Creating a New History

Hitachi Group is active in a wide range of business sectors. From the technology and experience built up over many years, come the synergies that feed new innovation.

Hitachi has been developing and manufacturing elevators and escalators since 1924. As social demands on elevators change over time, Hitachi’s machine room-less elevator model UAG series SN1, developed in Japan, meets the needs of customers in terms of efficiency, safety, comfort, and space savings. Hitachi is creating a new history for elevators, and for your building.

History of Hitachi elevators

- **1932**: First elevator is delivered: freight elevator for Tokyo Electric Co.
- **1968**: 300m/min. elevator is delivered to Japan’s first skyscraper: Kasumigaseki Building.
- **2003**: 300m/min. double-deck elevator is delivered: Roppongi Hills Mori Tower, Tokyo.
- **2007**: 480m/min. 2,850 kg high-rise shuttle elevator is delivered: Tokyo Midtown, Midtown Tower.
- **2008**: World’s largest ultra-high-speed double-deck elevator is delivered: Shanghai World Financial Center.
- **2011**: 600m/min. ultra-high-speed elevator for the Middle East: Al Hamra Mixed-Use Complex, Kuwait.
- **2012**: High-speed, large-capacity elevator providing access to Japan’s highest (450m) observation platform: Tokyo Sky Tree.
- **2016**: Delivery of the world’s fastest ultra-high-speed elevators, with a speed of 1,200 m/min. (20 m/s), to the Guangzhou CTF Finance Centre (530m tall) in Guangzhou, China.

Simplified specification selection process

Create the elevator that best meets your needs by selecting specifications and design options from this catalogue.
Four classifications of value we provide for your building

**Energy efficiency**

*Reduced energy consumption with standard specifications*

Power consumption can be reduced to approximately 1/6.

- **LED lighting**
  - Compared to fluorescent lighting, LED lighting reduces energy consumption by approximately 1/4, and increases service life three times.
  - **Automatic turn-off of car lighting and fan**
    - When the elevator is idle, the lighting and ventilation fan in the elevator are automatically turned off to conserve energy. Energy consumption is reduced by adopting LED lighting for the ceiling and shortening the time until the lighting turns off.

- **Regenerative system**
  - The traction mechanism acts as a power generator to transmit power back to the electrical network in the building, reducing energy consumption by approximately 30%.

*Option*

- **Ion generator**
  - Works to improve air quality.

- **Automatic turn-off of car lighting and fan**
  - When the elevator is idle, the lighting and ventilation fan in the elevator are automatically turned off to conserve energy. Energy consumption is reduced by adopting LED lighting for the ceiling and shortening the time until the lighting turns off.

*Option*

- **Automatic turn-off of car lighting and fan**
  - When the elevator is idle, the lighting and ventilation fan in the elevator are automatically turned off to conserve energy. Energy consumption is reduced by adopting LED lighting for the ceiling and shortening the time until the lighting turns off.

*Option*

- **Micro-leveling**
  - Automatically corrects the elevator landing level when there is a level difference between car and floor.

*Option*

- **Automatic rescue device for power failure**
  - When a power failure is detected, the drive power supply switches over to battery power, and the elevator automatically moves to the nearest floor and releases the passengers.

**Comfort**

*Improved riding comfort*

The latest operation control provides quiet and smooth ride.

*Option*

- **Door signal with multi-beam door sensor**
  - Door signal that tells when the door is going to close for enhanced safety.

**Safety & Emergency**

*Door signal with multi-beam door sensor*

- Door signal that tells when the door is going to close for enhanced safety.

*Option*

- **Micro-leveling**
  - Automatically corrects the elevator landing level when there is a level difference between car and floor.

**Design**

*LCD indicators*

- In-car indicator and hall indicator with color LCD are available. They provide a quick overview of the operating status.

*Option*

- **Car and hall design**
  - Select the most suitable design from the options available, including ceiling and 3 side wall designs created by Hitachi’s designers to match a variety of building types.
**Energy efficiency**

**LED lighting**

LED lighting is adopted for all ceiling designs. Compared to fluorescent lighting, energy consumption is reduced and service life is prolonged.

- **BS-11**
  - **Standard**
  - Power consumption: approx. 1/4 that of fluorescent lighting
  - Power consumption: 69 W (BS-11) vs. 17 W (LED)
  - Service life: Approx. 12,000 hours (BS-11) vs. Approx. 40,000 hours (LED)

- **SL-11**
  - **Option**
  - Power consumption: approx. 1/6 that of fluorescent lighting
  - Power consumption: 207 W (BS-11) vs. 33 W (LED)
  - Service life: Approx. 12,000 hours (BS-11) vs. Approx. 40,000 hours (LED)

By changing the time until the lighting turns off during standby from three to one minute, power consumption can be reduced to approx. 1/6.

