



Defender[®]

Apollo Touch CCTV Kit

User Manual

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1. Introduction

The Defender Apollo Touch is an entry level network enabled wireless CCTV kit comprising of 1 networked video recorder (NVR) with colour monitor and 2 wireless PIR motion activated cameras with 2 way audio.

It records video files directly onto a micro SD card (not included) and can be upgraded to 3 or 4 cameras at any time (additional camera sold separately). An SD card must be inserted to record and view playback.

This system will only record **Motion Activated Events** to optimize the memory storage and to allow users to quickly check what caused an activation. i.e. an intruder or unwanted visitor.

The kit is designed for quick deployment and the setup menus are easy to follow, with this guide acting as a supporting document.

The cameras and monitor within this system are linked via a wireless frequency, meaning they do not require WiFi to operate or record footage. However, should you want to link this system with the mobile app, it must be connected to a stable 2.4GHz WiFi network. See p13.

2. Contents

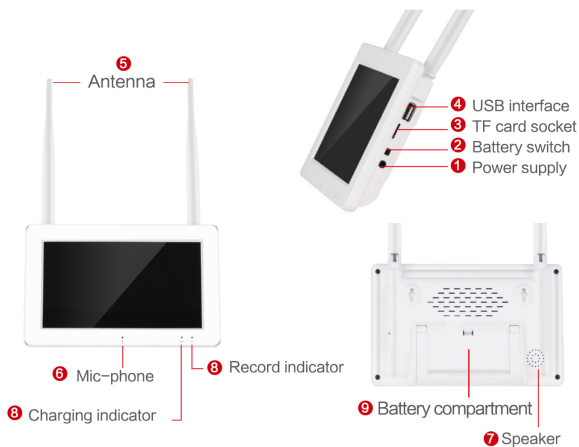
Item	Quantity
Wireless Networked Video Recorder (NVR) with Touch screen	1
Wall mount fixing screw with green plastic rawl plug	2
Self-adhesive red video surveillance warning sticker	1
Power supply for NVR 5V x 2A	1
Wireless IP66 camera c/w built in PIR	2
Installation screw with green plastic rawl plug	6
180mm wireless antenna	2
Power supply for wireless camera 12V x 1A	2
10m low voltage extension cable for wireless camera	2
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3. Safety Guidance

Position in a well-ventilated dust and damp free environment.

Check the correct power adaptors are being used. The Defender Apollo Touch uses a power adaptor rated 5V / 2A. The two wireless cameras use power adaptors rated 12V / 1A.

4. Description of Main Features

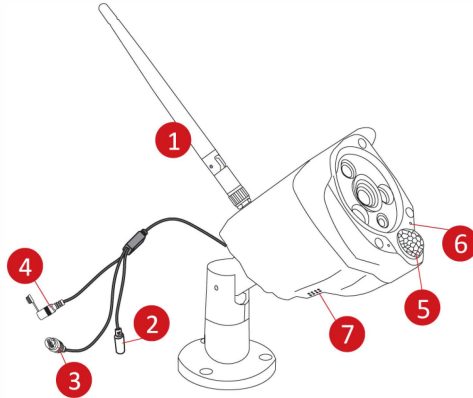


1. Power supply input: DC5V 2A
2. Battery on/off switch: used for short term (1.5-2hrs) NVR battery powered mobile use.
3. Micro SD memory card socket: maximum supported 128GB (not included).
4. USB 2.0 interface: supports USB flash drive (not included).
5. Dual antenna: for wireless signal transmit/receive.
6. Microphone: used for 2-way conversation with wireless camera.
7. Audio speaker: used for 2-way conversation with wireless camera / Alarm notification.
8. Indicator lights for charging and recording.
9. Battery compartment for 2 pcs of type 18650 rechargeable battery (not included).

Installing batteries allows portable use of the monitor when charged.

The charge time is up to 4 hours, with an operation time of up to 2 hours.

5. Wireless Camera Main Features



1. 180mm antenna for wireless signal transmit/receive.
2. DC power input. 12v x 1A
3. RJ45 port; only for connecting to router if wireless connect fails (see section 9).
4. Reset button for matching the camera to the NVR.
5. PIR electronic sensor to detects motion for NVR motion activated recording.
6. Speaker: - used for 2 way conversation with NVR.
7. Microphone: used for sound recording and 2 way conversation with NVR.

6. Quick Setup Instructions

Before installing the cameras, it is recommended that a quick desktop setup and system test is performed.

