FLEXIDOME corner 9000 IR

VCN-9095

BOSCH

en OSD Menu

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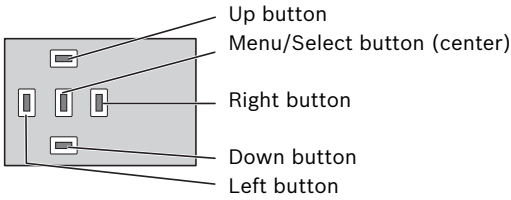
1 Configuration

The camera normally provides an optimal picture without the need for further adjustments. Advanced set-up options are available in a menu system for getting the best results under special circumstances.
The camera implements your changes immediately so that before and after settings are easily compared.

1.1 Menus

1.1.1 Menu navigation

Five keys are used for navigating through menu system.



– Use the up or down keys to scroll through a menu.
– Use the left or right keys to move through options or to set parameters.
– To close all menus at once hold down the menu/select key until the menu display disappears or continually select the **Exit** item.

Some menus automatically close after about two minutes; other menus have to be closed manually.

1.1.2 Top level menus

There are two upper level menus: a **Main** menu and an **Install** menu. The menus have functions that can be selected directly or submenus for more detailed set-up.

– To access the **Main** menu, press the menu/select button (center) for less than 1 second. The **Main** menu appears on the monitor. The **Main** menu allows you to select and set-up the picture enhancement functions. If you are not happy

with your changes, you can always recall the default values for the mode.

– The camera also has an **Install** menu in which the installation settings can be set. To access the **Install** menu, press the menu/select button (center) for longer than 2 seconds.

1.2 Pre-defined modes

There are six pre-defined modes with settings to make configuration easier. You can select one of the six pre-defined modes in the Install/Mode submenu. The modes are defined as follows;

1. **24-hour**
   Default installation mode to provide stable pictures over a 24-hour period. These settings are optimized for out-of-the-box installation.
2. **Traffic**
   Capture high-speed objects using default shutter in variable lighting conditions.
3. **Low light**
   Provide extra enhancement, such as AGC and SensUp to make usable pictures in low-light conditions.
4. **Smart BLC**
   Settings optimized to capture details in high contrast and extremely bright-dark conditions.
5. **Low noise**
   Enhancements are set to reduce picture noise. Useful for conditional refresh DVR and IP storage systems because reducing noise reduces the amount of storage required.
6. **Vibrant**
   This mode has enhanced contrast, sharpness and saturation.

1.3 Day/Night switching

The camera is equipped with a motorized IR filter. The mechanical IR filter can be removed in low-light or IR illuminated applications by software configuration settings. If **Auto** switching mode is selected, the camera automatically switches the filter depending on the observed light level. The switching level is programmable. In **Auto** switching mode the camera prioritizes motion (the camera gives sharp images without motion blur as long as the light level permits) or color (the camera gives color pictures as long as the light level permits). The camera recognizes IR illuminated scenes to prevent unwanted switching to color mode.
There are four different methods of controlling the IR filter:

- via Bilinx communication,
- automatically, based on the observed light levels, or
- as part of the programmable mode profile.

1.4 Camera control communication (Bilinx)

This camera is equipped with a coaxial communications transceiver (also referred to as Bilinx). In combination with VP-CFGSFT, the camera setting can be changed from any point along the coaxial cable. All menus can be accessed remotely giving full control of the camera. With this method of communication it is also possible to disable the local keys on the camera.To avoid loss of communication on an installed camera, the **Communication On/Off** selection is not available while using remote control. This function can only be accessed with the camera buttons. Bilinx communications can only be disabled using the buttons on the camera.

Disabled camera buttons

When the Bilinx communications link is active, the buttons on the camera are disabled.