**Automatic turn-off of car lighting and fan**

When the elevator is idle, the lighting and ventilation fan in the elevator are automatically turned off to conserve energy. Energy consumption is reduced by adopting LED lighting for the ceiling and shortening the time until the lighting turns off.

**Regenerative system**

Making use of energy generated by the elevator

Making use of the energy generated by the elevator when traveling downwards with a heavy car load or upwards with a light car load, the traction mechanism acts as a power generator to transmit power back to the electrical network in the building.

**Flow of regenerated power**

1. **Electricity from power company**
2. **Regenerated power**

**With regenerative system**

Energy savings: Approx. 30%

*1 Effectiveness during normal operation. Effectiveness differs depending on usage conditions.
*2 These ceilings are not compliant with the EN81-20/50 regulation, but they can be used if the customer agrees.
*3 Comparison with 10-passenger model with fluorescent ceiling lighting. Results may differ depending on ceiling configuration and dimensions.
*4 Rated service life of fixture including lighting power supply. Actual service life may vary depending on usage conditions.
*5 Varies depending on usage conditions.
Comfort

Ion generator

Ion generator improves air quality
An ion generator manufactured in Japan is mounted on top of the car. Nano-sized electrostatic atomized water particles work to improve air quality.

Ion generator

Door signal with multi-beam door sensor

The door signal flashes to notify passengers when the door is starting to close
The multi-beam door sensor is backed by a door signal that notifies passengers when the door is going to close. The LED on the edge of the door starts to blink about one second before the door starts to close. If the door close button in the elevator car is pressed, the LED starts blinking at the same time as the door starts to close.

Standard

Micro-leveling

Automatic correction of elevator landing level when there is a level difference between car and floor.
This improves safety when getting on and off the elevator.

Standard

Automatic rescue device for power failure

In a power failure, the elevator switches to battery operation, and moves to the nearest floor
When a power failure is detected, the drive power supply switches over to battery power, and the elevator automatically moves to the nearest floor and releases the passengers for safety. This lessens the worry of being shut in the elevator by a power outage in a building with no private generator equipment.
**Ceiling designs** (Silkscreen print)

By applying silk screening to the ceilings of SL-11 and DX-101, Hitachi ceiling designs coordinate your elevator with the building decor.

**SL-11**

- SL-11-Oriental mosaic
- SL-11-Cube
- SL-11-Kaleidoscope

**DX-101**

- DX-101-Lattice
- DX-101-Geometric star
- DX-101-Arabesque

---

**Button designs**

A wide range of buttons harmonizes with various building designs.

**High-contrast plastic buttons**

High-contrast and raised characters make numbers more legible. Button surfaces are rounded to make it easier to wipe them clean.

**Stainless steel buttons**

Various stainless steel buttons are available.

**Interphone button**

Designed for easy use in an emergency.

---

**In-car LCD indicator**

The LCD indicator makes it easy to find necessary information.

An in-car indicator with an 8.4-inch color LCD is available. The LCD with wide angle improves visibility. It displays indications of the operating status, such as earthquake emergency operation, to the user.

**Hall LCD indicator**

The hall LCD indicator displays abundant information in the hall.

A hall indicator with a 6.2-inch color LCD is available. Like the in-car LCD indicator, it displays indications of the operating status.

---

**Design**

Ceiling designs (Silkscreen print)

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The hall LCD indicator displays abundant information in the hall.

A hall indicator with a 6.2-inch color LCD is available. Like the in-car LCD indicator, it displays indications of the operating status.

---

**Display indications regarding operation during earthquakes, etc., require that the corresponding functions be installed.

---

**UAG-SN1**
Recommended designs

Car designs

Choose from a wide range of design options to create an elevator look that matches your building.

Recommended designs

Samples of designs created by a designer.

<table>
<thead>
<tr>
<th>Stylish design</th>
<th>Chic design</th>
<th>Simple design</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Office</td>
<td>• Reception</td>
<td>• Transport facility</td>
</tr>
<tr>
<td>• Commercial building</td>
<td>• Hotel</td>
<td>• Hospital</td>
</tr>
</tbody>
</table>

Ceiling:
- SL-series (SL-11-Oriental mosaic)
- DX-series (DX-101-Geometric star)
- Standard (BS-11)

3 side walls:
- Decorated steel (Craft wood)
- Laminated plastic sheet (Sandy saliva)
- Decorated steel (Minamo white)

Car door:
- Decorated steel (Craft wood)
- Decorated steel (Sandy saliva)
- Stainless steel hairline

Floor:
- Vinyl tile (SA614)

Front return panel:
- Stainless steel mirror

Car operating panel:
- Stainless steel Non-directional hairline

Indicator:
- LCD (8.4 inches)

*1 These ceilings and LPS are not compliant with the EN81-20/50 regulations, but they can be used if the customer agrees.

