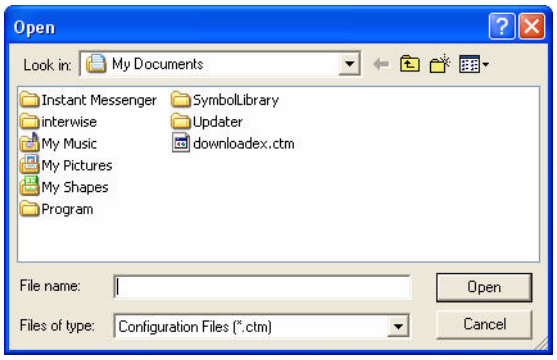


Figure 5.15 Migration Open dialog box

11. Navigate to the directory that contains the configuration file, then select the file (.ctm) and click **Open**.
    The CTFID begins to upload the settings in the configuration file to the AutoDome.

5.6 Downloading Diagnostic Log Information

The **Logs** window allows you to download and view the diagnostic log information from the connected device.

1. Click the **Logs** button.

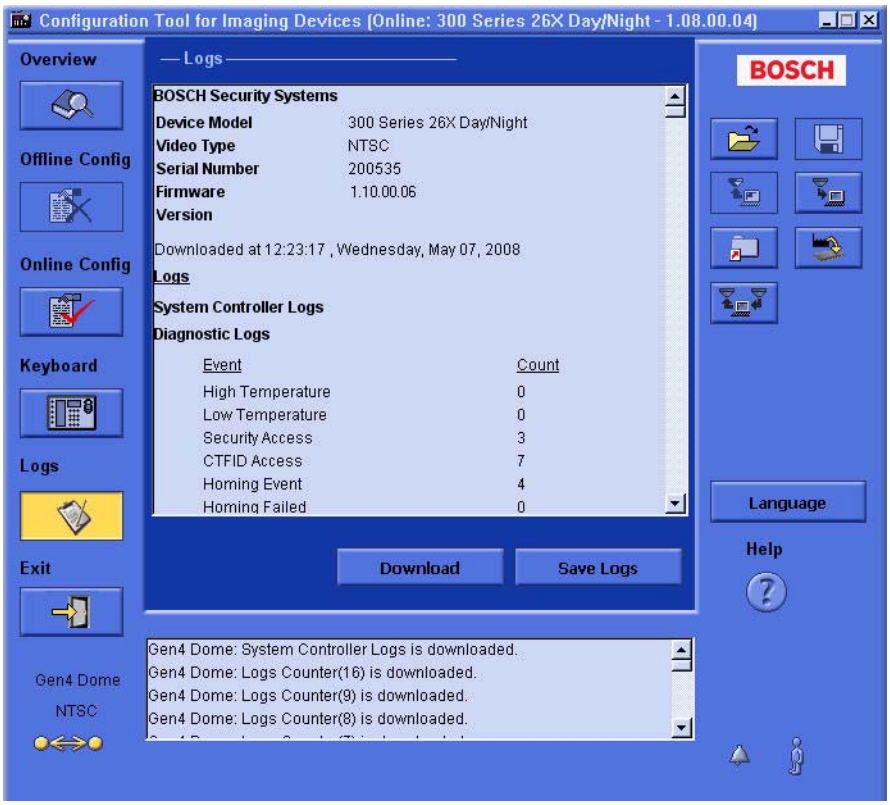


Figure 5.16 Logs window download diagnostic log information

2. Click the **Download** button.
3. Click the **Save Logs** button.

The **Logs** window is only enabled when a VG4 Series AutoDome camera is connected to the Configuration Tool for Imaging Devices. The functionality described may not be available for all devices.

5.7 Uploading Firmware to a Device

To upload firmware to a device, updates are available on the boschsecurity.com website or call technical support for information on receiving a CD-ROM.

1. Click the **Upload Firmware** button.

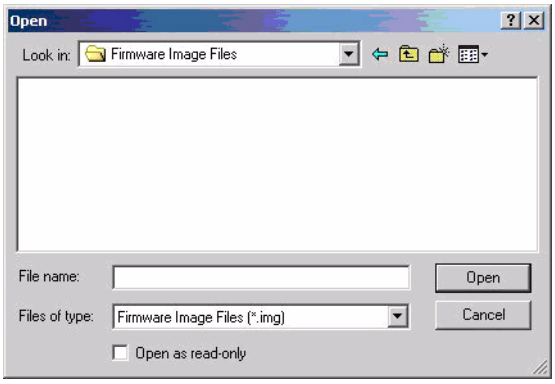


Figure 5.17 Open File dialog box

2. Navigate to the folder that contains the .img file.
3. Double-click the .img file to execute the upgrade. The upload process erases the existing firmware and loads the new firmware into the device.

5.8 Uploading Firmware to a VG4 Series AutoDome

To upload firmware to a device, updates are available on the boschsecurity.com website or call technical support for information on receiving a CD-ROM. Refer to the *VG4 Firmware Update Manual* for more information about upgrading a VG4 Series AutoDome with the CTFID tool.

