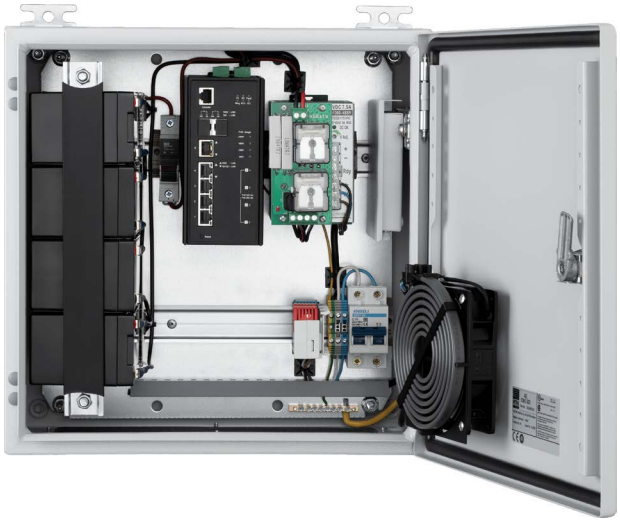
NSGate

Outdoor Video Surveillance systems

Outdoor access Nodes NSBox

NSBox-xxx, modular and scalable access nodes are devised for the deployment of protected outdoor video surveillance systems. The nodes provide trouble-proof operation of connected video cameras with a secure power supply, reliable data transmission, and protection of sensitive equipment from surges caused by lightning and grid power fluctuations.

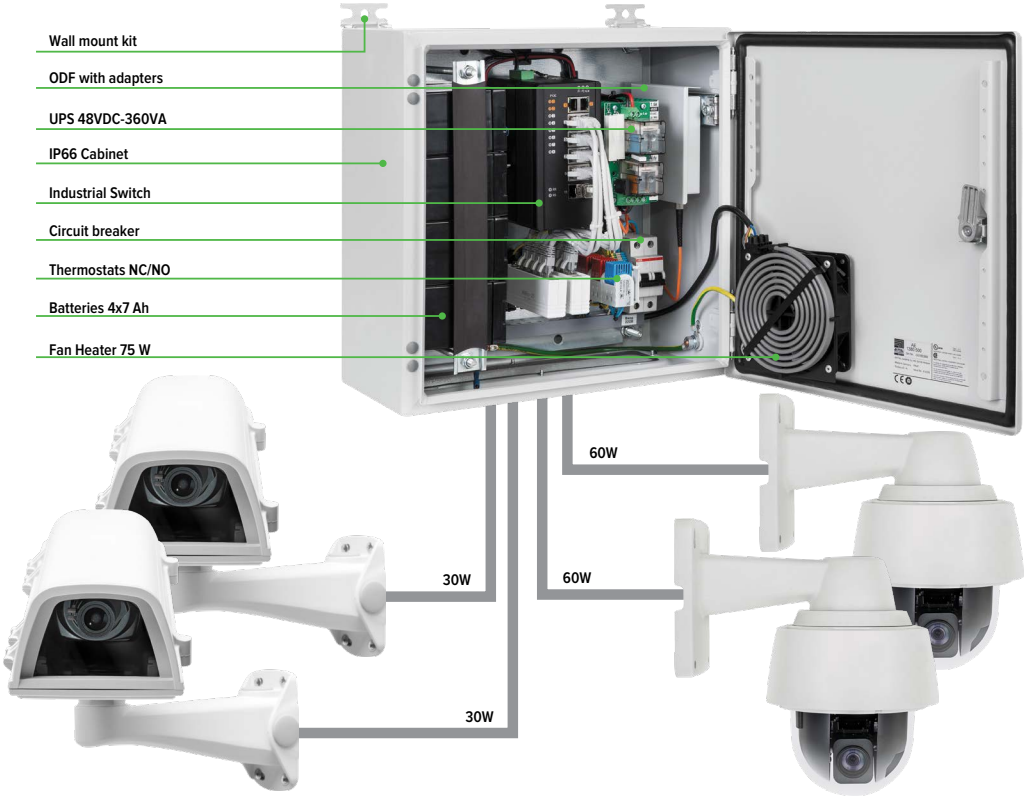
It is an ideal technology solution for time and money saving in any outdoor video surveillance projects for a large-scale area ranging from construction sites, parking lots, hotels, parks, sports facilities, airports, railways, bridges, and highways.