1.5 Main menu structure

Item	Selection	Description
Mode	Submenu	Sets up operating modes 1 to 6
Exposure	Submenu	Exposure control
Day/Night	Submenu	Day/Night for color/mono operation
Enhance	Submenu	Picture enhancement and performance
Color	Submenu	White balance and color rendition
VMD	Submenu	Video motion detection
Image Adjustment	Submenu	Sets up digital zoom or digital image stabilization

1.5.1 Mode submenu

Item	Selection	Description
Mode	1 to 6	Selects operating mode.
Mode ID	Alphanumeric	Mode name (11 characters maximum)
Copy active mode	Available mode numbers	Copies current mode settings to the mode number selected.
Mode Defaults	Submenu	Restores camera to the factory default settings.
EXIT		Returns to main menu.

1.5.2 Exposure submenu

Item	Selection	Description
ALC level	-15 to +15	Selects the video level range. A positive value is more useful for low-light conditions; a negative value is more useful for very bright conditions. Some ALC adjustment may improve scene content when Smart BLC is enabled.
ALC speed	Slow, medium, fast	Adjusts the speed of the video level control loop. For most scenes it should remain at the default value.
Shutter	AES, FL, Fixed	AES (auto-shutter) - the camera automatically sets the optimum shutter speed. FL - flickerless mode avoids interference from light sources. FIXED - allows a user defined shutter speed.
Default (AES) shutter or Fixed shutter	1/50 (PAL) 1/60 (NTSC), 1/100 (PAL) 1/120 (NTSC), 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10K, 1/100K	In DEFAULT (AES) mode, the camera tries to maintain the selected shutter speed as long as the light level of the scene is high enough. In Fixed mode, selects shutter speed.

Item	Selection	Description
Actual shutter		Displays the actual shutter value from the camera to help compare lighting levels and optimum shutter speed during set-up.
Gain control	On, Fixed	On - the camera automatically sets the gain to the lowest possible value needed to maintain a good picture. Fixed - sets Fixed AGC value.
Maximum AGC or Fixed AGC	0 to 40 dB	Selects the maximum value the gain can have during AGC operation. Selects the gain setting for Fixed gain operation (0 is no gain).
Actual AGC		Displays the actual AGC value from the camera to help compare gain level with lighting levels and picture performance.
Sens Up Dynamic	Off, 2x, 3x, ..., 10x	Selects the factor by which the sensitivity of the camera is increased. When active, some noise or spots may appear in the picture. This is normal camera behavior. It may also cause motion blur on moving objects.
EXIT		Returns to main menu.

1.5.3 Day/Night submenu

Item	Selection	Description
Day/Night	Auto, Color, Monochrome	Auto - the camera switches the IR cut-off filter on and off depending on the scene illumination level. Color - the camera always produces a color signal regardless of light levels. Monochrome - the IR cut-off filter is removed, giving full IR sensitivity.
Switch level	-15 to +15	Sets the video level in Auto mode at which the camera switches to monochrome operation. A low (negative) value means that the camera switches to monochrome at a lower light level. A high (positive) value means that the camera switches to monochrome at a higher light level.
Switch delay	1, 2, 3, 5, 10, 20, 30, 60, 120, 240 s	Sets the evaluation time in Auto mode for day to night transitions.
Priority	Motion, Color	In AUTO mode: Color - the 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 (it switches to monochrome earlier than it would with Color priority).

Item	Selection	Description
IR contrast (mono)	Enhanced, Normal	Enhanced - the camera optimizes contrast in applications with high IR illumination levels. Select this mode for IR (730 to 940 nm) light sources and for scenes with grass and green foliage. Normal - the camera optimizes contrast in mono applications with visible light illumination.
IR illumination (mono)	0 to +15	Enter the strength of the external IR illumination to determine the night to day transition moment. 0 is no IR illuminator; +15 is very strong illumination.
Color burst (mono)	On, Off	Off - the color burst in the video signal is switched Off in monochrome mode. On - the color burst remains active even in monochrome mode (required by some DVRs and IP encoders).
EXIT		Returns to main menu.

