RKK SERIES wifi kit – RKK-KIT..A



## **RKK-KIT..A**

Plug&play WiFi kit



## **Configuration manual**

How to configure all system operating options

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## **Contents of the manual**

This manual explains in detail all the configuration options to best use our RKK Series wifi kits. To use the normal live viewing and playback functions, for hardware installation and for connecting the cameras, download the <u>installation manual</u>.

This manual refers to the RKK-KIT..A series kits with graphical interface that you see below

Wi-Fi NVR	Camera1	×
Camera	Modello: LW5B1 IP : 172.20.18.11 Versione firmware: MFG5W_16NR_ALW_V1.0.0.230925_R1	
Numero di canali	Flusso Display Audio Illuminazione Rilevazione veicoli	
	E possibile impostare la qualità del flusso video della telecamera. Flusso principale	
Registra	Z880x1620     V     Risoluzione       Auto     V       Frame Rate	
Rete	Auto  Bitrate massimo (Kbps) Flusso secondario	
\$	768x432     V       Auto     V       Frame Rate	
Sistema	Auto  V Bitrate massimo (Kbps)	

If your kit has our previous interface, you can download the specific manual for your version, or you can continue reading this manual considering that you will find the same options on your screen, just with different graphics.

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## Access the settings menu

The installation manual explains how to install and use the basic live and playback functions of our kits.

If you haven't yet assembled your system and you still don't see the cameras on the monitor, you should go back to the installation manual and follow the instructions. However, if you have installed the system and are able to move the mouse on the screen, you can continue reading this manual and learn all the advanced features of your CCTV system.

In this manual we start from the login window in which to enter the username and password for access.

	21/03/2024 22:51:40	
WI-FINVR		· 🤙
	the second s	
	A REAL PROPERTY AND A REAL	
	the second se	DSE
	the second se	
	WI-FINVR	
🤶 📑 📣		
	<u>به</u>	
	Recupora PW	· •
	Annulla Accedi	
DSE		DSE

The access data are: USERNAME: admin PASSWORD: set upon first login

To access the configuration menu you must right-click on the screen and then choose the configuration button with the gear.

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# **CONFIGURATION | CAMERA**

Click the CONFIGURATION button and then the CAMERAS icon to access the camera options configuration page. At the top of the window choose the camera as each channel has its own independent configuration.

D <mark>SE</mark>	<u>01</u> Camera1 ✓	×
	Nome:	
	Modello:	
Telocamero	IP: 172.20.18.11	
relevantere	Versione firmware:	
Gestione canali	Flusso Display Audio Illuminazione Rilevazione	
Gestione cariai	É possibile impostare la qualità del flusso video della telecamera.	
•	Flusso principale	
Registrazione	✓ Risoluzione	
	Frame Rate	
	Bitrate massimo (Kbps)	
Rete	Flusso secondario	
4	✓ Risoluzione	
Sistema	✓ Frame Rate	
	✓ Bitrate massimo (Kbps)	

#### FLOW

Here you set the parameters of the camera's primary and secondary video streams. The primary stream is the one used in recording. The secondary stream is lighter and is used for remote connection. Normally it is not necessary to change the factory parameters.

In this manual we do not explain in detail the meaning of the cameras' video streaming adjustment items. You can find this information in the manual of our IP cameras.

#### RESOLUTION - The resolution of the video stream

FRAME RATE – The number of frames/second that can be set to the highest value or can be reduced to limit the space occupied on the disk at the expense of less fluidity of the moving images.