1. Click the **Upload Firmware** button.

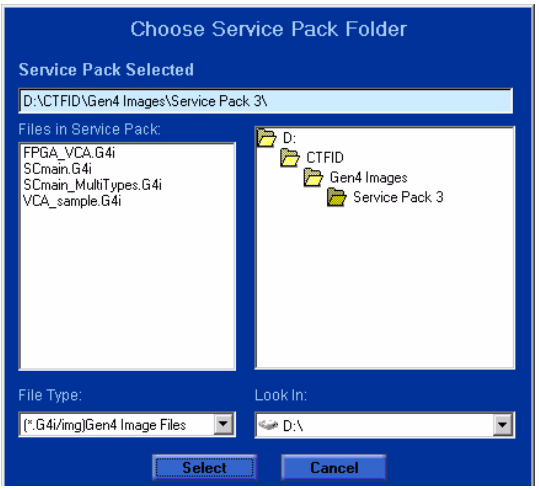


Figure 5.18 Service Pack dialog box

2. Navigate to the **Service Pack** folder.
3. Click the **Select** button.

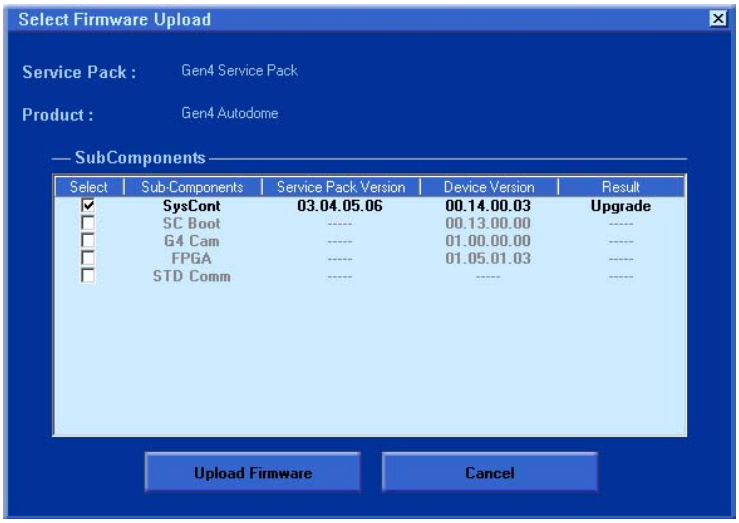


Figure 5.19 Firmware upload selection dialog box

4. Select the subcomponents you want to update.
5. Click the **Upload Firmware** button. The upload process erases the existing firmware and loads the new firmware into the device.

6 Settings Tree Options

Options available within the settings tree will vary depending on the device selected. Refer to the table below for available features.

Feature	Description	Device	Default	Options
Action	Enables the operating mode to be selected when an alarm is activated.	Dinion^{XF}	None	None, Mode 1, Mode 2, Mode 3
Active	Controls how the alarm input is activated. Options include: **None** - Disabled. **High** - Alarm is activated when a logic high is received. **Low** - Alarm is activated when a logic low is received.	Dinion^{XF}	None	None, High, Low
Address	Allows the appropriate dome to be operated via the numerical address in the control system. The address may be set locally using the Bilinx Configuration Tool for Imaging Devices (CTFID) or remotely using the Fast Address function (see Fast Address).	G3A Series, ENV Series, VG4 Series	0000	(none)
Alarm Input	Triggers an alarm when the input changes the condition. Options include: **N.O.** (Normally Open, dry contact). **N.C.** (Normally Closed, dry contact). **N.C.S.** (Normally Closed Supervised contact, available only for alarm inputs 1 and 2). **N.O.S.** (Normally Open Supervised contact, available only for alarm inputs 1 and 2).	VG4 Series	N.O.	N.O., N.C., N.C.S., N.O.S.
ALC Level (Automatic Light Control)	Automatically adjusts the camera according to the brightness of the scene.	Dinion^{XF} Dinion FlexiDome Unity	0	-15 to +15
ALC Speed (Automatic Light Control)	Controls the speed for the video-level control loop.	Dinion^{XF} Unity	Medium	Fast Medium Slow
Area Select	Controls the quadrant that you are editing.	Dinion^{XF}	1	1 to 4

Feature	Description	Device	Default	Options
Area State	Actively checks for motion in a predefined area.	Dinion^{XF}	On	On, Off
AutoBaud	Activates AutoBaud.	VG4 Series	On	On, Off
Auto Black	Boosts the video signal level to produce a full amplitude video signal even when the scene contrast is less than full range (e.g. glare, fog, mist etc.). The darkest part of the signal is set to black and the lightest part to white, thus increasing the contrast.	Dinion^{XF} Dinion FlexiDome Unity	On	On, Off
Auto Focus	Continuously adjusts the lens automatically to the correct focus for the sharpest picture. Options include: **Spot** - Adjusts the auto focus to the center of the image. **Constant** - Sets the auto focus to on for the entire image. **Manual** - Disables the auto focus and sets the focus for manual operation.	G3A Series, ENV Series, VG4 Series	Manual	Spot, Constant, Manual
Auto Iris	Automatically adjusts the lens to allow the correct illumination of the camera sensor. This type of lens is recommended for use where there are low light or changing light conditions. Options include: **Constant** - Sets the auto iris function to a constant value for auto iris operation. **Manual** - Disables the auto iris function and sets the iris control for manual operation.	G3A Series, ENV Series, VG4 Series	Constant	Constant, Manual
Auto Iris Level	Increases or decreases brightness according to the amount of light.	G3A Series, ENV Series, VG4 Series	8	1 to 15
Auto Pan Speed	Continuously pans the camera at a speed between right and left limit settings.	G3A Series, ENV Series, VG4 Series	30	1 to 60
Auto pivot	Tilts the camera through the vertical position as the camera is rotated to maintain the correct orientation of the image.	G3A Series, ENV Series, VG4 Series	On	On, Off

