



# User Manual

Code: SD8A840WA-HNF

IP SPEED DOME CAMERA OUTDOOR **SD8A840WA-HNF** - 4K UHD 5.6 ... 223 mm DAHUA

## Warning!

Please read the user manual included in this work as it contains important information related with safety of installation and use of the device.

Only persons who read the user manual may use the device.

The user manual must be kept because it may be required in the future. The device is to be used exclusively for purposes specified in this user manual.

The device must be unpacked prior to starting-up. After removing the packaging make sure the device is in working order.

If the product has defects, it should not be used until it is repaired.

The product is intended for use at home and commercial use and may not be used for other than intended use.

The manufacturer is not liable for damages resulting from not adhering to the rules contained in the user manual, therefore, we recommend to follow the aforementioned safety rules for operation and maintenance of the device. In this way you will ensure yourself safety and avoid causing damage to the device.

The manufacturer and the supplier are not liable for losses or damages arising out of the product, including financial or intangible losses, loss of profits, income, data, pleasure from use of the product or other products related with it - indirect, incidental or consequential loss or damage. The above provisions apply whether the loss or damage concerns:

1. Deterioration of quality or the lack of operation of the products or products related with it due to damage as well as the lack of access to the product when it is undergoing repair, which results in stoppage the loss of user's time or a break in business activity;
2. Improper results of operation of the product or products related with it;
3. It applies to losses and damages according to any legal category, including negligence and other losses, termination of a contract, expressed or implied guarantee and strict liability (even if the manufacturer or the supplier was notified about the possibility of occurrence of such damages).

### Safety measures:

Particular attention at designing was directed to quality standards of the device where ensuring safety of operation is the most important factor.

The device must be secured against contact with caustic, staining and viscous fluids.

The device was designed in such a way that it restarts operation when power supply is restored after a break.

**Attention! We recommend using protections to further protect the device from possible overvoltages in installations. Surge protectors are effective protection against accidental pass to the device voltages higher than the rated. Damages caused by pass the voltages higher than specified in manual, are not under warranty.**

Turn off the device before transporting it.

Prior to connecting the device to a power source check whether the supplied voltage is consistent with rated voltage specified in the user manual.

### Proper product disposal:

A marking of a crossed out waste bin indicates that the product may not be disposed together with other household waste in the entire EU. To avoid possible damage to the natural environment of health due to uncontrolled waste disposal, therefore, it should be handed over for recycling, propagating in this way sustainable use of natural resources.

To return a worn-out product, use a collection and disposal system of this type of equipment or contact a seller from whom it was purchased. He will then be recycled in an environmentally-friendly way.

IP camera equipped with very good high resolution sensor. Due to above it is perfect solution for surveillance systems requiring persons or vehicles recognition.

Built-in IR illuminator allows to operate at night conditions, and vari-focal lens with wide range of view angle adjustment enables optimal set the view field of camera to all conditions. The range of IR illumination according to the manufacturer data, depends on outer conditions (visibility - air transparency, environment, wall colors ie. scene reflectance).

Thanks to the "Starlight" technology used, the camera only needs very low lighting to obtain a clear color image. The biggest advantage of the camera is the lens with x40 optical zoom, which together with long range IR illuminator allow to 24 hours surveillance without any additional lighting even at area of several hundred meters.

For a few models of IP cameras working at  $\geq 1920 \times 1080$  resolution we recommend to use of network with 1Gb/s bandwidth.



|                                  |  |
|----------------------------------|--|
| Standard:                        | TCP/IP   |
| Sensor:                          | 1/1.8 " STARVIS™ CMOS  |
| Matrix size:                     | 8 Mpx  |
| Resolution:                      | 3840 x 2160 - 4K UHD ,<br>1920 x 1080 - 1080p ,<br>1280 x 960 - 1.3 Mpx ,<br>1280 x 720 - 720p         |
| Lens:                            | 5.6 ... 223 mm   |
| View angle:                      | 64 ° ... 2 °   |
| Optical zoom:                    | x 40   |
| Digital zoom:                    | x 16   |
| Range of IR illumination:        | 500 m  |
| Video output:                    | 1 Vpp / 75 Ω   |
| Preset rotation speed:           | <ul style="list-style-type: none"> <li>• 240 °/s (horizontal)</li> <li>• 120 °/s (vertical)</li> </ul> |
| Rotation speed (manual control): | 0.1 °/s ... 240 °/s (horizontal)<br>0.1 °/s ... 100 °/s (vertical)                                     |
| Horizontal rotation range:       | 360 ° continuous   |