Note: Illustrations show simulated views of elevator interiors. Actual illumination brightness and colors may differ.
**Recommended designs**

---

**Stylish design (for commercial building)**

<table>
<thead>
<tr>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ceiling</strong></td>
</tr>
<tr>
<td>DX-series (DX-101)</td>
</tr>
<tr>
<td>3 side walls</td>
</tr>
<tr>
<td>Decorated steel (Minamo white)</td>
</tr>
<tr>
<td>Car door</td>
</tr>
<tr>
<td>Decorated steel (Minamo white)</td>
</tr>
<tr>
<td>Front return panel/Transom</td>
</tr>
<tr>
<td><strong>Floor</strong></td>
</tr>
<tr>
<td>Vinyl tile (GA204)</td>
</tr>
<tr>
<td><strong>Indicator</strong></td>
</tr>
<tr>
<td>LCD (8.4 inches)</td>
</tr>
<tr>
<td><strong>Car operating panel</strong></td>
</tr>
<tr>
<td>Stainless steel Non-directional hairline</td>
</tr>
</tbody>
</table>

*These ceilings and tiles are not compliant with the EN81-20/50 regulations, but they can be used if the customer agrees.

---

**Chic design (for hotel)**

<table>
<thead>
<tr>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ceiling</strong></td>
</tr>
<tr>
<td>DX-series (DX-11)</td>
</tr>
<tr>
<td>3 side walls</td>
</tr>
<tr>
<td>Laminated plastic sheet (Sandy sakura)</td>
</tr>
<tr>
<td>Car door</td>
</tr>
<tr>
<td>Stainless steel hairline</td>
</tr>
<tr>
<td>Front return panel/Transom</td>
</tr>
<tr>
<td><strong>Floor</strong></td>
</tr>
<tr>
<td>Vinyl tile (GA202)</td>
</tr>
<tr>
<td><strong>Indicator</strong></td>
</tr>
<tr>
<td>LCD (8.4 inches)</td>
</tr>
<tr>
<td><strong>Car operating panel</strong></td>
</tr>
<tr>
<td>Stainless steel hairline</td>
</tr>
</tbody>
</table>

*These tiles and lift interiors are not compliant with the EN81-20/50 regulations, but they can be used if the customer agrees. Note: Illustrations show simulated views of elevator interiors. Actual illumination brightness and colors may differ.

---

**Chic design (for residential building)**

<table>
<thead>
<tr>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ceiling</strong></td>
</tr>
<tr>
<td>SL-series (SL-12)</td>
</tr>
<tr>
<td>3 side walls</td>
</tr>
<tr>
<td>Decorated steel (Mocha wood)</td>
</tr>
<tr>
<td>Car door</td>
</tr>
<tr>
<td>Decorated steel (Mocha wood)</td>
</tr>
<tr>
<td>Front return panel/Transom</td>
</tr>
<tr>
<td><strong>Floor</strong></td>
</tr>
<tr>
<td>Vinyl tile (SA613)</td>
</tr>
<tr>
<td><strong>Indicator</strong></td>
</tr>
<tr>
<td>LCD (8.4 inches)</td>
</tr>
<tr>
<td><strong>Car operating panel</strong></td>
</tr>
<tr>
<td>Stainless steel Non-directional hairline</td>
</tr>
</tbody>
</table>

*These ceilings and tiles are not compliant with the EN81-20/50 regulations, but they can be used if the customer agrees.
Note: Illustrations show simulated views of elevator interiors. Actual illumination brightness and colors may differ.

* These ceilings are not compliant with the EN81-20/50 regulation, but they can be used if the customer agrees.

### Simple design (for Transport facility)

<table>
<thead>
<tr>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ceiling: Standard (BS-11)</td>
</tr>
<tr>
<td>3 side walls: Stainless steel hairline</td>
</tr>
<tr>
<td>Car door: Stainless steel hairline</td>
</tr>
<tr>
<td>Front return panel: Stainless steel hairline</td>
</tr>
<tr>
<td>Floor: Vinyl tile (SA610)</td>
</tr>
<tr>
<td>Indicator: Dot matrix</td>
</tr>
<tr>
<td>Car operating panel: Stainless steel hairline</td>
</tr>
</tbody>
</table>

