

**Operating Instructions WLAN Recorder DVR-638-2 / 634-2
"AMGoCam"**

2017/12/13 (09) FW2.7.7.



Note:
All cameras of the DVR-638-2 / 634-2 "AMGoCam" are already connected to the recorder, the recorder configuration is complete we made for you. There are NO changes in the recorder's menu needed!

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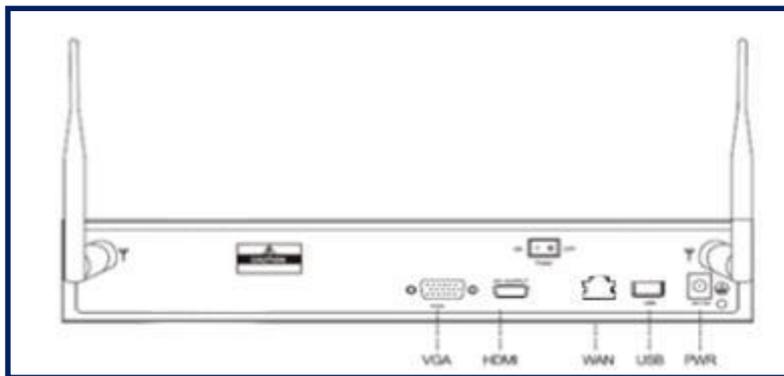
NEW!! - Video viewing by German server

The online video viewing via smartphone / tablet or PC via the Internet through our server in Germany. The advantage is that you have a stable and fast connection and do not run a third-party. This means that your data is safe from unauthorized access.

It does not store the photos / videos on the server.

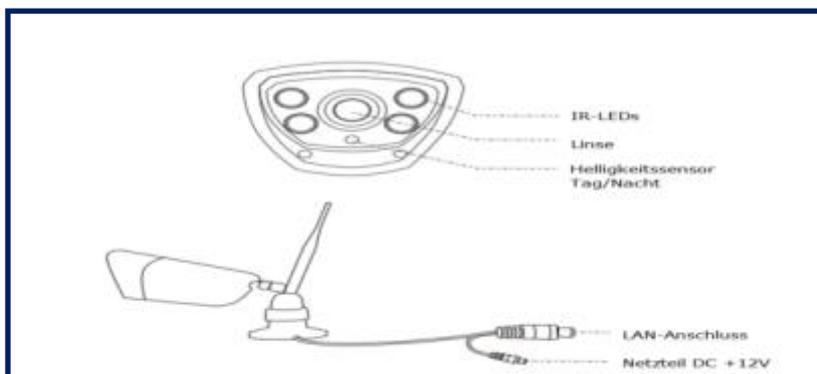
Appliance description

Back view



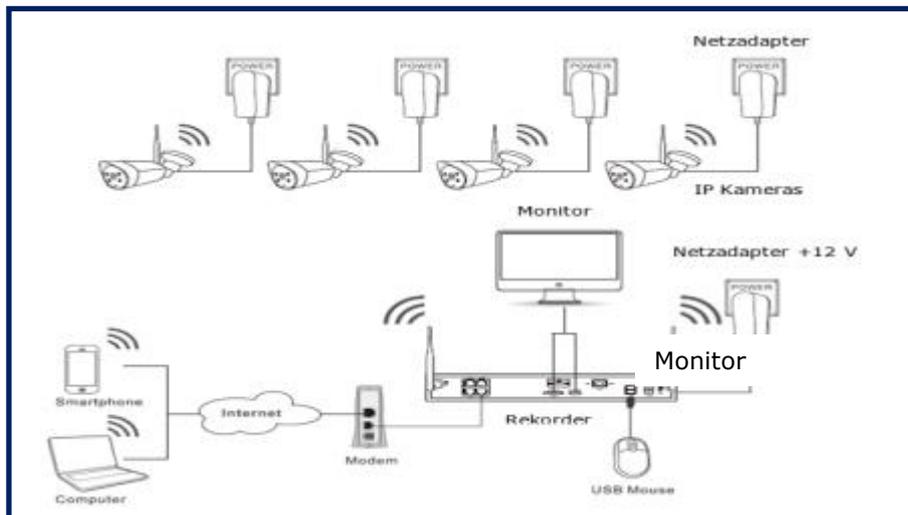
Interface	Description
WAN	The WAN port is used to connect to the local network / Internet produce / to the teaching of the cameras
VGA/HDMI Interface	Connection for external monitor via VGA / HDMI
USB Interface	USB port for mouse / wireless mouse transmitter, USB stick, for backup, for single shots
Power Switch	Device ON / OFF switch (varies by Model)
PWR	Connection mains adapter 12 V/3 A .

