

# 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.





### User Manual Code: SD59230I-HC HD-CVI, PAL SPEED DOME CAMERA OUTDOOR **SD59230I-HC** - 1080p 4.5 ... 135 mm DAHUA



Megapixel camera with 1/2.8" CMOS sensor and HD-CVI (High Definition Composite Video Interface) / PAL.

The HD-CVI interface allows to transmission of analog, composite video signal via coaxial cable. It enables the transmission of HD resolution images for even 500 m distance with keeping the low costs of the installation. During transmission there are no delays and is maintained the original, high quality image.

Camera is according to IP66 Index of Protection norm. Thanks to the "Starlight" technology used, the camera only needs very low lighting to obtain a clear color image.

Standard:	HD-CVI, PAL
Sensor:	1/2.8 " STARVIS™ CMOS
Matrix size:	2.0 Mpx
Resolution:	1920 x 1080 - 1080p 1280 x 720 - 720p 960 x 576 - 960H
Range of IR illumination:	150 m
IR illuminator power adjustment:	Automatic
Lens:	4.5 135 mm
View angle:	<ul> <li>68 ° 2.4 ° (manufacturer data)</li> <li>60 ° 2.9 ° (our tests result)</li> </ul>
Optical zoom:	x 30
Digital zoom:	x 16
Rotation speed depending on ZOOM level:	✓
Auto IR illuminator:	Adaptive adjusting of the IR illuminator power to the lens zoom and outdoor light conditions
Horizontal rotation range:	360 ° continuous
Vertical rotation range:	-15 ° 90 °



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## User Manual Code: SD59230I-HC HD-CVI, PAL SPEED DOME CAMERA OUTDOOR **SD59230I-HC** - 1080p 4.5 ... 135 mm DAHUA