### Simple design (for hospital)

<table>
<thead>
<tr>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ceiling: Standard (BS-11)</td>
</tr>
<tr>
<td>3 side walls: Decorated steel (Minamo white)</td>
</tr>
<tr>
<td>Car door: Stainless steel hairline</td>
</tr>
<tr>
<td>Front return panel: Stainless steel hairline</td>
</tr>
<tr>
<td>Floor: Vinyl tile (SA613)</td>
</tr>
<tr>
<td>Indicator: Dot matrix</td>
</tr>
<tr>
<td>Car operating panel: Stainless steel hairline</td>
</tr>
</tbody>
</table>

### Hall designs

- **Jamb:** Stainless steel hairline
- **Hall door:** Stainless steel hairline
- **Indicator:** Dot matrix

### AS-1X (2PCO)

- **Jamb:** Stainless steel hairline
- **Hall door:** Stainless steel hairline
- **Indicator:** Dot matrix

### SS-1X (2PCO)

- **Jamb:** Stainless steel hairline
- **Hall door:** Stainless steel hairline
- **Indicator:** Dot matrix

### TS-1X (2PCO)

- **Jamb:** Stainless steel hairline
- **Hall door:** Stainless steel hairline etching (SD-103B)
- **Indicator:** LCD

Note: Illustrations show simulated views of elevator interiors. Actual illumination brightness and colors may differ.
Ceilings and Handrails

Ceilings

Standard
- BS-11
  - Center: Milky white acrylic
  - Surrounding: Decorated steel (White)
- SL-11
  - Entire surface: Milky white acrylic
  - Surrounding: Extruded aluminum

Select
- SL-11
  - Entire surface: Milky white acrylic
  - Surrounding: Extruded aluminum
- SL-12
  - Entire surface: Painted steel (White)
  - Illumination slits: Painted steel (Black)
  - Surrounding: Extruded aluminum

Deluxe
- DX-101
  - Center: Painted steel (White)
  - Both side: Milky white acrylic
  - Surrounding: Extruded aluminum
- DX-11
  - Center: Painted steel (White) / Indirect lighting
  - Both side: Painted steel (White) / Down light
  - Surrounding: Extruded aluminum

Variation of DX-101
- Silkscreen print

Handrails

- Round pipe type (stainless steel hairline) Diameter: 32mm
- Flat type (Aluminum) Width: 50mm

SL-11-Oriental mosaic
SL-11-Cube
SL-11-Kaleidoscope

*1 These ceilings are not compliant with the EN81-20/50 regulation, but they can be used if the customer agrees.
*2 For some car sizes, there are two Milky white acrylic options.
*3 SL-12 not available on bed type.

Note: Depending on applicable regulations, an emergency exit in the ceiling may be required.

Note: Illustrations show simulated views of handrail designs. Actual illumination brightness and colors may differ.

Note: It is also possible to use ceiling materials supplied by the customer.
Operating panels and indicators

Car operating panels

Stainless steel cover plate

Indicator type (dot-matrix)

Indicator type (LCD)

Car position indicators (LCD)

Option

In addition to the standard white, you can select black or blue as the background color.

Horizontal operating panels

Stainless steel cover plate

Option

Car button types

Plastic Standard

Stainless steel hairline

Option

Incorporated type (dot-matrix)

Incorporated type (LCD)

Horizontal indicators

Stainless steel cover plate

Dot-matrix

Option

Horizontal indicators

Option

Separate type

Separate type (for wheelchair use)

Hall button types

Plastic Standard

Stainless steel hairline

Option

Square lanterns

Round lanterns

Triangle lanterns (horizontal type)

Triangle lanterns with dot-matrix indicator

Option

Illumination colors

Option

*1 Depending on size of car, may be mounted on side wall.
*2 Illustrations colors are only applicable for stainless steel hairline buttons.
*3 Hall button types are only applicable for stainless steel hairline buttons.
*4 Car position indicators (LCD) option

* LCD back light can be changed to black or blue.
* Stainless steel non-directional hairline cover is available (Option). Lantern lens color can be changed to white.
* Illustrations colors are only applicable for stainless steel hairline buttons.
Materials

Floor

- Vinyl tile\(^*1\)
  - SA 605
  - SA 606
  - SA 613
  - SA 614

- GA 201
- GA 202
- GA 204
- GA 205

*1 These tiles are not compliant with the EN81-20/50 regulation, but they can be used if the customer agrees.

Note: It is also possible to use floor materials supplied by the customer.

Hall

- Stainless steel
  - Hairline\(^*1\)
  - Non-directional hairline
  - Mirror

- Stainless steel hairline etching
  - SD-1006
  - SD-1010
  - SD-1038
  - SD-1046

- Decorated steel
  - Minamo white
  - Craft wood
  - Mocha wood

- Laminated plastic sheet (LPS)\(^*2\)
  - SD-1006
  - SD-1010
  - SD-1038
  - SD-1046

*1 SUS304(Standard), SUS304(Option)

*2 LPS is not compliant with the EN81-20/50 regulation, but it can be used if the customer agrees.