Unpack the box and check the contents (see page 2) are complete and undamaged. Screw the antennas into the cameras,

Apply power to the two cameras using the 12V x 1A power adaptor. The 2 x cameras come paired to the NVR at the factory Camera lights may briefly flash, this is normal.

Insert a micro SD card (max 128Gb) into the NVR unit – we recommend 32GB minimum.
Apply power to the display unit using the 5V x 2A power adaptor and switch On.
The display will power up and the 4 screen split will show the view from the 2 active cameras (see below example).
Identify Camera 1 and Camera 2 to aid your installation.



7. Quick Touch Options

The Defender Apollo Touch is controlled using the touch screen display.

Touch anywhere on the display to show the Quick Touch Menu



- toggles the display sound On or Off



- brings up the main menu



- accesses the digital zoom mode on the display



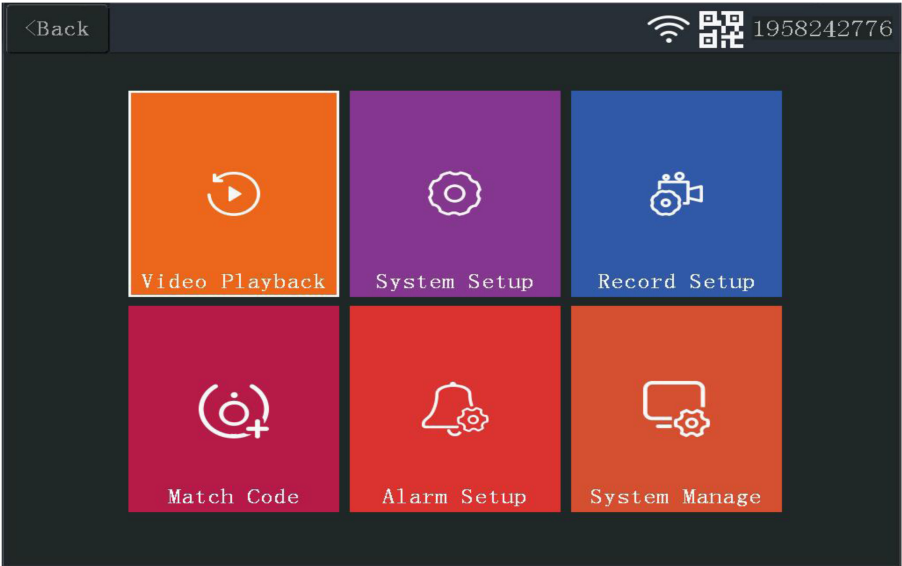
- quick link to the video playback files and file backup switch

8. Main Menu Guide

To access the main menu below touch anywhere on the screen to display the quick link options



and then press  to display the main menu below.



Video Playback

Recordings are stored on the micro SD card in folders.

They can be played on the NVR monitor or the micro SD card can be inserted into a PC/Laptop card reader to be played using Windows media player or similar.

Recorded files can be copied onto a backup device plugged into the USB port on the display or they can be copied onto a PC/Laptop directly from the micro SD card.

To Play recorded videos on the NVR monitor you need to navigate through the folders to

find the file you are most interested in. For ease of use the files are saved in a sensible folder and file structure.

The structure is as follows:

The Upper Directory has a folder for each active camera, e.g. 01, 02

Selecting a camera folder will display recordings by date: YYYYMMDD

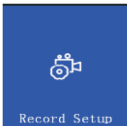
Selecting a date folder will display recordings by time in 1 hour slots: HHMM – HHMM

When viewing footage, the NVR menu displays simple options to pause, delete or save to a an inserted USB device..



System Setup:

This menu item is used to set system wide functions, including user language, time and date setting, Wi-Fi connecting, volume etc.



Record Setup:

Please note, the system is default set to auto-record whenever motion is detected. This section gives the user the option to set the system to record only when motion is detected during a specific time period.

Record Schedule

Used to set a recording schedule. There are 4 schedules that can be programmed for specific user requirements. The default is for all 4 schedules to be disabled so that ALL

motion activations will be recorded.

Enable – slide switch Green for On and White for Off

Once a Schedule is enabled it is sensible to note down your settings so that recording clash can be avoided.

For each schedule you can select the camera(s) (channel number(s), the day(s) that your schedule will be active for and time that you want the camera(s) to be in motion detect recording mode.

Type

Motion – For information only. This setting cannot be altered.

Time

00:00 ~ 23:59

Default is to have the recording Schedule switched off so that all triggers are recorded.

Set up for individual days or multiple days. Time on/Time off can be set at anytime between 00:00 and 23:59

4 schedules are available giving maximum flexibility. When set the camera(s) will only record during the times/days that the schedule is programmed for.

Storage Device

For information only – this setting cannot be altered.

The Defender Apollo Touch records to a micro SD card.

A minimum 32GB is recommended. The kit supports cards up to 128GB maximum.

Storage Manage

Displays current storage usage of your SD card and allows formatting.

WARNING. Formatting wipes all recordings and any other data off the micro SD card.

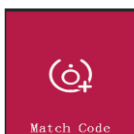
Be sure you have saved any files you wish to keep.

Overwrite

Slide switch Green is for ON and White is for Off. Default is Overwrite ON.

When the micro SD card reaches full capacity, the oldest recorded files are overwritten with new recordings. This feature can be switched Off so that when the SD Card reaches full capacity recording will stop.

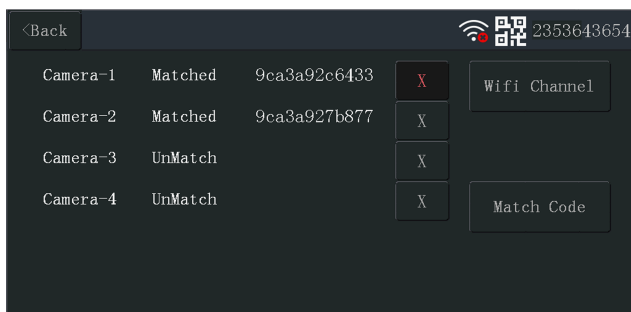
WARNING: Overwrite should only be switched off on systems that are checked and monitored 24/7 so that the card can be formatted or replaced when full.



Match Code (adding/pairing cameras):

The 2 cameras supplied with the kit are already paired to the monitor.

WARNING:- touching the X next to a paired camera will immediately unpair that camera.



Camera-1 Matched

Camera-2 Matched

Camera-3 Unmatched

Camera-4 Unmatched

To Pair a Camera / Add a new Camera make sure power is applied to the camera.

Press "Match Code" on the display.

Press and hold the small button on the camera cable assembly until you hear two beeps
The camera will be paired and matched to the next available Channel (i.e. 3 or 4)

Wi-Fi Channel

Do not alter the channel. Keep as MKK (default)



Alarm Setup:

Alarm Volume Setup

Choose the desired volume of any activated alarms.

Mobile Split Screen

If using the mobile app, allows a split view of all cameras. Default On.

Access each live Channel for your installed cameras to set the below individual settings.

Motion

When On, the camera's PIR detection is enabled. Default On.

When Off, the camera will not trigger on PIR motion at all. Making the below alarms void.

Smart Detection

Choose which motion is detected;

"Humanbody" = human shape only (people) "Bodyregion" = non specific shape (vehicles).

To avoid any missed detection it is recommended to have human OFF and Body ON (default setting), but users can test both for their requirements. When motion is recording a small yellow figure will appear in the monitor playback window.

App Alarm

When On and connected to the Mobile App, an alert will be activated on your mobile device.

Sound alarm

When On, an audio alert alarm sounds on the monitor when motion is detected.

Sensitivity

Determines how sensitive your PIR detection is. Adjust to suit your needs.

Nb. you may see a setting for 'Spotlight Alarm' - it is not compatible with this system, leave OFF.

IR Cut

Determines the viewing mode settings of the camera, including multiple night vision options:

Infrared Night Vision: Auto-converts to black & white playback after dark. IR LEDs visible on camera.

Smart Night Vision: When motion detected after dark, white floodlight turns on for 30secs and produces full colour playback. When white light off, IR LEDs visible on camera.

Full Colour Night Vision: Same as 2. but white light always on, so all playback after dark is full colour.

Night Vision Off: Deactivates night vision. No IR LEDs visible on camera. Playback quality after dark limited.

Infrared Always On: Constant black & white night vision. IR LEDs visible on camera. No colour during day.

Default is set to Infrared mode, meaning the camera will auto switch between day and night vision. If you wish to change the setting, it is recommended you select and test each one for optimum performance.

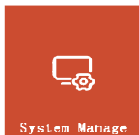
NOTE: the cameras do not have blacklight infrared LEDs, meaning they will glow red at night (if night vision is active). This is to provide an additional visual deterrent to trespassers.

Area Edit

Allows you to restrict the areas of motion detection e.g. to reduce false alarms.

