

Datasheet and Installation Guide

CAMERA	
Image Sensor	Aptina 3 MP 1/3", WDR
Sensitivity	Day/Night/LED: 0.65 lux / 0.01 lux / 0 lux
Shutter time	1/6 s – 1/20,000 s
Day/night mode	True
WDR mode	Intellio WDR mode: 100 dB
Available lenses	3-10.5 mm or 7-22 mm, motorized focus/zoom
Angle of view	IV-BL-W model: Horizontal: 73-24°, Vertical: 58-18°; IV-BL-T model: Horizontal: 35-11°, Vertical: 27-8°
IMAGE	
Resolution	4:3: 2048×1536, 1920×1440, 1280×960; 640×480 16:9: 2048×1152, 1920×1080, 1280×720, 640×360
Frame Rate	H.264 4:3: 25 fps (2048×1536), 30 fps (1920×1440), 40 fps (1280×960), 55 fps (640×480) H.264 16:9: 25 fps (2048×1152), 40 fps (1920×1080), 45 fps (1280×720), 65 fps (640×360)
Image Settings	Brightness, Contrast, Gamma, Saturation, Sharpness, Noise Filtering, 3D 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, IR Illumination Level
Encoder Settings	I-frame Distance, Resolution, Frame Limit, Reduced Frame Rate Control, 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
Reset Button	Reset To Factory Defaults (IP Address Reset)
Edge-storage	Storage to shared network folder via SMB protocol
NETWORK	
Protocols	NTP, TCP/IPv4, DHCP, DNS
Security	Camera User Name and Password
GENERAL	
Environmental Protection	IP67
Operating Conditions	With IR LED on: -40 °C - +40 °C; with IR LED off: -30 °C - +55 °C
Power Supply	PoE+ 802.3at
Power Consumption	max. 20 W
Weight	1380 g
Certificates	CE: EN 55022, EN 55024, RoHS, FCC compliant
Compatibility	Open API, ONVIF Profile S
IR ILLUMINATION	
IR LED	3 pcs IR LED
IR illumination distance	20 m 60 m
Illumination angle	50° 20°
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 polygon for masking
Onboard detectors	Motion detector for live view and shooting 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

* Please note the camera does not operate until its inner temperature reaches 10 °C which takes 5 minutes at -25 °C ambient temperature.

Installation Guide

Required tools

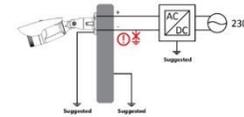
- 5 mm flat head screwdriver

Enclosed items

- hexagonal wrench
- hole templates for wall mounting
- 3pcs dowels
- 3pcs screws

Grounding the camera

The recommended camera grounding is as follows. The negative output of the power supply must not be grounded at the power supply! In case the camera is mounted on a metal pole, the pole is advised to be grounded, in any other cases, the camera holder is recommended to be grounded. For optimal grounding, gently remove the paint coating at the holder's screw hole to be grounded.



Mounting the camera

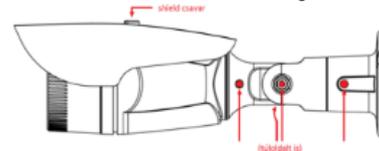
The camera can be mounted the four holes underneath the junction box. The weight of the camera (1380g) must be taken into account when mounting it on the wall by selecting the appropriate fixtures. The dowels and screws attached can be used for brick and concrete walls.

Adjusting the direction of the camera

Use the hexagonal wrench attached to loosen the 4 grub screws (marked red in the image below) while holding up the camera to prevent it from "nodding" down, then set the camera in the preferred position. When positioned properly, tighten all the screws on the console.

Adjusting zoom and focus

The camera lens can be remote-controlled allowing the zoom and focus to be adjusted from the web interface of the camera or the Intellio management software (IVS 2.8 and newer). The lens must not be adjusted manually! After the field of view has been adjusted, the autofocus will automatically adjust the sharpness after a few seconds, which can later be modified in the web interface of the camera or the Intellio management software. Please refer to the chapters on the camera web interface and the Intellio Video System users' guide for more detailed instructions on remote controlling the lens.



Adjusting the sunshield

The sunshield has to extend 2 cm beyond the front of the camera. If it extends farther, spots will appear on the edges of the camera image and the IR light will be reflected back from it, which may result burn-in.

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.

Resetting camera to factory default

If you have set a permanent IP address for the camera and then wish to use the camera in a network with dynamic IP addressing, the camera will not be found. In such cases click the reset button on the camera to have an IP address assigned to the camera from the DHCP. Keep the reset button pressed until the green LED switches to red, then release the reset button. In order to have free access to the reset button, first remove the sun cover, then unscrew the front cover of the camera in clockwise direction. **The camera must under no circumstances be disassembled, since it may result in loss of warranty and the damaging of the waterproof insulation!**



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