Feature	Description	Device	Default	Options
Auto SensUP Max	Sets the limit for sensitivity when the shutter speed is set to Auto SensUP.	VG4 Series	15x	2x, 4x, 7.5x, 15x
AUX	Enters the Aux Command dialog box where you send control commands to the camera.	VG4 Series	0	0-99 See *Section 8 AUX Keyboard Commands, Page 51*.
B-gain	Adjusts the blue gain to optimize the white point.	Dinion^{XF} LTC 0485, LTC 0610, LTC 0495, LTC 0620, Dinion LTC 0435, LTC 0455, FlexiDome VF VDC-445 and XT VDC-455, Unity Dome	0	-5 to +5
Backlight Compensation (BLC)	Optimizes the video level for the selected area of the image. Parts outside this area may be underexposed or overexposed.	G3A Series, ENV Series, VG4 Series, Dinion^{XF}, Dinion, FlexiDome, Unity	Off	On, Off
Baud Rate	The speed at which telecommunicated data is transmitted, measured in bytes per second (Bps).	G3A Series, ENV Series, VG4 Series*	9600	9600, 19200, 38400, 57600 2400*, 4800*, 9600*, 19800*, 38400*, 57600*
BiPhase/Audio	Turns BiPhase/Audio on and off. (Note: Audio is intended for a VG4 with an Ethernet module. Selecting audio disables Biphase communications.)	VG4 Series	BiPhase	BiPhase, Audio
Black Level	The level of the video signal that corresponds to the maximum limits of the black areas of the picture.	Dinion^{XF}	0	-55 to +55
Blanking	Cuts off the electron beam in a camera pickup device or picture tube during the retrace period. It is a signal that is composed of recurrent pulses at line and field frequencies. It is intended primarily to make the retrace on a pickup device or picture tube invisible.	G3A Series, ENV Series, VG4 Series	Not Blanked	Not Blanked, Blanked

Feature	Description	Device	Default	Options
BLC Level	Electronically compensates for high background lighting to give detail that would normally be silhouetted.	Dinion^{XF} Unity	0	-15 to +15
Cable Comp Level	Prevents image degradation caused by signal losses when transmitting video over long cable lengths.	Dinion^{XF}	(not active)	0 to 15
Cable Comp Type	Allows you to choose the coax being used. If unknown, select Default. Note: Anything above 1,000 ft may cause a decrease in picture quality.	Dinion^{XF}	Off	Off, Default, RG59, Coax 12, Coax 6
Camera Buttons	Prevents unauthorized change of the camera settings by disabling the buttons.	Dinion^{XF}, Dinion, FlexiDome, Unity	Enabled	Enabled, Disabled
Camera Height	The straight vertical height in respect to the surface that you are tracking.	G3A Series, ENV Series, VG4 500 Series	12 ft.	8 to 100 ft.
Camera ID	16-character camera name that may be displayed according to the ID position.	Dinion^{XF}	(blank field)	(blank field)
Camera OSD	Enables or disables the camera on-screen display information from the live video image.	G3A Series, ENV Series, VG4 Series	On	On, Off
Custom Tour Period	Defines the length of time for a custom camera tour.	VG4 Series	3 sec.	3-5 sec, 10, 15, 20, 25, 30, 40, 50 sec, 1-5 min, 10 min
Day/Night	Selects 3 modes of operation.	Dinion^{XF} LTC 0495, LTC 0610, FlexiDome 495, UnityDome DN VG4-162 and VG4-164, DN VG4-152 and VG4-154	Auto	Auto, Color, Monochrome
Default Shutter	Allows the shutter speed to be set to a fast speed to eliminate motion blur and provides detailed and clear images of fast-moving objects while there is sufficient light. When light levels fall and other adjustments have been exhausted, the shutter speed reverts to the standard setting to maintain sensitivity.	G3A Series, ENV Series, Dinion^{XF}, FlexiDome, Unity	1/60	1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/5000, 1/10000

