

Dahua RDC Review

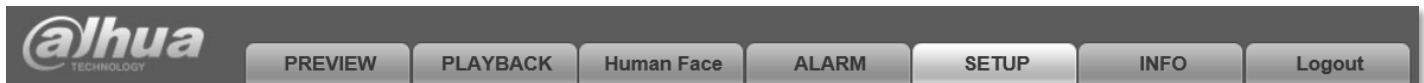
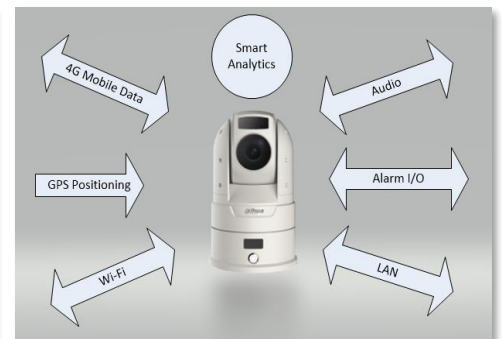


Being the first in the UK to receive one of these new cameras from market leaders Dahua Technology, we was pleased to see the unit turn up in a sturdy flight case, with wheels and handle. Inside we found a well built camera with strong magnetic base and umbilical cord for connections to Audio, Power and Network.

This new RDC camera is based upon the tried and tested vehicle NVR and includes many of the features of this series including GPS, Audio and record to SD card, the unit also has a full Pan and Tilt, Infra-Red and built in 9 hour battery. Connectivity is also a strong feature of the new camera with Wi-Fi (AP and client connection options), dual SIMM 4G, standard NIC and Bluetooth. The camera can either be incorporated onto a Dahua DSS solution which will allows full support of the GPS capability or for smaller systems can connect directly to exiting DSS Mobile, DSS Clients and Smart PSS using P2P connectivity.

The camera also has a host of smart features, its Starlight, so works in very low light and incorporates some of the latest Dahua analytics such as crowd density as well as built in face detection and capture. Alarm capability of the camera includes the standard I/O alarms as well as Audio level detection with intensity change alarms and Dahua advanced Smart analytics including:

- Cross Fence Detection
- Tripwire
- Intrusion
- Abandoned Object
- Fast Moving Object
- Parking Detection
- Crowd Gathering Estimation
- Missing Object
- Loitering Detection



The RDC is easy to set up with the main configuration screen giving access to the NVR part of the system with a hyperlink through to the advanced camera settings. Configuration is the familiar Dahua HTML with initial out the box secure password and security setup requirements. The web interface, depending on UAC allows access to live, replay, Face Search, Alarm Reporting and Setup, some of these settings can also be applied in the field using the Dahua DSS App or remotely over the various network connection options.

The camera is extremely well built and ideal for rapid deployment scenarios, the camera with its 9 hour battery life can be easily deployed over mobile or Wi-Fi or left to record locally to its 2 on-board micro SD cards (512 GB Max). The Wi-Fi can also be configured to allow connection to mobile devices using the free Mobile DSS app.



Detailed Specification.

Storage	
Micro SD	2 Micro SD, plug-in card designed, plug and play, up to 256GB each, supplied separately.
Network	
4G	Dual 4G module, support load balancing, built-in antenna
SIM card	2 SIM ports
Wired network	Support 10/100M network audio and video transmission
WIFI	Support 2.4GHz and 5GHz dual setting, support 802.11b/g/n/ac to set AP, using smart phone or pad to directly access operations
GPS	Built-in GPS module, can also connect to external GPS antenna
Bluetooth	Bluetooth headphone voice pairing for audio.
External interface	
14 cores aviation connector	<ol style="list-style-type: none"> 1. Network cable: RJ45. 2. Φ 5.5*2.1mm power port 3. GPS port 4. RS232
8 cores aviation connector	<ol style="list-style-type: none"> 1. alarm input 2. audio input 3. 12V controllable power(alarm) input 4. External RS485
Battery	
Endurance	9 hours
Detachable	support



Camera	
Image sensor	1/1.9 CMOS
Resolution	About 2MP
Horizontal resolution	≥1000TVL
Maximum Image Size	1920×1080
Minimum illumination	Colour: 0.001Lux @ F1.5 ; Monochrome: 0.0001Lux @ F1.5 0Lux(IR on)
Gain control	Auto/Manual
3D DNR	Support
2D DNR	Support
S/N Ratio	≥54dB
White Balance	Auto/ Manual/ Indoor/ Outdoor/ Daylight lamp/ Sodium lamp
Shutter Time	1/1 ~ 1/30000s
Anti Shake DSP	Supported
DEFOG	Supported
BLC	Supported
WDR	120dB
HLC	Supported
Digital Zoom	16X
Day & Night	Auto ICR optical filter colour to black
Focus Mode	Auto/ Semiautomatic/ Manual
Focal length	6mm ~ 180mm
Zoom Speed	about 3.5s
Angle of View	Horizontal: 61.2° ~2.32° (wide-to-tele)
Optical zoom	30X



PTZ control	
Fill-in light	IR
Fill light control	on/off
Fill light distance	100m
Lens defrost	Support
Horizontal range	0° ~ 360°
Vertical range	-20° ~ 90°
Manual control speed	Horizontal:0.1° ~ 90°/s Vertical:0.1° ~ 90°/s"
Pre-set speed	Horizontal:0.1° ~ 100°/s Vertical:0.1° ~ 90°/s"
Location accuracy	±0.15°
Pre-set	255
Tours	8 separate tours, each can have up to32 pre-sets
Pattern	5
Auto scan	4
Idle motion	Supported
Timing task	Supported
Information display	Support ed
Main stream	50Hz:50fps(1920×1080) , 25fps(1280×960) , 25fps(1280×720) 60Hz:60fps(1920×1080) , 30fps(1280×960) , 30fps(1280×720)"
Sub stream	50Hz:25fps(704×576) , 25fps(352×288) 60Hz:30fps(704×480) , 30fps(352×240)
Third stream	50Hz:25fps(1920×1080), 25fps(1280×960) , 25fps(1280×720) , 25fps(704×576) , 25fps(352×288) 60Hz:30fps(1920×1080), 30fps(1280×960) , 30fps(1280×720) , 30fps(704×480) , 30fps(352×240)
Video compression	H.265/H.264
Audio compression	PCM/G.711a/G.711u



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Accessory	
Accessory (order separately)	PAD, battery charging base, Bluetooth headset, tripod
General	
Power supply	DC 24V (6V - 36V)
Power consumption	<20W (IR off <24W, IR on <40W & Motor IR on <56W)
Working environment	Temperature -20 ~ 55°C
Protection level	IP66, surge protection and lightning protection GB/T17626.5-2008, ESD 17626.2—2006
Dimension	height:280mm diameter:170.5mm
Weight	4.87kg

