

AutoDome 100 Series Fixed Camera

en User Manual

BOSCH

Table of Contents

1	Camera Setup	4
1.1	Configuring the Camera	4
2	Positioning the Camera	5
3	Adjusting Focal Length (Zoom) and Focus	6
4	Advanced Setup	7
4.1	Accessing and Navigating Menus	7
4.2	Main Menu Function	8
4.2.1	Main Menu	9
4.2.2	ALC Submenu	9
4.2.3	ALC -> SHUTGAIN Submenu	9
4.2.4	ALC -> SHUTGAIN -> DAY/NIGHT Submenu	10
4.2.5	ENHANCED Submenu	11
4.2.6	COLOR Submenu	11
4.2.7	Back Light Compensation (BLC) Submenu	12
4.3	Install Menu Functions	12
4.3.1	Install Menu	13
4.3.2	CAMERA ID Submenu	13
5	Troubleshooting Guide	14
5.1	VG5 AutoDome Operation and Control	14

1 Camera Setup

Install and wire the 100 Series AutoDome according to the VG5 AutoDome Installation Manual. A typical system includes a keyboard, matrix switcher, monitor, and appropriate wiring connections. Please refer to the individual product manuals for complete installation and setup instructions for each of the system components.

1.1 Configuring the Camera

To assist setup, the VG5-100 Series camera module can be connected to a monitor through the miniature 2.5 mm monitor jack located on the camera circuit board. The monitor jack provides a composite video signal with synchronization. An optional cable (part number S1460) is available for making this connection.

To access the monitor jack, remove the bubble and covert liner:

- 1. Insert a small screw driver through the keyway in the Pendant trim-ring, rotate the dome bubble counterclockwise and remove the dome bubble. For In-Ceiling AutoDomes, you must loosen the small screw in the trim ring before rotating the bubble.
- Press and hold the two retention buttons on each side of the camera module and then pull off the covert liner. See the image below.
 Removing the covert liner provides access to the menu keys, and the pan and tilt thumbscrew adjustment locks.







Ref	Description
1	Front View
2	Back View
3	Retention Button (2)
4	Covert Liner
5	Menu Keyboard
6	Monitor Jack

2

Positioning the Camera

The camera module position can be adjusted along the horizontal, vertical, and diagonal (for azimuth) axes. When adjusting the position, ensure that the picture displayed on the monitor is level. After the covert liner is removed, position the camera by performing the following steps:

WARNING!

To prevent damage to the camera module do not rotate the camera past its stops.

- For horizontal (pan) adjustment, loosen the thumbscrew at the platform base and rotate the camera (left or right) to the desired position. The camera can be rotated up to 360° between stops. If it hits the stop before achieving the desired position, rotate it in the opposite direction. Retighten the thumbscrew to secure the camera.
- For vertical adjustment (tilt), loosen the thumbscrew at the tilt wheel and position the camera (up or down) to the desired position. The camera can be tilted up to 110° between stops. Retighten the thumbscrew to secure the camera.
- 3. To compensate for angled ceilings or sidewall mounts, push the camera inward toward its base and rotate it until the image on the monitor is horizontal. The camera can be rotated up to 300° between stops.

CAUTION!

The CCD image sensors are highly sensitive and require special care for proper performance and extended lifetime. Do not expose it to direct sunlight or bright spotlights in operating and non-operation conditions. Avoid bright lights in the field of view of the camera.



Ref	Description
1	Camera Module Lock Tab
2	Horizontal (pan) Thumbscrew
3	Tilt Wheel Thumbscrew
4	Diagonal Adj.

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User Manual

3

Adjusting Focal Length (Zoom) and Focus

To adjust the camera lens focal length and focus, perform the following steps:

- 1. Select Set Focus Now from the Install menu.
- 2. To adjust the focal length, loosen the focal (zoom) lock screw and rotate the lens mechanism (WIDE or TELE.) until you achieve the desired field of view. (Item 1, in the figure below).
- 3. To focus the image on the monitor, loosen the focus lock screw and turn the lens mechanism (NEAR or FAR) until the image is in focus.
- 4. Repeat both these adjustments until the desired view is in focus.
- 5. Tighten both adjustment screws.
- 6. Exit the Install menu.
- 7. Remove the monitor jack and replace the covert liner and dome bubble when finished.