Feature	Description	Device	Default	Options
Digital Zoom	Enables or disables the ability to enlarge or reduce the size of an image.	G3A Series, ENV Series, VG4 Series	On	On, Off
Display Position	Controls the position for the OSD stamping.	G3A Series, ENV Series, VG4 Series	0	0 to 16
Dynamic Noise Reduction	Measures the noise (image artifacts) in the picture and automatically reduces it.	Dinion^{XF}, Unity	Auto	Auto, Off
Filtermove	Activated when the filter changes.	Dinion^{XF}		
Focus Polarity	Capability to reverse the operation of the focus button on the controller.	G3A Series, ENV Series, VG4 Series	Normal	Normal, Reverse
Focus Speed	Controls how fast the auto focus will readjust when the focus becomes blurred.	G3A Series, ENV Series, VG4 Series	2	1 to 8
Freeze Frame	Holds a preposition video frame while moving to another preposition. The video is unfrozen once the new scene is reached.	VG4 Series	On	On, Off
G-Gain	Adjusts the green gain to optimize the white point.	Dinion^{XF} LTC 0485, LTC 0610, LTC 0495, LTC 0620, Unity	0	-50 to +50
Gain	An increase in voltage or power, usually expressed in dB.	Dinion^{XF}, Unity	AGC	AGC, Fixed
Gain Control	Automatically sets the gain to the lowest possible value needed to maintain a good picture.	G3A Series, ENV Series, VG4 Series, Dinion, FlexiDome	On	On, Off
Go to Shot	Switches to a predefined shot.	G3A Series, ENV Series	1	0 to 99
Heater	An internal heater that compensates for outdoor environments.	FlexiDome	Off	On, Off
Horizontal Phase	Adjusts the horizontal phase offset.	Dinion^{XF}, Dinion	0	-25 to 125

Feature	Description	Device	Default	Options
Inactivity	Selects the time period for which the dome must be not controlled before the inactivity event is executed. Options include: **Off**: Select Off when the dome should remain in the position. **Scene 1**: Select Scene 1 when the dome should go to Scene 1. **Previous Aux**: Select Previous Aux when the dome should go to the previous Aux value.	G3A Series, ENV Series, VG4 Series	Off	Off, Scene 1, Previous Aux
Inactivity Period	Determines the behavior of the dome when the control for dome is inactive.	G3A Series, ENV Series, VG4 Series	2 min.	3-5 sec, 10, 15, 20, 25, 30, 40, 50 sec, 1-5 min, 10 min
ID Position	Determines the position of the camera ID name.	Dinion^{XF}	Off	Off, Top, Bottom
IR Contrast	Optimizes the camera's contrast. Options include: **Enhanced**: The camera optimizes contrast in applications with high IR illumination levels. **Normal**: The camera optimizes contrast in mono application with visible light illumination.	Dinion^{XF} LTC 0495, LTC 0610, FlexiDome 495, UnityDome DN VG4-162 and VG4-164, DN VG4-152 and VG4-154	Normal	Enhanced, Normal
Iris Polarity	Capability to reverse the operation of the iris button on the controller.	G3A Series, ENV Series, VG4 Series	Normal	Normal, Reverse
Iris Speed	Controls how fast the iris will adjust the opening according to the illumination of the scene.	G3A Series, ENV Series, VG4 Series	5	1 to 10
Input	Selects the alarm input type.	G3A Series, ENV Series	Disabled	Disabled, N.O., N.C.
Input #/Output #	Defines the type of physical input/output.	VG4 Series	1	1 to 4
Input/Output Option	Defines a list of alarm inputs/ outputs for an alarm rule.	VG4 Series	None	Alarm Inputs 1-7, Alarm Output 1-3, Alarm Relay, OSD, Shot None, None Note: options vary based on the VG4 configuration

Feature	Description	Device	Default	Options
In Tour	Determines if the scene is included in a preposition tour.	G3A Series, ENV Series, VG4 Series	No	Yes, No
Language	Controls the language for the OSD.	G3A Series, ENV Series, VG4 Series*	English	English, French, Spanish, German, Portuguese, Polish, Italian*, Dutch*, Czech, Russian
Line Lock Delay	Adjusts the vertical line lock phase delay from 0° to 359°.	G3A Series, ENV Series, VG4 Series	0	0 to 359°
Low Pressure	Indicates if the unit is pressurized.	VG4 Series with pressurized environmental housing	On	On
Max Zoom Speed	Controls the zoom speed.	G3A Series, ENV Series, VG4 Series	Slow	Slow, Medium, Fast
Max Gain Level	Controls the maximum value the gain can have during AGC operation.	G3A Series, ENV Series, VG4 Series, Dinion^{XF}, Unity	6 6 20 20	1 to 6 1 to 6 0 to 28 0 to 28
Mode ID	10-character title.	Dinion^{XF}	24 Hour	
Mono Burst	Adjusts the color burst. Options include: **On**: The color burst remains active even when the camera is in monochrome mode. **Off**: The color burst in the video signal is switched OFF when the camera is in monochrome mode.	Dinion^{XF} LTC 0495, LTC 0610, FlexiDome 495, UnityDome DN VG4-162 and VG4-164, DN VG4-152 and VG4-154	Off	On, Off
Motion	The sensitivity number the camera detects in an active area.	Dinion^{XF}	0	None
Night Mode	Adjusts the filter operation of the camera. Options include*: **Auto**: Switches the filter depending on the scene illumination level. **On**: Removes the IR filter allowing full IR sensitivity. **Off**: Allows the IR filter to be available for color mode operation.	G3A Series, ENV Series, VG4 Series, Dinion, Unity	Auto Auto Auto Auto	Off, On, Auto Off, On, Auto Off, On, Auto Off, Forced, Auto
Night Mode Color	Switches an Auto IR filter in monochrome operation.	G3A Series, ENV Series, VG4 Series	Off	On, Off

