IP Matrix/KBD-UXF

VJD-8000 | VJD-7513 | VJD-7523 | VJD-7533

en   User manual

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1   Use latest software

Before operating the device for the first time, make sure that you install the latest applicable release of your software version. For consistent functionality, compatibility, performance, and security, regularly update the software throughout the operational life of the device. Follow the instructions in the product documentation regarding software updates.

The following links provide more information:

–   General information: https://www.boschsecurity.com/xc/en/support/product-security/
–   Security advisories, that is a list of identified vulnerabilities and proposed solutions: https://www.boschsecurity.com/xc/en/support/product-security/security-advisories.html

Bosch assumes no liability whatsoever for any damage caused by operating its products with outdated software components.

2   Introduction

2.1   About the manual

This manual describes how to use the keyboard with the IP Matrix application.

2.2   Conventions in this manual

The symbols and notations that follow are used to draw attention to special situations:

Notice!
This symbol indicates special features and provides tips and information for easier, more convenient use of the software.

Terms that you can find in the program, such as menu options, commands or text in the user interface, are written in **bold**.

2.3   Additional documentation

Notice!
Read and follow the instructions in the hardware documentation
While setting up the hardware for IP Matrix, read and follow the instructions of the hardware documentation. The documentation contains important safety messages. It is mandatory to read and understand the safety messages prior to installation of the hardware.

More information
Find more information, software downloads, and documentation at:
www.boschsecurity.com and the respective product page.

3   Requirements

A prerequisite for using the keyboard is that the required hardware for an IP Matrix system is available and configured appropriately.

Requirements for installed software

The Configuration Manager 7.74 program or later is required.

Requirements for operational purpose

Make sure the following requirements are fulfilled:
–   1 to 4 ready-to-use VIDEOJET decoders with firmware 10.30 or later connected to a surveillance network (fully installed and ready for operation)
–   1 to 4 KBD-UXF or KBD-Digital keyboards (fully installed and ready for operation)
–   1 to 8 (16) displays with appropriate interface connections or adapters
     Note: Up to 2 displays per decoder can be connected to VJD-8000 and VJD-7513, and up to four displays to VJD-7523 and VJD-7533.
–   Fixed or moving cameras connected to the surveillance network
–   A PC with Configuration Manager program installed and connected to the surveillance network (only for configuration purposes)

Notice!

Prior to operation, the IP Matrix application must be configured using the Configuration Manager program.

IP Matrix configuration

The IP Matrix application can be configured using the Configuration Manager 7.74 program or later.

For detailed configuration steps, refer to the IP Matrix configuration manual available on the online product catalog.

4   Restrictions

Observe the following restrictions when using a IP Matrix system:
–   The decoder dynamically adapts its performance to high loads by skipping frames, which can cause juddering in the video stream.
–   Playback is only possible from local recordings, not from recordings managed by VRM.
–   A long i-frame distance leads to less exact navigation in playback mode and lower performance in playback backwards mode.