MAXIMUM BITRATE - Set the maximum bandwidth (Kb/s) that the camera will occupy

#### DISPLAY

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D <mark>SE</mark>	03 Camera3 ~ Nome: Camera3	
	Modello: LW5B2 IP : 172.20.18.16	
Telecamere	Versione firmware: MFG5W_16NR_ALW_V1.0.0.230925_R1	
Gestione canali	Flusso Display Audio Illuminazione Rilevazione	
	Display É possibile impostare la posizione delle sovrimpressioni nell'immagine	Privacy Impostazione delle maschere privacy
Registrazione	In basso a destra  V Nome della telecamera	Per proteggere la privacy è possibile impostare delle zone oscurate in modo che ciò che accade in queste aree non venga visualizzato e registrato.
Rete	In alto a destra V Data e Ora	
۵	Orientamento E possibile regolare l'orientamento dell'immagine in base al montaggio della telecamera.	
Sistema	Off <ul></ul>	
	Regolazioni avanzate dell'immagine Regola le impostazioni di visualizzazione del video	

DISPLAY - Defines the position of the overlay of the channel name and date and time WATERMARK -

Inserts the reference to the NVR in the overlay

ORIENTATION – You can set image rotation or mirroring depending on the mounting position of the camera.

ADVANCED ADJUSTMENTS – Set Brightness, Contrast, Saturation and Sharpness PRIVACY – You can set up to 3 masking areas to cover privacy areas that need to be excluded from surveillance.

AUDIO

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D <mark>SE</mark>	Camera3 V Nome: Camera3 V
Telecamere	Modello:         LW5B2           IP:         172.20.18.16           Versione firmware:         MFG5W_16NR_ALW_V1.0.0.230925_R1
Gestione canali	Flusso Display Audio Illuminazione Rilevazione
	Microfono
	Abilita il microfono per poter ascoltare l'audio.
Registrazione	C Registrazione
() Rete	Altoparlante É possibile utilizzare l'altoparlante della telecamera per allarmi sonori o per dialogo bidirezionale.
\$	
Sistema	

Activate the microphone in the camera and adjust the speaker volume

#### LIGHTING

DSE	Camera3  Nome: Camera3 Modello: LW582
	IP: 172.20.18.16
Telecamere	Versione firmware: MFG5W_16NR_ALW_V1.0.0.230925_R1
Gestione canali	Flusso Display Audio Illuminazione Rilevazione
E B Registrazione	Seleziona la modalità di illuminazione da utilizzare nella visione notturna Modalità Smart A Modalità di illuminazione Modalità a colori
A	Modalità a infrarossi
Rete	Modalita smart
\$	
Sistema	
	Modalità a colori Quando la telecamera entra nella modalità di visione notturna si accendono i LED bianchi con ripresa a colori.
	Modalità a infrarossi Quando la telecamera entra nella modalità di visione notturna si accendono i LED infrarossi con ripresa Bianco/Nero.
	Modalità Smart Quando la telecamera entra nella modalità di visione notturna si accendono i LED infrarossi con ripresa Bianco/Nero. Se durante la visione notturna si verifica una rilevazione intelligente si accendono i LED bianchi con ripresa a colori.

Here you define how the camera LEDs should behave when darkness falls and night mode is activated.

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COLOR MODE – the LEDs always light up white with color shooting INFRARED MODE - The camera LEDs always turn on in infrared with Black/White shooting

SMART MODE – The LEDs turn on in infrared with B/W recovery and switch to white light with color recovery in case of detection.

#### DETECTION

DSE Telecamere	Camera3   Nome:   Camera3      Modello: LW5B2 Here: Mr2.20.18.16 Versione firmware: MFG5W_16NR_ALW_V1.0.0.230925_R1
Gestione canali	Flusso Display Audio Illuminazione Rilevazione
	Sensibilità di rilevazione Allarme
	Imposta la sensibilità della rilevazione intelligente. Imposta i dispositivi di allarme sonori e luminosi.
Registrazione	C Segnali d'allarme
	Basso Medio Alto Cipositivi di allarme
	Allarme di intrusione V Seleziona un suono
Rete	
	Area di rilovazione Controllo del volume del suono d'allarme
\$	Imposta rarea di nievazione intelligente. 80
Sistema	

Here you set the camera detections thanks to which it is possible to send notifications and activate alarm actions.

