

## Datasheet and Installation Guide

CAMERA	
Image Sensor	Aptina 5 MP 1/3" CMOS
Sensitivity	Day/Night: 0.65 lux / 0.01 lux
Shutter time	1/6 s – 1/20,000 s
Day/night mode	True
Available lenses	1/3" form, OCS mount, DC iris, megapixel resolution, IR corrected
Angle of view	With Evetar M125VD922IRCS lens: Horizontal: 35-14 °, Vertical: 26-11 ° With Evetar M125VD3410IRCS lens: Horizontal: 80-31 °, Vertical: 64-24 ° With Fujinon YV2.8x2.8SR4-SA2 lens: Horizontal: 91-32 °, Vertical: 74-30 ° With Evetar M123VD4510IR lens: Horizontal: 64-31 °, Vertical: 50-24 ° With Fujinon DV4x12.5SR4-SA1L lens: Horizontal: 25-6 °, Vertical: 19-5 °
IMAGE	
Resolution	4:3: 2560×1920, 1920×1440, 1280×960; 640×480 16:9: 2560×1440, 1920×1080, 1280×720, 640×360
Frame Rate	H.264 4:3: 14 fps (2560×1920), 21 fps (2048 x 1536), 23 fps (1920×1440), 40 fps (1280×960), 36 fps (640 x 480)   H.264 16:9: 16 fps (2560×1440), 27 fps (2048 x 1152), 30 fps (1920×1080), 45 fps (1280×720), 44 fps (640 x 360)
Image Settings	Brightness, Contrast, Gamma, Saturation, Sharpness, Noise Filtering, Noise reduction, White balance (7 presets), Operation mode (gain/exp preference), Exposure control, Gain control, Anti-flickering (50Hz/60Hz), Image control speed, Backlight compensation (adjustable zones), WDR mode, Day/Night mode (Auto/Day/Night), Day/Night mode preference, Image Mirroring
Encoder Settings	I-frame Distance, Resolution, Frame Limit, Bandwidth Limit, Pre- and Post-alarm, Reduced Frame Rate Control
COMPRESSION	
Video Compression	H.264 SVC – Hierarchical P encoding
Bitrate	500 Kbps – 18 Mbps
Streaming	Intellio Video Streaming, Dual streaming
INTERFACE	
Ethernet	10BaseT/100BaseTX, RJ45
I/O Ports	6-pin I/O connection (1 output (2 pins), 1 input (2 pins), GND, AUX voltage)
Reset Button	Reset To Factory Defaults (IP Address Reset)
Edge-storage	Storage to SD-card or to shared network folder via SMB protocol
NETWORK	
Protocols	NTP, TCP/IPv4, DHCP, DNS
Security	Camera User Name and Password
GENERAL	
Operating Conditions	0 °C – +45 °C
Power connector	Screw Fixed Terminal Blocks Accessory: Power connector (DC jack 5.5 mm / 2.1 mm)
Power Supply	12 V DC (+2 V, -3 V) / PoE support (IEEE 802.3af - PoE Class 3)
Power Consumption	Max. 7.5 W
Weight	Weight 385 g (without lens)
Certificates	CE: EN 55022, EN 55024, RoHS, FCC compliant
Compatibility	Open API, ONVIF Profile S
CAMERA SOFTWARE	
Motion Detection	64 polygons per mask, 8 masks, All masks with adjustable sensitivity and motion percent parameters, Separated motion detector for monitoring and for recording
INTELLIGENT VIDEO	
Object Tracker	Automatic, 64 polygons for masking
Onboard detectors	Motion detector for live view and for recording Tampering detectors: Covering detection, Rotation detection Object based detector: Object removal / theft detection Tracker based detectors: Intelligent motion detection, Tripwire detection, Entry detection, Direction detection I/O port input detector

### Quick Installation Guide

#### Required tools

Flat screwdriver 2X50

#### Enclosed items

Camera IO-port  
DC12V power adapter

### Lens installation

Remove the rubber sensor protector from the front of the camera. Install the lens to the camera and plug in the auto iris connector to the side socket of the camera.

