intellio™

ORIO Dome

Datasheet and Installation Guide

CAMERA	
Image Sensor	1.3 MP 1/3" CMOS
Sensitivity	Day/Night/LED: 0.7 lux / 0.01 lux / 0 lux
Shutter time	1/6 s - 1/8000 s
Day/night mode	True
Available lenses	Fixed 3.6 (default) / 6 / 8 mm, F1.8
Angle of view	Horizontal: 67°, Vertical: 53°

IMAGE	
Resolution	1280 × 960; 640 × 480
Frame Rate	13 fps (IVC 1280 × 960), 18 fps (IVC 640 × 480) | 10 fps (MJPEG 1280 × 960), 15 fps (MJPEG 640 × 480), 8 fps (H.264 1280 × 960), 15 fps (H.264 640 × 480)
Image Settings	Brightness, Exposure Control, Gain Control, Anti-flickering (50Hz/60Hz), Saturation, Contrast, Gamma, Day/Night mode (Auto/Day/Night), Preferred Day/Night Mode, Sharpness, Noise Filtering, Image Mirroring, IR Mode (automatic/continuous/off) and Brightness
Encoder Settings	Codec Type (IVC/MJPEG/H264), Quality, I-frame Distance, Resolution, Frame Limit, Bandwidth Limit, Pre- and Post-alarm, Reduced Frame Rate Control

COMPRESSION	
Video Compression	Intellio Video Codec (IVC), H.264, Motion JPEG
Bitrate	1 Mbps - 10 Mbps
Streaming	Intellio Video Streaming

INTERFACE	
Ethernet	10BaseT/100BaseTX, RJ45
Reset Button	Reset To Factory Defaults (IP Address Reset)

NETWORK	
Protocols	NTP, TCP/IPv4, DHCP, DNS
Security	Camera User Name and Password

GENERAL	
Environmental Protection (waterproof and dustproof)	IP66
Vandal proof level	IK10
Operating Conditions	-30 °C – +50 °C
Use	Indoor/Outdoor
Power Supply	PoE support (IEEE 802.3af) – PoE Class 0 (max. 100 m), 22-50 V DC (with Cat5e max. 50 m)
Power Consumption	With 24 V DC power supply: Max. 11 W, With PoE power supply: Max. 9 W
Dimensions	ø 106 × 78 mm
Weight	460 g
Certificates	CE: EN 55022, EN 55024, RoHS compliant

IR ILLUMINATION	
IR LED	1 pc SMD IR LED, 850nm
IR illumination distance	Approx. 10 m
Illumination angle	90°

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	64 polygons for masking, Object behavior settings, Day-time/Night-time sensitivity, Environmental settings (if tracking is enabled, the refresh rate values will be reduced by about 50%)
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

Installation Guide

Loosen the grub screws found on the side of the camera housing with the supplied Allen key. Push the case opening wedge into the gap found between the bottom and the dome of the camera. Do not rotate the dome in any direction, this could damage the camera. After the dome has been removed please check that the rubber seal found between the dome and the bottom of the camera is in place.
Remove the clamping ring and the rubber sealing ring found in the cable hole.

Pull the UTP cable (CAT5e, outer diameter 5.5mm) through the hole. Do not use a cable that is smaller or larger in diameter, as a different size cable will not sufficiently seal the hole. By using a different size cable, the integrity of the camera housing will become void. Pull the cable through rubber sealing ring and the clamping ring.

Crimp the RJ45 connector. Do not put the protection cap on the connector, it will not fit inside the camera.

Before fastening the screw on the clamping ring set the cable length (use a flat-head screwdriver). Insert the RJ45 plug into the socket. Fasten the bottom of the camera with the three supplied srews.

If necessary configure the focus by loosening the fastening ring and then turning the camera lens. Once the camera focus has been set, fasten the camera lens with the ring.

Place the piece of foam on the camera lens, make sure that the whole surface of the foam comes in contact with the LED panel. This foam prevents the IR light emitted by the IR LEDs from being reflected off the dome.
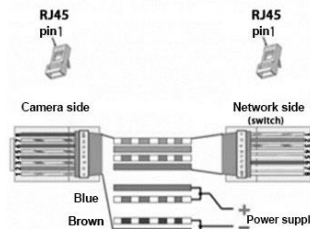
Place the dome back on the camera and fasten it with the two grub screws on the side.

Power supply

Passive power supply 24-50V
Power can be supplied over an Ethernet cable. Power connection is compatible with the most frequently used power supply devices, but you may also operate the camera with the power supply shown below.

Positioning the shield

The shield can stick out maximum 2 cm (approx. ¾ inch) from the front of the camera. If you push the shield too far ahead, patched may appear at the edges of the camera view, or IR light may be reflected from it, resulting in spots on the night view of the camera. Use the screw on the top of the camera to fix shield position.

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 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.

Restoring default settings

Hold the reset button until the status LED turns red, then release the button.

What's in the box

Allen key, fixture, wedge for opening the housing

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