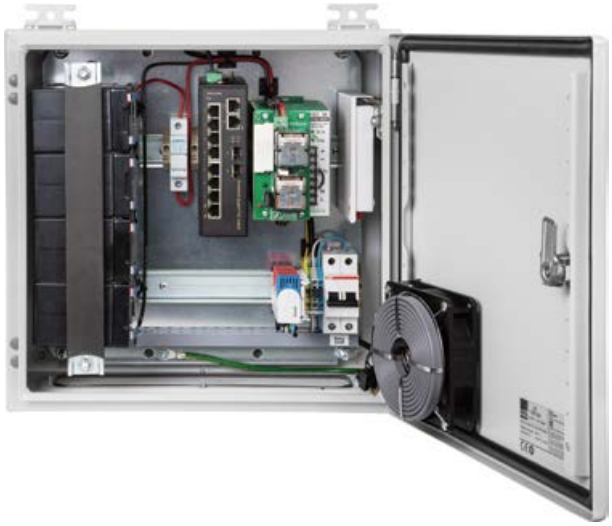
Outdoor Video Surveillance systems

Outdoor access Nodes NSBox

The NSBox access Nodes are devised for deployment of protected outdoor video surveillance systems. The nodes provide troubleproof and correct operation of a group of video cameras connected to a node: reliable power, a reliable data transmission channel, a surge protection of any wired connections.

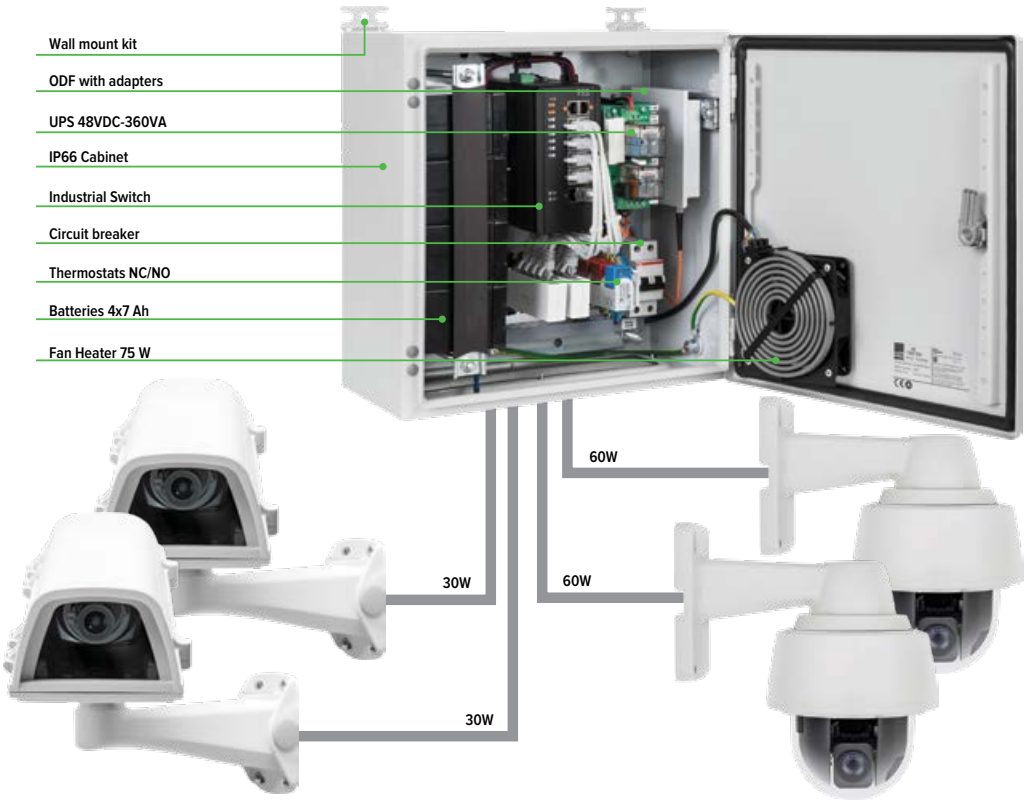
There is ideal technological solution for time and money saving in any outdoor Video Surveillance projects for a large area. Examples of such applications are: highways, bridges, traffic light poles, parking lots, police departments, airports, seaports, railways, sports facilities, hotels, parks, shopping malls, construction sites, etc.