Cameras



Interface	Description
LAN	The LAN port is used to the camera for teaching the recorder via an Ethernet cable to connect. Please do not connect a LAN cable for a wireless connection. (depending on the model)
Netzteil DC	Connection mains adapter 12 V/1 A.

Typical applications



1. Connect the supplied USB mouse to the back of the USB port.
2. Connect a monitor via VGA or HDMI.
3. Connect an Ethernet cable to your DSL router on the WAN port.
4. Connect the AC adapter 12V / 3A to the recorder.
5. Connect the 12V / 1A power adapters to the "DC power supply" connector on the IP cameras.
6. Turn on the recorder and the cameras.

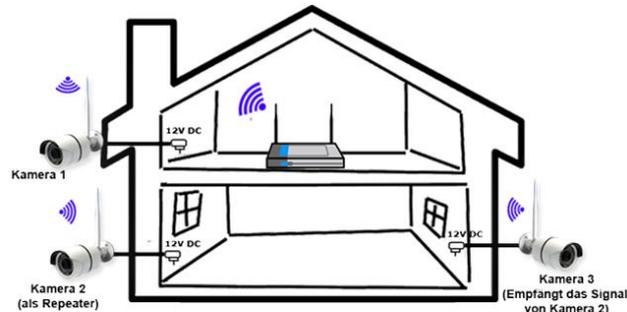
Note: Before installing the cameras fixed at the installation, set up the radio signal of the cameras using the procedures described below instructions beforehand. This ensures a stable video transmission.

Set stable radio connection of the cameras

If your DVR and the cameras are far away from each other and the video transmission is unstable, you can use the supplied cameras as a "bridge" (repeater) for the wireless connection.

Sketch

Example of the repeater function (bridge of the radio signal) the wireless cameras



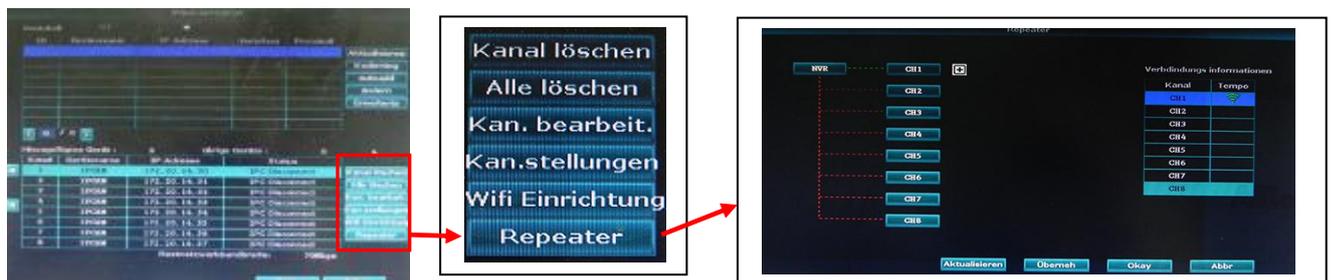
Configuration

Setting up the camera as a "repeater":

You can set up the cameras as "repeaters" (bridging the radio signal). Follow these steps before mounting the cameras, placing the cameras close to the recorder ready **for use** and considering which camera to use as a repeater. You can switch a maximum of 3 cameras in a row as a repeater.

Proceed as follows:

1. Make sure the cameras are connected (12V) and they receive a signal.
2. In the video window, press the right mouse button and click on the "Manage Video" menu.
3. Click on the new menu item "Repeater".



Here you can set up the camera as a "bridge" of the radio signal. All green lines from the DVR are within reach. The red lines indicator that the radio signal is out of range. Try to find a closer mounting location to get a sufficient signal from the camera.

Settings Assistant Recorder

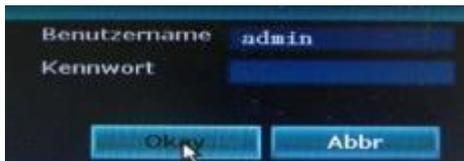
The initial configuration can be easily done via the Settings Wizard. The most important basic settings we have already done for you. You can work with it as immediately.