Figure 3.1 Focus and Zoom Adjustment

4 Advanced Setup

The VG5-100 Series camera module normally provides an optimal picture without the need for further adjustments. Advanced setup options, however, are available for obtaining the best results from the camera under special circumstances. There are two upper level On-Screen Display (OSD) menus: the Main menu and the Install menu.

The Main menu allows you to select and setup the picture enhancement functions. The Install menu allows you to set the camera ID, focus and synchronization settings. The Main and Install menus have settings that you can select directly or open to submenus for a more detailed setup.

NOTICE!

Active menu selections can vary depending or the combination of camera, CPU and COMM (communication) modules used. The menu selections described in this manual are typical for a VG5-100 Series system.

4.1 Accessing and Navigating Menus

There are five (5) keys used for navigating through the various menus. To access the setup menus, press the center Select key to open and display the Main menu. Use the four directional keys to navigate through the menus.



Figure 4.1 Menu Keyboard and Monitor Jack

Ref	Description	Ref	Description
1	Menu Keyboard	5	Select Button
2	Monitor Jack	6	Right Button
3	Up Button	7	Down Button
4	Left Button		

Use the menu keys to perform the following:

- To access the Main menu or to select a sub-menu item, press the center Menu Select key.
- To open the Install menu press the Menu Select key for approximately 1.5 seconds.
- To scroll up or down a menu press the Up or Down keys.
- To move through options or to set parameters, press the Left or Right keys.

NOTICE!

To restore a selected menu item to its factory default, quickly press the Menu Select key twice.

To exit the OSD menus from any menu item, hold down the Menu Select key until the OSD disappears.

The VG5-100 Series also supports a variety of remote methods to make camera adjustments, including the following:

- A Universal keyboard using Bilinx over coax or UTP. For example, using a Bosch DiBos 8, a Bilinx capable DIVAR, or an Allegiant system.
- A PC running the optional Bosch Configuration Tool for Imaging Devices (CTFID) software with a USB Bilinx adapter (Part No. VP-CFGSFT).

NOTICE!

To prevent unauthorized changes to the camera settings, the camera menu buttons can be disabled using Bilinx communication through the CTFID software. Select the Online Config button, then select the Miscellaneous branch and set Camera Buttons to Disable.

4.2 Main Menu Function

This section provides a graphical representation of the Main menu and descriptions for all functions.



1. Available in Day/Night version cameras only, other versions show NightSense.

2. Only available when White Balance is set to Manual mode.

4.2.1 Main Menu

Function	Selections	Description	
ALC	Selects Submenu	Accesses the Auto Level Control menu.	
ENHANCE	Selects Submenu	Accesses the Picture Enhancement menu.	
COLOR	Selects Submenu	Accesses the Color Control menu.	
BLC	ON, OFF, or selects submenu	 Enables Back Light Compensation (BLC). 	
		 Accesses the BLC submenu. 	
EXIT		Exits this menu.	

4.2.2 ALC Submenu

Function	Selections	Description	
ALC LEVEL	(-15 to +15)	Adjusts the video output level.	
SHUTGAIN	Selects Submenu	Accesses the Shutter and Gain control menu.	
PEAK AVERAGE	(-15 to +15)	Adjusts the balance between peak and average	
		video control.	
ALC SPEED	ON, OFF, or selects	Adjusts the speed of the video level control loop.	
	submenu		
EXIT		Returns to the MAIN menu.	

4.2.3 ALC -> SHUTGAIN Submenu

Function	Selections	Description	
SHUTTER	AES, FL, FIXED	– AES (Auto Electronic Shutter): The camera	
		automatically sets the optimum shutter	
		speed.	
		– FL (Flickerless): Avoids interference from	
		light sources.	
		 FIXED: Allows the user to define the 	
		shutter speed.	
DEFSHUT	1/60 (1/50), 1/100, 1/120,	The camera tries to maintain the selected	
	1/250, 1/500, 1/1000,	shutter speed as long as the light level of the	
	1/2000, 1/5000, 1/10K	scene permits.	
		(Only available if SHUTTER is set to AES	
		mode.)	
FIXSHUT	1/60 (1/50), 1/100, 1/120,	Selects the shutter speed. (Only available if	
	1/250, 1/500, 1/1000,	SHUTTER is set to FIXED mode.)	
	1/2000, 1/5000, 1/10K		
SENSUP	OFF or (2x to 10x)	Selects the sensitivity factor the camera is set	
		to. (Only available if SHUTTER is set to AES	
		mode.)	
GAIN	AGC, FIXED	- AGC mode: The camera automatically sets	
		the gain to the lowest possible value	
		needed to maintain a good picture.	
		 FIXED mode: The gain is set at a 	
		predefined value.	
MAXGAIN	(0 to 26)	Selects the maximum value the gain can have	
		during AGC operation.	
FIXGAIN	(0 to 26)	Selects the gain setting. (Only available if GAIN	
		is set to FIXED mode.)	
DAY/NIGHT ³	Selects submenu	Accesses the Day/Night Control menu.	

Function	Selections	Description
NIGHTSENSE	AUTO, OFF, FORCED	 UTO mode: Camera automatically
		switches to NIGHTSENSE in low light
		conditions.
		 OFF mode: NIGHTSENSE is turned off.
		 FORCED mode: The camera is set to
		NIGHTSENSE (black and white) mode.
EXIT		Returns to the ALC menu.

3. Only available in Day/Night version cameras, color versions show NightSense.

NOTICE!

If SensUp is active, some noise or spots may appear in the picture. This behavior is normal. SensUp may cause some motion blur on moving objects.

Depending on the camera GAIN setting, unrelated menu items are not active.

4.2.4

ALC -> SHUTGAIN -> DAY/NIGHT Submenu

Function	Selections	Description
DAY/NIGHT	AUTO, COLOR, MONO	 AUTO: Switches the filter between COLOR
		and MONO depending on the scene
		illumination level.
		- COLOR: Use for normal daylight conditions.
		 MONO: Removes the IR filter, providing full IR
		sensitivity.
SWITCH LEVEL	(-15 to +15)	Sets the video leveling threshold when the camera
		switches to monochrome operation.
PRIORITY	COLOR, MOTION	in AUTO mode:
		- COLOR: Displays a color image as long as the
		light level permits.
		 MOTION: Avoids motion blur as long as the
		light level permits.
IR CONTRAST	NORMAL, ENHANCED	 NORMAL: Optimizes contrast in monochrome
		applications with visible light illumination.
		 ENHANCED: Optimizes contrast in
		applications with high IR illumination levels.
MONO BURST	ON, OFF	- ON: The color burst remains active, even in
		Monochrome mode.
		 OFF: The color burst in the video signal is
		switched OFF in Monochrome mode.
EXIT		Returns to the SHUTGAIN menu.



NOTICE!

Depending on the camera's DAY/NIGHT setting, unrelated menu items are not active.

4.2.5 ENHANCED Submenu

Function	Selections	Description	
AUTO BLACK	ON, OFF	ON: Automatically increases the	
		visibility of details.	
SHARPNESS (-15 to +15)		Adjusts the sharpness of the picture.	
		Zero (0) is the default position.	
DNR	AUTO, OFF	AUTO: Automatically reduces the noise	
(Dynamic Noise Reduction)		in the picture. This option may cause	
		some motion blur with moving objects.	
		OFF: DNR is turned off.	
XF-DYN	OFF, LOW, MID, HIGH	XF-DYN mode: Automatically optimizes	
		picture contrast.	
EXIT		Returns to the MAIN menu.	

4.2.6

COLOR Submenu

Function	Selections	Description	
WHITE BALANCE	ATW, AWB HOLD, MANUAL	- ATW (Automatic White Balance): Allows	
		the camera to constantly adjust for	
		optimal color reproduction.	
		- AWB HOLD: Puts the ATW on hold and	
		saves the color settings.	
		- MANUAL: Allows the red, green and blue	
		gain to be set manually to a desired	
		position.	
WB SPEED	Slow, Medium, Fast	Adjusts the speed of the white balance	
		control loop when in ATW mode	
RED-GAIN	(-5 to +5)	 In ATW mode: Adjusts the red gain to 	
		optimize white.	
RED	(-30 to +30)	 In Manual mode: Adjusts red gain. 	
GREEN	(-5 to +5)	In Manual mode: Adjusts the green gain. (Not	
		available in ATW mode.)	
BLUE-GAIN	(-5 to +5)	 In ATW mode: Adjusts the blue gain to 	
		optimize white.	
BLUE	(-30 to +30)	– In Manual mode: Adjusts the blue gain.	
SAT	(-15 to +5)	Adjusts the color saturation. (-15 produces a	
		monochrome picture.)	
EXIT		Returns to the MAIN menu.	

