BL820v2MIIR Full HD IR bullet IP camera **Quick Start Guide**



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Find additional manuals, the datasheet, the EU Declaration of Conformity and the latest firmware for this product at:

http://www.tkhsecurity.com/support-files

Determine where you are going to install your BL820v2M1IR.

IEEE 802.3at Power over Ethernet (PoE)-enabled network.

Connect the power/Ethernet/alarm/audio

corresponding connectors on the all-in-one

Fix the camera bracket to the ceiling/wall

Use a phillips head screwdriver to loosen

with the supplied self-tapping screws

the screws on the side of the bracket

Rotate the camera and point it in the

Tighten the screws to secure the camera.

mount and the camera housing.

wires from ceiling or wall to the

cable (see below).

desired direction.

Determine installation location

Make sure that the surface has sufficient strength to support the camera. If using Power over Ethernet (PoE), check that there is adequate access to an



and factory default reset button

then remove the front housing.

microSD card



Figure 2 The BL820v2M1IR mounts onto a wall or ceiling

Connect and power up

To power the BL820v2M1IR with Power over Ethernet (PoE)

- Connect the RJ-45 network connector on the all-in-one cable of your BL820v2M1IR to an appropriate PSE network switch.
- Use Cat 5 Ethernet cable up to 100 m in length. Connect to a hub or switch with • straight-through cable. Use crossover cable to connect directly to a PC.

To power the BL820v2M1IR with DC 12 V / DC 24 V / AC 24 V

- **1.** Insert the leads from your power source into the supplied power connector (fig.1), matching the polarity to the labelling on the all-in-one cable power connector.
- 2. Connect the power terminal block to the power connector of the all-in-one cable.
- 3. Plug the power supply into a mains outlet.

Indicator LEDs

 RJ-45 connector LEDs: Green indicates a good network connection; orange verifies network activity.

Audio I/O and Alarm I/O

• For Audio I/O and Alarm I/O connection and configuration, refer to next page.



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To open communication with the camera

- 1. subnet as the camera.
- 2.
- з.

- Enable Active X controls.

6 http://10.1.81.63



Understand all-in-one cable

Ceren Ceren Pink Ceren Pink Ceren Pink Ceren Figure 4 All-in-one cable Ceren Ceren Figure 4 All-in-one cable						
No	Cable	Pin	Definition	Remarks		
1	RJ-45	-				
2	Audio I/O	Green	Audio Out / Mic Out			
2		Pink	Audio In / Mic In			
3	BNC	-				
	Alarm I/O (5-pin terminal block)	1	Alarm In 2+	Alarm connection		
		2	Alarm In -			
4		3	Alarm In 1+			
		4	Alarm Out -			
		5	Alarm Out +			
5	Power (DC 12/24V / AC 24V) (2-pin term. block)	1	DC 12/24V - AC 24V 1	- Power connection		
		2	DC 12/24V + AC 24V 2			
6	RS-485	Purple	D-	RS-485 connection		
Ŭ		Grey	D+			
	7	able 1	All-in-one cable definitio	n		

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Access microSD card slot and reset button

- To access the BL820v2M1IR's microSD card slot
- Unscrew the screw on the camera housing and
- To reset the camera to the factory-default settings With the camera powered up, push and hold the reset button for at least 20 seconds.
 - Important! All settings, including the IP address of the camera will be reset to the original factory settings. The factory-set IP address can be found on
 - the label on the bottom of the camera.



Figure 3a Housing screw



Figure 3b microSD card slot and reset button

Log on

You can get access to the camera settings via its web interface.

Use Internet Explorer to browse the webpages.

- Find the default IP address of the BL820v2M1IR on the bottom of the camera.
- The default logon user name and password (both case sensitive) are:

Admin / 1234

CAUTION: MAKE SURE THAT YOU CHANGE THE DEFAULT ADMIN PASSWORD AT THE FIRST LOGIN. TO KEEP THE ACCOUNT SAFE, CREATE A STRONG, COMPLEX PASSWORD. THIS HELPS TO PREVENT UNAUTHORISED ACCESS FROM PEOPLE WHO TRY TO USE THE DEFAULT ACCOUNT.

