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# Vesta Smart Security Solution

**ML Series**

A new generation of ML control panel series is an integrated and comprehensive system that manages safety, security and home environments together under one unit. Unlike traditional alarm systems, the ML series not only serves as an intrusion alarm system, but also assists you to manage your home in a more convenient way. With advanced alarm communication features and outstanding compatibilities- home automation, visual verification, smart energy saving function, and lighting control, new ML series brings a complete and cost-effective smart home solution for you to experience a comfortable and convenient life.

ML series includes ML(T)-1(B/TP), ML(T)-3(B/TP), and ML(T)-8(B/TP) with various reporting paths for you to select from:

ML(T)-1(B/TP) is a wireless IP control panel.

ML(T)-3(B/TP) is a wireless 3G+GPRS control panel.

ML(T)-8(B/TP) is a wireless control panel in dual path of 3G+GPRS+IP.

### Flexible Home Security Solution

ML series work with a variety of sensors up to 50 to protect your family and properties. Sensor connected ML series can be flexibly set to different attributes and further inform you of precise type of alarm. The 50-zone control panel series offers extreme convenience and flexibility of alarm reporting methods, such as CID/SIA reporting, SMS reporting, alarm image reporting or even voice reporting. Depending on the application needs, users can select the appropriate reporting method for timely alarm notification.

### Total Visual Monitoring Solution

Working with PIR video cameras, PIR cameras, and IP cameras, ML Series is able to deliver Total Visual Monitoring Solution, consisting of visual verification during an alarm and real-time visual monitoring. When an alarm is triggered, a 10-second video clip/3 alarm images captured by PIR video cameras/PIR cameras will be sent to users and the CMS. IP Camera will also record a 40-sec alarm clip covering 30-sec pre-alarm and 10 sec post-alarm periods during an alarm. Immediate visual reports allow users and the CMS to visually verify whether the alarm is real or false.

Integrated with Home Portal Server, IP cameras allow users to conduct real-time monitoring of their home and loved ones via smartphones or personal computers anywhere, anytime. PIR video cameras and PIR cameras also offer remote look-in feature that allows users to request a photo or a video clip to be sent to their smartphones. These remote monitoring capabilities allow users to always stay connected with what's most important in life.

### World-Leading 2-Km RF Range and Superb Reliability

The ML system is one of the F1 Security@2km Series' control panels delivering record-breaking 2-km communication range and superb reliability. Its extensive RF coverage allows the installer to set up the alarm system on large or complicated premises with great flexibility. The ML Series is compatible with the F1 Series of accessories that feature long RF range.



PIR video camera/PIR camera for motion detection and capturing 10-sec video clip/3 alarm images during an alarm



IP camera records pre-alarm/post-alarm video clip and provides real time video streaming for remote monitoring

## Smart Home Control: Choice of Home Portal™ Server or Vesta EZ Home App

### Home Portal™ Server

Home Portal™ Server is a platform to deliver smart home services for users to remotely control their home via a web-based browser or smart phone applications. Home Portal™ Server enables users to connect a home gateway via Vesta Home App to enjoy convenient services, including security control, alarm event notification, home control, energy management, and total visual monitoring.

### Vesta EZ Home App

Rather than connecting Home Portal™ Server to enjoy remote smart home services, users have another choice of using Vesta EZ Home App to control their home via SMS protocol. It greatly saves the installer's effort and cost on server setup and maintenance, but still satisfies users' needs for smart home control.

### Optional Tag Reading Feature and Keypad Designs

ML series offers optional choices for different needs. MLT series contains the tag reading feature to radically simplify the operation of security systems. With the convenient tag reading design you can disarm the security system by simply swiping a proximity tag or NFC tag near the panel. Two elegant designs of touch-screen and rubber keypad styles are available.



### ZigBee Enabled Home Automation and Energy Management

Home Automation allows homeowners to gain a centralized control over household appliances, lighting system, and digital door locks for enhanced security, comfort, and energy efficiency. ML series panels adopt ZigBee Home Automation 1.2 profile and are compatible with all ZigBee sensors and accessories such as Power Metering Switch, Power Switch, and Dimmer Switch...etc. from other manufacturers under this profile to perform home automation and energy monitoring functions.



Adopting ZigBee HA 1.2 profile, ML series is compatible with all ZigBee accessories produced by other manufacturers



ML series works with temperature sensor and room sensor to operate home appliances through temperature control

### Compatible with Digital Door Locks

ML series allows Yale\* locks to be incorporated into the system for enhanced convenience and security. Users can easily lock or unlock their doors with a simple touch on smartphones so there is no need to fumble through pockets or purse for keys.

\*Yale is a registered trademark of Yale Security Inc., an ASSA ABLOY Group company. Image courtesy of Yale Security Inc.



### Compatibility with Amazon Echo

The ML series are compatible with Amazon Echo and Echo Dot products allowing users to use Amazon Alexa voice control to arm and disarm their security system using a secure PIN. Users will also be able to voice-control interact with other ML series' compatible devices like thermostats, lights, and smart locks.