Step 1

Turn on the recorder and the cameras, please wait a few minutes, the camera images should then be already displayed on the monitor. Who do you want for the time being to make any other settings, you can use the cameras to the appropriate places mount.

For further settings continue to step 2.

Step 2



Right-click on a window. The login screen opens. By default, you log in with "admin", the password field is left blank, no password is set at the factory.

Step 3



Go to the menu item Setup Wizard, it will open the following window. Here you can set the time zone, date and time, language and daylight saving time settings. If you change the time or date, please confirm the "Apply" button before leaving the window, otherwise the changes will not be accepted.

Step 4



To continue and go to the hard disk menu, press "Next" and the following window will be displayed. Here you can see the total hard disk capacity and the used storage space. You can reformat the hard disk at any time by selecting the check mark in the "Format" column and then pressing the "Format" button.

Attention, once you do that will erase all data on the hard disk and are lost.

Step 5

In this window you can set how your recorder should save a recording. Here you have the option to save images after a preset time or motion pictures.

You can individually adjust each channel if you want the same settings for all channels, configure the channel 1, choose from among weekday, for which day the recording is to be performed (Mo-Su or all days) and then select the end under the menu "Copy" in "all".

In the function of the weekdays, we recommend that you set the setting to "daily". Now you have set up a channel to your liking and have copied these settings to all other channels.

Note: By default, the DVR-638-2 / 634-2 "AMGoCam" is already preset to Motion (motion detection) mode.

You can call up and adjust this menu again at any time via the main menu.



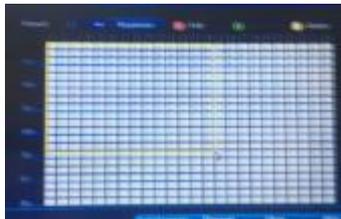
Timed recording = red bar



Resetting the recording-setting and changing
Click on button



⇒ all days and times are empty



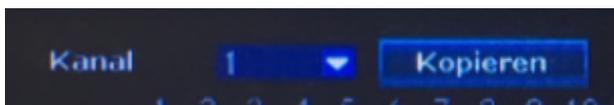
Activate motion detection:

Click on "movement" in the head of the table
Hold down the left mouse button and drag until all fields are green as desired.



e.g. Motion detection 24 hours every 7 days

If these settings are to be adopted by several cameras -> select the desired / all camera and click Copy -> click Apply



Step 6



Here the basic settings for the network access are set. Here it is easiest to put a tick in the DHCP field. It is automatically set by your DSL router now the IP address, you need to do nothing more.

The recorder supports two network connection types:

DHCP: Here all network settings are automatically set by the DSL router (standard!).

Static IP: This point is only for savvy users who are familiar with manual network configuration.

PPPoE: This function is not supported, a setting is not necessary here.

We recommend that you have at least a 16,000 mb / s line if you want to connect the DVR to the network. This can lead to a deterioration of the image quality during transmission.

Note:

The wireless LAN recorder **can not** be integrated into an existing WLAN network. Access to the Internet must always be done via LAN cable from the wireless LAN recorder (WAN port) to the router.

The cameras are connected to the recorder via the WLAN network and this refers to the name "WLAN recorder".

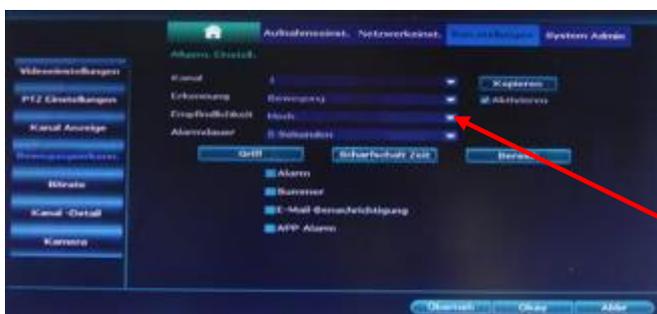
Step 7



You can see the registered video cameras in the menu (right mouse button ◊ "Manage video"). As a rule, the available cameras registered in the recorder should already be displayed here.



