BRIDGE AIPIX

Version 26.09

Aipix Bridge is a hardware-software complex for rapid integration of existing cameras into a unified surveillance ecosystem.

It aggregates video streams from local private networks and delivers them to the Aipix platform through a secure connection.

The system supports full camera management, including PTZ control and the processing of events from built-in video analytics.



NS-1 Bridge

Key Function: rapid transition to the Aipix cloud — no equipment replacement required.
Vendor and ISP independent.

Main Features:

Easy setup

- A Plug-and-Play device requires no complex configuration and is ready for use immediately upon connection.
- Connecting IP cameras to the Aipix platform over the internet without using a dedicated public IP address.
- Connection of any IP cameras via RTSP and ONVIF protocols.
- Connection via wired Ethernet network.

Administration

- Automatic IP camera discovery on the network.
- utomatic tracking of camera IPv4 address changes when using a DHCP server.
- Web interface for device configuration and status monitoring of its connection to the Aipix platform.
- Supports over-the-air (OTA) firmware updates managed centrally through the Aipix platform.

Reliability and Data Security

- Secure audio and video data transmission using state-of-the-art encryption methods.
- Enable diagnostic device logging for rapid troubleshooting by the Aipix technical support team.
- Local data backup enables video recording to an SD card when the internet connection is unavailable. Once connectivity is restored, Bridge automatically synchronizes the local archive with the cloud platform, preventing video footage loss.

Advanced Camera Control

- PTZ control support for IP cameras.
- Support for ONVIF events from IP camera built-in analytics.
- Traffic optimization via automatic stream pause on Bridge cameras during idle viewing while maintaining an active RTSP connection.

Specification:

Connected devices	**IP-camera**	Up to 8 channels (2MP/3MP/4MP/5MP)
Supported video codecs	**Supported video codecs**	H.265/H.264
	Supported IP camera resolutions	2MP/4MP/5MP/8MP
	Supported audio codecs	G.711ulaw, G.711alaw, AAC
Network interfaces	**Network wired interface**	1 RJ-45 10/100/1000 Mbps Ethernet
External interfaces	**USB**	2xUSB 2.0, 1xUSB 3.0
	HDMI	HDMI 1-ch
	Digital display	1x
	Card	1x microSDXC (64, 128, 256, 512 ГБ), UHS-I, Class 10, U3, V30, High Endurance
	AV Connector (RCA)*	1x
Operating system	**OC**	Ubuntu 22.04 (Kernel 5.15)
Protocols	**IP camera connection protocols**	RTSP, ONVIF
	Network protocols	TCP/IP, ICMP, HTTP, HTTPS, DHCP, DNS, RTP, RTSP, NTP, IPV4, SSH, TLS1.3
	Support for ONVIF built-in analytics events	Motion detection, Alarm Input, Alarm Output
General specifications	**Power supply**	5V DC / 2A
	Operating temperature	0°C to +45°C
	Enclosure material	Plastic
	Dimensions	100x100x20 mm
Package contents	**Bridge device**	1 pcs
	Power adapter: 100-240V AC to 5V DC	1 pcs
	Package	1 pcs

* Not supported in current version

Available Models

NS-1 BRIDGE

Physical dimensions:



Interfaces:





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