DETECTION SENSITIVITY - Set the detection sensitivity

DETECTION AREA – Here you set the area in which the detection will be active, excluding non-relevant areas, and define whether to detect any movement or only people or vehicles. TIME PROGRAMMER – Enables detection in certain time slots depending on the day of the week

ALARM SIGNALS – Enables the red/blue flashing light in case of detection. ALARM DEVICES – Enables the diffusion of a sound through the camera speaker in case of detection. In the box below you choose one of the preset sounds and the playback volume

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## CONFIGURATION | CHANNELS

Click the CONFIGURATION button then CHANNEL MANAGEMENT to add or delete cameras to the NVR

×
•

In this section you can upload IP cameras and configure channels

ATTENTION: The procedure foradding cameras to your wifi kit is explained in the installation manual

At the top you can type the name to assign to each channel.

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![](_page_9_Picture_2.jpeg)

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# CONFIGUR. | REGISTRATION

Click the CONFIGURATION button then REGISTRATION to set the kit registration options.

#### **REGISTRATION PROGRAM**

![](_page_9_Figure_7.jpeg)

At the top choose the camera. By default, all channels have continuous recording enabled (green color) and also recording in case of detection (blue color). You can delete the colored band in the time slots where you do not wish to record.

Continuous recording ensures that important images are never lost, while recording in the event of detection helps to easily trace relevant episodes.

#### HARD DISK

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![](_page_10_Picture_2.jpeg)

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DSE	Programma	registrazione H	ard disk Arc	chiviazione cloud				×
	NO.	Modello	Capacità	Spazio rimanente	Stato	Temperatura	Operazioni	
*		WDC WD10PURZ-85	U 976.76G	976.76G	In uso	36°C		
Telecamere								
Gestione canali								
Registrazione	Auto	✓ Sovrascr	ittura					
۲				٠				
Rete								
•								
Sistema								

On this page you can check the status of the NVR's internal hard disk and know the total and residual capacity. With the FORMAT button you can proceed to format the disk with the deletion of all data. When you have inserted a new disk you need to enter this window and format it to make it usable.

If your hard disk is working well and has been formatted, in this window you should see it indicated as IN USE with correct indication of the maximum and residual capacity.

OVERWRITE – Here you can limit the storage capacity of the NVR to a certain number of days. Typically you leave this option on AUTO so that when the disk is full it automatically overwrites older files.

#### **CLOUD STORAGE**

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![](_page_11_Picture_2.jpeg)

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DSE	Programma registrazione Hard disk Archiviazione cloud	>	×
	Provider di servizi cloud		
*	event_picture Cartella di upload		
Telecamere	Nome utente		
Gestione canali			
Registrazione			
Rete			
\$			
Sistema			
	Test Applica		

The kits allow you to save images recorded in the event of an alarm on a CLOUD storage server via the Internet. Google cloud service is supported. In this case we are not talking about services similar to our P2P Cloud to facilitate the connection, but about web archive spaces that you can purchase from Google to store data online.

Note that it is not possible to save continuous recordings to the cloud, but only images following an alarm (motion, alarm input, etc.)

Before completing this table you must obviously subscribe to Google Cloud and have access credentials. You also need to create a folder in your cloud space where you can save your files.

On this page you must enter your Google Cloud login details. After entering the required data, use the TEST button to verify that they are correct.

Once connected, the available and occupied space on the server will be indicated.

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![](_page_12_Picture_2.jpeg)

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# **CONFIGURATION | NET**

Click the CONFIGURATION button then NETWORK to set the kit's network options.

