# NITTAN

NITTAN COMPANY, LIMITED

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COMPANY PROFILE

# Nittan – Engineering for your safety.



# President's Greeting

### PROTECTING ESSENTIAL LIVES AND ASSETS FROM FIRE

Since founded in 1954, the Nittan Group has been working closely with the Japanese Governance of Fire and Disaster Management Agency, offering complete fire safety solutions from all directions; technical development, manufacturing, sales, installation, and maintenance.

In fast-growing modern society, the building and fire safety regulations have been continuously reviewed to prevent various fire tragedies. Providing continuous innovation and specialist expertise are vital to meet current and future standards.

As we help to shape the standards of tomorrow, Nittan will continue broadening our global perspective, striving to develop and engineer the advanced fire safety technology that will be required.

With our engineering excellence, Nittan prides ourselves in providing a dedicated and personal service to the clients, and always commit to seeking progression and improvement in our quality control management systems to provide reliable solutions and optimum customer satisfaction.

Pursuing our company policy of "protecting essential lives and assets from fire," the Nittan Group, as a global fire professional, will progress for contribution to social welfare with our valued customers.

> Hideki Itakura President



Hideki Itakura

### NITTAN'S ADVANCED TECHNOLOGY FOR THE FASTEST AND RELIABLE FIRE PROTECTION

The post-war frontier spirit of young entrepreneurs planted the history of Nittan Group. Our founder Midori Itakura fatefully dived into the fire protection industry and facilitated numerous product innovations with his passion for making a valuable contribution to society.

Here is a snapshot of Nittan's long history pursuing our company mission to protect essential lives and assets from fire by offering continuous improvements in our technology and products.

### **BEGINNING OF NITTAN**

After World War II, our founder Midori Itakura was developing a device that could save electricity by detecting the heat from sunlight. During this development, Itakura encountered his old friend Takeo Nakamura who told him about his worry towards the considerable damage caused by frequent fire disasters. To save Nakamura's worry, Itakura shifted his project direction and developed "Mercury Spot-type Heat Detector" which was approved by the Japanese Fire and Disaster Management Agency (FDMA) of the Ministry of Internal Affairs and Communications.

The history of Nittan has begun from this product.

### **RED MOTORCYCLE CAMPAIGN**

In 1965, Nittan launched Red Motorcycle Campaign, donated red motorcycles with fire extinguishers to all local fire stations in Japan to raise public awareness in fire safety. Midori Itakura run this campaign inspired by a police vehicle equipped with portable fire extinguishers that managed to put out a fire caused by a traffic accident. Following the Great Hanshin earthquake which triggered a massive blaze in 1995, the value of this campaign was reacknowledged.

Although its style has shifted from red motorcycles to off-loading vehicles, the campaign is still fulfilling a vital role in fire safety of current Japanese society.

### FIRST DOMESTIC IONIZATION SMOKE DETECTOR

Nittan became a pioneer, developed the first Ionization Smoke Detector in Japan when the design of primary domestic detectors was spotting fire by heat. Besides, compared to overseas products required a higher voltage of 200V, the Nittan ionization detector achieved a low voltage of 15V. The product was launched in 1965, and two years later, it became common in Japanese residential properties as "Ion Bell."

### **CHALLENGE TO THE WORLD'S GREATEST**

To prove the reliability of the quality and performance of our products, Nittan set up a project to install our detectors at the world's highest and lowest sites. The highest spot was at "Hotel Everest View" owned by a Japanese firm, located at 3,880m above sea level. The lowest place was at the gold mine in South Africa. Installation engineers travelled down to the tunnel 3,000m below sea level and fixed Nittan detectors with platinum cover for geothermal, humidity and gas proof. At both locations, Nittan detector could perform, proved its undeniable quality and excellent performance under extreme conditions.









### Nittan Technology Foot-Steps



2018



The fire protection system installed at JR Saitama-shin-toshin/ NTT Docomo Saitama building won the Fire Defense Agency Commissioner's Award.

