

Control Panel

XTO-IP240 and XTO-IP740

Application

The XTO-IP alarm panel is a Videofied® weatherproof, wireless, battery-operated security system. The control panel is designed for outdoor commercial applications (constructions sites, cellular towers, remote sites, electrical substations...). The box is water-resistant and temperature-resistant.

The control panel is powered by four 3.6V Lithium batteries that last up to four years, with normal system activity.

A tamper function is active 24 hours, whether or not the system is armed. An alarm occurs if the control panel cover is removed.

The user can arm and disarm the system by entering his code on the external keypad. A booster antenna is built in the weather-resistant box of the product.

Supervised Wireless Technology

The XTO series, along with all Videofied devices uses patented S2View® - Spread Spectrum, Videofied, Interactive, AES Encrypted Wireless technology, providing optimum signal integrity and security.

Bi-directional RF communication between all system devices and the system control panel assure high signal reliability.

The panel supervises every device (excluding the remote keyfob) to monitor current open/close state, tamper condition, serial number, date of manufacture, firmware revision, and battery status.

Configuration/Programming

Complete system configuration/programming can be done on-site using alphanumeric keypads.

Easy to understand text on a two line, 16-character liquid-crystal (LCD) display guides you through programming, prompting you for simple yes/no or data entry responses.

Complete punctuation symbols allow for accurate website/IP address entries and device location naming.



Special Features

- **S2View®:** Spread Spectrum, Videofied®, Interactive AES Encrypted Wireless technology provides optimum signal integrity and security
- **Compatibility:** works with all Videofied® wireless devices
- Supervision of all devices (except remote keyfob)
- **Zones / Devices:** 25 maximum
- **Tamper detection:** 24-hour dual-tamper function provides detection for both cover and wall removal; Control panel also monitors all system device tamper switches
- **Areas:** 4 maximum; Area 1 predefined from factory for entry/exit delay; Areas 2, 3, and 4 can be configured as needed
- **Access codes:** 20 maximum, 4 - 6 digits; one installer access code for on-site programming only
- **Configuration/Programming:** on-site using alphanumeric keypads
- **Communication:** reports to central monitoring stations using Frontel
- **Video verification:** video resolution of QVGA (320x240), 0 lux sensitivity, 5-frames per second, 256 kB MPEG (H264) file
- **History/Event Log:** maximum 4.000 events stored in flash memory that cannot be cleared or erased

Method of Operation

Communication

The XTO reports alarms and other system events by using the Frontel protocol. Frontel provides complete system reporting information and video verification to a central monitoring station set up with the Frontel alarm receiving software.

Video Verification

Incorporating MotionViewer® into the security system allows for video verification of intrusion alarms.

When the system is armed and an intruder trips MotionViewer®, the integrated camera captures a 10-second digital video clip which is sent to the central monitoring station by the control panel, which can forward them to an alert list.

Technical Characteristics

Compatibility

The XTO series panel is compatible with all the Videofied® wireless devices described in this page:

	<p>Indoor MotionViewer® Integrated PIR motion detector, night vision digital camera, white flash illuminators. The Indoor MotionViewer® detect intruders and capture a video of the intrusion which is sent to the panel over RF.</p>
	<p>Outdoor Badge Reader with Proximity Tag Allowing Arming/disarming of the system from outside the premises. The Prox-Tags are standard Mifare badges.</p>
	<p>Door Contact Detect door and window open/close activity.</p>
	<p>Outdoor MotionViewer® Integrated PIR motion detector, night vision digital camera, infrared illuminators. The Outdoor MotionViewer® detect intruders and capture a video of the intrusion which is sent to the panel over RF.</p>

History/Event Log

The XTO control panel records and stores all system activities and events (armings, disarmings, alarms, access codes entered, system programming changes, etc.) in flash memory, that cannot be cleared or erased.

The log accumulates a maximum of 4.000 events. As additional events occur, the control panel automatically deletes the oldest event. This ensures the most recent events reside in the log.