- Make an IP connection between the camera and the PC.
- To achieve initial access, the network adapter of the PC must be set to the same

- Type the IP address of the camera in the address bar of your browser.
- Enter the default user name and password (see above).

To view the webpages of the camera properly

When prompted by the camera, install the Viewer add-on.

P + → X Ø New Tab

Figure 5 Camera IP address in address bar of browser

Install Device Manager (optional)



Adjust zoom and focus

The BL820v2M1IR has a motorised lens.

Use the Zoom and Focus buttons on the Home page to achieve the desired field of view and focus the lens properly. Changes you make are instantly reflected in the camera view.



Figure 9 Zoom and focus buttons on the Home page of the BL820v2M1IR

Get access via Device Manager



Figure 7 Using Device Manager to open the web interface of a camera detected on the network

camera.

To change the network settings

- 1. Manager.
- 2. Click Enable DHCP. 3.

- or gateway address.

Click OK. 4.

support.

information, see the User Manual.

Rotate camera image

Depending on how BL820v2M1IR camera is mounted, you may need to rotate the camera image.





Figure 10 Applying 180 degree video rotation

To select a video rotation type

On the Streaming tab, click to select Video Format from the menu options on 1. the left.

- 2. Choose one of the following video rotation types:
 - Normal video. The camera's orientation is not modified.
 - Flip video. The image rotates across the horizontal axis.
 - Mirror video. The image rotates across the vertical axis. ٠
 - 90 degree clockwise. The image rotates 90° clockwise.
 - 180 degree rotate. The image rotates 180°.
 - 90 degree counterclockwise. The image rotates 90° counterclockwise.

3. Click Save to confirm settings.

Step 1: Connect the audio input and output connectors to the camera's all-in-one connector (figures 4 and 11).

following options:

- listen to the other site in turn.
- site.
- ٠ site.
- •

Connecting an alarm device, such as a sensor, to the BL820v2M1IR camera input can trigger an output action to occur based on contact closure settings. A motion detection or tampering alarm can also trigger an output action.

table 2).

Note: You can set the IR function of BL820v2M1IR via the Camera menu.

Change network settings

With Device Manager you can directly change the network settings of the

Right-click the camera in Device

Click Change Network Settings.

click Static IP, and then enter the new IP address, subnet mask, and

Change Network Settings 172.30.40.28	8 Videozaal FD8 👝 🔲 💌					
Current IP address	172.30.40.28					
Current Netmask	255.255.0.0					
Current Gateway	172 . 30 . 40 . 255					
Static IP						
New IP address	172.30.40.28					
New Netmask	255.255.0.0					
New Gateway	172.30.40.255					
Enable DHCP						
	OK Cancel					

Figure 8 Network settings

Note: A DHCP server must be installed on the network in order to apply DHCP network

You can also change these settings on the Network page of the camera. For more

Connect audio and alarms

If microphones and speakers are implemented, the BL820v2M1IR camera can be used to provide a two-way audio channel. Croo

Pink						
III -	I					

Figure 11 Audio in and out connectors.

Step 2: In the camera web interface, go to Streaming > Audio and select one of the

• Full-duplex – Audio can be transmitted and received at the same time. Local and remote sites can communicate with each other simultaneously.

Half-duplex - Audio can be either transmitted or received. One site can talk or

Simplex (Talk only) - Audio can be transmitted. One site can speak to the other

Simplex (Listen only) - Audio can be received. One site can listen to the other

Disable - The audio transmission function is turned off.

Step 1: Connect the alarm relay connectors to the I/O terminal block (figure 4 and

Step 2: In the camera web interface, go to the System menu. Using the Application, Motion Detection, and Tampering pages, configure the alarms as desired.