### NITTAN ENGINEERING EXCELLENCE

Nittan employs a large team of experienced specialist engineers and professionals, capable of providing solutions to meet customers exact requirements, ensuring that the finished system offers an excellent standard of protection.

To meet the requirement, Nittan representatives and engineers sit on every standards body and are instrumental in helping to create and share more rigorous quality control management ever. We also work closely with the accreditation body around the world, providing us with an enviable global perspective.

Advances in one region can, therefore, be viewed, appreciated and shared to the benefit of everyone.

With this shared expertise, we are bringing the very highest standards of build quality, engineering excellence, high performance, and unrivaled reliability into all areas of fire safety.

When you specify a Nittan system, you will directly benefit from our commitment to standards far above the industry norm.



### **GLOBAL NETWORKS & TRAINING CENTRE**

Nittan Electronic Co., Ltd.



Ohtone Plant (JAPAN)



Itami Plant (JAPAN)



Water discharge simulation at Itami Plant





CN Scandinavia AB (Sweden)



#### Nittan ASEAN CO., Ltd. (Vietnam)



### Yokohama Training Centre (JAPAN)

#### **Dedicated Training Centre for Continuous Technical** Improvement

A full understanding of complete Nittan systems is essential to ensure that the system can operate fully to provide the maximum fire protection and solution.

Nittan Yokohama Training Centre has been established to fulfil our commitment to offer proactive learning activities to develop and enhance our internal and clients' abilities.

The centre also hosts training courses for the Institution of Occupational Safety and Health (IOSH), inviting business partners to maintain progression and improvements of quality management of the fire industry.

# タン株式会社



#### Quality Management Systems Standard Environmental Systems Standard ISO 9001:2015 Certification



Certificate no. JQA-QMA15814

# ISO 14001:2015 Certification



Subject: Head office Certificate no: JQA-EM3766

# NITTAN WORLDWIDE

The Nittan Group has been at the very forefront of the international fire protection industry, having sales, R&D and manufacturing bases in Japan, Sweden, Vietnam and the UK. Throughout the world, Nittan supplies reliable products in exceptional quality that meet the UL and EN standards, respectively, for use in government, medical and educational facilities, high-rise buildings, hotels, aircraft, and vessels.





### Major Projects



Piazza del Duomo (Italy)



Vung Tau International Exhibition & Conference Center Pullman Five Stars Hotel, Office building (Vietnam)



Ministry of Public Security Head Office (Vietnam)



Six Senses Tower 4, 5 & 6 (Philippines)



Taipei 101 (Taiwan)



Student Accommodation in University of East Anglia (U.K.)



Police Department (Vietnam)



American International School (Vietnam)



Bangladesh Honda (Bangladesh)



P.T. Yamaha Motor (Indonesia)



Bella Hotel (Denmark)



King Phumiphol Roya Hospital (Thailand)

Business & Products Fire Alarm System



Fire Alarm System is the most fundamental system for fire protection. From public to private, Nittan Fire Alarm Systems have been offering reliable fire-safety management for various properties.



Nittan installed our Fire Alarm Systems at Tokyo Station in 1946 when the first high speed Shinkansen line was operated between Tokyo and Shin-Osaka.

Since then, we have been monitoring the life-safety at the busiest gate for Japanese transportation.

Our systems were upgraded in 2014 along with the building's renovation marking it's 100th anniversary and continue serving for visitors' safeties.

Japan Railway Tokyo Station



## OPTIMAL AND EFFECTIVE FIRE EXTINGUISHING SOLUTIONS

Optimal and effective fire extinguishing solutions.

Fire extinguishing systems minimize the scale of damage from the blaze.

Nittan offers total solutions to suit site-specific environments with a wide range of fire extinguishing products including conventional sprinkler, form and gaseous extinguishers.