Note: The colors printed in the catalog may differ slightly from the actual colors.
### Car design variations

<table>
<thead>
<tr>
<th>No.</th>
<th>Item</th>
<th>Finishes/Types</th>
<th>Standard</th>
<th>Option</th>
<th>Not applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Ceiling***</td>
<td>Stainless steel mirror</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Glass door/3 side walls</td>
<td>Stainless steel hairline</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Horizontal indicator cover plate</td>
<td>Stainless steel non-directional hairline</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Car operating panel</td>
<td>Stainless steel hairline</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Horizontal for wheelchair use</td>
<td>Stainless steel non-directional hairline</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Door</td>
<td>Stainless steel mirror</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Flat type (Stainless steel hairline) Width: 50mm</td>
<td>Stainless steel non-directional hairline</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Floor</td>
<td>Stainless steel</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Kick plate</td>
<td>Stainless steel hairline</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Sill</td>
<td>Stainless steel</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Stainless steel</td>
<td>Stainless steel hairline</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Handrail</td>
<td>Stainless steel hairline and coat wood</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Stainless steel non-directional hairline</td>
<td>Stainless steel mirror</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Stainless steel hairline etching (SD-1006)(SD-1010)(SD-1038)(SD-1046)</td>
<td>Stainless steel</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Laminated plastic sheet</td>
<td>Stainless steel non-directional hairline</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Decorated steel</td>
<td>Stainless steel mirror</td>
<td>✓</td>
<td></td>
<td></td>
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<tr>
<td>17</td>
<td>Corridor</td>
<td>Laminated plastic sheets</td>
<td>✓</td>
<td></td>
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</tr>
<tr>
<td>18</td>
<td>Staircase</td>
<td>Stainless steel mirror</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Button type</td>
<td>Stainless steel hairline</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Hall design variations

<table>
<thead>
<tr>
<th>No.</th>
<th>Item</th>
<th>Finishes/Types</th>
<th>Standard</th>
<th>Option</th>
<th>Not applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Hall door</td>
<td>Stainless steel</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Hall button cover plate</td>
<td>Stainless steel</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Hall button cover plate for wheelchair use</td>
<td>Stainless steel mirror</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Horizontal/indicator cover plate</td>
<td>Stainless steel hairline</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Button type</td>
<td>Stainless steel</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Stainless steel</td>
<td>Stainless steel hairline</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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*Design variations are available for Thailand, Myanmar, Cambodia, Laos, the Philippines, Vietnam, Brunei, Indonesia, and South Korea.

**Options for items 1-4 and 8-16:**

- Stainless steel mirror
- Stainless steel non-directional hairline
- Stainless steel hairline etching (SD-1006)(SD-1010)(SD-1038)(SD-1046)
- Stainless steel

***Options for items 1-4 and 8-16:**

- Stainless steel hairline
- Stainless steel non-directional hairline
- Stainless steel mirror
- Stainless steel

---

1. Laminated plastic sheets contain trim.
2. A laminated plastic sheet cannot be used in the landing area above the rated doors that are selected.
3. All laminated plastic sheets cannot be used in the landing area above the rated doors that are selected.
4. UPS is not compliant with the EN81-20/50 regulation, but it can be used if the customer agrees.
5. Not available when the rated doors are specified.
6. The available button illumination colors are yellow, red, and white.
### Functions

**UAG-SN1**

#### Safety functions

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Simplex collective control</td>
<td>This is a fully automatic operation used for a single elevator.</td>
</tr>
<tr>
<td>2</td>
<td>Duplex collective control</td>
<td>This is a fully automatic operation used for a two-elevator system.</td>
</tr>
<tr>
<td>3</td>
<td>Group control</td>
<td>FI-10: This is a simplified group control system used to operate three or four elevators.</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>FI-100: This is a group control system used to operate three to six elevators in a medium-sized building.</td>
</tr>
</tbody>
</table>