The NSBox is a complete product for operation in any climate. Depending on the field of application and operating conditions, various series of electrical enclosures with protection category IP66 | NEMA4 are used: powder-coated sheet steel, stainless steel, glass reinforced polyester, coated aluminum alloy (ATEX compliant).

The device has one 100-240VAC power line, up to 16 PoE ports for video cameras or wireless access points and up to 4 uplink Ethernet ports. In the absence of on-grid systems you can use alternative energy sources such as Solar panels or Wind turbines. In the absence or failure of fibre-optic channels you can use alternative 4G/LTE cellular communication.

The basic NSBox 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, industrial grade switch and power supply.



Additional modules that can be included in the assembly:

- Industrial 4-16 ports PoE switches 802.3bt | embedded PC;
- UPS 150-500VA: 24 | 48VDC with batteries 2.2 | 7 | 15 | 45Ah;
- Climate: thermostats, Fan Heater, Thermoelectric assembly;
- Fibre-optic distribution frame (ODF) for connecting optical fibers;
- Lightning and surge protection for Ethernet ports and power circuits;
- Various detectors and sensors with a controller for system monitoring;
- Indoor lighting kit for enclosure, Socket for mounting on DIN rails;
- Mechanical accessories: Pole mount kit, Rain hood, Door lock;
- 4G LTE Cellular Router, compact NVR, Solar charge controller;

