SECTION 28 13 53

MULTI-TENANT ENTRY SECURITY SYSTEM

(GT Series)

Display hidden notes to specifier. (Don't know how? [Click Here](http://www.arcat.com/sd/display_hidden_notes.shtml))

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\*\* NOTE TO SPECIFIER \*\* Aiphone Corp.; security and communication systems and products.
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This section is based on the products of Aiphone Corp., which is located at:
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Web: [www.aiphone.com](http://www.aiphone.com)
 [ [Click Here](http://www.arcat.com/arcatcos/cos30/arc30204.html) ] for additional information.
Aiphone has become the most respected and reliable brand of communication systems in the world. Aiphone Co. Limited in Nagoya, Japan exports to over 60 countries. Our North American marketing and sales distribution center near Seattle, Washington, was established in 1970.
Aiphone products range from simple do-it-yourself door answering units to sophisticated video entry security systems, complex microprocessor-based commercial systems, and luxury condo/apartment security and communication systems. Our products are unrivaled in design simplicity, technical excellence and reliability. With over 25 standard systems, and additional manufacturing by special order, we can create a system for virtually any intercom application.
Every Aiphone system is the result of painstaking attention to detail, with contemporary European style design and the finest quality hardware and circuitry. All of our products are engineered and tested with reliability in mind.
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1. GENERAL
	1. SECTION INCLUDES
		1. Multi-tenant color-video entry security system. (Aiphone GT Series)
	2. RELATED SECTIONS
		1. Section 27 41 00 - Audio-Video Communications.
		2. Section 28 13 53.10 - Security Video Intercom System.
	3. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. American National Standards Institute (ANSI/TIA/EIA) 568 - Commercial Building Telecommunications Cabling Standard.
		2. International Organization for Standards (ISO) 9001:2000 - Quality Management Systems - Requirements.
	1. SYSTEM DESCRIPTION
		1. The system shall be hard wired and constructed with a 2-line communication system and a 2-line video system. The system is designed with video trunk lines from the video bus control unit and communication trunk lines that use a distribution point from a bus control unit. System shall be ADA compliant. System shall allow for CCTV integration. Systems with audio only components shall be configurable.

\*\* NOTE TO SPECIFIER \*\* Edit the system description as required for the project. Consult Aiphone Corporation for more information.

* + 1. Functional Components:
			1. Entrance stations.
			2. Tenant stations.

\*\* NOTE TO SPECIFIER \*\* Option. Delete if not required.

* + - 1. Interior tenant stations (sub-stations).

\*\* NOTE TO SPECIFIER \*\* Option. Delete if not required.

* + - 1. Manager's station.

\*\* NOTE TO SPECIFIER \*\* Option. Delete if not required.

* + - 1. Concierge stations.

\*\* NOTE TO SPECIFIER \*\* Option. Delete if not required.

* + - 1. Tenant entry door stations.

\*\* NOTE TO SPECIFIER \*\* Access control system and CCTV system may require custom software programs, not provided by Aiphone Corporation. Delete components options not required.

* + - 1. Tenant suite security system.
			2. CCTV system.
			3. Access control system.

\*\* NOTE TO SPECIFIER \*\* Provide number of units required. Delete if schematic with number of units required is indicated on the drawings.

* + 1. System Requirement: Unless noted otherwise on drawings provide system size as follows.

\*\* NOTE TO SPECIFIER \*\* Maximum of 16. Provide number of units required.

* + - 1. Entrance stations:

\*\* NOTE TO SPECIFIER \*\* Maximum of 500. Provide number of units required.

* + - 1. Tenant stations (master):

\*\* NOTE TO SPECIFIER \*\* Maximum of 3 sub-stations including tenant door station with each master. Provide number of units required. Delete if not required.

* + - 1. Interior tenant stations (sub-stations):

\*\* NOTE TO SPECIFIER \*\* Maximum of 4 manager and concierge stations. Provide number of units required. Delete if not required.

* + - 1. Manager's station:

\*\* NOTE TO SPECIFIER \*\* Maximum of 4 manager and concierge stations. Provide number of units required. Delete if not required.

* + - 1. Concierge stations:

\*\* NOTE TO SPECIFIER \*\* Provide number of units required. Delete if not required.

* + - 1. Tenant entry door stations: Refer to drawing schedule for units requiring suite entry door stations.

\*\* NOTE TO SPECIFIER \*\* Provide number of units required. Delete if not required.

* + - 1. Tenant suite security system. Refer to drawing schedule for units requiring suite security.

\*\* NOTE TO SPECIFIER \*\* Provide number of input units required. CCTV system may require custom software programs, not provided by Aiphone Corporation. Delete components options not required.

* + - 1. CCTV system Inputs:

\*\* NOTE TO SPECIFIER \*\* Provide description of operation critical to performance of system.

* + 1. Operation:
			1. Calling Tenant Station from Entry Station and Communicating.
			2. Calling Tenant Station from Sub-master Tenant Station and Communicating.
			3. Calling Tenant Station from Manager/Concierge Station and Communicating.
			4. Activating Door Release from Entry, Tenant Station and Manager/Concierge Stations.
	1. SUBMITTALS
		1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
		2. Product Data: Manufacturer's data sheets on each product to be used, including:
			1. Preparation instructions and recommendations.
			2. Storage and handling requirements and recommendations.
			3. Installation methods.
		3. Shop Drawings: Submit the following:
			1. Wiring Diagrams: Indicate wiring for each item of equipment and interconnections between items of equipment.
			2. Include manufacturer's names, model numbers, ratings, power requirements, equipment layout, device arrangement, complete wiring point-to-point diagrams, and conduit layouts.
		4. Installation and Operation Manuals:
			1. Submit manufacturer's installation and operation manual, including operation instructions and component wiring diagrams.
			2. Provide detailed information required for Owner to properly operate equipment.
		5. Warranty: Submit manufacturer's standard warranty.

\*\* NOTE TO SPECIFIER \*\* Delete selection samples if colors have already been selected.

* + 1. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
		2. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, color, and patterns.
	1. QUALITY ASSURANCE
		1. Manufacturer Qualifications: ISO 9001:2008 certified company.
		2. Installer Qualifications: Factory trained and experienced with system installations of scope and size required for the Project.

\*\* NOTE TO SPECIFIER \*\* Include a mock-up if the project size and/or quality warrant taking such a precaution. The following is one example of how a mock-up on a large project might be specified. When deciding on the extent of the mock-up, consider all the major different types of work on the project.

* + 1. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
			1. Finish areas designated by Architect.
			2. Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect.
			3. Refinish mock-up area as required to produce acceptable work.
	1. DELIVERY, STORAGE, AND HANDLING
		1. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
		2. Storage: Store materials in clean, dry area indoors in accordance with manufacturer's instructions.
		3. Handling: Protect materials during handling and installation to prevent damage.
	2. PROJECT CONDITIONS
		1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.
1. PRODUCTS
	1. MANUFACTURERS
		1. Acceptable Manufacturer: Aiphone Corp., which is located at: 6670 185th Ave. NE; Redmond, WA 98052 ; Toll Free Tel: 800-692-0200; Tel: 425-455-0510; Fax: 425-455-0071; Email: [request info (john@aiphone.com)](http://admin.arcat.com/users.pl?action=UserEmail&company=Aiphone+Corp.&coid=30204&rep=&fax=425-455-0071&message=RE:%20Spec%20Question%20(13711aic):%20%20&mf=); Web: [www.aiphone.com](http://www.aiphone.com)

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
		2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.
	1. MULTI-TENANT ENTRY SECURITY SYSTEM
		1. Multi-Tenant Color Video Entry Security System: Aiphone "GT Series" as manufactured by Aiphone Corporation.
		2. Entrance Stations:
			1. Provide 170 degree Pan Tilt & Zoom video camera, built-in access code keypads for keyless entry, CCTV system integration and concierge visitor screening.

\*\* NOTE TO SPECIFIER \*\* Delete entry panel not required.