1.5.4 Enhance / Dynamic Engine submenu

Item	Selection	Description
Dynamic Engine	Off, XF DYNAMIC, HDR, Smart BLC	Off: - turns off all automatic scene detail and enhancements (only recommended for testing). XF DYNAMIC: - extra internal processing is enabled for enhancing the visibilty. HDR: - adds dual sensor exposure to the XF DYNAMIC features. In harsh lighting conditions, pixels from each exposure are mixed to give a more detailed image. Smart BLC: - BLC window and weighting factor are automatically defined. Camera dynamically adjusts these for changing light conditions.
Contrast Enhancement	Low, Medium, High	Increases the contrast at medium brightness levels. Select Low for high contrast scenes. Select High for low contrast scenes (e.g. fog).
Sharpness	-15 to +15	Adjusts the sharpness of the picture. 0 corresponds to the default position. A low (negative) value makes the picture less sharp. Increasing sharpness brings out more detail. Extra sharpness can enhance the details of license plates, facial features and the edges of certain surfaces.

Item	Selection	Description
3D-NR	Off, Low, Medium, High	Automatically reduces the noise in the picture. This may cause some motion blur on exceptionally fast moving objects immediately in front of the camera. This can be corrected by widening the field of view or lowering the selection value.
2D-NR	Off, Low, Medium, High	Automatically reduces the noise in the picture. A high selection may cause blur. A lower selection improves sharpness at the cost of more noise
Peak White Invert	On, Off	Use Peak White Invert to reduce glare from the CRT/LCD display. Use in ANPR/LPR applications to reduce headlight glare. (Test on-site to ensure that it does benefit the application and is not distracting for operators of the security system.)
EXIT		Returns to main menu.

1.5.5 Color submenu

Item	Selection	Description
White balance	ATW indoor, ATW Outdoor, ATW hold, Manual	ATW - Auto tracking white balance allows the camera to constantly adjust for optimal color reproduction. ATW hold - Puts the ATW on hold and saves the color settings. Manual - the Red and Blue gain can be manually set to a desired position.
Speed	Fast, Medium, Slow	Adjusts the speed of the white balance control loop.
Red gain	-50 to +50	Manual and ATW hold - adjusts the Red gain.
Blue gain	-50 to +50	Manual and ATW hold - adjusts the Blue gain.
Saturation	-15 to +15	Adjusts the color saturation. -15 gives a monochrome image; 0 gives the default saturation; +15 gives the most saturation.
EXIT		Returns to main menu.

1.5.6 VMD submenu

Item	Selection	Description
VMD area	Submenu	Select 1 of the 4 areas to enter the area set-up menu to define the detection area.
VMD mode	Off, Silent, OSD	Off - Video Motion Detection (VMD) is off. Silent - video motion generates silent alarm. OSD - video motion generates on-screen text message alarm.
VMD sensitivity	0 to 127	Sets the sensitivity for motion to the desired level. The longer the white bar, the more motion is required to acitvate the VMD alarm. Motion above this level activates alarm.
OSD alarm text	Alphanumeric	Text for on-screen display alarm (16 characters maximum).
EXIT		Returns to main menu.

Selecting an area for VMD masking

To set-up an area for VMD masking, access the area menu by selecting the **VMD Area** option from the VMD menu. Upon entering the **Area** menu, the current area is displayed with the upper left corner flashing. The flashing corner of the image can be moved with the Up, Down, Left, Right arrow keys. Pressing the Select key moves the flashing cursor to the opposite corner, which can now be moved. Pressing Select again freezes the area and exits the area menu.

1.5.7 Image Adjustment submenu

Item	Selection	Description
Digital Zoom	x1, x2, x4, x8, x16	Select the zoom factor
DIS	Off, On	Select On to stabilize the image.
EXIT		Returns to main menu.