Feature	Description	Device	Default	Options
Night Mode Threshold (IRE)	Adjusts the auto level at which the camera switches to monochrome operation.	G3A Series, ENV Series, VG4 Series	30	10 to 55
Orientation	Reverses the image 180 degrees (ideal when mounting upside down).	VG4 Series	Normal	Normal, Inverted
OSD (on-screen display)	Displays menu choices on screen.	G3A Series, ENV Series, Dinion^{XF}, Dinion, FlexiDome, Unity	On	On, Off
OSD Brightness	Adjusts the brightness for the OSD. The value 0 is for a dark display and 10 is for a bright display.	G3A Series, ENV Series, VG4 Series	0	0 to 10
Output Period	Controls the length of time the output relay is activated. **Follow**: Alarm output will remain activated for the same amount of time the alarm input is activated. **Latched**: Alarm stays on until the operator clears it.	G3A Series, ENV Series, VG4 Series	Follow	Follow, 1-5 sec, 10, 15, 30 sec, 1-5 min, 10 min Latched
Password	Controls access to locked command menus.	G3A Series, ENV Series, VG4 Series	0000	(none)
Peak Average	Adjusts the balance between peak and average video control. At 0 the camera controls the average video level, at +15 the camera controls the peak video level.	Dinion^{XF}, Unity	0	-15 to +15
Pre-Comp	Amplifies the video gain to compensate for long distance cable runs.	VG4 Series	1	1-10
Priority	Only available in day/night auto mode. The higher priority as selected below as light level decreases. Options include: **Color**: Camera gives a color image as long as the light level permits. **Motion**: The camera avoids motion blur as long as the light level permits.	Dinion^{XF} LTC 0495, LTC 0610 FlexiDome 495, UnityDome DN VG4-162 and VG4-164, DN VG4-152 and VG4-154	Color	Motion, Color
PTZ Fixed Speed	Controls the pan, tilt, zoom with a fixed speed value.	G3A Series, ENV Series, VG4 Series	4	1 to 15

Feature	Description	Device	Default	Options
R-gain	Adjusts the red gain to optimize the white point.	Dinion^{XF} LTC 0485, LTC 0610, LTC 0495, LTC 0620, Dinion LTC 0435, LTC 0455, FlexiDome VF VDC-455 and XT VDC-455, Unity	0	-5 to +5
Saturation	Adjusts the color saturation. A setting of -15 leads to a monochrome image.	Dinion^{XF} LTC 0485, LTC 0610, LTC 0495, LTC 0620, Unity	0	-15 to +5
Scene #	Switches between scenes.	G3A Series, ENV Series, VG4 Series	1	1 to 99
Sector #	Switches between sector names.	G3A Series, ENV Series, VG4 Series	1	1 to 16
Select	The trigger for the alarm output.	Dinion^{XF}	VMD	VMD, Remote
Sensitivity	Determines the amount of motion detected in a predefined area required to trigger the alarm output.	Dinion	0	0 to 100
Sensitivity Up	Increases camera sensitivity by increasing the integration time on the CCD. This is accomplished by integrating the signal from a number of consecutive video frames to reduce signal noise.	Dinion^{XF}, Unity	4x	Off, 2x, 3x, 4x, 5x, 6x, 7x, 8x, 9x, 10x
SensUp (Auto SensUp)	Increases camera sensitivity by increasing the integration time on the CCD. This is accomplished by integrating the signal from a number of consecutive video frames to reduce signal noise.	VG4 Series	15x	15x, 7.5x, 4x, or 2x
Sharpness	Adjusts the sharpness of the picture.	G3A Series, ENV Series, VG4 Series	6 6	1 to 16
Sharpness Level	Adjusts the sharpness of the picture.	Dinion^{XF}, Unity	0	-15 to +15

Feature	Description	Device	Default	Options
Shutter	Adjusts the electronic shutter speed (AES). Controls the time period for which light is gathered by the collecting device. Options include*: **Auto**: Allows the camera to automatically set the shutter speed. **AES**: Camera maintains the selected shutter speed as long as the light level of the scene permits. **FL**: Flickerless mode avoids interference from light sources (recommended for use with video iris or DC iris lenses only). **Fixed**: Allows a user-defined shutter speed.	G3A Series, ENV Series, VG4 300 and 500 Series, Dinion^{XF}, Dinion, FlexiDome, Unity	1/60 1/60 AES AES Fixed AES	Auto, 60x, 30x, 15x, 7.5x, 4x, 2x, 1/1, 1/2, 1/4, 1/8, 1/15, 1/30, 1/60, 1/90, 1/100, 1/125, 1/180, 1/250, 1/350, 1/500, 1/1000, 1/1500, 1/2000, 1/3000, 1/4000, 1/6000, 1/10000, Fixed, AES, FL*
Shutter Mode	Turns Auto SensUP on or off.	VG4 Series	Auto SensUp (VG4 Series 300 and 500 Series)	Auto SensUp, Off
Stabilization	An algorithm that virtually eliminates camera shake in both the vertical and horizontal axes, resulting in exceptional image clarity (see also Image Stabilization).	G3A Series, ENV Series, VG4 Series	On	On, Off
Standard Tour Period	Changes dwell time between presets during the tour.	VG4 Series	5 sec	3-5 sec, 10, 15, 20, 25, 30, 40, 50 sec, 1-5 min, 10 min
Sub Carrier Phase	When in Genlock, adjusts the sub carrier offset in 1-degree increments. Only available when in Genlock.	Dinion^{XF}, Dinion	0	0 to 358
Switch Level	Adjusts the auto level at which the camera switches to monochrome operation.	Dinion^{XF} LTC 0495, LTC 0610, FlexiDome 495, UnityDome DN VG4-162 and VG4-164, DN VG4-152 and VG4-154	0	-15 to 15