D1 Fs300 (Stretucal)         Preset rotation speed:       300 */s (vertical)         PTZ control:       Via interface RS-485         The ability to control via coaxial cable from recorder DAHUA, BCS, RAPID         Protocols:       Pelco-D, Pelco-P, DH-S0 (auto detection)         SAN ratio:       > 55 dB         Video output:       HD-CVI, PAL, 1 Vpp 75 Ω         Audio:       External microphone input         Number of presets:       300         Route sottings:       8         Harizontal scan:       ✓         Park action:       Call the set function (tour, scan, etc.) after specified dwell time         Alarm inputs / outputs:       2 / 1         Main features:       · (CR-Movable InfraRed filter · 2D-DNR, 3D-DNR - Digital Noise Reduction · NDL/LLC - Back Lide Pynamic Range · 11 R lluminator optimization · 11 R Lidu B- Wole Pynamic Range         Main features:       · (CR-Movable InfraRed filter · 2D-DNR, 3D-DNR - Digital Koise Reduction · VDL/LC - Back Lide Pynamic Range         Main features:       · (CR - Movable InfraRed filter · 2D-DNR, 3D-DNR - Digital Koise Reduction · VDL/LC - Back Lide Pynamic Range         Main features:       · (CR - Movable InfraRed filter · 2D-DNR, 3D-DNR - Digital Koise Reduction · NDL/LC - Back Lide Pynamic Range         Main features:       · (CR - Movable InfraRed filter · 2D-DNR, 3D-DNR - Digital Koise Reduction · NDL/LC - Back Lide Pynamic Range		1
Preser rotation speed:       300 */s (vertical)         PTZ control:       The ability to control via coaxial cable from recorder DAHUA, BCS, RAPID         Protocols:       Pelco-P, Pelco-P, DH-SD (auto detection)         S/N ratio:       > 55 dB         Video output:       HD-CVI, PAL, 1 Vpp 75 Ω         Audio:       External microphone input         Number of presets:       300         Rout settings:       8         Horizontal scan:       ✓         Park action:       Call the set function (tour, scan, etc.) after specified dwell time         Namin inputs / outputs:       2/1         Main features:       ·CR: Movable Infraed filter         ·UNR: 120 dB - Wride Dynamic Range       ·IR minimator optimization         ·Wink - 120 dB - Wride Dynamic Range       ·IR minimator optimization         ·Wink - 120 dB - Wride Dynamic Range       ·IR minimator optimization         ·Wink - 120 dB - Wride Dynamic Range       ·IR minimator optimization         ·Wink - 120 dB - Wride Dynamic Range       ·IR Minimator optimization         ·Wink - 120 dB - Wride Dynamic Range       ·IR Minimator optimization         ·Wink - 120 dB - Wride Dynamic Range       ·IR Coll Context (Minimator optimization         ·Wink - 120 dB - Wride Dynamic Range       ·IR Coll Context (Minimator optimization)         ·Wink - 120 dB	Rotation speed (manual control):	
P12 Control:       The ability to control via coaxial cable from recorder DAHUA, BCS, RAPID         Protocols:       Pelco-D, Pelco-P, DH-SD (auto detection)         S/N ratio:       > 55 dB         Video output:       HD-CVI, PAL, 1 Vpp 75 Ω         Audio:       External microphone input         Number of presets:       300         Route settings:       8         Horizontal scan:       ✓         Park action:       Call the set function (tour, scan, etc.) after specified dwell time         Alarm inputs / outputs:       2/1         Main features:       *10°R - Movable InfraRed filter * 2D-DNR, 3D-DNR - Digital Noise Reduction * Vide Dynamic Range * IR illuminator optimization * Lic/HL - Back Light / High Light Compensation * Auto White Balance * 24 VAC / 3000 mA (power adapter included)         Operation temp:       40°C 70°C         Weight:       449 kg (with bracket)         Dimensions:       305 x 450 x 186 mm (with bracket)         Supported languages:       Galish, Polish	Preset rotation speed:	
SN ratio:       > 55 dB         Video output:       HD-CVI, PAL, 1 Vpp 75 Ω         Audio:       External microphone input         Number of presets:       300         Route settings:       8         Horizontal scan:       ✓         Park action:       Call the set function (tour, scan, etc.) after specified dwell time         Alarn inputs / outputs:       2 / 1         Main features:       : ICR - Movable InfraRed filter         · 2D-DNR, 3D-DNR - Digital Noise Reduction       ·//// WDR - 120 dB - Wide Dynamic Range         · R illuminator optimization       : EU/FLU: Back Light / High Light Compensation         · Auto White Balance       : 44 Configurable Privecy Zones         OSD menu:       ✓         "Index of Protection":       IP66         Power supply:       24 V AC / 3000 mA (power adapter included)         Housing:       Speed Dome, Metal         Color:       White + Black         Operation temp:       :40 ° C 70 ° C         Weight:       :40 kg (with bracket)         Dimensions:       :305 x 450 x 186 mm (with bracket)         Suported languages:       English, Polish	PTZ control:	