Each red square indicates an area that will be detected. Default is set to all areas filled.

You can manually deselect as many as you want, It is recommended you test the results,



System Manage:

This menu item is used to view detailed system information e.g. device mode and software version. It can also be used to restore or upgrade the system or to set a password. Important sections are highlighted below.

Factory Setting

Simple Restore – leaves camera and network configuration and resets all other settings to the factory settings.

Restore ALL – Cameras and Network settings are also reset.

ONLY USE IN EXTREME CASES.

Change Password

Enables Password Protection of the system. NOTE: The system comes with no password set. When setting a password for the first time, leave 'Old Password' blank.

Upgrade

Performs a system upgrade if the correct file has been saved onto the micro SD card. During device upgrade please keep the Power ON.

9. How to View On a Mobile Device

System setup – Wireless Internet

WLAN – *On* make sure the slide switch is Green for On.

Hotspot List – Select your wireless router from the hotspot list.

Enter your router password.

Once connected your router name will be displayed and the Wi-Fi symbol will be activated on the top of the screen. A red circle with a black cross means the connection has failed. If this happens please try again.

Mobile Device setup – Download App

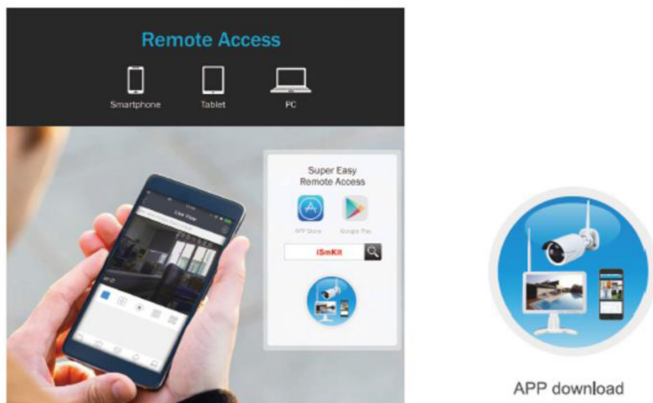
For IOS system, the App requires version IOS 8.0 or above.

For Android, the App requires version Android 4.0 or above.

App Store for Apple Devices once the Defender Apollo Touch is connected to the Internet. Open the App Store on your mobile device and download the App "iSmKit"

On Google Play for Android Devices once the NVR is connected to the Internet. Open Google Play on your mobile device and download the App "iSmKit"

Open the App and then take a few minutes to follow the registration process.



Add the Defender Apollo Touch to your APP device list

Open the main menu and click on the QR code icon in the top right corner to display the Cloud ID and Large QR code.

Make sure the "iSmKit" App is open on your mobile device and you are logged into your account. Click on the "+" in the top right-hand corner of the App.

Either Select "Scan" and using your mobile device, scan the QR code on the screen

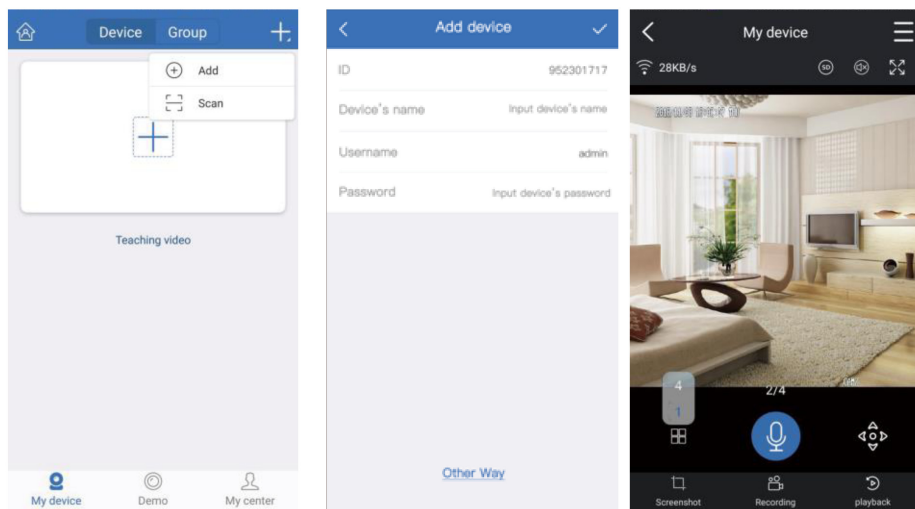
Or select "Add" on the mobile App to enter the "Add devices" interface. Next select 'Wireless NVR Device', now input the Cloud ID as displayed on your monitor screen.