To enable or disable motion detection for each channel, select the camera in the main menu (Channel Settings ◊ Motion Detect). In this menu, please only change the entry "Detection" if necessary. There are three different modes available here. By default, the entry "Motion" should be set, this activates motion detection. Furthermore available are "alarm input" and "video loss". If you want to turn off motion detection, you should switch to Video Loss. With the button "Copy" you can accept the settings for all cameras and do not have to configure each camera separately.



If the cameras are set for motion detection and should fire in the rain, lower the sensitivity.

In the menu "Network settings" you can edit the network settings as described in step 6. If you want to make the recorder available for the Internet, you have to check "DHCP or P2P". Further settings for the menus "DDNS", "FTP", "PPPoE Ben.", "3G", "E-mail", "Wifi Setup" are not necessary for the operation of the recorder and should under no circumstances be changed.

We recommend that you do not change the default settings!

Note to FTP setting:

There is no general installation path for setting up the FTP access because it depends on the particular device. For a proper setting of the FTP access, we therefore recommend to get a specialist on site with good network knowledge.



A notification by e-mail depends on the provider, not every provider supports this function of the recorder. The following menu shows you where which entries have to be made. If necessary, you should leave these settings to a specialist.

Note for notification via SMS / MMS:

It is not possible to receive a notification via SMS or MMS on motion detection of the camera.

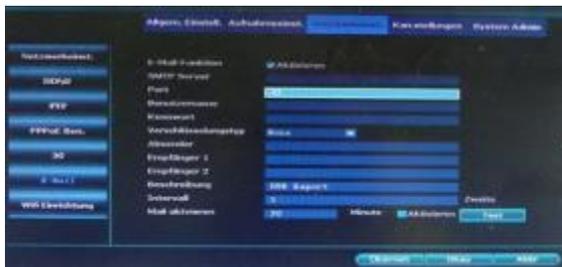
Use our app "AMGoCam" for Android or IOS to access a live image.

In addition, with the app "AMGoCam" you have the possibility to record videos directly on your smartphone / tablet and play them (regardless of the storage of videos on the recorder).

Note:

There are no videos / pictures stored on the AMGoCam server (data protection). Only videos or images are displayed that are stored on your DVR or smartphone. Here only the assignment of the recorders (after recorder ID) to the IP addresses takes place.

For a notification via SMS, we recommend an additional alarm center that works independently of the video system and sends an SMS.



The following setting of the e-mail provider "Yahoo" has been tested (information without guarantee):

SMTP Server: *smtp.mail.yahoo.com*

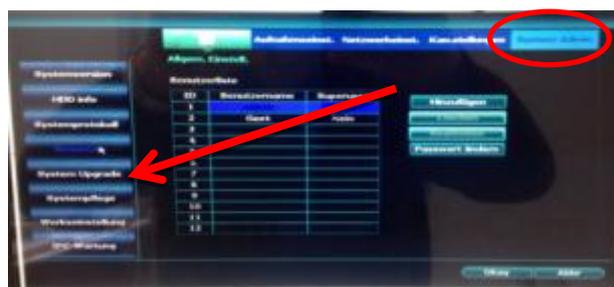
Port: *587 / alternativ 465*

Username: *Your E-Mail Adresse*

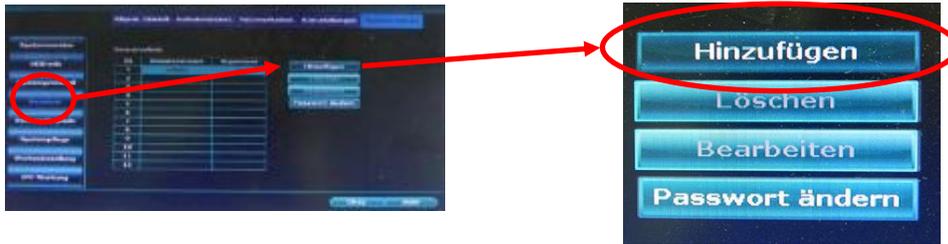
Password: *Your e-mail password for registration*