5   Operation

After configuring the IP Matrix application using a PC with the Configuration Manager program, the IP Matrix application operates as a stand-alone CCTV surveillance system. All operations are carried out using the attached keyboard.
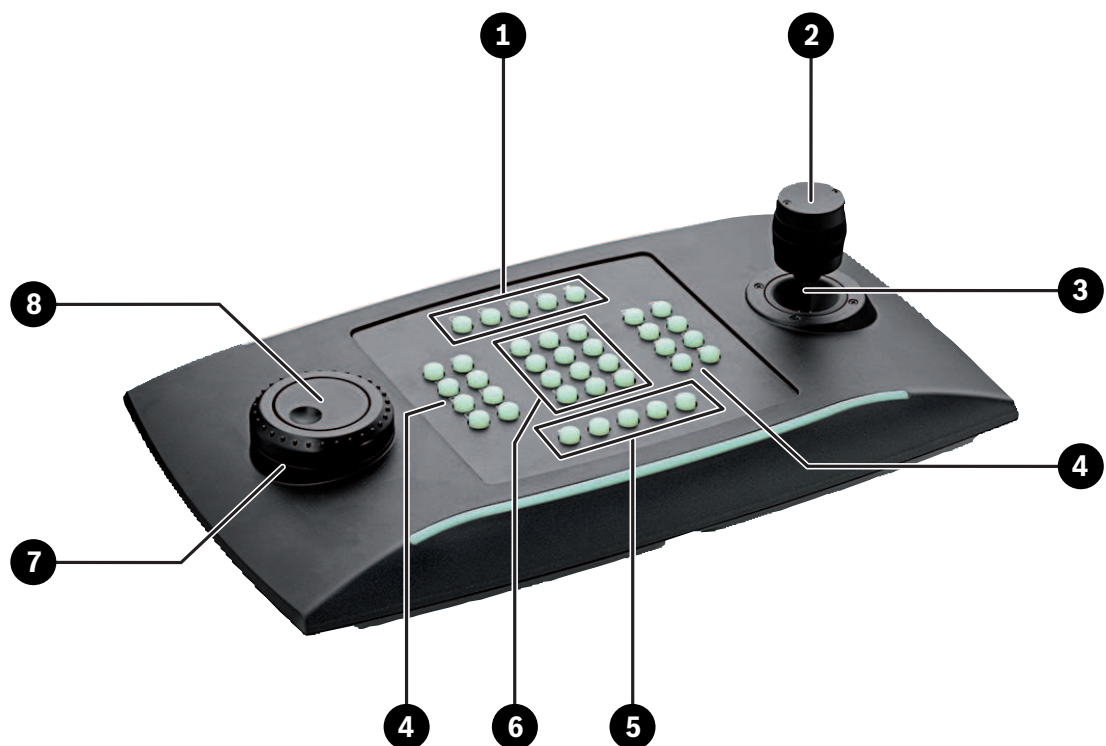

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Notice!

Refer to the instruction manual delivered with your keyboard. The manual is also available on the online product catalog.

5.1   Keyboard layout

The following graphic illustrates the different groups of keys on the keyboard, shown in the right-hand version.

1	Numbered function keys and audio.	2	Rotatable knob Use to control the zoom function of a device or the built-in digital zoom factor.
3	Joystick Use to pan or tilt a PTZ device. Use to move the field of view in a digitally zoomed viewing pane.	4	Client control keys These keys are shortcuts to certain client functions.
5	Playback controls In playback mode: Use to control the playback speed of recorded tracks.	6	Number keys Use to select favorite views, sequences or single devices.

7	Shuttle ring In Live mode: Use to select a certain monitor in a multi-monitor view. In playback mode: Use to increase or decrease the playback speed factor.	8	Jog dial Use to scroll through monitors.

5.2   Key description

The following list shows the icons on the keyboard and their respective function.

Displays monitor numbers and decoder IP addresses

▸ Press the key to display the monitor numbers and decoder IP addresses as overlay on the monitors.

Displays camera numbers and camera IP addresses

▸ Press this key to display the camera numbers and camera IP addresses as overlay on the monitors.

Calls-up favorites. Maximum 9 favorites are available.

▸ Press the key, enter the number using the number keys, then click **OK**.
  Note: The layouts and camera connections on all displays are re-established.

Saves up to 9 favorites.

▸ Press the key, enter the number using the number keys, then click **OK**.
  Note: The layouts and camera connections on all displays are saved.

Turns audio on/off

▸ Press the key to turn audio on/off. This applies only to the monitor in the top left of the screen.

Note: Blinking indicates that the function is enabled.

Starts/stops recording.

Not supported yet.

Switches the keyboard to left-hand use and back.

The key assignment is rotated by 180 degrees.

▸ Press the key, then click **OK**.

Note: You must also rotate the printed keyboard inlay with the key labeling by 180 degrees.

Switches between live mode and playback mode.

Blinking indicates that the function is enabled.

▸ Press the key to switch.

Note: Only supported by firmware 9.60 and later. Playback permission must be available.

Loads a camera sequence

▸ Press the key, enter a valid sequence number (1 to 32), then click **OK**.

Note: Blinking indicates that the input of a number is required.

Switches to previous layout with less monitors

‣   Press the key to decrease the number of monitors on the current display.

Note: This key provides a round-trip function. The last layout starts again, if the first layout is reached.

Switches to next layout with more monitors

‣   Press the key to increase the number of monitors on the current display.

Note: This key provides a round-trip function. The first layout starts again, if the last layout is reached.

Turns full-screen of currently selected monitor on/off

‣   Press the key to turn full-screen on or off.