For both methods you have the option to set a username (default 'admin') and password.

A password is not required for this system, it is your choice.

Press 'complete' to finish adding.

When the Defender Apollo Touch has been added successfully, the App can be used to show live displays from each camera.



Take a little time to familiarise yourself with the app.

You can access your cameras in Live mode, or you can view Playback of previous motion detects. The first time you try and record, screenshot or download footage the app will ask for access to your phone library. This must be granted to save footage on your phone.

If motion detect is enabled (see p11), your system will automatically save footage into Playback. From here you can view and download if you wish.

If motion detect is enabled, app alarm is enabled (p11), plus you have enabled notifications on your phone, you will receive push alerts on every activation.

The app can also be used to edit basic settings like time and date, plus format your SD card.

As long as your phone has a WiFi/Data connection and your kit is online, you can access it from anywhere in the world.

10. FAQ

Q: Can I use batteries with this system?

A: Yes. The NVR monitor can take 2 x 3.7v 18650 2600mAh lithium rechargeable batteries. Fully charged batteries allow portable use of the monitor for a limited time.

Q: How do you charge the batteries?

A: Turn the battery switch to "OFF", insert the 2 x Type 18650 rechargeable batteries, connect the Defender Apollo Touch to the 5v x 2A power adapter. A green light will display on the indicator.

Q: How long will fully charged batteries power the display?

A: The battery power is for short term use only. The battery life is up to 2 hours.

Q: How long does it take to fully charge the rechargeable batteries?

A: It takes up to 4 hours to fully charge the batteries.

Q: How does the voice intercom work?

A: The intercom is live when the display from 1 camera is on the monitor.

Select the Camera Channel you want to connect to by double clicking the camera display.

Touch the screen and the intercom icon will be displayed (microphone). To start speaking press and hold the intercom icon. Release the intercom icon to stop speaking.

Q: How does the Camera Alert Alarm work?

A: Enter the main menu, select the alarm setup, adjust the alarm volume to non-zero to turn it on, (set the alarm volume to 0 to turn it off.)

Select the Camera channel to set the alarm alert to either local siren or to mobile App or to both.

Set the sensitivity and area to suit your application.

Q: Why does my camera display turn off after a short time?

A: Check the power adaptors are plugged in and power is constantly applied to the NVR and the cameras.

A: Check the "auto close" function is disabled.

Main Menu-system setup-auto close-Disabled.

If a time is showing then the display will auto turn off after that length of time.

Q: My display shows the 4 screen split but only blue screens and "NVR" "Network Video Recorder" are displayed in all 4 screens.

A: Check power is applied to the cameras – check for the green LED on the cable assembly. If this is off then check and apply power to the camera.

A: If the power to the cameras is On then check the cameras are paired correctly.

Main Menu - Match Code - Matched.

If the cameras are showing Unmatched then they need to be matched. Follow the instructions for matching the cameras. Match code – Pairing a Camera to the monitor / Adding a new Camera

Q. How do I backup recordings to a memory stick?

A. Insert your formatted memory stick into the USB connector. Follow the video playback instructions. Whilst the required recording is on the screen touch the memory stick icon in the top right hand side of the display. The file will be copied / backed up.

To copy / Backup all files eject the micro SD card and insert it into a PC/Laptop. Copy all the files you require to your backup server.

Q. How do I share my footage?

A. Via the monitor: remove the SD card and input it into a PC/Laptop using an adapter as required. From here you can view, save and share your recorded footage as you choose.

Via your phone: navigate to your saved footage in Playback (p15). From here you can download footage directly to your phone's camera roll and share as you choose.

11. Warranty

We guarantee this product to be free of defects in materials and workmanship for a limited warranty of 12 months from the original purchase date. This warranty does not cover user caused damage through misuse, abuse, improper handling or installation, or repairs attempted by someone other than our authorized technicians.

We will, at our option during the warranty period, repair your camera or replace it with the same or comparable model free of charge. This warranty only extends to the original buyer. Proof of purchase is required to receive warranty benefits. The warranty on any replacement product provided under the original warranty shall be for the remaining portion of the warranty period applicable to the original product.

This warranty extends solely to failures due to defects in materials or workmanship under normal use. It does not cover normal wear of the product.

If you need to return a product under this warranty, please contact us for a returns number prior to sending it back.

Contact us:
solon-group.com