Need SSL: *Yes*

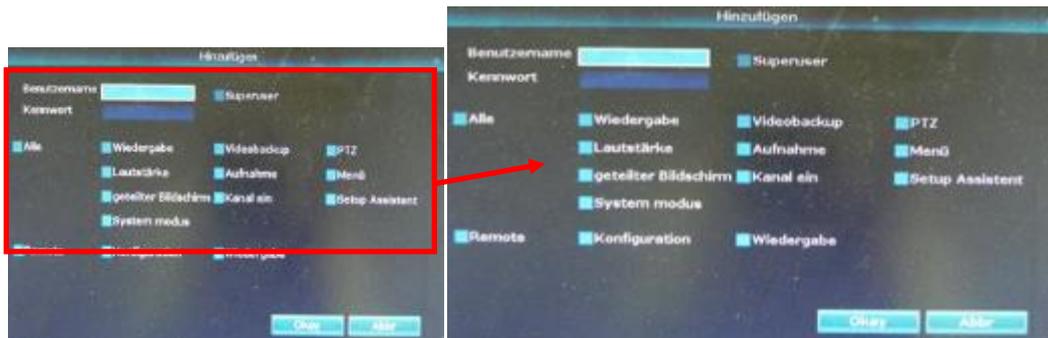
Create another user



Under the menu System Admin ◊ User you can continue to create users for the DVR-638-2 / 634-2 "AMGoCam", change individual authorizations or passwords. The DVR-638-2 / 634-2 "AMGoCam" can distinguish up to 12 users. By default, the user [admin] is already defined - this can not be deleted.



In the overview [User] the currently known users are displayed. Users with administrator rights can create new users, delete them or assign a password to the respective user. The actions are then carried out using the commands [Add], [Delete], [Edit], [Change password] for changing or assigning a password.



[Add], [Delete], [Edit], [Change password] for changing or assigning a password.

Furthermore, you can also assign individual access rights to the respective user. Change the authorizations by inserting or removing the check mark from the respective access rights. We recommend that you create a user with restricted rights and then use these credentials on your smartphone.

You should protect the "Admin" with a password and not use it.

Manually play videos

The Play function lets you view / search your recordings. This allows you to check the last 5, 10 or 30 minutes of camera surveillance. You can search all channels or only selected channels for different choices (Manual, Time, Motion or Sensor). With the button [Search] you start the search for the desired recording.



Note: By default, the DVR-638-2 / 634-2 "AMGoCam" is already preset to Motion (motion detection) mode.

Hardware installation (installation of the cameras)

After all settings are completed, you can mount the cameras at your installation site. Make sure that the distance between the camera and the recorder does not exceed 60m. There should be no obstacles such as walls or bushes, etc. Any obstacle can limit the transmission.

Video surveillance per App „AMGoCam“

Download the app "AMGoCam" for Android:  and IOS via 

ATTENTION! Please note that the live image in the app or in the internet browser will be delayed for about 10-15 seconds thanks to the use of the internet web. When using the app in the GSM network (not in the WLAN), this time can be significantly extended.

2 ways of using the App AMGoCam:

1. You can click on "trial version" without logging in and leave username and password blank. Then touch the + (Add a new device), scan the ID of your recorder (in the Network Settings menu) or manually enter, save and send and have full access to the live image.
2. After starting the APP (Illus. 1), enter your username and password. After successful registration, a window opens with an overview of the cameras (Figure 2). Click on the "+" symbol in the upper right corner to add the cameras (picture 3). The menu opens as shown in picture 4. Here you can scan the QR code from the DVR menu in the upper right corner [Menu ◊ Network Inst. ◊ Display QR Code] to perform an automatic entry of the fields. There is also the possibility of manually entering the data. In the field "ID" comes in the DVR-ID of the recorder, this number can be found in the main screen of the DVR bottom right. Finally, if not already preset, select the number of cameras. Since this is a recorder with 8 channels, please select the "8" here. It may take a few seconds for the camera images to appear. It may take a few seconds for the camera images to appear.



Image 1

Image 2

Image 3

Image 4

To watch the live videos now, simply select the channel you want to watch. As you can see in Figure 2, after some time the display of the video channel that you have selected will be displayed. You can call up other channels at any time by selecting the channel. By clicking on the preview, a window opens in which each channel is displayed. Swipe from right to left to switch to the other video channels. If you want to enlarge a channel, double click on the preview window of the video channel. To close, click again twice at the window.

Please note, if you are traveling and want to look at the images of your camera, you should also have a good wireless connection / network coverage on your smartphone. If the power supply is poor, it may take a long time for an image to be played back, or it will not connect.