Feature	Description	Device	Default	Options
Sync In	Electronic pulses that are inserted in the video signal for the purpose of assembling the picture information in the correct position.	Dinion^{XF}	High	High, 75 Ohm
Sync Mode	Selects the synchronization method for the camera. Options include: **Crystal**: Synchronizes the camera to an internal crystal (default). **Line Lock**: Synchronizes the camera to AC power and eliminates picture roll in multi-camera systems.	G3A Series, ENV Series, VG4 Series Dinion^{XF}, Dinion, FlexiDome, Unity	Internal	Line Lock, Crystal - I, Internal, Genlock*
Synchronization	Selects the synchronization method for the camera.	Dinion^{XF}, Dinion, FlexiDome, Unity	0	Line Lock, Internal, Genlock, HV Lock*
Title	16-character scene name that is displayed when the Dome moves to a scene (must be enabled or disabled via the Title OSD).	G3A Series, ENV Series, VG4 Series	(blank field)	(blank field)
Title OSD	Controls how the camera displays the on-screen Sector and Scene titles. Options include: **Off**: No on-screen titles are displayed. **On**: Always displays on-screen titles. **Momentary**: On-screen titles displayed for a few seconds, then hidden (default).	G3A Series, ENV Series, VG4 Series	Momentary	On, Off, Momentary
Tour Period	Controls the waiting time until the dome moves to the next scene.	G3A Series, ENV Series, VG4 Series	5 sec.	3 sec. to 10 min.
Track	Alarm input option that turns the tracker on when the alarm is activated.	G3A Series, ENV Series	Off	On, Off
Tracker	Automated motion tracking system.	G3A Series, ENV Series, VG4 500 Series	Off	On, Off
Tracker Communication	Enables or disables communication between the camera and tracker module.	G3A Series, ENV Series	On	On, Off

Feature	Description	Device	Default	Options
Tracker Period	Controls the length of time the tracker is activated. **Follow Input**: Tracker remains activated for the same amount of time the alarm input is activated. **Latched**: Tracker stays on until the operator clears it.	G3A Series, ENV Series,	Follow Input	Follow Input, 1 sec. to 10 min., Latched
Transmit	Alarm input option that enables a Bilinx alarm message to be transmitted to the head end equipment.	G3A Series, ENV Series	Off	On, Off
Trigger	Alarm output option that selects the input to control the alarm output.	G3A Series, ENV Series	(none selected)	Input 1, Input 2, Input 3, Input 4
Vertical Phase	Adjusts the vertical phase offset.	Dinion^{XF}, FlexiDome, Unity	0	0 to 358
VMD (Video Motion Detection) Mode	Compares the current image with a reference image and counts the number of pixels that have changed between the two images. An alarm is generated when the number of pixel changes exceeds a user-configured threshold.	Dinion^{XF} Dinion	Off	On, Off, Silent, OSD
White Balance	Adjusts the color settings to maintain the quality of the white areas of the image.	G3A Series, ENV Series, VG4 Series	Auto	ATW, Indoor, Outdoor, AWB Hold, Extended
		Unity, Dinion	ATW	ATW, AWB Hold, Manual*
Wide Dynamic Range	Turns the wide dynamic range feature on or off.	VG4 300 and 500 Series	Off	On, Off
XF-Dynamic	Optimally captures the detail in both the high and low light areas of the scene simultaneously, maximizing the information visible in the picture.	Dinion^{XF}, Unity	Medium	Off, Low, Medium, High
Zoom Polarity	Capability to reverse the operation of the zoom button on the controller.	G3A Series, ENV Series, VG4 Series	Normal	Normal, Reverse

*Models and/or options may vary depending on the product.

7 Troubleshooting

The following section details information to confirm that the CTFID application is properly functioning.

7.1 Confirm System Connection between the PC and the Device

When the Configuration Software is started, the application automatically detects and connects to the attached device. The **Online Configuration** button is enabled when a connected device is detected. Settings for that device should download into the application.

To confirm that the device is connected to the application on the PC:

1. Verify that you are in **Online** mode (the **Online Configuration** button should have a yellow background).
2. Verify that the Connection Status Indicator icon (displayed in the **System Feedback** area) indicates that a connection has been made.