4.2.7	Back Light Compensation (E	BLC) Submenu

Functions	Selections	Description
BLC	ON, OFF	ON: The video level optimizes the selected area of the
		image. Parts outside this area may be underexposed or
		overexposed, which is normal.
BLC LEVEL	(-15 to +15)	Adjusts the balance between the selected BLC area and its
		surroundings.
BLC AREA	Selects submenu	Accesses the Back Light Compensation area menu. To size
		the BLC area:
		 Select the AREA option from the BLC menu. The
		monitor displays the current area with the upper left
		corner flashing.
		– Move the flashing corner of the image by using the Up,
		Down, Left and Right keys to change the size and
		shape of the area.
		- Press the center Menu Select key to move the flashing
		cursor to the opposite (or diagonal) corner, which can
		now be used to change the size and shape of the area.
		- Press the Menu Select key again to save the area and
		to exit the AREA menu.
EXIT		Returns to the MAIN menu.

4.3 Install Menu Functions

This section provides a graphical representation of the Install menu and descriptions for all functions.



4.3.1 Install Menu

Function	Selections	Description
CAMERA ID	Selects submenu	Accesses the Camera ID submenu.
SET FOCUS NOW		Completely opens the lens iris for best focus. The
		recommended focus procedure is:
		 Unlock the focus locking screw.
		 From the INSTALL menu highlight SET FOCUS
		NOW.
		 Turn the lens focus adjustment as required
		 Tighten the lens focus locking screw.
		 Exit the menu selection.
COMM	ON, OFF	Turns on Bilinx communication. See notice below.
SYNC	Selects submenu	Accesses the synchronization functions.
DEFAULTS	Selects submenu	Returns all settings for all modes to their default.
EXIT		Exits this menu.



NOTICE!

When using Bilinx control, the COMM ON/OFF menu selection is not active. This function can be accessed only through the camera menu keys when the CTFID software is not actively running.

4.3.2 CAMERA ID Submenu

Function	Selections	Description
CAMERA ID	Selects submenu	To enter up to a 17-character camera name:
		 Press the Menu Select key to enter the Camera ID
		string.
		- Enter up to a 17-character string name for the camera.
		 Use the Up and Down keys to select a character.
		- Use the Left and Right keys to change position in the
		string.
		 Press the Menu Select key to save and to exit the
		character string.
		 Exit the Camera ID menu.
ID POS	OFF, TOP, BOT	Use left or right keys to select:
		OFF: Camera ID not displayed.
		TOP: Camera ID displayed at upper left corner of display.
		BOT: Camera ID displayed at lower left corner of display.
		(The camera ID is not displayed when the OSD menu is
		open.)
EXIT		Returns to the INSTALL menu.

5 Troubleshooting Guide

5.1 VG5 AutoDome Operation and Control

Problem	Solution		
No video	- Check that the Green LED on the AutoDome CPU board is on. This LED indicates video		
	from the camera.		
	If the Green LED is off, then:		
	- Check that the Red LED on the AutoDome CPU board is slowly blinking. This LED		
	indicates power to the AutoDome power supply board and to the CPU Module.		
	Red LED on AutoDome CPU Module		
	Flash SequenceIndicates:		
	- 5 sec. on / 0.5 sec. off: Normal operation		
	- Steady on: CPU is locked		
	If the Red LED is on steady, then:		
	 Try cycling the AutoDome power off and on. 		
	If the Red LED is off, then:		
	If using a Bosch Pendant Power Supply Box:		
	- Check that Green LED in Power Supply Box is on. This LED indicates mains power		
	through the transformer.		
	If the Green LED is off, then:		
	– Turn off the Power.		
	 Check the FX101 fuse for mains power to the Power Supply Box. 		
	If O.K., then:		
	 Check the FX102 fuse for 24 V power to the AutoDome Pendant. 		
	If O.K., then:		
	If using a non-Bosch power supply:		
	 Check that the mains power to the power supply box is on. 		
	If O.K., then:		
	 Check that there is 24 V output from the transformer. 		
	 Check the connector on top of the AutoDome housing for bent pins. 		
	If O.K., then:		
	 Check the integrity of all wires and terminal connections to the AutoDome. 		
	If O.K., then:		
	If there is power to the AutoDome, then:		
	- Remove the camera and CPU modules from the AutoDome housing and check that the		
	Green LED on the housing power supply board is on.		
	If the Green LED is off, then:		
	- Check that the fuse on the housing power supply board is good. (Try replacing the unit,		
	if an extra camera module is available.)		