Turns full-screen with picture-in-picture on/off

‣   Press the key to turn full-screen with picture-in-picture on or off.

1 .... **0** Number keys

‣   Use to select favorite views, sequences, prepositions, or single devices.

ESC Cancels a number entry.

‣   Press the key to cancel the entering of a number.

OK Confirms a number entry.

‣   Press the key to confirm.

Selects or saves a preposition

To select a preposition:

‣   Press the key, enter the preposition number using the number keys, then click **OK**.

Enables/disables focus control

‣   Press the key, then turn the joystick control knob to change the focus control.

Enables/disables iris control

‣   Press the key, then turn the joystick control knob to change the iris control.

Displays the next camera

‣   Press the key to display the next camera on the selected monitor.

Displays the previous camera

‣   Press the key to display the previous camera on the selected monitor.

Selects a monitor.

‣   Press the key, enter the monitor number using the number keys, then click **OK**.

Locks/unlocks the keyboard

‣   Press the key to lock or unlock the keyboard.

Note: Key is highlighted if state is locked.

⏪ Plays recordings fast backwards (stepwise)

▸   Press the key to play recordings fast backward (stepwise).

Note: Available in playback mode.

◀ Plays recordings backwards

▸   Press the key to play recordings backwards with normal speed.

Note: Available in playback mode.

⏸ Freezes video on monitors on/off (in live mode) or pauses playback (in playback mode)

In live mode:

▸   Press the key to freeze/unfreeze the video on all monitors.

Note: Selecting another layout, camera or monitor also unfreezes the video.

In playback mode:

▸   Press the key to pause the playback on the selected monitor.

▶ Starts playback

▸   Press the key to start the playback with normal speed.

Note: Available in playback mode.

⏩ Fast forward (stepwise)

▸   Press the key to move stepwise fast forward in recordings.

Note: Available in playback mode.

5.3   Keyboard operations

5.3.1   Selecting a camera

To select a camera:

1.   Press the number keys to enter the camera's number on the list.
2.   Press **OK** to switch the current monitor to the selected camera's view.

5.3.2   Selecting a monitor

To select a monitor:

▸   In live mode:
     Use the keyboard shuttle ring to select a certain monitor in a multi-monitor view. The selected monitor is surrounded by a colored frame.
     or

     Press the monitor ▢ key, enter the monitor number using the number keys, then click **OK**.

5.3.3   Controlling digital speed factor

To control the digital speed factor

▸   In playback mode:
Use the keyboard shuttle ring to move fast forward or fast backward with different speeds.
Depending on how much you turn the keyboard shuttle ring, the following speed factors are available: ¼, ½, 1, 2, 4, 8 and 16
or
In playback pause mode:
Use the jog dial for single step forward or single stop backward.

5.3.4   Controlling PTZ cameras

To control pan and tilt of cameras:

▸   Use the keyboard's joystick to control the axis of a PTZ camera.

To control zoom function:

▸   Turn the joystick control knob to zoom in or out. If the camera does not offer an optical zoom, a digital zoom will be simulated.

5.3.5   Using prepositions

To save a preposition:

1.   Move the camera view to the intended position and press the ⟳ key quickly three times until the ⟳ key starts blinking.
2.   Enter the preposition number using the number keys.
3.   Click **OK**.

To select a preposition:

1.   Press the ⟳ key and enter the preposition number using the number keys.
2.   Click **OK**.

5.3.6   Locking/unlocking the keyboard

To lock the keyboard:

▸   Press the logout ⏻ key.

To unlock the keyboard:

1.   Press the logout ⏻ key.
2.   Enter the IP Matrix passcode.
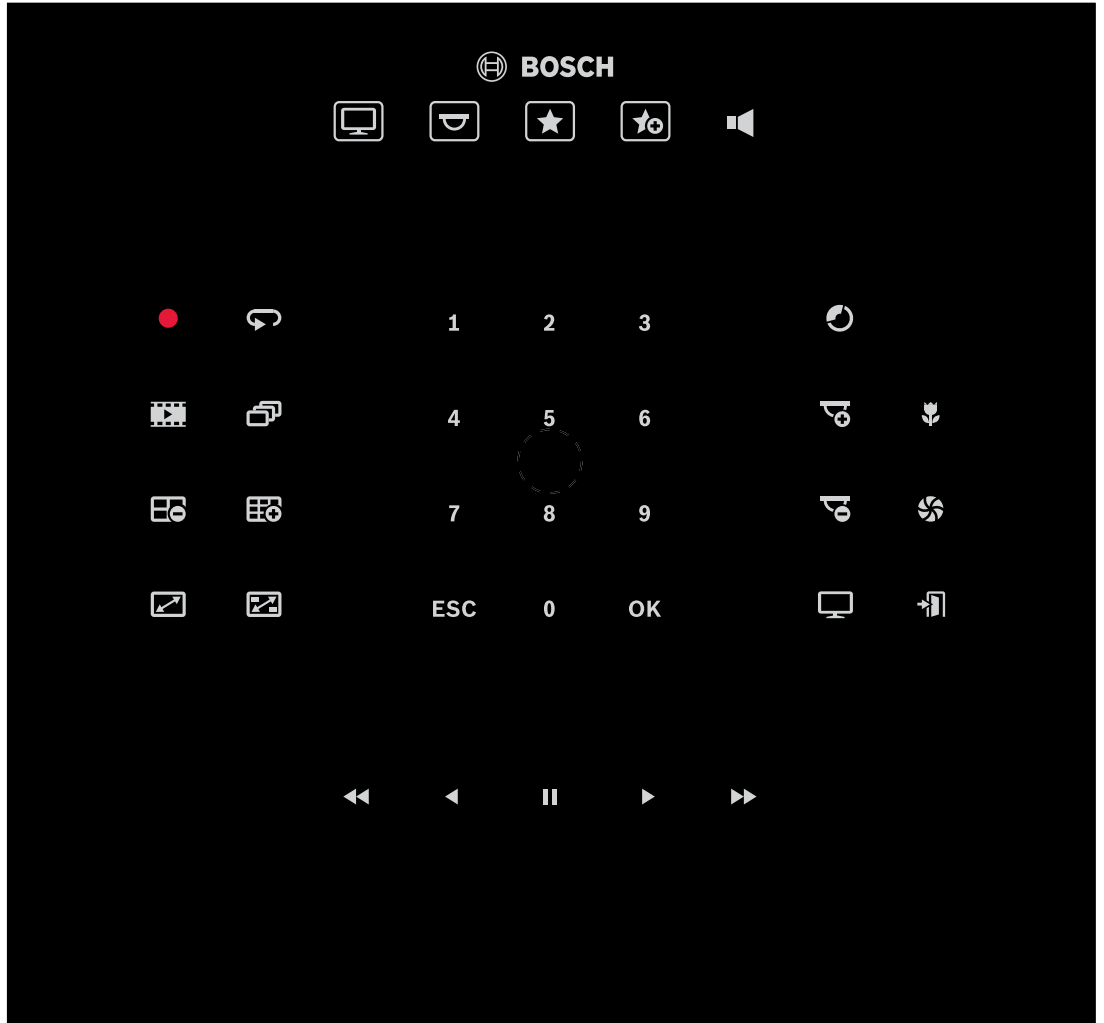3.   Click **OK**.

6   Keyboard print template

The following graphic shows the key assignment of the keyboard.

Notice!
To print the keyboard assignment on the pre-punched keyboard template provided with the product, use the true to scale template "Special Print template IP Matrix for KBD UXF" in the online product catalog.

7   Troubleshooting

For general appearance check the **Advanced** tab settings of each decoder.

Issue	Solution
No keys on the KBD-UXF keyboard lit.	Check the power and data connections.
All 5 function keys on the KBD-UXF are lit when turning the keyboard On. No other key works.	The keyboard is in the wrong interface mode. Refer to the keyboard manual to change the mode.
Cannot access cameras.	Check the general password. All cameras must use this password as a common user password.
In a multi-decoder setup: Settings in the Configuration Manager program do not affect the IP Matrix application.	Only settings on the master decoder affect the IP Matrix application. Select the master decoder and try again.
The selected monitor is not highlighted.	Check the distance between cameos. Increase the distance if necessary.
No connections after restarting the decoder.	Enable reconnect on restart.
Not all monitors can be populated with video connections.	Check the number of decoders that defines the maximum possible connections on one decoder device. Or Your layout may provide more monitors than allowed by the maximum monitors per display.

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