#### Service functions

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Automatic return function</td>
<td>After all the calls have been served, the elevator will return to the stand by floor for stand by.</td>
</tr>
<tr>
<td>2</td>
<td>Attendant operation</td>
<td>For this system, the stop floor is manually set by an attendant, such as in a department store.</td>
</tr>
<tr>
<td>3</td>
<td>Independent operation</td>
<td>This operation system is used when there is a need to serve special passengers.</td>
</tr>
<tr>
<td>4</td>
<td>Parking operation</td>
<td>The elevator can be parked at the designated floor with a key switch.</td>
</tr>
<tr>
<td>5</td>
<td>Rush-hour schedule operation</td>
<td>All the elevators will automatically return to the stand by floor after serving the last call during present rush-hour timing.</td>
</tr>
<tr>
<td>6</td>
<td>Separated simplex operation</td>
<td>When group collective control or group control is used, a selector switch on the control panel is used to switch between parallel operation and independent operation.</td>
</tr>
<tr>
<td>7</td>
<td>Interphone system</td>
<td>An interphone system is provided for emergency communication between the elevator and the master unit (in the supervisory panel, etc.).</td>
</tr>
<tr>
<td>8</td>
<td>Floor lock-out operation</td>
<td>Specific service floors can be locked-out by activating a switch.</td>
</tr>
<tr>
<td>9</td>
<td>Temporary call registration</td>
<td>By pressing a pre-programmed code using the car operating board floor buttons, passengers can gain access to certain restricted floors.</td>
</tr>
<tr>
<td>10</td>
<td>Door nudging operation</td>
<td>When the door has been open for a certain period of time, a buzzer sounds and the door forcibly closes.</td>
</tr>
</tbody>
</table>

#### Accessibility

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Car floor button flashing</td>
<td>The registered car destination floor button flashes when the car approaches the destination floor.</td>
</tr>
<tr>
<td>2</td>
<td>Braille plate</td>
<td>Braille plates are mounted next to the operation buttons in the car and hall.</td>
</tr>
<tr>
<td>3</td>
<td>Sound button</td>
<td>An electronic tone sounds when the buttons are pressed to confirm call registration.</td>
</tr>
</tbody>
</table>

#### Information functions

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>IC auto announcement</td>
<td>Present standard messages are announced to the passengers.</td>
</tr>
<tr>
<td>2</td>
<td>Public address speaker</td>
<td>A speaker for background music and public announcements for the building can be installed in the elevator. (Music and announcement systems, including wiring, is to be provided by others.)</td>
</tr>
<tr>
<td>3</td>
<td>Arrival audio signal</td>
<td>An electronic chime (located at the top and bottom of the elevator) will sound just before the arrival of the elevator.</td>
</tr>
</tbody>
</table>

#### Energy-saving functions

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Regenerative system</td>
<td>When traveling downwards with a heavy car load or upwards with a light car load, the traction machine acts as a power generator to transmit power back to the electrical network in the building.</td>
</tr>
<tr>
<td>2</td>
<td>Automatic turn-off of elevator</td>
<td>In the event that the elevator is not in use, the light and ventilation fan in the elevator are automatically turned off to conserve energy.</td>
</tr>
</tbody>
</table>

#### User services

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Door open time adjustment</td>
<td>The duration of the door open timing is tailored to usage conditions, substantially improving operational efficiency.</td>
</tr>
<tr>
<td>2</td>
<td>Door open prolong button</td>
<td>In the event that this button on the car operation board is pressed, the elevator doors remain open for a pre-set period of time.</td>
</tr>
<tr>
<td>3</td>
<td>Automatic bypass operation</td>
<td>In the event that the elevator is fully loaded, this operation will not respond to any hall calls and will only respond to the car calls.</td>
</tr>
<tr>
<td>4</td>
<td>Mischievous call cancellation</td>
<td>In the event that a large number of calls is registered by a small number of passengers, the calls are determined to be mischievous and will be automatically cancelled upon responding to the next call. This eliminates unnecessary stops.</td>
</tr>
<tr>
<td>5</td>
<td>Floor <em>doorlock</em> function</td>
<td>This function allows passengers to cancel the selection of a floor which is accidentally pressed by pressing the button again. (This eliminates unnecessary stops.)</td>
</tr>
<tr>
<td>6</td>
<td>Supervisory panel</td>
<td>This panel provides various supervisory operations, including communication and status monitoring.</td>
</tr>
<tr>
<td>7</td>
<td>Elevator monitoring system</td>
<td>This system shows the real time situation of the elevators such as the elevator position, movement direction and abnormal operation on the PC (Personal Computer) display. It is also possible to turn on/off the elevators and change the service floors of the elevators using the PC.</td>
</tr>
<tr>
<td>8</td>
<td>Ion generator</td>
<td>A device that generates ionized microparticles enclosed in water is mounted on top of the car to ensure pleasant air quality inside the elevator.</td>
</tr>
</tbody>
</table>

---

*1) Bed type: Available for Thailand, Myanmar, Cambodia, Laos, the Philippines, Vietnam, Malaysia, Indonesia and Saudi Arabia.*

*2) Included in the standard configuration when duplex collective control or group control are selected.*

*3) Included in the standard specifications for Thailand, Laos, Myanmar, Cambodia.*
## Functions