## ML Series Models Comparison

Model/Features	ML(T)-1(B/TP)	ML(T)-3(B/TP)	ML(T)-8(B/TP)
Report paths	IP	3G+GPRS	3G+GPRS+IP
Wireless zones	50	50	50
SMS programming	No	Yes	Yes
Web programming	Yes	No	Yes
RF device support	Yes	Yes	Yes
ZigBee Device Support	Yes	Yes	Yes
PIR video camera/PIR camera compatible	Yes	Yes	Yes
Power switch/ power metering switch compatible	Yes	Yes	Yes
Dimmer switch compatible	Yes	Yes	Yes
IP Camera compatible	Yes	No	Yes
Home automation	Yes	Yes	Yes
Two-way voice feature	No	Yes	Yes
Voice reporting	No	Yes	Yes
1 x DC 12V siren output	Yes	Yes	Yes
2 x PGM outputs	Yes	Yes	Yes
Energy management	Yes	Yes	Yes
Vesta Home App	Yes	Yes	Yes
Vesta EZ Home App	No	Yes	Yes
Power Supply	DC 12V 2A adaptor	DC 12V 2A adaptor	DC 12V 2A adaptor
Event Logs	50	50	50
Backup Battery Time	15 hrs	15 hrs	15 hrs

## ML Series Ordering Information

### ML-1B/ 3B/ 8B (Rubber Keypad Control Panel)

Model No.	Description
ML-1B	IP Based, Rubber Keypad Control Panel
ML-3B	3G + GPRS, Rubber Keypad Control Panel
ML-8B	3G + GPRS + IP, Rubber Keypad Control Panel



### ML-1TP/ 3TP/ 8TP (Touch-Screen Control Panel)

Model No.	Description
ML-1 TP	IP Based, Touch-Screen Control Panel
ML-3 TP	3G + GPRS, Touch-Screen Control Panel
ML-8 TP	3G + GPRS + IP, Touch-Screen Control Panel



### MLT-1TP/ 3TP/ 8TP (Touch-Screen Control Panel with Tag Reader)

Model No.	Description
MLT-1TP	IP Based, Touch-Screen Control Panel with Tag Reader
MLT-3TP	3G + GPRS, Touch-Screen Control Panel with Tag Reader
MLT-8 TP	3G + GPRS + IP, Touch-Screen Control Panel with Tag Reader



## Features:

- Supports up to 50 zones, including RF and ZigBee devices
- Alarm event reporting:

Alarm Reporting Type	ML(T)-1(B/TP)	ML(T)-3(B/TP)	ML(T)-8(B/TP)
DTMF CID Reporting	-	3G	3G
Modified CID/ SIA Reporting over TCP/IP or 3G	Ethernet	3G	Ethernet or 3G
SMS Alarm Reporting	-	3G	3G
Alarm Video/Image Reporting	Email/ FTP over Ethernet	MMS/ Email/ FTP over 3G/GPRS	MMS/ Email/ FTP over Ethernet or 3G/ GPRS

- World-leading 2-km communication range and superb reliability
- Compatible with the F1 Series of accessories featuring long RF range
- 30-sec recordable voice reporting messages
- Works with IP cameras, PIR cameras, PIR video cameras for visual verification and real-time monitoring (up to 6 IP cameras and 6 PIR cameras/PIR video cameras can be added)
- “Two-way voice” feature allows the call recipient to talk to you to know what is happening on your side (ML(T)-3(B/TP) / ML(T)-8(B/TP) only)
- Remote Web, App and SMS programming and firmware update features for easy programming and maintenance
- Access rights for Keypad or Web programming are defined up to 3 levels of user, installer and technician access
- Advanced Image wireless link:
  - 2-Way supervised radio network, Supervision every 30 minutes
  - AES encryption key
  - 2.4GHz DSSS (Direct-Sequence Spread Spectrum)
- ZigBee enabled home automation and energy management functions to enhance lifestyle, safety, and energy efficiency
- Compatible with Vesta Home App (Home Portal™ Server via XMPP protocol) or Vesta EZ Home App for remote control via SMS protocol
- 1 x DC 12V siren output and 2 x PGM outputs for electrical appliance connections
- Touch-screen design; optional tag reading feature
- Comply with EN50131

## Specifications:

- 3G frequency bands: 2100/1900/1800/1700/850/800/2600/900 MHz, ML(T)-3(B/TP)/ ML(T)-8(B/TP) only
- ZigBee communication protocol: ZigBee Home Automation 1.2 profile
- Power Supply: 12V 2A switching power (internal or external option)
- Back up battery: 7.2V Ni-mh rechargeable battery x 6
- Battery Back-up time: 15 hrs
- Alarm Output: 95db @ 1M
- Frequencies available: 433 MHz/868 MHz (other frequencies available upon request)
- Range: 433 MHz/868 MHz: Over 2 km in open space
- Temperature Range: -10° to +45°C
- Humidity: up to 85% non-condensing
- Dimensions: 270 x 190 x 38mm

\* Note: The actual battery life may vary with product settings, usage patterns and operating environment.



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