The NSBox is a completed product for installation and operation in any climates. Depending on the field of application and operating conditions, various series of electrical enclosures with protection category IP66 / NEMA4 are offered: Powder-coated sheet Steel; Stainless Steel; Glass Reinforced Polyester; Coated Aluminum alloy (explosion-proof design).

The device has one 110-220VAC external power line, up to 16 Ethernet ports for connecting IP video cameras, wireless access points or other PoE equipment and up to 4 Uplink Ethernet for communication with another access nodes or an aggregation center. In the absence or irregular operation of external power supply 220V, you can use solutions with alternative energy sources from Solar panel or Wind Turbine. With the absence or failure of fiber-optic channels, alternative 4G / LTE wireless communication channels can be used.

The basic equipment includes: wall mounting brackets, a mounting plate with DIN rails, terminal blocks, a circuit breaker, an electrical grounding bar, a fan with a thermostat, set of sealed cable glands for electrical and optical cables.



In addition to this, additional modules can be included in the assembly of access Nodes:

- Industrial grade communication equipment: Industrial PoE Switches with 4-16 ports or Converters;
- Uninterruptible Power Supply: 12/ 24/ 48VDC or 220VAC, 150-500VA, with batteries 2.2/ 7/ 12/ 50Ah;
- Climatic control system inside cabinet: thermostats, heating element with fans, thermoelectric Coolers;
- Fiber Optic Distribution Frame (ODF) for connecting optical fibers with FC adapters, pigtails, patch cords;
- Surge protection elements for Ethernet ports with PoE and power circuits (220VAC);
- Various detectors and sensors with a controller for system monitoring;
- Power Supply 24VAC for PTZ, Socket for mounting on DIN Rails, Indoor lighting kit for enclosure;
- Mechanical accessories: Wall or pole Mount Kit, Rain Roof, Lock on the door, etc.
- 4G/LTE Router (NSBox-LTE), NVR (NSBox-NVR), PoE/Solar Controller (NSBox-SUN), Cooling (NSBox-ICE)