Note: The app AMGoCam can close itself when opened the first time. Please start the app again. If you can not access the image of your recorder, go back a step and click on your recorder's image again to open the live view. It is important to note that only a maximum of 2 devices can access your recorder at a time. Close the app completely and check if it no longer works in the background before you want to access the recorder with another device (Android: apps continue to run in the background -> check the instructions for your Android device on how to close apps completely).

View recordings from the recorder

You can use the app to watch the recordings on your recorder while on the move. To do this, tap the Recordings button in the APP (Illus. 5).



Image 5

In picture 6 you can now see how the connection to your recorder is established. At the bottom there is the "Channel" button, here you can choose which channel you want to see the record from. Attention it may take depending on how the current network connection is, until you get displayed here, if there are records.

With this 📍 button the playback will be started, on the timeline below there will be corresponding markings for existing recordings.

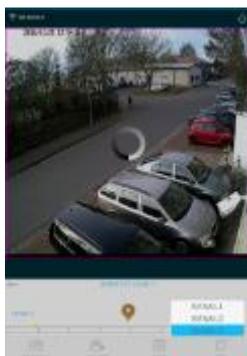


Image 6

Display on the PC

Open Internet Explorer and enter „<http://www.amgocam.de>“ at one address line. Using other browsers such as Firefox, Chrome, etc. may cause display errors, so please use Internet Explorer. In some cases you have to install a plug-in.



Next, you will see this login screen, here you enter the credentials as before when setting up the app. And press the button "Login".



Cloud ID: ID of DVR

Password: **Leave the password field blank if no password has been set by you**
Web Adresse: www.amgocam.de/

Reset the configuration to factory settings

Please call up the main menu, go to the submenu System Tools → Factory settings. Here you put the checkmarks in the fields that you want to reset. Finally, confirm the process with "OK".

Note, however, depending on what you have selected, the language settings can also be reset, then an English menu guide may be active. Just go to the Setup Wizard and go through the basic settings again.

The ADMIN password will NOT be reset!

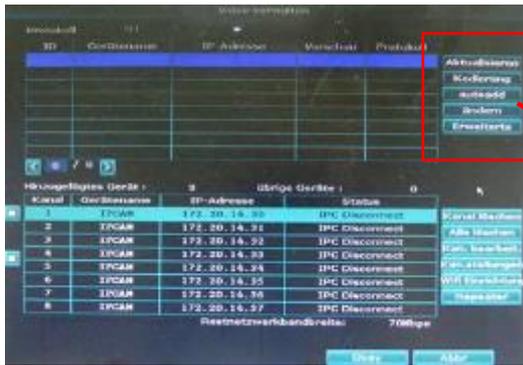


Learning the cameras ("Manage video")

-> power all cameras!

Automatic update (optional) of already learned cameras after loss of connection

For this you put at best all available cameras next to the DVR, so that they are definitely within reach.



Press in the right column „autoadd“.

If the camera images do not appear after a few seconds, click on "Update" and then run the process again by clicking on "autoadd". Now all camera images should be displayed.

If this does not happen then please do the "Manual Add".

Manually adding the cameras

Disconnect the LAN cable from the DSL router and connect it directly to the camera and the wireless LAN DVR (WAN port).

Call video management menu with right mouse button.

As the next step in the lower table, select the channel to be populated with a new camera.

Example: "Channel 2" should / was replaced and must now be re-taught. Power the camera -> set the network cable between the recorder and the camera -> use the mouse to highlight "Channel 2" -> delete channel -> then press the "Coding" button in the upper table.



The coding is now created and the data is transmitted via LAN cable to the camera.

If everything was transferred correctly, the MAC address of the camera is connected successfully in the adjacent table.

If you would like to teach in a second camera, then plug the LAN cable into the second camera after the MAC address of the 1st camera appears in the table. You end the teaching process, if all cameras (MAC addresses) are all in the right table by clicking on "Output"



Change video images automatically

1. Press the right mouse button and select the menu item "Menu".



2. Click General Settings> Screen Settings
3. Set the "Auto Switchover" (Auto Switchover Time 2,3,4,5,) -> then select "Enable".
4. Click "OK" to save the settings.

TV Settings

We have noticed that not all televisions accept the HDMI signal from the DVR, the message "no supported mode" or just a black screen appears. In this case, it helps to take the HDMI input 2 or 3 of the TV.