Video output:         HD-CVI, PAL, 1 Vpp 75 Ω           Audio:         External microphone input           Number of presets:         300           Route settings:         8           Horizontal scan:         ✓           Park action:         Call the set function (tour, scan, etc.) after specified dwell time           Alarn inputs / outputs:         2 / 1           Main features:         ·/CR - Movable InfraRed filter           ·/DP.NR, 3D-DNR - Digital Noise Reduction         ·/WDR - 120 dB - Wide Dynamic Range           ·/ Ri Iluminator optimization         ·/WDR - 120 dB - Wide Dynamic Range           ·/ Ri Iluminator optimization         ·//WDR - 120 dB - Wide Dynamic Range           ·/ Ri Iluminator optimization         ·///WDR - 120 dB - Wide Dynamic Range           ·/ Ri Iluminator optimization         ·////WDR - 120 dB - Wide Dynamic Range           ·/ Ri Iluminator optimization         ·////////////////////////////////////	Protocols:	Pelco-D, Pelco-P, DH-SD (auto detection)
Audio:       External microphone input         Number of presets:       300         Route settings:       8         Horizontal scan:       ✓         Park action:       Call the set function (tour, scan, etc.) after specified dwell time         Alarm inputs / outputs:       2 / 1         Main features:       · ICR - Movable InfraRed filter         · 2D-DNR, 3D-DNR - Digital Noise Reduction       · WDR - 120 dB - Wide Dynamic Range         · Wide Yi-Dack Light / High Light Compensation       · Auto White Balance         · 24 Configurable Privacy Zones       24 V AC / 3000 mA (power adapter included)         Power supply:       24 V AC / 3000 mA (power adapter included)         Housing:       Speed Dome, Metal         Color:       White + Black         Operation temp:       -40 ° C 70 ° C         Weight:       4.49 kg (with bracket)         Dimensions:       305 x 450 x 186 mm (with bracket)         Supported languages:       English, Polish	S/N ratio:	> 55 dB
Number of presets:       300         Route settings:       8         Horizontal scan:       ✓         Park action:       Call the set function (tour, scan, etc.) after specified dwell time         Alarm inputs / outputs:       2 / 1         Main features:       1/1         Main features:       1/1         Main features:       2 / 1         Main features:       1/2 / 0.8 Vide Dynamic Range         Year Constant       Year Constant         Very 2 / 0.8 Vide Dynamic Range       Year Constant         Store of Protection*:       Pe66         Power supply:       24 V AC / 3000 mA (power adapter included)         Housing:       Speed Dome, Metal         Color:       White + Black         Operation temp:       -40 °C 70 °C         Weight:       4.49 kg (with bracket)         Dimensions:       305 x 450 x 186 mm (with bracket)         Supported languages:       English, Polish         MAUA       HUA	Video output:	HD-CVI, PAL, 1 Vpp 75 Ω
Route settings:         8           Horizontal scan:         ✓           Park action:         Call the set function (tour, scan, etc.) after specified dwell time           Alarm inputs / outputs:         2 / 1           Main features:         'ICR - Movable InfraRed filter •2D-DNR, 3D-DNR. Digital Noise Reduction •WDR - 120 d B. Wilde Dynamic Range •IR illuminator optimization •BLC/HLC 30ck Light / High Light Compensation •Auto White Balance •24 Configurable Privacy Zones           OSD menu:         ✓           "Index of Protection":         IP66           Power supply:         24 V AC / 3000 mA (power adapter included)           Speed Dome, Metal         Speed Dome, Metal           Color:         White + Black           Operation temp:         4.49 kg (with bracket)           Dimensions:         305 x 450 x 186 mm (with bracket)           Supported languages:         Balki, Polish           Datument         Housing:	Audio:	External microphone input
Horizontal scan:✓Park action:Call the set function (tour, scan, etc.) after specified dwell timeAlarm inputs / outputs:2 / 1Main features:· ICR - Movable InfraRed filter • 2D-DNR, 3D-DNR - Digital Noise Reduction • WDR - 120 dB - Wide Dynamic Range • IR illuminator optimization • Auto White Balance • 24 Configurable Privacy ZonesOSD menu:✓"Index of Protection":IP66Power supply:24 V AC / 3000 mA (power adapter included)Housing:Speed Dome, MetalColor:White + BlackOperation temp:40 °C 70 °CWeight:4.49 kg (with bracket)Dimensions:305 x 450 x 186 mm (with bracket)Supported languages:English, PolishAHUAAHUA	Number of presets:	300
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	Supported languages:	English, Polish
Guarantee: 3 years	Manufacturer / Brand:	DAHUA
	Guarantee:	3 years

Bottom view:



SD59230I-HC





On the body, under the cover there are placed configuration switches:



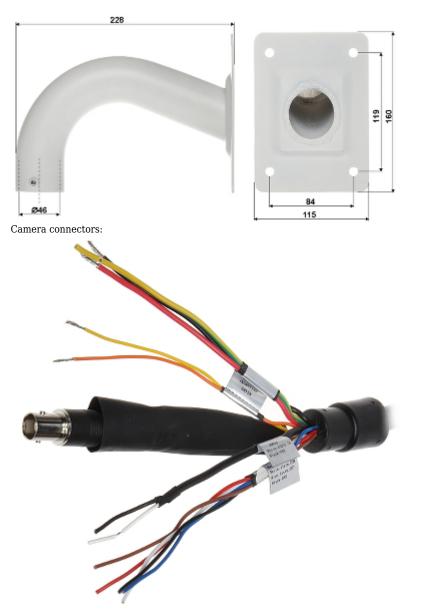
Bracket dimensions:



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SD59230I-HC





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Connectors description:
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PACKAGE

Dimensions (L x W x H): 0x0x0 mm Gross Weight: 0 kg