The history/event log can be viewed using an alphanumeric keypad or downloaded at the monitoring station.

	<p>Indoor Siren Provide status beeps and alarm sounds throughout the premises where needed.</p>
	<p>Outdoor Siren/Strobe Provide alarm sounds and visual identification of alarm site for responding authorities.</p>
	<p>Smoke Sensor Enhances protection and uses advanced smoke detection technology. Totally wireless and integrated to the security system.</p>
	<p>Remote Keyfob Allow limited system operation and panic alarm capability in a portable, convenient package.</p>

Technical Data

Electrical Properties	
Power Requirements (Option 1)	
Power supply Type B:	9-12 V DC / 1.2 A
Low voltage limit:	5.15 V
Backup:	6 V with 4 x 1.5 V D Alkaline batteries /LR20
Low battery limit:	4.2 V
Battery life (average):	1 year
Average current consumption (over 1h):	450 μ A
Max. current:	1.2 A
Power Requirements (Option 2)	
Power Supply Type C:	14.4 V with 4x 3.6 V LSH20 lithium batteries
Low battery limit:	12 V
Battery life (average):	4 years
RF S2View® Technology	
Radio type:	Bidirectional RF
Operating frequency:	XTO-IP240: 868 MHz XTO-IP740: 920 MHz - FHSS
Transmission Security:	AES encryption algorithm
Radio jam detection:	Yes
Supervision:	Yes
Antenna:	Integrated (Booster)
External radio antenna:	Yes via MMCX connector
Tamper	
Tamper detection:	Cover tamper
Programmable Wired Input	
Number:	3
"Dry" contact:	Yes
Max. input voltage:	12 V DC (15 V DC)
Programmable Wired Output	
Number:	2
Max. switching voltage:	24 V DC /30 V AC
Max. switching current:	1 A
Max. switching power:	30 VA
Standards and Certifications	
XTO-IP240:	CE, UKCA, ICASA
XTO-IP740:	RCM

Transmission	
Communicator	
Communicator type:	XTO-IP240: LTE Cat-M, 2G, Ethernet XTO-IP740: LTE Cat-M, Ethernet
LTE CAT-M (4G) frequencies:	XTO-IP240: 2100 (B1), 1800 (B3), 900 (B8), 800 (B20), 700 (B28) XTO-IP740: 2100 (B1), 1800 (B3), 850 (B5), 900 (B8), 700 (B28)
2G frequencies:	XTO-IP240: 850, 900, 1800, 1900 MHz XTO-IP740: -
IP stack:	TCP/IP
Security protocol:	Frontel
Video transmission:	By Frontel protocol to central monitoring station
Cellular antenna:	Integrated (Booster)
External cellular antenna:	Yes via MMCX connector
Video Properties	
Video format:	MPEG (encoding H264)
Resolution:	QVGA (320 x 240)
Video file size:	256 kB (Typ.)
Framerate:	5 Images per second
Miscellaneous	
Programming:	With remote Keypad
Max. number of devices:	25
Max. access badges/codes:	20
Arming modes:	4
Areas:	4
Event log:	4000 events stored on flash memory
Box	
Physical Properties	
Material:	ABS ULV0
Dimensions:	272 x 276 x 96 mm
Weight:	1.6 kg (without batteries) / 2.2 kg (with batteries)
Environmental Properties	
Operating Temperature:	-25 °C / +70 °C
Max. Relative Humidity:	95 %, non-condensing
Protection class:	IP54
Installation and Mounting	
Control panel/base:	Four screws to close the cover; Four screws on panel base for brackets mounting

resideo

RSI Video Technologies
25, rue Jacobi-Netter
67200 STRASBOURG, FRANCE
Tel.: +33 (3) 90 20 66 30

For more information
resideo.com

© 2023 Resideo Technologies, Inc. All rights reserved.
Subject to change. EN0H-1664GE23 R0323