System Menu

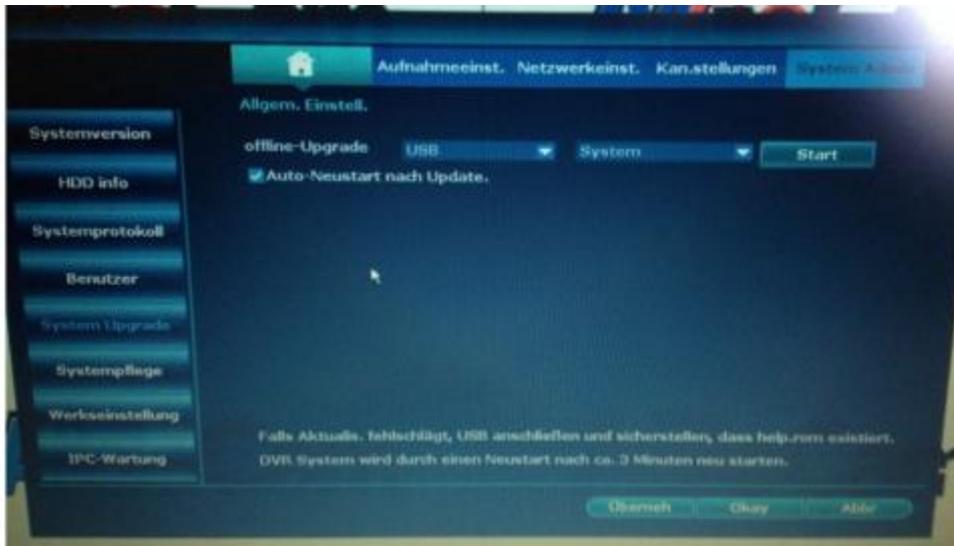
Here you have an overview of the current software version as well as the possibility of retrieving the various "QR codes" for the app "AMGoCam" (Android, IOS, Web).

In the System Admin you will find an overview of the currently used software version as well as various "QR codes" for scanning the "AMGoCam" app (Android, IOS) or the web address for the "AMGoCam" video server.

Firmware update take through

If required, a firmware update can be made via the menu "System Admin ◊ System Upgrade". Save the update which you can get from us if necessary on a USB stick. This should not be larger than 4GB and be formatted with "FAT" or "FAT32". The USB stick is connected via a USB hub (USB distributor) with the mouse to the recorder, go to the menu and just press "Start".

Now the update will be installed, make sure that the power supply is not interrupted during this period, that update could otherwise cause damage to the recorder. After the successful update the recorder restarts, it may happen that you have to re-teach the cameras afterwards. An update only needs to be done if it is necessary and we can provide the right firmware update, it is not always necessary.



Mounting Dom-Camera

Step 1:

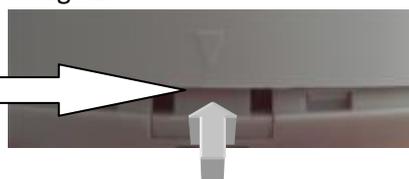
Open the housing by pressing the safety catch (Image 1).

Image 1



Abbildung kann vom Original abweichen

Image 2



Pictures may differ from the original

Step 2:

Take the housing upwards (Fig.3). Now you should have the dome camera as in picture4.

Image 3



Pictures may differ from the original

Image 4

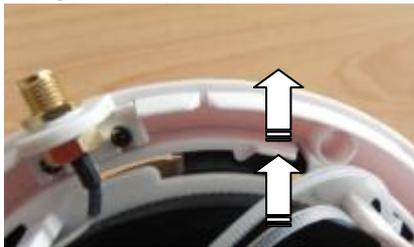


Pictures may differ from the original

Step 3:

Push the securing device upwards in the direction of the arrow (Fig. 5) and at the same time move the rear side (Fig. 6) in the direction of the arrow on the left.

Image 5



Pictures may differ from the original

Image 6



Pictures may differ from the original

Step 4:

There are 3 holes on the back of the dome camera (Figure 7). Now the dome camera can be mounted to the desired location.



Pictures may differ from the original

Image 7



Pictures may differ from the original

Notes on the radio range of your new radio system

Radio signals are subject to many influences. This can e.g. other radio signals or shielding from objects such as walls, floors, etc. Also reflections, wavelength of the radio signals and even the humidity play a not to be underestimated role.