DSE	Normale Imp. avanzate	×
	Connettività di rete	
	Abilita DHCP	
Talacamara	192 . 188 . 2 . 141 Indirizzo IP (IPV4)	
relecantere	255 , 255 , 258 , 0 Subnet mask	
-0	192 , 168 , 2 , 1 Gateway	
Gestione canali	8 8 8 0NS Primario	
Benistrazione	Hotspot WiFi L'hotspot WiFi viene usato per la trasmissione video wireless tra NVR e telecamere. Utilizza i canali wireless in conformità con le leggi e le normative locali	
registrazione	UK/AU (1-13) Codice Paese	
	Auto Canale wiretess	
Rete		
\$		
Sistema		
	Applica	

NETWORK CONNECTIVITY – IP address, Subnet mask, Gateway and primary DNS are the addresses that allow your DVR/NVR to communicate with the network. The easiest thing is to keep the factory setting with DHCP enabled so that the device automatically configures itself on the network. To use this function, the DVR/NVR must be connected to a network with a router or other equipment that acts as a DHCP server.

If for some reason you have to enter the parameters manually, read up carefully before doing so because entering incorrect parameters can make the system unreachable from the outside. Remember that all devices on your network must have IP addresses with the same first 3 numbers and the same subnet mask (usually 255.255.255.0). The gateway is usually the router address, number 1 on the network (for example 192.168.1.1). DNS is important for the DVR/NVR to browse the Internet and connect to external hosts, such as our P2P server or your SMTP provider to send emails. If you don't know your provider's DNS, use Google's 8.8.8.8.

WIFI HOTSPOT – Here you can set the parameters of the NVR's wifi network with which it communicates with the cameras. It is not normally necessary to change these parameters, except the Country Code,

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![](_page_13_Picture_2.jpeg)

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which you need to set to UK/AU (1-13) if you want the NVR's wifi network to be visible to external devices such as mobile phones.

![](_page_13_Picture_5.jpeg)

PORT SETTINGS – The ports used by the NVR/DVR for network communication when using the http, RTSP, ONVIF protocols are indicated here. Our private protocol, used by the IoVedo.RK app and software, uses port 6000 by default. It is advisable never to modify these communication ports.

EMAIL - In this section you can enter the data necessary to ensure that your NVR/DVR sends emails in the event of an alarm. You must consult your email provider to know what data to enter in order to communicate correctly with the SMTP outgoing mail server.

In the RK series NVR manual you can find configuration examples with some providers

UPNP - If you have a static IP address on the Internet, you can also decide not to use our cloud server to connect via the web and connect directly via the Internet to your router's IP address.

In this case you must map the router ports so that the ports used by the DVR/NVR are transferred from the Internet side to your DVR/NVR on the internal network. It would be a good idea to do the mapping manually in the router configuration. However, if your router accepts UPNP mapping you can also enable it in the NVR so that it runs automatically.

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![](_page_14_Picture_2.jpeg)

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DDNS - DDNS servers are services offered via the Internet that allow you to reach a variable IP as if it were static.

With our DVR/NVR you don't need these services because the P2P cloud server that we offer for free performs this function very well. However, video recorders support various DDNS services and you can set the connection data in this folder if you intend to use them. Remember that if you use a DDNS service, instead of our P2P cloud you will have to appropriately map the ports in the router to be able to communicate with the DVR/NVR.

Typically, the data required to connect to a DDNS server are the domain name and credentials and are assigned by the DDNS provider when subscribing to the service. You can also set a refresh interval that indicates how often the DVR/NVR will communicate its connection data to the server.

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![](_page_15_Picture_2.jpeg)

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# **CONFIGURATION | SYSTEM**

Click the CONFIGURATION button and then SYSTEM to set the general options of the kit

#### DISPLAY

DSE	Display Data Or	a Utenti Anomalie Informazioni Manutenzione	×
	Italiano	✓ Lingua	
	1920x1080(Consigliato) ~	Risoluzione	
<b>A</b>	60HZ ~	Formato video	
Telecamere	Mai	Ritardo screen saver	
	10 Sec 💊	Intervallo scansione ciclica	
Gestione canali		Velocità puntatore del mouse	
Registrazione			
Rete			
Sistema			
Registrazione Rete Rete Sistema			

LANGUAGE – The factory language is Italian, but you can choose another from the dozens available RESOLUTION – Here you set the resolution of the video outputs for the monitor. Don't set too high a resolution that your monitor doesn't support. The resolution most commonly supported by monitors is the factory resolution 1920x1080. If your monitor is 4K you can also set the resolution to 3840x2160 which applies only to the HDMI video output.