If the application is not detecting a connected device:

1. Check the device to ensure that it is working properly.
2. Verify that there are no loose connections between the Configuration Tool hardware and the PC and the Configuration Tool hardware and the device.
3. Verify that the green light on the Configuration Tool hardware is illuminated.
4. If necessary, disconnect the Configuration Tool hardware from the PC and reconnect it.
5. Review the **Status** text box in the **System Feedback** section (lower text box in the main screen). If the application is connected to a device, download confirmation messages will be displayed, as highlighted below:

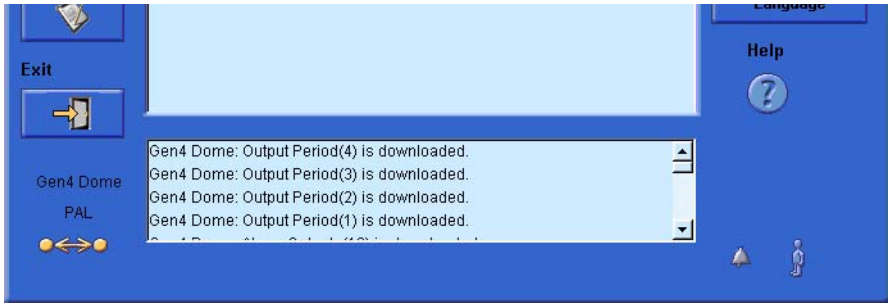


Figure 7.1 Online configuration window, status text box

7.2 Device Error

If you attempt to open a file that has been configured for a different device, a warning message is displayed. Click **OK** and open a file that has been correctly configured.

Figure 7.2 Device type error

7.3 Accessing the Version

1. The CTFID software version can be found by pressing the top left-hand icon within the CTFID application.

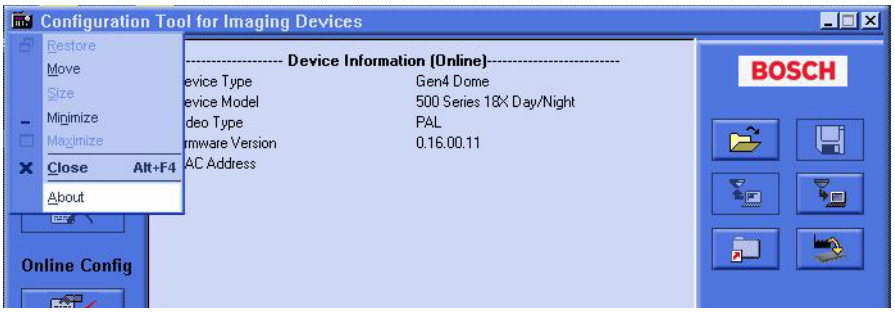


Figure 7.3 CTFID Icon

2. Scroll down and click **About**.
   For example, if the current version of the CTFID is 3.01.00.01, the **About** screen displays it as 3.01.

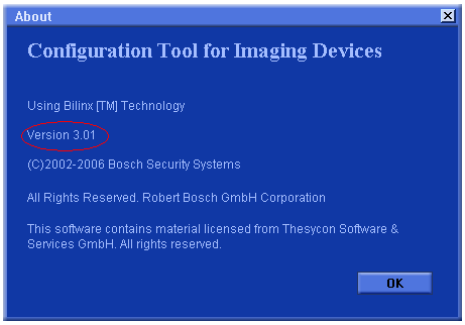


Figure 7.4 About screen

8 AUX Keyboard Commands

Locked	Function key	Comm no.	Command	Description	Series 200	Series 300	Series 500i	G3A ENV
	On/Off	1	Scan 360°	Autopan without limits	√	√	√	√
	On/Off	2	Autopan	Autopan between limits	√	√	√	√
√	On/Off	3	Iris Control	Enters menu (auto, manual)	√	√	√	√
√	On/Off	4	Focus Control	Enters menu (spot, auto, manual)	√	√	√	√
	On/Off	7	Play Custom Pre-position Tour	Activate/Deactivate		√	√	
	On/Off	8	Play Pre-position Tour	Activate/Deactivate	√	√	√	√
√	On/Off	9	Inactivity Mode	Enters menu (Off, Return to Scene 1, Recall Previous PTZ Command)	√	√	√	√
√	On/Off	11	Auto Iris Level adjust	Enters Iris Level Adjustment menu	√	√	√	√
	On/Off	14	Set Autopan and Scan Speed	On—increase Off—decrease or adjust slide bar	√	√	√	√
	On/Off	15	Set Pre-position Tour Period (dwell)	On—increase dwell Off—decrease dwell	√	√	√	√
√	On/Off	18	AutoPivot Enable	Enables/disables AutoPivot	√	√	√	√
	On/Off	20	Backlight Comp	Backlight Compensation	√	√	√	√
√	On/Off	23	Electronic Shutter	Enters Shutter Speed menu	√	√	√	√
	On/Off	24	Stabilization	Electronic Stabilization			√	√
√	On/Off	35	White Balance Mode	Enters White Balance menu	√	√	√	√
√	On	40	Restore Camera Settings	Restores all settings to their original defaults	√	√	√	√
√	On/Off	41	Line Lock Phase Adjust	On—increase Line Lock delay Off—decrease Line Lock delay	√	√	√	√
√	On/Off	42	Sync Mode	On—Line Lock Off—Internal	√	√	√	√
√	On/Off	43	Auto Gain Control	AGC—On, Auto, Off	√	√	√	√
√	On/Off	44	Sharpness	Enters Sharpness menu	√	√	√	√
√	On	46	Advanced menu	Enters Main Setup menu	√	√	√	√
	On	47	View Factory Settings	View all menu default settings	√	√	√	√
	On/Off	50	Playback A, continuous	Activate/Deactivate		√	√	√
	On/Off	51	Playback A, single	Activate/Deactivate		√	√	√
	On/Off	52	Playback B, continuous	Activate/Deactivate		√	√	√
	On/Off	53	Playback B, single	Activate/Deactivate		√	√	√
	On/Off	56	Night Mode menu	On, Off, Auto (Day/Night only)	√	√	√	√
	On/Off	57	Night Mode setting	On, Off, Auto (Day/Night only)	√	√	√	√
√	On/Off	58	Day/Night Threshold	On—menu (Day/Night only)	√	√	√	√
√	On/Off	60	On Screen Display	On—enable Off—disable	√	√	√	√
√	On	61	Display Adjust	Adjust on-screen display	√	√	√	√