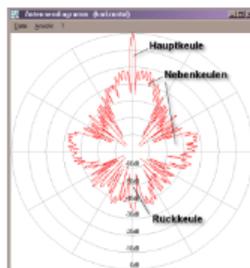
These influences are subject to constant change, so that a radio link can never be absolutely stable. It can happen that you can use a perfect wireless connection in one day and notice disturbances in the picture the next day.

During commissioning, the most important task is to choose a suitable position for transmitter and receiver.

If you are not satisfied with the picture quality, select a different position for the transmitter or the receiver if you move the device / antenna of the transmitter or receiver 3-5 cm to the right or left or up and down, sometimes making small changes great difference and improvement in reception.

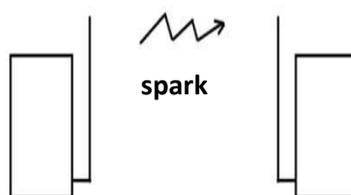
Also, the position of the antennas can improve or degrade the reception quality. Test the antennas vertically, diagonally or horizontally and check the received image.

In addition, you can gradually reduce the distance between transmitter and receiver. If you now get the desired result, you can now see which wall e.g. shields so strongly that a wireless connection is impossible. Transmitter and receiver use so-called omnidirectional rod antennas. Ideally, these antennas send and receive their signal like a circle around the antenna (horizontal 360 degree signals). The practice looks different, however (see picture).



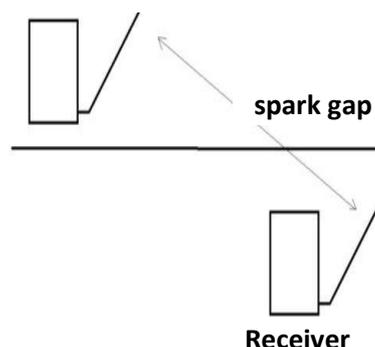
These signals then hit on different dense materials (walls, water pipes, etc.). If you now flatten the antenna of the receiver, then the transmitter signals go over it. Transmitter and receiver Antennas must always be aligned parallel to each other (see diagrams), as if they are next to each other, just separated by rooms. If the receiver now receives the signals, then it depends on whether the receiver in the "radio shadow" behind e.g. a thicker wall or a pipe or electric line is located. This is the procedure when both devices are on one level.

Antennas are on one level



Let's take the example, transmitter on the 1st floor, diagonally below it on the ground floor of the receiver. Now both antennas must be aligned at an angle to each other, as if they are next to each other / stand, just separated by the ceiling. Again, then 30-50 cm to the right or left to avoid radio shadows by steel in the ceiling.

Antennas are at different levels



Also important: none of the antennas should touch metal (metal door, metal window, pipe or cable in the wall), power plugs should be at least 1 meter away, as well as any other electrical equipment that might sprinkle.

If you follow these instructions, we are sure that you will find a satisfactory mounting position for the radio link.

The range for radios is usually measured in the open field, or in special measuring laboratories. The range in buildings is shorter and depends on many surrounding objects.

If you continue to have problems and do not receive a satisfactory result, please send an e-mail to:

info@amg-sicherheitstechnik.de

Troubleshooting and error descriptions

- **Bad wireless connection to the recorder (1-2 bars)**
 - o Change the antenna between the cameras
 - o Change the location of the camera in question by 20-30cm backwards or forwards or upwards or downwards.
 - o Antenna wall mount for DVR Art-Nr. 900634 order additionally, so that an improvement of the reception can be achieved.

- **Network connection can not be established**
 - o if the DVR does not connect, then turn off DHCP, save and turn on again and save, if necessary, reboot.

- **No connection outside your WLANs or when you are traveling**
 - o Make sure that the data services are switched on on your smartphone / tablet / iphone.

- **No video connection**
 - o If you have a bad video connection (still pictures), this may be due to the fact that you are in a poorly supplied GSM area (3G / 4G) with your smartphone / iPhone, a telephone connection is certainly possible but due to the video transmission is not the Full bandwidth available, or they have a DSL connection, which does not have the full capacity, we recommend min a 16000 DSL with a minimum upload of 1024 kbps, here only helps a relocation or a connection at a later date.