### Emergency operations

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Description</th>
<th>Passenger Service Bed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Earthquake emergency operation</td>
<td>In the event that an earthquake is detected, the elevator will stop at the nearest floor.</td>
<td>◎ ◎</td>
</tr>
<tr>
<td>2</td>
<td>Fire emergency operation</td>
<td>In the event of fire, the elevator is automatically brought to the designated floor where it remains inoperative for passengers' safety.</td>
<td>◎ ◎</td>
</tr>
<tr>
<td>3</td>
<td>Automatic rescue device for power failure</td>
<td>In the event of power failure, the system automatically switches to battery power to bring the elevator to the nearest floor.</td>
<td>◎ ◎</td>
</tr>
<tr>
<td>4</td>
<td>Emergency operation for power failure</td>
<td>In the event of building power failure, the elevator can be operated by the building standby generator to move the elevator to the designated floor (Automatic / Automatic and manual).</td>
<td>◎ ◎</td>
</tr>
<tr>
<td>5</td>
<td>Fireman operation</td>
<td>In the event that the fireman switch is turned on, the elevator returns to the designated floor and will be ready for firemen's use.</td>
<td>◎ ◎</td>
</tr>
</tbody>
</table>

### Other functions

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Description</th>
<th>Passenger Service Bed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Counterweight safety</td>
<td>A safety device is installed on the counterweight to maintain the rails and prevent falling.</td>
<td>◎ ◎</td>
</tr>
<tr>
<td>2</td>
<td>Over voltage detection device</td>
<td>When an abnormal increase in power supply voltage to the elevator system is detected, the power supply will be cut off to prevent damages to the elevator equipment.</td>
<td>◎ ◎</td>
</tr>
<tr>
<td>3</td>
<td>Maintenance operation</td>
<td>Elevator operates at lower speed during maintenance.</td>
<td>◎ ◎</td>
</tr>
<tr>
<td>4</td>
<td>Overload detection system</td>
<td>In the event of overloading, this system will activate an audio/visual signal to prevent the elevator from moving.</td>
<td>◎ ◎</td>
</tr>
<tr>
<td>5</td>
<td>Nearest landing door operation</td>
<td>In the unlikely event of temporary trouble during operation, the elevator automatically goes to the nearest floor at a low speed and doors will open to prevent passengers from being trapped inside.</td>
<td>◎ ◎</td>
</tr>
<tr>
<td>6</td>
<td>Hook for protection sheet</td>
<td>The side walls are equipped with hooks to facilitate mounting of protective mats.</td>
<td>◎ ◎</td>
</tr>
<tr>
<td>7</td>
<td>Sub-operating panel</td>
<td>Additional floor selection and door open/close buttons are located on the side opposite the main operating panel.</td>
<td>◎ ◎</td>
</tr>
<tr>
<td>8</td>
<td>Inspection Panel</td>
<td>An inspection panel is installed on the top floor.</td>
<td>◎ ◎</td>
</tr>
<tr>
<td>9</td>
<td>Fire rated door</td>
<td>2 hours fire rated landing door are available where required.</td>
<td>◎ ◎</td>
</tr>
<tr>
<td>10</td>
<td>Emergency landing door</td>
<td>If there is a long distance between floors, doors are installed in a location where the elevator can stop automatically in an emergency.</td>
<td>◎ ◎</td>
</tr>
<tr>
<td>11</td>
<td>Switch for emergency exit</td>
<td>A switch stops the elevator when the emergency exit door is opened.</td>
<td>◎ ◎</td>
</tr>
<tr>
<td>12</td>
<td>Painted equipment inside hoistway</td>
<td>Equipment in the hoistway is painted black.</td>
<td>◎ ◎</td>
</tr>
<tr>
<td>13</td>
<td>Electromagnetic compatibility (EMC)</td>
<td>Electromagnetic compatibility function due to EN81-20/50 regulation, etc.</td>
<td>◎ ◎</td>
</tr>
<tr>
<td>14</td>
<td>Interfacing to building management system</td>
<td>This interfacing shall be done by means of electrical dry contact to the building management system for their monitoring.</td>
<td>◎ ◎</td>
</tr>
</tbody>
</table>

*Bed type: Available for Thailand, Myanmar, Cambodia, Laos, the Philippines, Vietnam, Macau, Indonesia and Saudi Arabia.

### Dimensions

![Dimensions](image-url)
The world’s fastest ultra-high-speed elevators

Hitachi delivered the world’s fastest ultra-high-speed elevators, with a speed of 1,200 m/min. (20 m/sec.), to the Guangzhou CTF Finance Centre (530 meters tall), a mixed-use skyscraper in Guangzhou, China, for the full opening of the building in 2016. The elevators feature technologies that support safe and comfortable operation, in addition to the drive and control technologies needed to attain the world’s fastest speeds. Through these technologies, Hitachi ensures that the elevators provide passengers with a comfortable ride even when operated at high speeds.