Locked	Function key	Comm no.	Command	Description	Series 200	Series 300	Series 500i	G3A ENV
	On	62	Pre-position Title menu	Enters Pre-position Title menu	√	√	√	√
√	On	63	Zone Title menu	Enters Zone Title menu	√	√	√	√
	On	64	Alarm Status	Enters Alarm Status menu		√	√	√
	Off	65	Alarm Acknowledge	Acknowledge alarm or deactivate physical outputs		√	√	√
	On	66	Display software version	Displays software version number	√	√	√	√
	On	72	Re-initialize camera	Performs camera/lens re-initialization functions	√	√	√	√
	On/Off	78	AutoTrack	Turns AutoTrack on or off			√	√
√	On	79	Camera Height	Enters the Camera Height menu			√	√
√	On/Off	80	Digital Zoom Lock	Turns digital zoom on and off		√	√	√
	On/Off	81	Physical output 1	On—activates output Off—deactivates output		√	√	
	On/Off	82	Physical Output 2	On—activates output Off—deactivates output		√	√	
	On/Off	83	Physical Output 3	On—activates output Off—deactivates output		√	√	
	On/Off	84	Physical Output 4	On—activates output Off—deactivates output		√	√	
√	On/Off	86	Sector Blanking	Enters Sector Blanking menu		√	√	√
√	On/Off	87	Privacy Masking	Enters Privacy Masking menu		√	√	√
	On/Off	90	Command Lock/Unlock	On—lock on Off—lock off	√	√	√	√
√	On/Off	91	Lens Polarity menu	On—reverse Off—normal	√	√	√	√
√	On/Off	92	Lens Polarity menu	On—reverse Off—normal	√	√	√	√
√	On/Off	93	Lens Polarity menu	On—reverse Off—normal	√	√	√	√
	On/Off	100	Record A	Activate/Deactivate		√	√	√
	On/Off	101	Record B	Activate/Deactivate		√	√	√
	On	997	FastAddress, display	Display current address	√	√	√	√
	On	998	FastAddress, all units	Display and program current address	√	√	√	√
	On	999	FastAddress, unaddressed domes	Display and program unaddressed AutoDomes	√	√	√	√
	Set	“1-99”	Pre-position programming	Set ##—programs a preset view	1-64	√	√	√
	Shot	“1-99”	Pre-position recall	Shot ##—recalls programmed preset	1-64	√	√	√
	Set	100	Pre-position menu	Enters the Pre-position menu	√	√	√	√

Locked	Function key	Comm no.	Command	Description	Series 200	Series 300	Series 500i	G3A ENV
	Set/Shot	101	Autopan left limit	Set—programs left limit Shot—shows limit	√	√	√	√
	Set/Shot	102	Autopan right limit	Set—programs right limit Shot—shows limit	√	√	√	√
	Set	110	Factory P/T home position	Set—recalibrates home position	√	√	√	√
√	Set	802	Edit Password	Enters the Edit Password menu		√	√	√
√	Set	899	Reset ALL	Restores all settings to original defaults and clears all user-programmed settings	√	√	√	√
	Set	900	Edit Tour 1 (Standard)	Enters the Standard Tour Scene menu		√	√	
	Shot	900	Edit Tour 2 (Custom)	Enters the Custom Tour Scene menu	√	√	√	√
	Set/Shot	901-999	Adds/Removes a pre-position shot from Tour 1	Set ###—adds preset Shot ###—removes preset	901-964	√	√	√

Comm no.	Description
142	VLH debug values on the screen
143	WBH debug values on the screen
144	VLH/WBH debug values on screen
145	Color chart
146	White balance pixels

Although the **AUX** button is active on both the FlexiDome and Unity Dome Series, no additional commands are available.

Americas
Bosch Security Systems, Inc.
850 Greenfield Road
Lancaster, Pennsylvania 17601
USA
Telephone +1 888-289-0096
Fax +1 585-223-9180
Email: security.sales@us.bosch.com
www.boschsecurity.us

Europe, Middle East, Africa:
Bosch Security Systems B.V.
P.O. Box 80002
5600 JB Eindhoven, The Netherlands
Phone: + 31 40 2577 284
Fax: +31 40 2577 330
emea.securitysystems@bosch.com
www.boschsecurity.com

Asia-Pacific:
Bosch Security Systems Pte Ltd
38C Jalan Pemimpin
Singapore 577180
Phone: +65 6319 3450
Fax: +65 6319 3499
apr.securitysystems@bosch.com
www.boschsecurity.com