



Horing Lih Industrial: Safeguarding Complexes in Southeast Asia

We are getting many requests throughout Southeast Asia for fire safety systems to be used in everything from smaller residential complexes to commercial projects, especially in Vietnam, Indonesia, and Thailand," said Henry Shaw, Overseas Manager, Horing Lih Industrial.

To cater to this demand, Shaw said it is all about conventional type fire safety systems. "For residential buildings 4-to 5-stories high, a conventional fire alarm system would be the ideal installation for couple reasons. It has sufficient capacity and capability to carry out automatic detection and notification as a conventional fire alarm

control panel can be 1 up to 80 loops, and each loop is able to connect 20-30 field devices including detectors, alarm bell, or sounders. It is low-cost and easy to maintain."

The S.E. Asian countries are also hubs for manufacturing plants, outgoing centers in high-rises, and retail/hotels supporting the tourism industry; fire systems for these large

scale facilities will have to rely on addressable type panel to support it instead.

"Addressable-type fire alarm system is flexible in terms of wiring. And for scattered buildings at a site, it is necessary

to use multiple control panels. It can have a maximum of 32 loops and 8,000 addressable points. In addition, addressable-type tells users exactly which detector is activated. Through software data programming, clients can



Yun Yang Fire Safety Equipment: Adding Value to the Panel

The fire control panel is the center of all connections; it is like our brain that receives messages from all sensors, and gives orders for coherent actions to protect the property and people. Yun Yang (TYY) has taken its specialization to integrate fire control panel and alarms with PA voice evacuation systems.

Nowadays, the fire safety control system should be interactive with other systems that used to work parallel to each other like surveillance systems, escape guidance systems, and many more. So for a complicated system linking everything, it is most crucial that the interface is easy to use," said Lai-Chuan, Zhang, CEO, Yun Yang Fire Safety Equipment. "It must be easily



learned, so the signals shown on the panel can be correctly understood in times of emergency or simple feedbacks from system self-check for power supply or communication errors."

To do this, Yun Yang upgrades the hardware interface to LCD touch screens or makes the

buttons easy to operate. Also, to make the control panel more "likable", Yun yang has incorporated radio and MP3 music playing features onto the control panel.

Zhang said the music function draws people to the control panel and they would really



Lai-Chuan, Zhang, CEO, Yun Yang Fire Safety Equipment

make necessary updates like renaming devices from their end. The multiple-system will not be affected should a failure happen to one device. The problem can also be easily checked and corrected."



Henry Shaw, Overseas Manager, Horing Lih Industrial

learn to use it. With this add-on feature, the control panel can create a better working environment for the factory workers, so workers can use it to listen to music or news anytime. Similarly, whenever someone wants to tell the whole factory something, they can just pick up the microphone and make the announcement.

"These functions will not disturb the alarm system as a whole. During emergency, PA can broadcast voice evacuation messages by overriding normal background music playback," said Zhang.



Ching Gu Electronics: Fire Safety on a Cloud



Ran Huang, Lee, Boss, Ching Gu Electronics

Reflecting upon fire safety's principle of "early detection before suppression," Ching Gu Electronics wants prevention and detection to not be constrained by time, space, and scalability — so they resorted to cloud.

By putting a server on a cloud, early warning signals before a fire develops are transmitted from wired between the control panel and detectors, to wireless through VPN/network connections to cloud and for further actions such as sending SMS notifications — smart phones with APPs downloaded are auxiliary display panels.

Ran Huang, Lee, Boss, Ching Gu Electronics specified that "signals are transmitted digitally while the display shown on clients' end could include analog applications such as graphs, or digital information as numbers in case of any emergency before a fire develops."

A fire safety system is independent and cannot be interfered with by other subsystems. But through an open-standard platform on the cloud, it can be integrated under smart building management, and enhances safety with video surveillance, energy-sufficient controllers, and many more. Command signals will be linked up for simultaneous update on video verification, escape route, and alarms.

"Time is critical in fire emergencies, and delays could happen despite the presence of security guards. A cloud system can notify occupants at soonest for them to react on their own, or joint force with the guards during the golden period; damages from fire can therefore be minimized," said Lee.

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With a user-friendly interface showing intensive information, even users without professional fire safety trainings can determine the location and the nature of the alarm without confusion, and take action with best use of resource or evacuating safely.

To put a cloud system for fire safety, there are several parts/ fees involved.

1. Hardware/ Software installation
2. VPN/ network connections (usually provided by telecom)
3. Maintenance/ update
4. Fire Safety management (3rd party)



Special Feature



GKB Security: Catch Smoke & Fire with Eyes!



We know that where there's smoke, there's fire. But quite often, by the time smoke sensors detect the flames, there is not much response time left. Therefore, GKB saw the need

to incorporate video image detection (VID) technology into early detection, so smoke and small flames can be brought to attention at soonest before developing into a big fire.

"A moment's delay can lead to a disaster, but early warning can save lives," said Eric Chen, VFDS Product Manager, GKB Security.

GKB's has offered VID solution for 7 years now, and we keep on improving to better service our clients. The system is most critical for outdoor and spacious indoor/semi-indoor areas where smoke detectors are not easily installed, like power plant, cotton storage field, chemical/petroleum/oil storage sites, air hangars, nursing homes, and many more.

Chen described with a success story in Australia's air hangar. "The ceiling of the hangar is so high that it would take a longer time for smoke to be picked up by detectors mounted on the ceiling. Therefore, it became necessary to safeguard the hangar with a video server that analyzes video feeds from 8 cameras. The system is also connected to a fire control panel so when suspicious images

are determined, immediate notification can be sent to the attendants showing where, when, and how the smoke/flame happened for further action."

Pre-determined smoke and flame lines can raise detection rate and lower false alarm rate. "Careful calibrations can lower the false alarm rate per channel to be 2 times/month."

Eric Chen, VFDS
Product Manager,
GKB Security



Observations from UL:

- To import fire safety control panels to Asia, an UL certification may not be a requirement, but an UL certification is accepted in most countries such as India, Hong Kong, Indonesia, Malaysia, and more.
- Manufacturers and distributors would benefit much in product quality control and market expansion with an UL-certified product.
- End-users using UL-certified products may lower their property insurance premium because the risks and damages associated with are reduced.
- UL is keen to develop tests and standards for cloud fire safety and the devices included, as it is gaining more traction.