VIDEO FORMAT - Choose 50Hz for Europe

SCREEN SAVER DELAY – Defines after how many minutes of operator inactivity the system will request a new login to access the NVR.

CYCLIC SCAN INTERVAL – Here you set how long each camera stays on the screen when cyclic scanning is activated from 5 seconds to 5 minutes

MOUSE POINTER SPEED - Adjust the speed of the mouse

DATE AND TIME

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![](_page_16_Picture_2.jpeg)

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TIME ZONE - Choose the time zone of your area which in Italy is GMT+1 DATE FORMAT - Choose the format to indicate the date normally Day/Month/Year TIME FORMAT - Choose the format to indicate the time 12 or 24 hours

SYSTEM TIME - Shows the NVR time

ENABLE NTP - If you enable NTP synchronization the NVR will synchronize the time via the Internet with an NTP server. In the advanced settings you can set the server, the port to use, normally 123 and the frequency of synchronization with the server in minutes.

DST - Sets automatic switching to daylight saving time. In Italy it is set up as in the example in the figure

USERS

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![](_page_17_Picture_2.jpeg)

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DSE	Display Data	a Ora Utenti	Anomalie	Informazioni	Manutenzione	×			
	Account attuale	*							
•	acmin (Amministratore)	<u>v</u>							
Telecamere									
	Nome utente	Tipo di account	Opera	azioni					
Gestione canali									
Registrazione									
Rete									
•									
Sistema									
	Amministratore Ha ac								
	Operatore Ha accesso a tutte le funzioni ad eccezione della gestione disco e degli utenti Utente normate Accede alla visione live e al playback, ma non alla configurazione dei parametri.								

CURRENT ACCOUNT – The first button indicates the currently logged in user. With the edit button you can change the password

ADD ACCOUNT - Press to add a new user. Only the admin user can create new users

LEVEL - There are two pre-configured permission levels that you can choose when creating the user: Operator User (access to all operations excluding disk and user management) and Normal User (access to viewing and playback only)

ANOMALIES

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![](_page_18_Picture_2.jpeg)

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D <mark>SE</mark>	Display D	ata Ora Ute	nti Anomalie	Informazioni	Manutenzione	×
	Allarme Acustic	0				
•	Disco pieno Errore del disco	rigido				
Telecamere	✓ Conflitto di IP ✓ Rete non connection	essa				
Gestione canali	5 minuti	✓ Durata de	I suono del cicalino			
Registrazione						
Rete						
Sistema						

Here you set the internal buzzer of the NVR which can be activated in the event of the indicated anomalies SOUND DURATION - Indicates the cadence with which the buzzer will be activated to indicate the anomaly

#### INFORMATION

Indicates the information on the NVR, the link for the IoVedo.RK app and the serial number to register the NVR in the app

#### MAINTENANCE

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![](_page_19_Picture_2.jpeg)

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DSE	Display Data Ora Utenti Anomalie Informazioni Manutenzione	×						
	Riavvio automatico							
	Settimanale V Dom V 3 ore V 3 minuti V							
Telecamere	Aggiornamento							
Gestione canali	Aggiomamento automatico							
	Predefinito							
Registrazione								
Rete								
Sistema								
	Ripristino semplice Ripristina tutti i parametri tranne le impostazioni utenti, rete e canali.							
	Ripristino impostazioni di fabbrica Ripristina tutti i parametri di fabbrica							

AUTOMATIC RESTART - You can set the system to automatically restart periodically UPDATE - You can update the device's firmware if you have received an update file from our customer service. The file must be copied onto a USB stick then inserted into the NVR/DVR. By inserting the USB stick the file is detected and listed in the table. To start the update, choose the file and press UPDATE.

DEFAULT - In this section you can restore the device's factory parameters. You can choose between a complete reset of all factory settings and a simple reset that preserves network, user and channel settings.