Nittan received the Japanese Fire and Disaster Management Agency (FDMA) Award for our fire extinguishing systems with the mist cannon installed at the large scale multi-purpose arena "Namihaya Dome." (Kadoma City, Osaka).

Namihaya Dome, Osaka





Because of its effectiveness in extinguishing fires, sprinkler systems are gaining its importance increasingly. However, it also has a disadvantage of water damage if activated as fault, which could cause severe damage than the fire.

Nittan VS sprinklers go one step further offering functions to prevent false activation and water leakage, ensuring an accurate extinguishing performance.



# RELIABLE FIRE PROTECTION IN HISTORIC AND ENVIRONMENT SPECIFIC SITES

Historical structures and facilities in the extreme environment pose a particularly complex challenge for the system charged with protecting them from the fire. These buildings tend to be varied in their design and construction; therefore they have difficulty in detecting fire, and risks that the fire will expand rapidly causing significant damage.

Nittan has been challenging to develop reliable and practical solutions that take an essential role to manage fire protection at cultural assets and site-specific properties.



Kasuga Shrine, Nara, Japan (World Heritage Site)

Piazza del Duomo, Pisa, Italy



Queen Mary II

Unlike almost anyone else in the industry, Nittan has considerable specialist expertise in designing and supplying fire safety systems for some of the most demanding markets on earth.

We have specialist divisions dedicated solely to engineering for oil refineries and marine applications for example.

Both industries set safety standards well in excess of those demanded in most other fields.

# Lineup for special solutions

Nittan offers special fire protection equipment to suit various environment specific facilities such as factories, laboratories, clean rooms, large scale computer rooms, vessels and aircraft lavatories.

#### Greatly Reducing False Alarms



Ultraviolet and infrared three-wavelength flame detector

#### Smallandlightweight



Photoelectric smoke detector for built-in use

A small, lightweight smoke detector that can be installed in production machinery of factories. The detector can adjust the alarm sensitivity to compensate for the presence of dust and other particulates.



Smoke detector for aircraft



Dust and waterproof three-wavelength infrared flame detector (with self-diagnosis function)

超高感度環境監視盤

High sensitivity smoke monitoring panel

#### Wide angle, compact and light



Explosion-proof two-wavelength infrared flame detector (with self-diagnosis function)

#### High sensitivity smoke monitoring system

This system achieved the sensitivity up to 2000 times higher than standard detector.



High sensitivity smoke detector

Installation Examples



Heihaiden, Harumiya, Shimosha, Suwa Shrine



Aircraft



Niigata Airport

### Network Domestic and Overseas Networks

# NITTAN GROUP GLOBAL NETWORKS

### Sales Organizations and Sales Offices





Norway

Paraguay

Philippines

Saudi Arabia

Palau

Peru

Russia

Saipan

Taiwan

Tunisia

Turkey

Thailand

Uzbekistan

Vietnam

United KingdomUnited States

### Nittan Group (Domestic)

Cambodia

Colombia

Denmark

Chile

China

Egypt

• Greece

Guam

Italy

Jordan

Kenya

Kuwait

Malaysia

Maldives

Mexico

Laos

- Shell Beach Co., Ltd.
- Sogo Denki Shokai Co., Ltd.
- ◆Hokkaido Nittan Service Center Co., Ltd.
- Tohoku Nittan Service Center Co., Ltd.
- Nagoya Nittan Service Center Co., Ltd.
- Ohtone Plant, Nittan Electronic Co., Ltd.
- Itami Plant, Nittan Electronic Co., Ltd.
- Nittan Electronic Co., Ltd.
- Consilium Nittan Marine Ltd.

#### Nittan Group (Overseas)

- ◆ NITTAN EUROPE LIMITED (U.K.)
- CN Scandinavia AB (Sweden)
- NITTAN ASEAN CO., LTD (Vietnam)

### NITTAN COMPANY, LIMITED

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