Basic kits of Outdoor access Nodes NSBox-xxxx

NSBox with Unmanaged PoE Switches		**1 - 2 ports PoE**
NSBox-121	NSB-3030 enclosure with Fan, without Heater, without ODF; 24VDC-100W Power supply; Unmanaged switch NIS-3200-231PSGB with VDC Booster: Uplink 2 TP/1G, 1 port TP/1G PoE 30W for IP cameras	
NSBox-122	NSB-3030 enclosure with Fan, without Heater, without ODF; 24VDC-100W Power supply; Unmanaged switch NIS-3200-132PSGB with VDC Booster: Uplink 1 TP/1G, 2 ports TP/1G PoE 30W for IP cameras	
NSBox-221	NSB-3030F1 enclosure with Fan, without Heater; 24VDC-100W Power supply; Unmanaged switch NIS-3200-331PSGB with VDC Booster: Uplink 1 SFP/1G + 2 TP/1G, 1 port TP/1G PoE 30W for IP cameras	
NSBox-222	NSB-3030F1 enclosure with Fan, without Heater; 24VDC-100W Power supply; Unmanaged switch NIS-3200-232PSGB with VDC Booster: Uplink 1 SFP/1G + 1 TP/1G, 2 ports TP/1G PoE 30W for IP cameras	
NSBox-223	NSB-3030F1 enclosure with Fan, without Heater; 48VDC-100W Power supply; Unmanaged switch NIS-3200-361PSG: Uplink 1 SFP/1G + 2 TP/1G, 1 port TP/1G High-Power PoE 60W for IP cameras	
		4 ports PoE
NSBox-245	Access Node: NSB-3040F1 enclosure with Fan, without Heater; 48VDC-150W Power supply; Unmanaged switch NIS-3200-205PSG: Uplink 1 SFP/1G + TP/SFP combo, 4 ports TP/1G PoE 30W for IP cameras	
NSBox-245R	NSB-3838F1 enclosure with Fan, without Heater; 48VDC-155VA UPS (4x 2.2Ah); Unmanaged switch NIS-3200-205PSG: Uplink 1 SFP/1G + TP/SFP combo, 4 ports TP/1G PoE 30W for IP cameras	
NSBox-442	NSB-3838F1 enclosure with Fan, without Heater; 55VDC-360W Power supply; Unmanaged switch NIS-3200-464PSG: Uplink 2 SFP/1G + 2 TP/1G, 4 ports TP/1G High PoE 60W or 2x 30W + 2x 95W Ultra PoE	
		8 ports PoE
NSBox-285	NSB-3040F1 enclosure with Fan, without Heater; 48VDC-360W Power supply; Unmanaged switch NIS-3200-208PSG: Uplink 2 Gigabit TP/SFP combo, 8 ports TP/1G PoE 30W for IP cameras	
NSBox-286	NSB-3860F1 enclosure with Fan, without Heater; 48VDC-360W Power supply; Unmanaged switch NIS-3200-208PSG: Uplink 2 Gigabit TP/SFP combo, 8 ports TP/1G PoE 30W for IP cameras	
NSBox with Managed PoE Switches L2/L2+		**4 ports PoE**
NSBox-2040	Access Node: NSB-3030F1 enclosure with Fan, without Heater; 48VDC-150W Power supply; Managed switch NIS-3500-2204PGE: Uplink 2 SFP/1G, 4 ports TP/1G PoE 36W for IP cameras; Reboot PDs	
NSBox-2041	NSB-3040F1 enclosure with Fan, without Heater; 55VDC-360W Power supply; Managed switch NIS-3500-3204PGE: Uplink 2 SFP/1G + 1 TP/1G, 4 ports TP/1G PoE 802.3bt (95W) for IP cameras; Reboot PDs	
NSBox-4042	NSB-3040F1 enclosure with Fan, without Heater; 48VDC-150W Power supply; Managed switch NIS-3500-3224PGE: Uplink 2 SFP/1G + 2 TP/1G, 4 ports TP/1G PoE 30W for IP cameras; Reboot PDs	
		8 ports PoE
NSBox-2080	Access Node: NSB-3040F1 enclosure with Fan, without Heater; 48VDC-360W Power supply; Managed switch NIS-3500-3208PC: Uplink 2 SFP/1G, 8 ports 10/100T PoE 30W for IP cameras; Reboot PDs	
NSBox-4080	NSB-3838F1 enclosure with Fan, without Heater; 48VDC-360W Power supply; Managed switch NIS-3500-3408PGE: Uplink 4 SFP/1G, 8 ports TP/1G PoE 30W for IP cameras; Reboot PDs	
NSBox-4082	NSB-3838F1 enclosure with Fan, without Heater; 55VDC-360W Power supply; Managed switch NIS-3500-3226PGE: Uplink 2 SFP/1G + 2 TP/1G, 8 ports TP/1G PoE (2x 60W + 6x 30W) for IP cameras; Reboot PDs	
NSBox-4082R	NSB-3838F1 enclosure with Fan, without Heater; 48VDC-360VA UPS (4x 7Ah); Managed switch NIS-3500-3226PGE: Uplink 2 SFP/1G + 2 TP/1G, 8 ports TP/1G PoE (2x 60W + 6x 30W) for IP cameras; Reboot PDs	
NSBox-4083	NSB-3860F1 enclosure with Fan, without Heater; 55VDC-360W Power supply; Managed switch NIS-3500-3226PGE: Uplink 2 SFP/1G + 2 TP/1G, 8 ports TP/1G PoE (2x 60W + 6x 30W) for IP cameras; Reboot PDs	
		16 ports PoE
NSBox-4161	NSB-3860H2F1 enclosure with Fan, without Heater; 55VDC-500W Power supply; Managed switch NIS-3500-3426PGE: Uplink 2 SFP/1G + 2 TP/1G, 16 ports TP/1G PoE 30W for IP cameras; Reboot PDs	
NSBox-4161HR	NSB-3860H3F1 enclosure with Heater; 48VDC-500VA UPS (4x 7Ah); Managed switch NIS-3500-3426PGE: Uplink 2 SFP/1G + 2 TP/1G, 16 ports TP/1G PoE 30W for IP cameras; Reboot PDs	
NSBox-xxxx H C R L N	H - installed Heater R - installed UPS	C - installed Thermoelectric Cooler L - installed 4G LTE Router N - installed NVR