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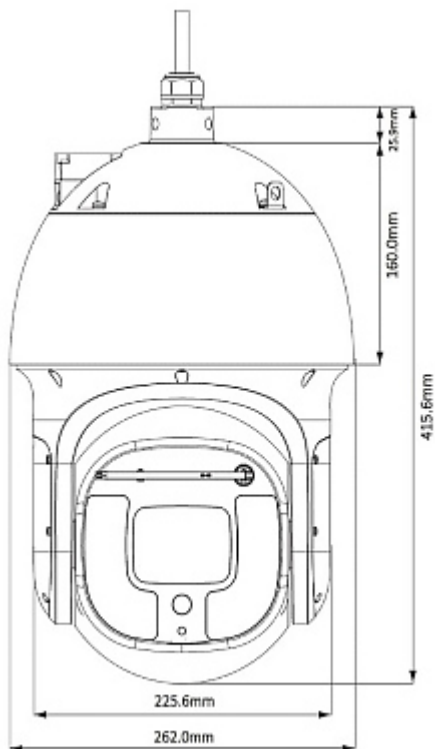
|                               |   |
|-------------------------------|---|
| Vertical rotation range:      | -30 ° ... 90 °  |
| RS-485 interface:             | ✓   |
| Protocols:                    | DH-SD, PELCO-D/P  |
| Number of presets:            | 300   |
| Horizontal scan:              | ✓   |
| Route settings:               | 8   |
| Image compression method:     | H.265+ / H.265 / H.264+ / H.264 / MJPEG   |
| Alarm inputs / outputs:       | 7 / 2   |
| Audio:                        | <ul style="list-style-type: none"><li>• Audio input</li><li>• Audio output</li><li>• Bi-directional audio streaming support</li></ul>   |
| Main stream frame rate:       | max. 25 fps @ 4K UHD  |
| Network interface:            | 10BASE-T / 100BASE-TX (RJ-45)   |
| Network protocols:            | IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, ARP, RTCP, RTSP, RTP, SMTP, DHCP, DNS, PPPoE, DDNS, FTP, IP Filter, QoS, Bonjour, IEEE 802.1x   |
| WEB Server:                   | Built-in  |
| Max. number of on-line users: | 20  |
| Memory card slot:             | Micro SD memory cards up to 256GB support (possible local recording)  |
| ONVIF:                        | ✓   |
| Mobile phones support:        | <p>Port 37777</p> <ul style="list-style-type: none"><li>• Android: Free application <a href="#">DMSS</a></li><li>• iOS (iPhone): Free application <a href="#">DMSS</a></li></ul>  |
| Main features:                | <ul style="list-style-type: none"><li>• WDR - 120 dB - Wide Dynamic Range</li><li>• 2D-DNR, 3D-DNR - Digital Noise Reduction</li><li>• EIS - Electronic Image Stabilization</li><li>• F-DNR (Defog) - Reduction of image noise caused by precipitation</li><li>• ROI - improve the quality of selected parts of image</li><li>• Day/Night mode (color/b&amp;w/auto)</li><li>• WB - White Balance (ATW/AWB/manual/indoor/outdoor)</li><li>• ICR - Movable InfraRed filter</li><li>• AGC - Automatic Gain Control</li><li>• BLC/HLC - Back Light / High Light Compensation</li><li>• Motion Detection</li><li>• Configurable Privacy Zones - 24</li><li>• Sharpness - sharper image outlines</li><li>• Auto Flip - auto-rotates the camera during "tilt" type moving</li><li>• Wiper</li><li>• CVBS, SPOT output</li><li>• The device has a built-in heater</li><li>• IVS analysis : crossing the line (tripwire), intrusion, abandoned/missing object, scene changing, Face recognition, metadata handling - automatic photo taking and collection of information enabling the subsequent identification of people and vehicles that triggered the alarm (clothing, silhouette, face, features of motor and non-mechanical vehicles)</li><li>• Intelligent Object Tracking</li></ul> <p>Filtering of false alarms based on the recognition of persons and vehicles</p> <ul style="list-style-type: none"><li>• Parking action - this function enables to locate the camera to specific position automatically if operator doesn't operate the controller for some time</li></ul> |

|                        |  |
|------------------------|--|
| Power supply:          | <ul style="list-style-type: none"> <li>• Hi-PoE,</li> <li>• 24 V AC / 3 A (power adapter included)</li> </ul>                              |
| Power consumption:     | <ul style="list-style-type: none"> <li>• <math>\leq 26</math> W,</li> <li>• <math>\leq 42</math> W - Heater on / IR illuminator</li> </ul> |
| Housing:               | Speed Dome Metal   |
| Color:                 | White  |
| Vandal-proof:          | —  |
| "Index of Protection": | IP67   |
| Operation temp:        | -40 °C ... 70 °C   |
| Weight:                | 8.5 kg   |
| Dimensions:            | Ø 262 mm x 416 mm (without bracket)  |
| Supported languages:   | English  |
| Manufacturer / Brand:  | DAHUA  |
| Guarantee:             | <b>3 years</b>   |

Bottom view:



Camera dimensions:



Camera bracket:



Bracket dimensions:

