



### Artificial Intelligence System







### Elevator Group Control System $\Sigma A-2200C$ System

### **Performance**

CooperativeOptimizationAssignment

### **Earth Conscious**

Energy-savingOperation

### **Technology**

Dynamic Rule-setOptimizer

### Mitsubishi Al Technology Compilation

### Intelligence

Destination OrientedPrediction System

### **Flexibility**

- Neural Network
- Fuzzy Logic

### Reduces waiting time and eases passenger frustration

Average waiting time\*1 and long-wait\*2 rate have been greatly reduced.

### Improvement\*3

### **Morning Up Peak**

Long-wait reduction: max. 60% Average waiting time reduction: max. 30%

### Other times

Long-wait reduction: max. 40% Average waiting time reduction: max. 20% Running distance reduction: max. 5%

### High traffic efficiency realized with new algorithm

The new Cooperative Optimization Assignment Algorithm improves traffic efficiency and reduces the chance of a long wait. In addition, the algorithm provides higher performance when combined with the Dynamic Rule-set Optimizer and the Destination Oriented Prediction System.

### **Energy saving**

By reducing the traveling distance of elevators, the power consumption and CO<sub>2</sub> emissions of elevator operation are reduced.

### Notes

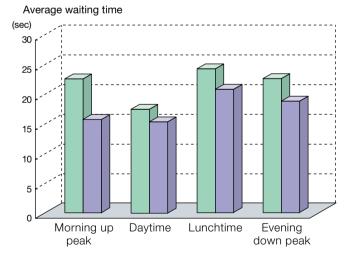
- \*1: The average time from when a passenger arrives at the hall until when the passenger boards an assigned car
- \*2: A waiting time of 60 seconds or longer.
- \*3: Compared with the Al-2100N system. Actual reduction percentages may differ from those shown depending on conditions.

### $\Sigma AI-2200C$ Main Features

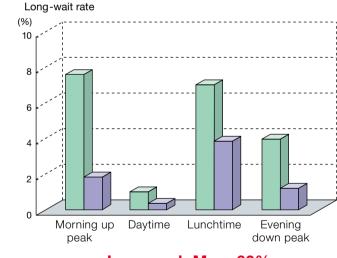
### Applicable number of cars: 3 to 8 cars

- Expert System and Fuzzy Logic
- Psychological Waiting Time Evaluation
- Cooperative Optimization Assignment
- Car Travel Time Evaluation
- Determination of Traffic Flow with Neural Networks
- Energy-saving Operation Allocation Control
- Immediate Prediction Indication (Optional)
- Dynamic Rule-set Optimizer
- Destination Oriented Prediction System (Optional)
- Motor Drive Mix (Optional)
- Mitsubishi Elevators & Escalators Monitoring and Control System MelEye (Optional)

### $\Sigma A - 2200C$ Performance<sup>-1</sup>







Improved: Max. 60%

Partons



### Notes

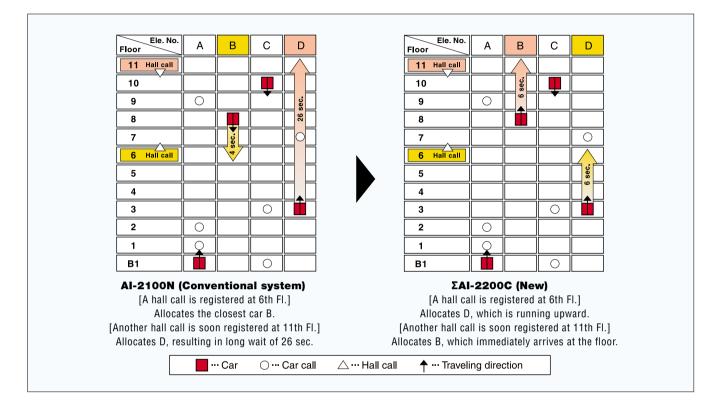
\*1: Simulated with 6 cars, 20 persons each at 2.5m/sec. for 15 stops

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### **Cooperative Optimization Assignment**

### Forecasting a near-future hall call to reduce long wait

When a hall call is registered, the algorithm assumes a near-future call that could require long waits. Through evaluation of the registered hall call and the forecasted call, the best car is assigned. All cars work cooperatively for optimum operation.



### **Energy-saving Operation — Allocation Control**

### Maximizing operational efficiency and minimizing energy consumption

Priority is given to operational efficiency during peak hours and energy efficiency during non-peak hours. Car allocation that maximizes operational efficiency does not necessarily translate to energy efficiency. A car uses energy efficiently when it travels down with a heavy load, or up with a light load. Accordingly, if multiple cars have the same traveling distance, this system chooses the car that requires the least energy. Through a maximum 10% reduction in energy consumption compared to our conventional system, this system allows building owners to cut energy costs without sacrificing passenger convenience.

This system selects the elevator in a group that best balances operational efficiency and energy consumption.

Ele. No.	Α	В	С	D
9		ii		
8				
7				
6 Hall call	AD			
5				
4		RД		
3				
2				
1				

### Initial conditions: non-peak period

Car A: Parked at the 3rd floor

Car B: About to leave the 9th floor with several passengers

Car C: Parked at the 9th floor

Car D: Parked at the 1st floor

Under the conditions above, when a hall call is registered at the 6th floor to go to the 1st floor, waiting time and traveling distance will be the same regardless of whether car A, B or C responds to the call.

In response to the call, the cars will operate in the following ways:

Car A will travel up with no passengers and then down with only one passenger (requires more energy than car B).

Car B will travel down with more passengers than car A (requires the least

Car C will travel down with no passengers and then down with only one passenger (requires the most energy).

During non-peak hours when energy efficiency is prioritized, car B is selected

### **Dynamic Rule-set Optimizer**

### Selecting optimum car allocation through rule-set simulations

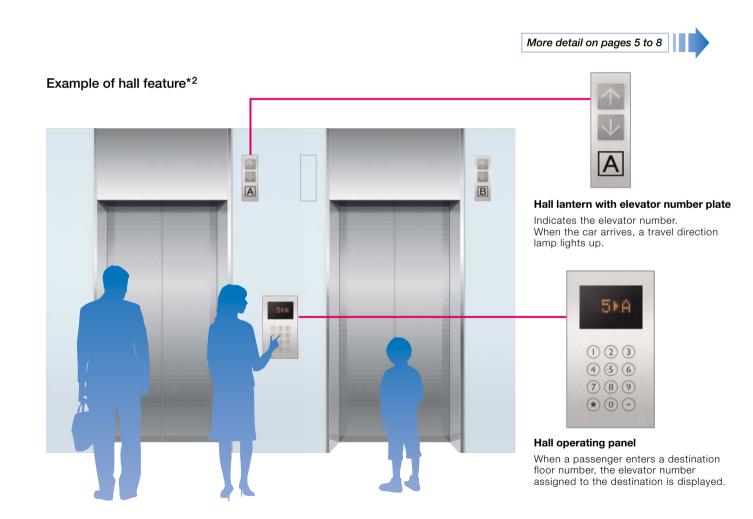
Based on real traffic data, passenger traffic is predicted every few minutes. According to the prediction, realtime simulation selects the best rule-set (multiple rules have been set as car allocation patterns), which optimizes transport efficiency.

### **Destination Oriented Prediction System (DOAS-S) (Optional)**

### Allocating passengers to cars depending on destination floors

When a passenger enters a destination floor number at a hall, the hall operating panel immediately indicates which car will serve the floor. Because the destination floor is already registered, the passenger does not need to press a button in the car. Furthermore, dispersing passengers by destination prevents congestion in cars and minimizes their waiting and traveling time.

(Car destination floor indicator can be installed on the car operating panel to display floors to stop.\*1)



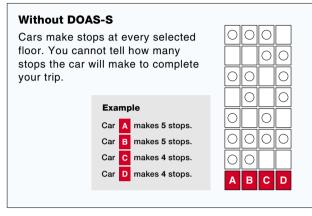
- \*1: Car Destination Floor Indicator can be installed as an option. See page 8 for details.
- \*2: See page 8 for available hall fixtures.

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### **Advantages of the Destination Oriented Prediction System**

### 1. Reducing traveling time

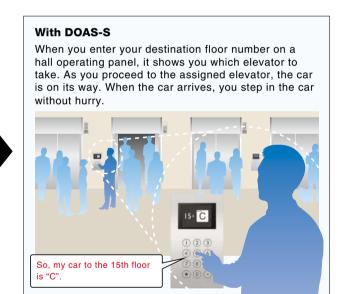
The system uses timely and specific destination information to direct each passenger to the right car. Passengers spend less time in a car, as the number of stops per trip is minimized. Working with other features of the  $\Sigma$ AI-2200C, DOAS-S can significantly reduce the total time required for passengers to get to their destinations, as well as long waits.



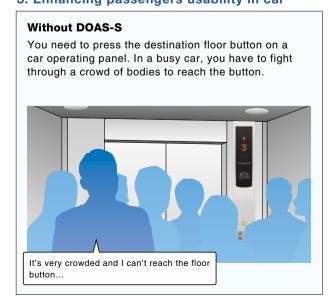
## With DOAS-S The number of stops per car is minimized since the number of passengers is evenly distributed to cars according to their destinations. Example Car A makes 2 stops. Car C makes 2 stops. Car D makes 3 stops. A B C D

### 2. Enhancing usability for passengers at halls

# Without DOAS-S You wait for cars wondering which car will arrive first. Once a car arrives, regardless of the destination, passengers rush to get into the car. I have to wait for another car! Now, which car will arrive next?



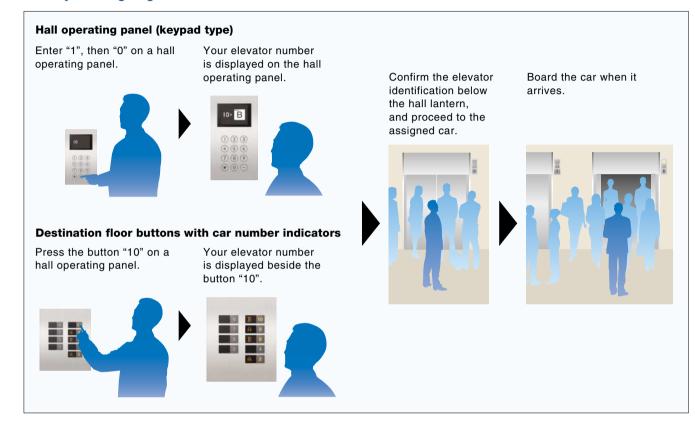
### 3. Enhancing passengers usability in car





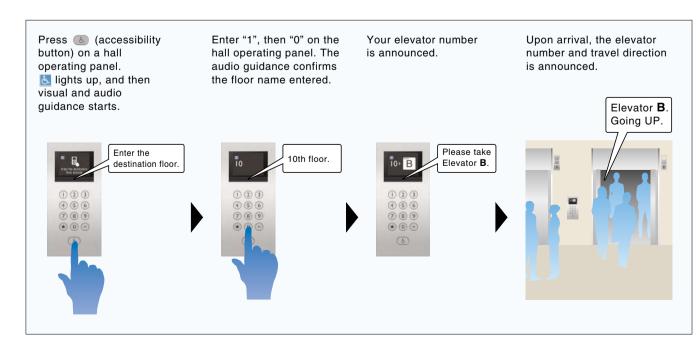
With DOAS-S, all you have to do is enter your destination floor using the hall operating panel. The journey from then on is completely automatic.

### When you are going to the 10th floor



### For passengers with special needs

DOAS-S offers dedicated service for passengers with special needs. When the accessibility button on a hall operating panel is pressed, the doors remain open longer and close more slowly to allow passengers extra time to board or exit the car. Also, visual and audio guidance is available throughout the journey.

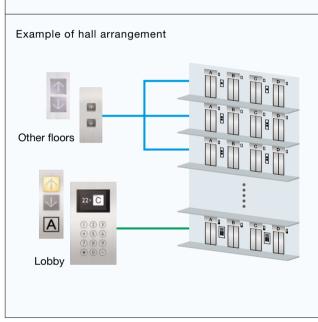


### **Hall Arrangement**

DOAS-S is designed to complement today's complex building environments. It can accommodate the needs of building owners, architects, consultants and elevator passengers. To meet their particular requests, we offer flexible configuration options. Please consult with our local subcontractors for further information.

### DOAS-S (Lobby floor(s))

DOAS-S hall operating panels are installed only on busy floor(s) such as the lobby while other floors have conventional hall fixtures. This is particularly beneficial for improving the traffic flow leaving from the busy floor. It is especially useful in buildings with heavy up-peak traffic.



# DOAS-S (All floors) DOAS-S hall operating panels are installed on all floors. Cars receive destination information from all floors to provide the best service for more complex traffic conditions throughout the day. Example of hall arrangement

Please consult our local agents for DOAS-S (all floors).

### **Applicable Equipment and Features**

●: Applicable —: Not applicable							
	Equipment / Features		DOAS-S (Lobby floor(s))		DOAS-S (All floors)		
Location			Standard DOAS-S	DOAS-S with functions for passengers with special needs	Standard DOAS-S	DOAS-S with functions for passengers with special needs	
	Hall operating panel	rating Keypad	HSVF-C212, HSVF-C262	•	_	•	_
			HSVF-C222, HSVF-C232, HSVF-C272, HSVF-C282	-	•	-	•
			Touch panel	•	_	•	_
Hall		HSM-E2	10	•	_	_	_
	Hall lanterns with elevator number plate	HLV-E115		•	•	•	•
	Hall destination floor indicator	$H \cap H \cap H = \Delta \cap I \cap I$		•	_	*1	_
	Immediate Prediction Indication*3		•	•	_*1	_*1	
	Announcement of elevator number and traveling direction		_	•	_	•	
Car	Operating by floor buttons on car operating panel		<b>_</b> *2	<b>_</b> *2	_	_	
	Car Destination Floor Indicator		_	_	<b>•</b> *4	<b>•</b> *4	

- \*1: Applicable to some specified floors.
- \*2: The floor buttons become available after the car makes the first stop.
- \*3: When a passenger has registered a hall call, the hall lantern of the assigned elevator lights up and a chime sounds to indicate which elevator to take.
- \*4: Provided when floor buttons are not installed in the car. Please consult our local agents for application.

### ■ Hall Operating Panels

### Keypad



HSVF-C212



HSVF-C222\*





HSVF-C262





Faceplate	Stainless-steel hairline
Display	Digital LED dot display, orange when illuminated (HSVF-C212, HSVF-C222 and HSVF-C232), 5.7" TFT color LCD (HSVF-C262, HSVF-C272 and HSVF-C282)
Button (Stainless-steel matte)	Number: Flat button (The number "5" has a small raised dot as tactile orientation of the keypad for visually-impaired passengers.)

(Stainless-steel matte)

Star: Tactile button

Speaker for announcement for announcement. (Located under position indicator)

### **Destination Floor Buttons with Elevator Number Indicators**



ı	HSM-E210				
	Faceplate	Stainless-steel hairline			
	Destination floor buttons (Gray plastic)	Flat button (Light: LED lamp, yellow-orange when illuminated)			
	Elevator number indicator	Digital LED dot display, orange when illuminated			

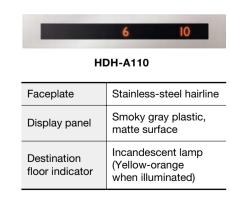


### Hall Lanterns with Elevator Number

70	Faceplate	Stainless-steel hairline
<b>→</b>	Arrival prediction lanterns	Lens: Clear acrylic Light: Incandescent lamp (Yellow-orange when illuminated)
Α	Elevator number plate	Stainless-steel hairline Elevator No. and the borde Etched and black filled

HLV-E115

### ■ Hall Destination Floor Indicator\*3 ■ Car Destination Floor



### ■ Car Destination Floor Indicator\*3



Car Destination	
Floor Indicator	5.7" TFT
Located under position indicator	color LCD

- \*1: Complies with EN81-70. The key arrangement can be changed if compliance with EN81-70 is not required.
- \*2: Please note that the touch panel hall indicator cannot be installed in elevators used by visually impaired passengers, elevators used for firefighter services, or elevators sold in countries and regions where regulations, such as EN81-70, mandate specific measures for physically impaired passengers.

  Also, the touch panel is designed to react to human touch only. It cannot be operated with gloved hands or inanimate objects.
- \*3: Please consult our local agents for application.

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### **Special Functions**

### **Group Control Features**

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Closest-car Priority Service (CNPS)  A function to give priority allocation to the bear criceses to the floor where a hall call button has been pressed, or to reverse the closing doors of the car closest to the pressed hall call button has been pressed, or to reverse the closing doors of the car closest to the pressed hall call button on that floor.  (Cannot be combined with hall position indicators.)  Special Car Priority Service (CPS)  Special Car Priority Service (SCPS)  Special Car Priority Service (SCPS)  Special Car Priority Service (SCPS)  Special Floor Priority Service  Special Floor Service  Special Floor Service  Special Floor Service  Special Floor Service  CONTrols the number of cars to be allocated to the lobby floor, as well as the car allocation when a call is made on those floors. (Cannot be combined with hall position indicators.)  Down Peak Service (IPS)  Controls the number of cars to be allocated to the lobby floor as well as the car allocation timing, in order to meet increased demands for upward travel from the lobby floor during office starting time, hotel check-out time, etc., to minimize passenger waiting time.  Down Peak Service (IPS)  Controls the number of cars to be allocated and the timing of car allocation in order to meet increased demands for downward travel during office leaving time, hotel check-out time, etc., to minimize passenger waiting time.  Congested-floor Service (CFS)  The timing of car allocation and the number of cars to be allocated to floors where meeting rooms or ballrooms exist and the traffic intensifies for short periods of time are controlled accided traffic density data for those floors.  Special Control (ESO-N)  To save energy, the car special is automatically reduced to some extent, but not so much that it adversely affects passenger waiting time.  To aver energy, the car special is automatically reduced to some extent, but not so	Peak Traffic Control (PTC)		•
CONPS)  Controls the number of cars to be allocated and the timing of car allocation timing time.  Congested-floor Service (CFS)  Controls the number of cars to be allocated and the timing of car allocation and the rithright gime.  Congested-floor Service (CFS)  Controls the number of cars to be allocated and the timing of car allocation.  The timing of car allocation and the number of cars to be allocated to floors where meeting rome or basenger waiting time.  Control control (ESO-V)  Control control control (ESO-V)  Control control control control (ESO-V)  Control control control control (ESO-V)  Control contro	Strategic Overall Spotting (SOHS)	they can respond to predicted hall calls as quickly as possible.	•
minimize passenger traveling time. (Cannot be combined with hall position indicators.)  Special Car Priority Service (SCPS)  Special Floor Service (DPS)  Controls the number of cars to be allocated to the lobby floor, as well as the car allocation when meet increased demands for upward travel from the lobby floor or floor office starting time, hotel check-in time etc., and minimize passenger waiting time.  Down Peak Service (DPS)  Controls the number of cars to be allocated to the lobby floor, as well as the car allocation in order to meet increased demands for upward travel from the lobby floor office starting time, hotel check-in time etc., and minimize passenger waiting time.  Congested-floor Service (DPS)  Controls the number of cars (see allocated and the timing of car allocation in order to meet increased demands for downward travel during office leaving time, hotel check-out time, etc., to minimize passenger waiting time.  Congested-floor Service (CFS)  The timing of car allocation and the number of cars to be allocated to forsow where meeting rooms or ballrooms exist and the traffic intensifies for short periods of time are controlled according to the detected traffic density data for those floors.  Energy Saving Operation  To save energy, the number of service cars is automatically reduced to some extent, but not so much that it adversely affects passenger waiting time.  To save energy, the car speed is automatically reduced to some extent, but not so much that it adversely affects passenger waiting time.  Seed Control (ESO-W)  Bank-separation Operation (ESO)  The system selects the elevator that best balances operational efficiency and energy consumption according to each elevator's current location and passenger load as well as predicted congestion levels throughout the day.  Bank-separation Operation (BSO)		to reverse the closing doors of the car closest to the pressed hall call button on that floor.	0
respond to hall calls. (Cannot be combined with hall position indicators.)  Special Floor Priority Service (SFPS)  Controls the number of cars to be allocated to the lobby floor, as well as the car allocation when a call is made on those floors. (Cannot be combined with hall position indicators.)  Up Peak Service (UPS)  Controls the number of cars to be allocated to the lobby floor, as well as the car allocation timing, in order to meet increased demands for upward travel from the lobby floor during office starting time, hotel check-in time etc., and minimize passenger waiting time.  Condested-floor Service (CPS)  Controls the number of cars to be allocated and the timing of car allocation in order to meet increased demands for upward travel from the lobby floor during office starting time, hotel check-out time, etc., to minimize passenger waiting time.  Congested-floor Service (CFS)  The timing of car allocation and the number of cars to be allocated to floors where meeting roms or ballrooms exist and the traffic intensifies for short periods of time are controlled according to the detected traffic density data for those floors.  Congested-floor Service (CFS)  To save energy, the number of service cars is automatically reduced to some extent, but not so much that it adversely affects passenger waiting time.  To save energy, the car speed is automatically reduced to some extent, but not so much that it adversely affects passenger waiting time.  To save energy, the car speed is automatically reduced to some extent, but not so much that it adversely affects passenger waiting time.  Energy Saving Operation  Allocation Control (ESO-V)  To save energy, the car speed is automatically reduced to some extent, but not so much that it adversely affects passenger waiting time.  As specified car is withdrawn from group control operation deficiency and energy consumption according to each elevator's current location and passenger load as well as predicted congestion levels throughout the day.  As pecified car is withdrawn f			0
Controls the number of cars to be allocated to the lobby floor, as well as the car allocation timing, in order to meet increased demands for upward travel from the lobby floor during office starting time, hotel check-in time etc., and minimize passenger waiting time.    Down Peak Service (DPS)		respond to hall calls. (Cannot be combined with hall position indicators.)	0
meet increased demands for upward travel from the lobby floor during office starting time, hotel check-in time etc., and minimize passenger waiting time.  Controls the number of cars to be allocated and the timing of car allocation in order to meet increased demands for downward travel during office leaving time, hotel check-out time, etc., to minimize passenger waiting time.  The timing of car allocation and the number of cars to be allocated to floors where meeting rooms or ballrooms exist and the traffic intensifies for short periods of time are controlled according to the detected traffic density data for those floors.  Energy Saving Operation  Number of Cars (ESO-N)  Energy Saving Operation  Seped Control (ESO-N)  To save energy, the number of service cars is automatically reduced to some extent, but not so much that it adversely affects passenger waiting time.  To save energy, the car speed is automatically reduced to some extent, but not so much that it adversely affects passenger waiting time.  To save energy, the car speed is automatically reduced to some extent, but not so much that it adversely affects passenger waiting time.  The system selects the elevator that best balances operational efficiency and energy consumption according to each elevator's current location and passenger load as well as predicted congestion levels throughout the day.  Bank-separation Operation (BSO)  Hall buttons and the cars called by each button can be divided into several groups for independent group control operation (VIP-S)  A specified car is withdrawn from group control operation for VIP service operation. When activated, the car responds only to existing car calls, moves to a specified floor and parks there with the doors open. The car will then respond only to car calls. (Cannot be combine with DOAS-S.)  Intense Up Peak (IUP)  To maximize transport efficiency, an elevator bank will be divided into two groups of cars to serve upper and lower floors separately during up peak. In addition, the number of cars to be all		a call is made on those floors. (Cannot be combined with hall position indicators.)	0
for downward travel during office leaving time, hotel check-out time, etc., to minimize passenger waiting time.  The timing of car allocation and the number of cars to be allocated to floors where meeting rooms or ballrooms exist and the traffic intensifies for short periods of time are controlled according to the detected traffic density data for those floors.  Energy Saving Operation  Number of Cars (ESO-N)  To save energy, the number of service cars is automatically reduced to some extent, but not so much that it adversely affects passenger waiting time.  Energy Saving Operation  Speed Control (ESO-V)  To save energy, the car speed is automatically reduced to some extent, but not so much that it adversely affects passenger waiting time.  The system selects the elevator that best balances operational efficiency and energy consumption according to each elevator's current location and passenger load as well as predicted congestion levels throughout the day.  Bank-separation Operation (BSO)  Hall buttons and the cars called by each button can be divided into several groups for independent group control operation to serve special needs or different floors.  VIP Operation (VIP-S)  A specified car is withdrawn from group control operation for VIP service operation. When activated, the car responds only to existing car calls, moves to a specified floor and parks there with the doors open. The car will then respond only to car calls. (Cannot be combine with DOAS-S.)  Intense Up Peak (IUP)  To maximize transport efficiency, an elevator bank will be divided into two groups of cars to serve upper and lower floors separately during up peak. In addition, the number of cars to be allocated, the timing of car allocation to the lobby floor, the timing of door closing, etc. are controlled based on predicted traffic data.  (Cannot be combine with DOAS-S.)  Lunchtime Service (LTS)  During the first half of lunchtime, calls for a restaurant floor, the allocation timing for each car and the door opening and closing timing are all	Up Peak Service (UPS)	meet increased demands for upward travel from the lobby floor during office starting time, hotel check-in time	0
exist and the traffic intensifies for short periods of time are controlled according to the detected traffic density data for those floors.  Energy Saving Operation —Number of Cars (ESO-N)  Energy Saving Operation —Speed Control (ESO-V)  Energy Saving Operation —Allocation Control (ESO-V)  Energy Saving Operation —Allocation Control (ESO-W)  Hall buttons and the cars called by each button can be divided into several groups for independent group control operation for VIP service operation. When activated, the car seponds only to existing car calls, moves to a specified floor and parks there with the doors open. The car will then respond only to car calls. (Cannot be combine with DOAS-S.)  Intense Up Peak (IUP)  To maximize transport efficiency, an elevator bank will be divided into two groups of cars to serve upper and lower floors separately during up peak. In addition, the number of cars to be allocated, the timing of car allocation to the lobby floor, the timing of door closing, etc. are controlled based on predicted traffic data. (Cannot be combine with DOAS-S.)  Lunchtime Service (LTS)  During the first half of lunchtime, calls for a restaurant floor are served with higher priority, and during the latter half, the number of cars allocated to the restaurant floor, the allocation timing for each car and the door opening and closing timing are all controlled based on predicted data.  Indication Functions  Electronic chimes sound to indicate that a car will soon arrive. (The chimes are mounted either on the top and bottom of the car, or in each hall.)  A hall lantern, which corresponds to a car's service direction, flashes to indicate that the car will soon arrive.  When a passenger has registered a hall call, the best car to respond to that call is immediately selected, the corresponding hall lantern lights up and a chime sounds once to indicate which do	Down Peak Service (DPS)	for downward travel during office leaving time, hotel check-out time, etc., to minimize passenger waiting time.	0
■ Number of Cars (ESO-N) adversely affects passenger waiting time.    Paged Control (ESO-V)	Congested-floor Service (CFS)	exist and the traffic intensifies for short periods of time are controlled according to the detected traffic density	0
Energy Saving Operation — Allocation Control (ESO-W)  Bank-separation Operation (BSO)  Hall buttons and the cars called by each button can be divided into several groups for independent group control operation to serve special needs or different floors.  VIP Operation (VIP-S)  A specified car is withdrawn from group control operation for VIP service operation. When activated, the car responds only to existing car calls, moves to a specified floor and parks there with the doors open. The car will then respond only to car calls. (Cannot be combine with DOAS-S.)  Intense Up Peak (IUP)  To maximize transport efficiency, an elevator bank will be divided into two groups of cars to serve upper and lower floors separately during up peak. In addition, the number of cars to be allocated, the timing of car allocation to the lobby floor, the timing of door closing, etc. are controlled based on predicted traffic data. (Cannot be combine with DOAS-S.)  Lunchtime Service (LTS)  During the first half of lunchtime, calls for a restaurant floor are served with higher priority, and during the latter half, the number of cars allocated to the restaurant floor, the allocation timing for each car and the door opening and closing timing are all controlled based on predicted data.  Indication Functions  Car Arrival Chime — Car or Hall (AECC/AECH)  Electronic chimes sound to indicate that a car will soon arrive. (The chimes are mounted either on the top and bottom of the car, or in each hall.)  Flashing Hall Lantern (FHL)  A hall lantern, which corresponds to a car's service direction, flashes to indicate that the car will soon arrive.  Immediate Prediction Indication  (AlL)  When a passenger has registered a hall call, the best car to respond to that call is immediately selected, the corresponding hall lantern lights up and a chime sounds once to indicate which doors will open.			0
Allocation Control (ESO-W)  Bank-separation Operation (BSO)  Hall buttons and the cars called by each button can be divided into several groups for independent group control operation to serve special needs or different floors.  VIP Operation (VIP-S)  A specified car is withdrawn from group control operation for VIP service operation. When activated, the car responds only to existing car calls, moves to a specified floor and parks there with the doors open. The car will then respond only to car calls. (Cannot be combine with DOAS-S.)  Intense Up Peak (IUP)  To maximize transport efficiency, an elevator bank will be divided into two groups of cars to serve upper and lower floors separately during up peak. In addition, the number of cars to be allocated, the timing of car allocation to the lobby floor, the timing of door closing, etc. are controlled based on predicted traffic data. (Cannot be combine with DOAS-S.)  Lunchtime Service (LTS)  During the first half of lunchtime, calls for a restaurant floor are served with higher priority, and during the latter half, the number of cars allocated to the restaurant floor, the allocation timing for each car and the door opening and closing timing are all controlled based on predicted data.  Indication Functions  Car Arrival Chime — Car or Hall (AECO/AECH)  Electronic chimes sound to indicate that a car will soon arrive. (The chimes are mounted either on the top and bottom of the car, or in each hall.)  Flashing Hall Lantern (FHL)  A hall lantern, which corresponds to a car's service direction, flashes to indicate that the car will soon arrive.  Immediate Prediction Indication (AIL)  When a passenger has registered a hall call, the best car to respond to that call is immediately selected, the corresponding hall lantern lights up and a chime sounds once to indicate which doors will open.			0
Control operation to serve special needs or different floors.  VIP Operation (VIP-S)  A specified car is withdrawn from group control operation for VIP service operation. When activated, the car responds only to existing car calls, moves to a specified floor and parks there with the doors open. The car will then respond only to car calls. (Cannot be combine with DOAS-S.)  Intense Up Peak (IUP)  To maximize transport efficiency, an elevator bank will be divided into two groups of cars to serve upper and lower floors separately during up peak. In addition, the number of cars to be allocated, the timing of car allocation to the lobby floor, the timing of door closing, etc. are controlled based on predicted traffic data. (Cannot be combine with DOAS-S.)  Lunchtime Service (LTS)  During the first half of lunchtime, calls for a restaurant floor are served with higher priority, and during the latter half, the number of cars allocated to the restaurant floor, the allocation timing for each car and the door opening and closing timing are all controlled based on predicted data.  Indication Functions  Car Arrival Chime  — Car or Hall (AECC/AECH)  Electronic chimes sound to indicate that a car will soon arrive. (The chimes are mounted either on the top and bottom of the car, or in each hall.)  Flashing Hall Lantern (FHL)  A hall lantern, which corresponds to a car's service direction, flashes to indicate that the car will soon arrive.  Immediate Prediction Indication (AIL)  When a passenger has registered a hall call, the best car to respond to that call is immediately selected, the corresponding hall lantern lights up and a chime sounds once to indicate which doors will open.  Second Car Prediction (TCP)  When a hall is crowded to the extent that one car cannot accommodate all waiting passengers, a hall lantern will			•
responds only to existing car calls, moves to a specified floor and parks there with the doors open. The car will then respond only to car calls. (Cannot be combine with DOAS-S.)  To maximize transport efficiency, an elevator bank will be divided into two groups of cars to serve upper and lower floors separately during up peak. In addition, the number of cars to be allocated, the timing of car allocation to the lobby floor, the timing of door closing, etc. are controlled based on predicted traffic data. (Cannot be combine with DOAS-S.)  During the first half of lunchtime, calls for a restaurant floor are served with higher priority, and during the latter half, the number of cars allocated to the restaurant floor, the allocation timing for each car and the door opening and closing timing are all controlled based on predicted data.  Indication Functions  Car Arrival Chime — Car or Hall (AECC/AECH)  Electronic chimes sound to indicate that a car will soon arrive. (The chimes are mounted either on the top and bottom of the car, or in each hall.)  Flashing Hall Lantern (FHL)  A hall lantern, which corresponds to a car's service direction, flashes to indicate that the car will soon arrive.  When a passenger has registered a hall call, the best car to respond to that call is immediately selected, the corresponding hall lantern lights up and a chime sounds once to indicate which doors will open.  Second Car Prediction (TCP)  When a hall is crowded to the extent that one car cannot accommodate all waiting passengers, a hall lantern will	Bank-separation Operation (BSO)		0
lower floors separately during up peak. In addition, the number of cars to be allocated, the timing of car allocation to the lobby floor, the timing of door closing, etc. are controlled based on predicted traffic data. (Cannot be combine with DOAS-S.)  Lunchtime Service (LTS)  During the first half of lunchtime, calls for a restaurant floor are served with higher priority, and during the latter half, the number of cars allocated to the restaurant floor, the allocation timing for each car and the door opening and closing timing are all controlled based on predicted data.  Indication Functions  Car Arrival Chime — Car or Hall (AECC/AECH)  Electronic chimes sound to indicate that a car will soon arrive. (The chimes are mounted either on the top and bottom of the car, or in each hall.)  Flashing Hall Lantern (FHL)  A hall lantern, which corresponds to a car's service direction, flashes to indicate that the car will soon arrive.  When a passenger has registered a hall call, the best car to respond to that call is immediately selected, the corresponding hall lantern lights up and a chime sounds once to indicate which doors will open.  Second Car Prediction (TCP)  When a hall is crowded to the extent that one car cannot accommodate all waiting passengers, a hall lantern will	VIP Operation (VIP-S)	responds only to existing car calls, moves to a specified floor and parks there with the doors open. The car will	0
half, the number of cars allocated to the restaurant floor, the allocation timing for each car and the door opening and closing timing are all controlled based on predicted data.  Indication Functions  Car Arrival Chime — Car or Hall (AECC/AECH)  Flashing Hall Lantern (FHL)  A hall lantern, which corresponds to a car's service direction, flashes to indicate that the car will soon arrive.  Immediate Prediction Indication (AIL)  When a passenger has registered a hall call, the best car to respond to that call is immediately selected, the corresponding hall lantern lights up and a chime sounds once to indicate which doors will open.  Second Car Prediction (TCP)  When a hall is crowded to the extent that one car cannot accommodate all waiting passengers, a hall lantern will	Intense Up Peak (IUP)	lower floors separately during up peak. In addition, the number of cars to be allocated, the timing of car allocation to the lobby floor, the timing of door closing, etc. are controlled based on predicted traffic data.	0
Car Arrival Chime — Car or Hall (AECC/AECH)  Electronic chimes sound to indicate that a car will soon arrive. (The chimes are mounted either on the top and bottom of the car, or in each hall.)  A hall lantern, which corresponds to a car's service direction, flashes to indicate that the car will soon arrive.  Immediate Prediction Indication (AIL)  When a passenger has registered a hall call, the best car to respond to that call is immediately selected, the corresponding hall lantern lights up and a chime sounds once to indicate which doors will open.  Second Car Prediction (TCP)  When a hall is crowded to the extent that one car cannot accommodate all waiting passengers, a hall lantern will	Lunchtime Service (LTS)	half, the number of cars allocated to the restaurant floor, the allocation timing for each car and the door opening	0
— Car or Hall (AECC/AECH) bottom of the car, or in each hall.)  Flashing Hall Lantern (FHL) A hall lantern, which corresponds to a car's service direction, flashes to indicate that the car will soon arrive.  Immediate Prediction Indication (AIL) When a passenger has registered a hall call, the best car to respond to that call is immediately selected, the corresponding hall lantern lights up and a chime sounds once to indicate which doors will open.  Second Car Prediction (TCP) When a hall is crowded to the extent that one car cannot accommodate all waiting passengers, a hall lantern will	Indication Functions		
Immediate Prediction Indication (AIL)  When a passenger has registered a hall call, the best car to respond to that call is immediately selected, the corresponding hall lantern lights up and a chime sounds once to indicate which doors will open.  Second Car Prediction (TCP)  When a hall is crowded to the extent that one car cannot accommodate all waiting passengers, a hall lantern will			•
(AIL) corresponding hall lantern lights up and a chime sounds once to indicate which doors will open.  Second Car Prediction (TCP) When a hall is crowded to the extent that one car cannot accommodate all waiting passengers, a hall lantern will	Flashing Hall Lantern (FHL)	A hall lantern, which corresponds to a car's service direction, flashes to indicate that the car will soon arrive.	•
		When a passenger has registered a hall call, the best car to respond to that call is immediately selected, the corresponding hall lantern lights up and a chime sounds once to indicate which doors will open.	0
	Second Car Prediction (TCP)		0

### **Comfort and Convenience Features**

Feature	Description	Appl.*				
	Description	Appi.				
Door Sensors						
Electronic Doorman (EDM)	Door open time is minimized using safety ray(s) or multi-beam door sensors that detect passengers boarding or exiting.	0				
Multi-beam Door Sensor	Multiple infrared-light beams cover a door height of approximately 1800mm to detect passengers or objects as the doors close. (Cannot be combined with the SR feature.)	0				
Multi-beam Door Sensor — Signal Type (MBSS)	Multiple infrared-light beams cover a door height of approximately 1800mm to detect passengers or objects as the doors close. Additionally, LED lights on the door edge indicate the door opening/closing and the presence of an obstacle between the doors. (Cannot be combined with multi-beam door sensor.)	0				
Hall Motion Sensor (HMS)	Infrared-light is used to scan a 3D area near open doors to detect passengers or objects.	0				
Operating Considerations						
Car Call Erase (FCC-P)	If the wrong car button is pressed, it can be canceled by quickly pressing the same button again twice.	•				
Car Fan Shut Off — Automatic (CFO-A)	If there are no calls for a specified period, the car ventilation fan will automatically turn off to conserve energy.	•				
Car Light Shut Off — Automatic (CLO-A)	If there are no calls for a specified period, the car lighting will automatically turn off to conserve energy.	•				
Reopen with Hall Button (ROHB)	Closing doors can be reopened by pressing the hall button corresponding to the traveling direction of the car.					
User Considerations						
Automatic Hall Call Registration (FSAT)	If one car cannot carry all waiting passengers because it is full, another car will automatically be assigned for the remaining passengers.	•				
Automatic Bypass (ABP)	A fully-loaded car bypasses hall calls in order to maintain maximum operational efficiency.	•				
Door Nudging Feature (NDG)  — With Buzzer	A buzzer sounds and the doors slowly close when they have remained open for longer than the preset period. With AAN-B or AAN-G, a beep and voice guidance sound instead of the buzzer.	•				
Next Landing (NXL)	If the elevator doors do not open fully at a destination floor, the doors close, the car automatically moves to the next or nearest floor where the doors will open.	•				
Independent Service (IND)	Exclusive operation where a car is withdrawn from group control operation for independent use, such as maintenance or repair, and responds only to car calls.	•				
Service Floor Selection Functions						
Non-Service to Specific Floors  — Car Button Type (NS-CB)	To enhance security, service to specific floors can be disabled using the car operating panel. This function is automatically deactivated during emergency operation.	0				
Non-Service to Specific Floors  — Switch/Timer Type (NS/NS-T)	To enhance security, service to specific floors can be disabled using a manual or timer switch. This function is automatically deactivated during emergency operation.	0				
Secret Call Service (SCS-B)	To enhance security, car calls for desired floors can be registered only by entering secret codes using the car buttons on the car operating panel. This function is automatically deactivated during emergency operation.	0				
Characteristic Functions						
Basic Announcement (AAN-B)	A synthetic voice (and/or buzzer) alerts passengers inside a car that elevator operation has been temporarily interrupted due to overloading or a similar cause. (Voice available only in English.)	•				
Voice Guidance System (AAN-G)	Information on elevator service such as the current floor or service direction is given to the passengers inside a car. (Voice guidance available only in English.)	0				
Main Floor Parking (MFP)	An available car always parks on the main (lobby) floor with the doors open to reduce passenger waiting time.	0				
Forced Floor Stop (FFS)	All cars in a bank automatically make a stop at a predetermined floor on every trip without being called.	0				

This feature is effective for buildings with two main (lobby) floors. The floor designated as the "main floor" in a group control operation can be changed as necessary using a manual switch.

This 5.7-inch LCD for car operating panels shows the date and time, car position, travel direction and elevator

This 5.7-inch LCD for elevator halls shows the date and time, car position, travel direction and elevator status

LCD indicator mounted on the car operating panel that indicates the registered destination floor(s).

### **Emergency Operation**

Main Floor Changeover Operation

Hall LCD Position Indicator (HID-S)

Car Destination Floor Indicator (CDFI)

In-car LCD Position Indicator

(TFS)

- Operation by Emergency Power Source Automatic/Manual (OEPS)
- Fire Emergency Return (FER)
- Firefighters' Emergency Operation (FE)
- Earthquake Emergency Return (EER-P/EER-S)
- Mitsubishi Emergency Landing Device (MELD)
- Supervisory Panel (WP)
- Mitsubishi Elevators & Escalators Monitoring and Control System MelEye (WP-W)

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<sup>\*</sup>Application of feature in this table shows operation system ΣAI-2200C. Applicability of feature differs depending on the elevator models or operation system. Please consult our local agents for details.