Local Keys Disabled	- This message appears if the Camera Menu Keyboard has been disabled through the
	CTFID tool. Select OnLine Config>Installer Options>Miscellaneous>Camera
	Buttons>Disable
No Remote Menu	- Ensure that all coax, fiber and Ethernet cables are properly connected. See the VG5
Access	AutoDome Installation Manual.
	If O.K., then:
	 Check if you can access the AutoDome OSD menus.
	If O.K., then:
Intermittent Remote	 Check that all wiring meets Bosch recommended standards, specifications and
Camera Access	distances. See the VG5 AutoDome Installation Manual.
Picture is dark	- Check that the Gain Control is set to AUTO (ON-43-ENTER).
	If O.K., then:
	- Check that the Auto Iris Level is set to the appropriate level (ON-11-ENTER).
	If O.K., then:
	- Check that the video coax is terminated with 75 Ω only at the head end. (Double
	termination causes dark video.)
	If O.K., then:
	 Check that the camera lens cover is removed.
	If O.K., then:
	- Check that the maximum coax distance has not been exceeded. See the VG5 AutoDome
	Installation Manual.
	If O.K., then:
	 Restore all camera settings (ON-40-ENTER).
Colors are not	 Reset the White Balance to the appropriate selection (ON-30-ENTER).
correct	If O.K., then:
	 Check that the maximum coax distance has not been exceeded. See the VG5 AutoDome
	Installation Manual.
	If O.K., then:
	- Restore the default settings (ON-40-ENTER).
Background is too	 Turn on backlight compensation (ON-20-ENTER).
bright to see subject	
Video is rolling,	 Ensure that the Synch Mode is set to Internal (OFF-42-ENTER).
noisy or distorted	If O.K., then:
	- Check that the maximum coax distance has not been exceeded. See the VG5 AutoDome
	Installation Manual.
	If O.K., then:
	 Check the integrity of all BNC connectors and splices. Note: Connecting a network cable to the interface heard of a nen IR AutoDome causes.
	video distortion.
	 Remove the network cable from the interface board RJ-45 connector.
	If O.K., then:
	If O.K., then: – Contact Bosch Technical Support.
Day/Night camera	If O.K., then: - Contact Bosch Technical Support. - Check that the Day/Night mode is set to AUTO (ON-56-ENTER).
Day/Night camera does not switch	If O.K., then: - Contact Bosch Technical Support. - Check that the Day/Night mode is set to AUTO (ON-56-ENTER). If O.K., then:
Day/Night camera does not switch automatically when	If O.K., then: - Contact Bosch Technical Support. - Check that the Day/Night mode is set to AUTO (ON-56-ENTER). If O.K., then: - Set Gain Control to AUTO (ON-43-ENTER).

Inside of	 Check the status of the Heater Module (ON-66-ENTER).
EnviroDome bubble	If status reports Heater No Power, then:
is foggy	 Turn off the power to the AutoDome.
	- Check the FX103 fuse in the Power Supply Box for power (24 V) to the heater module.
	If O.K., then:
	 Check all wiring and connector pins to the heater module.
Low Voltage flashing	- If using a non-Bosch power supply, confirm that it meets the Bosch AutoDome power
on monitor display	ratings. See the AutoDome Datasheet for specifications.
	If O.K., then:
	 Check the mains input line voltage.
	If O.K., then:
	- Check that the maximum wire length from the power supply has not been exceeded.
	See the VG5 AutoDome Installation Manual.
	If O.K., then:
	- Measure the AC voltage input to the camera while power is applied to the camera. The
	voltage must be \ge 21 VAC to stop the message.

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