

Camera Integration



Introduction

This page covers the protocols by which different makes and models of cameras are integrated into the Witness™ system.

Contents

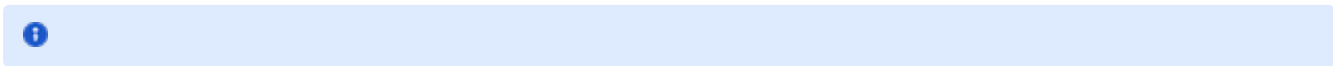
- [Overview](#)
- [ONVIF Support](#)
- [Custom Integration](#)
- [Zoom Calibration and Testing](#)
- [Supported Cameras](#)
- [Related Information](#)

Overview

Witness™ supports a variety of cameras for automatic control. Each camera is tested, calibrated and integrated by our software team. This ensures the camera operates correctly when controlled by our radar system. Where additional camera features, such as wiper and lamp control are available, we integrate these so the operator has full manual control through Witness™ if required. Each camera is tested for speed of response, quality of movement and accuracy.

ONVIF Support

Witness™ can support most ONVIF cameras **not** included on our supported camera list. However we still like to test all cameras for compatibility and most cameras will require a zoom calibration. So where possible, we like to test cameras at our UK office before installation. This will guarantee that the camera works as expected. If we find faults with a camera then we request support from the manufacturer to help us resolve the problem before returning the camera.



Custom Integration




Where appropriate we have used manufacturer specific protocols (i.e. FLIR). Sometimes the manufacturer's own protocol offers more features than standard ONVIF, or in some cases the camera may not support ONVIF. We can undertake integration of almost any PTZ camera as long as it is a network device (i.e. not serial) and supports accurate absolute positioning for pan, tilt and zoom through network communication. If you are unsure if your camera can be used with our software, please contact us to ask about integration.

Zoom Calibration and Testing

Zoom calibration is required to match the magnification of the camera lens to the range of the target. When automatically tracking targets, our software will always maintain the most suitable zoom level based on the size and distance of the target. If your camera works with our standard ONVIF driver, but you are unable to provide us with a device to test, then it may be possible to perform the zoom calibration as part of the on site commissioning. However, without testing there is no guarantee that the camera will respond as expected and we would strongly recommend all non-supported cameras are tested by our development team.

Supported Cameras

The table below shows, at a glance, which camera models have been integrated with Witness™ and the level of integration achieved. Integration is graded as follows:

	Reliable PTZ control and zoom calibration.
	Reliable PTZ control, zoom calibration and support for additional camera features, such as wiper and lamps.
	Reliable PTZ control, zoom calibration, additional features and advanced features such OSD and manual override support.

Make	Model	Protocol	Integration	Notes
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AXIS	P5635-E	ONVIF	★★	
AXIS	Q6045-E Mk II	ONVIF	★★	
AXIS	Q8641-E	ONVIF	★★	
AXIS	Q6215-LE	ONVIF	★★	
AXIS	Q8742-LE Zoom	ONVIF	★	Daylight / Thermal Dual Camera
AXIS	Q8752-E Bispectral	ONVIF	★★	Daylight / Thermal Dual Camera
Bosch	AUTODOME IP Starlight 5000	ONVIF	★★	
Bosch	AUTODOME IP Starlight 5000i IR	ONVIF	★★	
Bosch	AUTODOME IP Starlight 7000i	ONVIF	★★	
Bosch	MIC 7000 HD	ONVIF	★★	
Bosch	MIC 7000 HD WL	ONVIF	★★	
Bosch	MIC 9000i HD (Thermal)	ONVIF	★★	
Bosch	MIC 612 Ti x28 (Thermal)	Pelco D via AXIS Encoder	★	Analogue camera - uses the AXIS for an IP connection
Bosch	MIC 550 x28	Pelco D via AXIS Encoder	★	Analogue camera - uses the AXIS for an IP connection
Bosch	MIC 412 Ti x36 (Thermal)	Pelco D via AXIS Encoder	★	Analogue camera - uses the AXIS for an IP connection
Bosch	MIC 412 x18	Pelco D via AXIS Encoder	★	Analogue camera - uses the AXIS for an IP connection
Bosch	AUTODOME Starlight 5000i IR	ONVIF	★★	
Dahua	DH-PTZ12248V-IRB-N	ONVIF	★★	
Dallmeier	Panomera S8 Topline 87/45	ONVIF	★★	
Dallmeier	Panomera S8 Ultraline 78/75	ONVIF	★★	
FLIR	PT140 x35	FLIR SDK	★★★★	
FLIR	PT313	FLIR SDK	★★★★	
FLIR	PT602CZ	FLIR SDK	★★★★	
FLIR	PT606Z HD	FLIR SDK	★★★★	
FLIR	PT606Z HD	ONVIF	★★	Does not support camera priority
FLIR	PT612	FLIR SDK	★★★★	
Ganz	LZN-NDNC30X Nautilus	ONVIF	★★	
Geutebruck	G-CAM/ESD-3280 30x	ONVIF	★★	
Geutebruck	G-CAM/ESD-4620 40x	ONVIF	★★	
HIK Vision	DS-2DF883615X-AELW	ONVIF	★★	
Honeywell	HDZ302LIK	ONVIF	★★	
Huawei	IPC6681-Z20	ONVIF	★★	Integrated with F/W IPC V200R003C30SPC232
Panasonic	WV-SUD638 x45	ONVIF	★★	
Panasonic	WV-SW598A	ONVIF	★★	
Pelco	ES6230	ONVIF	★★	
RedVision	RVXIP 30 IR WL W	ONVIF	★★	

RedVision	RVX2 IR WL	ONVIF	★★	
Silent Sentinel	Aeron Ranger LR	Pelco D	★★	See note below.
Silent Sentinel	Aeron	ONVIF	★★	
Sony	SNC-WR632 30x	ONVIF	★★	
Vicon	Roughneck V2000D	ONVIF	★★	
360 Vision	Predator HD	ONVIF	★★	
360 Vision	Predator HD x30	360 Vision Protocol	★★★	
360 Vision	Predator HD x30 Thermal	360 Vision Protocol	★★★	
360 Vision	Predator HD x40	360 Vision Protocol	★★★	
360 Vision	Predator HD x40	ONVIF	★★	
360 Vision	Centurion IP	360 Vision Protocol	★★★	
360 Vision	Dome VR HD	ONVIF	★★	
Videotec	NXPTZ2V8XR	ONVIF	★★	Daylight and thermal cameras on separate IP addresses. Both have shared PT controls but independent zoom