1.6 Install menu structure

Item	Selection	Description
Language	Submenu	Select on-screen display (OSD) language
Synchroniza-tion	Submenu	Sets synchronization parameters
Alarm I/O	Submenu	Program the alarm input and output functionality.
Connections	Submenu	Connection parameters
Test signals	Submenu	Test patterns and texts
Camera ID	Submenu	Select to access ID submenu
Privacy masking	Submenu	Sets up a masking area
Flip	Submenu	Selects flip submenu
Default ALL	Submenu	Returns all settings for all modes to factory defaults

1.6.1 Language submenu

Item	Selection	Description
Language	English Spanish French German Portuguese Russian Simplified Chinese	Displays the menus on the OSD in the chosen language.
EXIT		Returns to Install menu.

1.6.2 Synchronization submenu

Item	Selection	Description
Synchroniza-tion	Internal Line lock	Internal - for free running camera operation. Line lock - to lock to the AC power supply
Vertical phase	0, 1, ... 359	Adjusts the vertical phase offset (when in LINE LOCK mode and a valid power supply frequency is detected).
EXIT		Returns to Install menu.

1.6.3 Alarm I/O submenu

Item	Selection	Description
Input	None, high, low	Select none to disable the alarm input. Select active-high or active-low for the alarm input connector.
Input action	None, Mode 1 to 6, Night mode	Selects the operating mode of the camera when the alarm input is active.
Output	Normally open, Normally closed	Selects the alarm output mode.
Output action	VMD, Ext. device, Night mode, Filter toggle	VMD: - alarm output closes on VMD alarms. External device: - make the alarm output available to remote communication devices. Night mode: - alarm output closes when camera is in monochrome mode. Filter toggle: - alarm output closes just before the IR filter starts moving and opens when video level has stabilized (2 to 3 seconds)
EXIT		Returns to Install menu.

1.6.4 Connections submenu

Item	Selection	Description
Bilinx Comms.	On, Off	If Off, Bilinx communications is disabled.
EXIT		Returns to Install menu.

1.6.5 Test signal submenu

Item	Selection	Description
Show camera ID	Off, On	Select On to overlay the camera ID on the video test signal.
Test pattern	Color bars, Raster, Impulse, Cross Impulse, Crosshatch	Select the desired test pattern to help installation and fault-finding.
EXIT		Returns to Install menu.

1.6.6 Camera ID submenu

Item	Selection	Description
Camera ID		Enter a 17-character camera name. Use Left/Right to change position in the string; use up/down to select character. Use Select to exit.
Display ID pos.	Off, Top left, Top right, Bottom left, Bottom right	Select the screen position of the camera ID.

Item	Selection	Description
Camera ID border	On, Off	Displays a grey border behind the camera ID to make it easier to read.
MAC address		Shows MAC address (factory set, cannot be changed).
Ticker bars	On, Off	The ticker bar moves continuously to show that the image is live and not frozen or played back.
Mode ID pos.	Off, Top left, Top right, Bottom left, Bottom right	Camera mode is displayed on the screen in the selected position.
EXIT		Returns to Install menu.

1.6.7 Privacy masking submenu

Item	Selection	Description
Mask	1 to 15	15 different areas can be masked.
Pattern	Black, Grey, White, Noise	Selects pattern for all masks.
Active	On, Off	Turns each of the masks on or off.
Mosaic	On, Off	Turns mosaic on or off.
Window	Submenu	Select to open a window in which to define the mask area.

Selecting an area for privacy masking

To set-up an area for privacy masking, access the area menu by selecting the **Area** option from the privacy masking menu. Upon entering the **Area** menu, the current area is displayed with the upper left corner flashing. The flashing corner of the image can be moved with the Up, Down, Left, Right arrow keys. Pressing the Select key moves the flashing cursor to the opposite corner, which can now be moved. Pressing Select again freezes the area and exits the area menu.

1.6.8 Flip submenu

Item	Selection	Description
Flip	Off horizontal Vertical Both	Selects the flip mode.
EXIT		Returns to Install menu.

1.6.9 Defaults submenu

Item	Selection	Description
Restore All	No, Yes	Restores all settings of the six modes to their default (factory) values. Select YES then press the Menu/Select button to restore all values. When completed the message RESTORED! is shown.

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