Work to be done by building contractors

The preparatory work for elevator installation outlined in below table should be undertaken by building contractors in accordance with Hitachi drawings and in compliance with local or relevant codes and regulations.

<table>
<thead>
<tr>
<th>No.</th>
<th>ITEMS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Prepare hoistway with proper framing and enclosure, suitable pit of proper depth with drains and water-proofing if required, properly lit and ventilated hoistway of adequate size with concrete floors, access doors, ladders and guards as required.</td>
</tr>
<tr>
<td>2</td>
<td>Provide and / or cut all necessary holes, chases, openings and finishes after equipment installation.</td>
</tr>
<tr>
<td>3</td>
<td>Supply and secure all supports, reinforced concrete slabs, etc., necessary for installation of the machinery, doors, buffers, etc.</td>
</tr>
<tr>
<td>4</td>
<td>Furnish all necessary cement and / or concrete for grouting of brackets, bolts, machine beams, etc.</td>
</tr>
<tr>
<td>5</td>
<td>Prepare and erect suitable scaffolding and protective measures during work in progress.</td>
</tr>
<tr>
<td>6</td>
<td>Furnish mains for three-phase electric power and single-phase lighting supply for car lighting and lift pit and power outlet to the hoistway, following the instructions of the elevator contractor on outlet position and wire size.</td>
</tr>
<tr>
<td>7</td>
<td>Provide, free of charge, a suitable theft-proof storage area for materials and tools during erection work.</td>
</tr>
<tr>
<td>8</td>
<td>Supply electric power for lighting of work area, installation work, elevator testing and spray painting.</td>
</tr>
<tr>
<td>9</td>
<td>Hoisting hook at top of the hoistway.</td>
</tr>
<tr>
<td>10</td>
<td>Hoistway ventilation to be provided to maintain the hoistway temperature at below 40°C.</td>
</tr>
<tr>
<td>11</td>
<td>Manufacture and installation of separating beam (if necessary).</td>
</tr>
</tbody>
</table>

Drive and control technologies to attain world’s fastest speed of 1,200 m/min.

Hitachi has developed a permanent magnet synchronous motor that achieves both a thin profile and the high output needed to attain a speed of 1,200 m/min.

Safety features supporting ultra-high-speed elevator operation.

Hitachi developed brake equipment using braking materials with outstanding heat resistance to safely stop the elevator car in the unlikely event that a malfunction is detected during ultra-high-speed operation.

Elevators can be used comfortably and safely even over long travel.

- Active guide rollers that detect minute warping in the guide rails and lateral vibration due to wind pressure are installed in the four corners (top and bottom, left and right) of the elevator car. This gives passengers a comfortable ride even during high-speed operation.
- The sensation of ear blockage is reduced by Hitachi’s proprietary air pressure adjustment technology, which reduces the changes in air pressure inside the elevator car that would otherwise be caused by vertical movement through long travel.
Hitachi provides a wide array of products and services – from home appliances to societal infrastructure. We integrate the capabilities of our entire group at a high level, taking on the challenge of innovation to build a better future without losing sight of the perspective of our customers. Our development of superior, innovative technology and products supports a safe, secure, comfortable lifestyle and a fair society for all. This is the conviction that infuses Hitachi’s craftsmanship.

- Information and telecommunication systems
- Power systems
- Social infrastructure and industrial systems
- Electronic systems and equipment
- Construction machinery
- Highly functional materials and components
- Automotive systems
- Smart life and eco-friendly systems

Research and development

Modern manufacturing plants in Thailand and Singapore supply valuable products to customers. Equipment is made to the highest standards of quality and reliability on cutting-edge production lines.

Excellence and flexibility in design at manufacturing plants in Thailand and Singapore

The modern manufacturing plant in Thailand and Singapore boasts a complete team of local and Japanese engineers and is geared towards providing maximum flexibility in design and manufacturing to suit customer requirements.

High accuracy and efficiency in planning of equipment layout is made possible by the most advanced CAD systems.

Equipment is made to the highest standards of quality and reliability with modern CNC machinery.

An integrated engineering system from development to design and production

Head office, research centers, and plants work closely together to develop new technologies.

Staff throughout the company work together as one team to conduct research and develop technologies.

High performance simulator enhances overall elevator system efficiency.

A high-performance simulator is utilized for all stages of elevator development, from planning through system design. Planning, research and development are carried out according to the results of this statistical analysis.

Cutting-edge CAD/CAM systems

The latest in CAD/CAM systems help us carry out elevator layout and various other design and production steps more quickly and efficiently.