Basic kits of Outdoor access Nodes NSBox-xxxx

NSBox with Unmanaged PoE Switches	**4 ports PoE, without SFP uplink ports | LTE | Wireless | Solar panel**
NSBox-123	Access Node: NSB-3030 enclosure with Fan, without Heater, without ODF; 48VDC-100W Power supply; NIS-3200-115PSG Switch: uplink 1 TP/1G, 4 ports TP/1G PoE 30W for IP cameras; Reboot PDs
NSBox-123L	Access Node: NSB-3030 enclosure with Fan, without Heater, without ODF; 48VDC-100W Power supply; NIS-3200-115PSG Switch: uplink 1 TP/1G, 4 ports TP/1G PoE 30W; NSBon-61 4G LTE router
NSBox-124R	NSB-3838 enclosure with Fan, without Heater, without ODF; UPS DR-24VDC-240VA with mounting kit for batteries 15Ah x2; NIS-3200-115PSG Switch: 1 TP/1G + 4x TP/1G PoE 30W, NSBon-48 Booster; Reboot PD
NSBox-p124S-30	NSP-4040 Polyester enclosure with Fan, without Heater; UPS DR-24VDC-240VA with mounting kit for batteries 15Ah x2; NIS-3200-115PSG Switch, NSBon-48 Booster; NSBon-51 Solar charge controller; Reboot PD
NSBox-124S-90	NSB-3860H2 enclosure with Fan, without Heater; UPS DR-24VDC-240VA with mounting kit for batteries 45Ah x2; NIS-3200-115PSG Switch, NSBon-48 Booster; NSBon-51 Solar charge controller; Reboot PD
	4 ports PoE | SFP uplink ports
NSBox-242	Access Node: NSB-3040F1 enclosure with Fan, without Heater, with ODF; 48VDC-150W Power supply; WI-PS306GF-I Switch: uplink 2 SFP/1G, 4 ports TP/1G PoE 30W for IP cameras
NSBox-p242	Access Node: NSP-3040F1 Polyester enclosure with Fan, without Heater, with ODF; 48VDC-150W Power supply; WI-PS306GF-I Switch: uplink 2 SFP/1G, 4 ports TP/1G PoE 30W for IP cameras
NSBox-442	NSB-3838F1 enclosure with Fan, without Heater, with ODF; 55VDC-360W Power supply; NIS-3200-464PSG Switch: uplink 2 SFP/1G + 2 TP/1G, 4 ports TP/1G High PoE 60W or 2x 30W + 2x 95W Ultra PoE
	8 - 16 ports PoE | SFP uplink ports
NSBox-282	Access Node: NSB-3040F1 enclosure with Fan, without Heater, with ODF; 48VDC-240W Power supply; WI-PS310GF-I Switch: uplink 2 Gigabit TP/SFP combo, 8 ports TP/1G PoE 30W for IP cameras
NSBox-360	Access Node: NSB-3860H2F1 enclosure with Fan, without Heater, with ODF; 48VDC-500W Power supply; 2x WI-PS310GF-I Switches: uplink 2 Gigabit TP/SFP combo, 16 ports TP/1G PoE 30W for IP cameras
NSBox with Managed PoE Switches L2/L2+	**4 ports PoE | SFP uplink ports**
NSBox-2040	Access Node: NSB-3030F1 enclosure with Fan, without Heater, with ODF; 48VDC-150W Power supply; NIS-3500-2204PGE Switch: uplink 2 SFP/1G, 4 ports TP/1G PoE 36W; Reboot PDs
NSBox-p2040	Access Node: NSP-3040F1 Polyester enclosure with Fan, without Heater, with ODF; 48VDC-150W Power supply; NIS-3500-2204PGE Switch: uplink 2 SFP/1G, 4 ports TP/1G PoE 36W; Reboot PDs
NSBox-2041	Access Node: NSB-3040F1 enclosure with Fan, without Heater, with ODF; 55VDC-360W Power supply; NIS-3500-3204PGE Switch: uplink 2 SFP/1G + 1 TP/1G, 4 ports TP/1G PoE 802.3bt (95W); Reboot PDs
	8 ports PoE | SFP uplink ports
NSBox-2080	Access Node: NSB-3040F1 enclosure with Fan, without Heater, with ODF; 48VDC-360W Power supply; NIS-3500-3208PC Switch: uplink 2 SFP/1G, 8 ports 10/100T PoE 30W for IP cameras; Reboot PDs
NSBox-4044	Access Node: NSB-4040F3 enclosure with Fan, without Heater, with ODF; 55VDC-360W Power supply; WI-PMS312GF-I Switch: uplink 4 SFP/1G, 8 ports TP/1G PoE 802.3at/3bt/Passive; Reboot PD
NSBox-p4044	Access Node: NSP-4060H2F1 Polyester enclosure with Fan, without Heater, with ODF; 55VDC-360W Power supply; WI-PMS312GF-I switch: uplink 4 SFP/1G, 8 ports TP/1G PoE 802.3at/3bt/Passive; Reboot PD
NSBox-4080	Access Node: NSB-3838F1 enclosure with Fan, without Heater, with ODF; 48VDC-360W Power supply; NIS-3500-3408PGE Switch: uplink 4 SFP/1G, 8 ports TP/1G PoE 30W for IP cameras; Reboot PD
NSBox-4082	Access Node: NSB-3838F1 enclosure with Fan, without Heater, with ODF; 55VDC-360W Power supply; NIS-3500-3226PGE Switch: uplink 2 SFP/1G + 2 TP/1G, 8 ports TP/1G PoE (2x60W + 6x30W); Reboot PD
	16 ports PoE | SFP uplink ports
NSBox-4161	Access Node: NSB-3860H2F1 enclosure with Fan, without Heater, with ODF; 55VDC-500W Power supply; NIS-3500-3426PGE Switch: uplink 2 SFP/1G + 2 TP/1G, 16 ports TP/1G PoE 30W; Reboot PDs
NSBox-4161HR	Access Node: NSB-3860H3F1 enclosure with Fan Heater; UPS NR-48VDC-500VA with mounting kit for batteries 7Ah x4; NIS-3500-3426PGE Switch: uplink 2 SFP/1G + 2 TP/1G, 16 ports TP/1G PoE 30W; Reboot PD
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