### Power the camera with PoE

To power the camera with standard PoE (IEEE 802.3af - PoE Class 3) plug one end of the UTP cable to the PoE switch and the other end to the LAN plug on the back panel of the camera. First the status LED turns to yellow. It means the camera is powered but has no IP address. Then the status LED must turn to green. This means the camera is powered and has a valid IP address.

### Power the camera with DC12V

To power the camera with 12V DC install the power plug converter first. Use the screwdriver to mount the converter. Then plug in the UTP cable to the RJ45 connector and the 12V DC plug to the power plug converter. The status of the LED is the same as the camera is powered with PoE.

### Registering ILD-Box Cameras with the Intellio Management System

When the cameras are operating you have to find them in the network and register them to an Intellio server. All individual cameras have its own serial number (MAC address) and IP address.

You have to know the IP address of the cameras' before registering them into the Intellio System Software.

*Be careful! In order to register cameras with the Intellio System Software, the cameras and the Intellio Video Servers have to be in the same IP range! Please check your OS network settings at Start menu/Control Panel/Network and Internet/Network Connections/Local area Connection/Properties/Internet Protocol Version 4 (TCP/IP)/Properties and check your settings here.*

### DHCP

By default, Intellio cameras get an IP address from a DHCP server. Using the router's built-in configuration panel the list of DHCP clients can be checked. In this list you can see those cameras which are connected to the network and already get an IP address from the DHCP server.

### Link-local IP address

In this case there is no DHCP in the network the cameras will get a default IP address based on their MAC address (Serial Number). For example: **The MAC address of the camera is 00-19-B4-00-42-1A, than its IP is 169.254.aa.bb;** 'aa' is the decimal value of the digit one before the last in the MAC address (hexa 42, decimal 66), 'bb' is the decimal value of the last digit in the MAC address (hexa 1A, decimal 26), the IP is 169.254.66.26. It is necessary to check the free status of the factory IP address!

### Scanning Cameras

Go to System Configuration/Devices, Click the "Scan" button.  
Sometimes the first attempt is unsuccessful, so make sure to press "Scan" repeatedly until it succeed.  
If the cameras still do not show up, make sure that a firewall is not blocking the multicast protocol. If Scan has no results, the cameras have to be added manually to the system.

### Adding an IP address manually

If SCAN is not working or the camera has an external IP address and TCP Port use the 'Add Intellio ILD-xxx series' option. By using it the Intellio System Software will directly connect to the camera at the manually added network address. If the cameras get their default IP based on their MAC address, calculate their IP address. To add a camera manually:  
Go to System Configuration/Devices, Click the "Add" button.  
Select "Add Intellio ILD-xxx series" from the drop-down menu.  
Enter the IP address of the camera into the Host name field.

### Description of the IO port used on ILD camera series

<p><b>OUTPUT</b> Relay (Solid State Relay) contact , polarity independent. It is a „dry“ contact. <b>Pinout:</b> 1, 2 <b>Max. voltage between pin 1 and 2:</b> 50V <b>Max. current:</b> 100mA <b>ON (closed) state resistance:</b> 5 Ohm</p> <p><b>INPUT</b> Optocoupled input. (It is the LED side of an optocoupler) <b>Pinout:</b> 3 – signal, 4 – common <b>Input HIGH level:</b> 2-30V <b>Input LOW level:</b> 0-1V <b>Input current</b> 2-25mA (about 1.8kOhm input impedance)</p> <p><b>AUXILIARY VOLTAGE</b> Auxiliary voltage output (3.3V, 60mA current limited) it can be used to give bias voltage to the input, if the remote device gives dry relay contact. <b>Pinout:</b> 5 – GND, 6 – 3.3V <b>Voltage:</b> 3.3V <b>Max. current:</b> 60mA</p> <p><i>Important notice!</i> <i>If the AUX voltage is used, the galvanic isolation of the camera and the remote device fails.</i></p>	<p><b>Internal schematic:</b></p> <p><b>Pinout of the plug:</b></p>
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### Restoring default settings

Hold the reset button until the status LED flashes (about 10 sec), then release the button.

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