* + - 1. Entrance Panel: "All-in-one" Model GT-DM (Guidance-enabled type).
				1. Audio & Video.
				2. Access Control.
				3. Directory Scroll.
				4. LCD may be set to Energy Saver mode.
				5. Motion Sensor auto activates LCD when in Energy Saver mode.
				6. Voice Annunciation.

\*\* NOTE TO SPECIFIER \*\* Modular entry components customized to need. Provide "types" if required to differentiate between functional types. Delete if not required.

* + - 1. Entrance Panel: Model GT. Provide modular units with the following functional modules, corresponding panels, hardware and fittings.

\*\* NOTE TO SPECIFIER \*\* Example Modular Entry components customized to need. Delete type not required.

* + - * 1. Type: Audio/video + 10 key type.
				2. Type: Audio/video + direct select type.
				3. Type: Audio + direct select type.
				4. Type: Audio + 10 key type.
				5. Type: Custom with the following functions.

Audio Access Control.

Video Access Control.

Voice Annunciation.

Digital Display Keypad.

Name Panels.

Address Panels.

* + 1. Tenant Station:

\*\* NOTE TO SPECIFIER \*\* Full Featured Tenant Stations Up to 4 units per tenant with internal communication. Only GT-2C station only that supports internal communication. For internal communication, use the GT-2C and GT-2H. Delete if not required.

* + - 1. Station Panel: Model GT-2C.
				1. Record visitor images automatically.
				2. Communicate internally between stations.
				3. Up to 4 units per tenant using only one power supply (1 GT-2C & 3 GT-2H).
				4. May be used with Tenant Door Stations to replace peephole identification.
				5. Pan Tilt & Zoom camera control.
				6. Video identification.
				7. Talk with visitors.
				8. Unlock doors.
				9. Instant communication with concierge stations.

\*\* NOTE TO SPECIFIER \*\* Delete option if not required.

* + - * 1. Provide Suite Security:

Dual zone alarm inputs for security devices, such as window and door contacts or personal wireless pendants.

Auto-alert to concierge station when alarm is triggered.

Disarm and arm suite security from tenant station panel.

Loud siren to alert tenants and scare away potential threats.

\*\* NOTE TO SPECIFIER \*\* For noisy environments or to add privacy. Delete option if not required.

* + - * 1. Provide handset.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide sub-master(s) as scheduled. Model GT-2H.

\*\* NOTE TO SPECIFIER \*\* Up to 2 video stations and 2 audio stations per tenant. For internal communication, use the GT-2C and GT-2H. Delete if not required.

* + - 1. Station Panel: Model GT-1C.
				1. Pan Tilt & Zoom camera control.
				2. Video identification.
				3. Talk with visitors.
				4. Unlock doors.
				5. Instant communication with concierge stations.

\*\* NOTE TO SPECIFIER \*\* For noisy environments or to add privacy. Delete option if not required.

* + - * 1. Provide handset.

\*\* NOTE TO SPECIFIER \*\* Up to 2 video stations and 2 audio stations per tenant. For internal communication, use the GT-2C and GT-2H. Delete if not required.

* + - 1. Station Panel: Model GT-1M-L.
				1. Video identification.
				2. Talk with visitors.
				3. Unlock doors.
				4. Instant communication with concierge stations.

\*\* NOTE TO SPECIFIER \*\* Up to 4 audio stations per tenant. For internal communication, use the GT-2C and GT-2H. Delete if not required.

* + - 1. Station Panel: Model GT-1D.
				1. Talk with visitors.
				2. Unlock doors.
				3. Instant communication with concierge stations.

\*\* NOTE TO SPECIFIER \*\* Up to 4 audio stations per tenant. For internal communication, use the GT-2C and GT-2H. Delete if not required.

* + - 1. Station Panel: Model GT-1A.
				1. Hands-free control.
				2. Talk with visitors.
				3. Unlock doors.
				4. Instant communication with concierge stations.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Concierge/Manager's Station:
			1. Provide visitor screening.
			2. Provide tenants with ability to easily call Concierge/Manager's Station from units for emergency assistance.
			3. Station Panel: Model GT-MK.

\*\* NOTE TO SPECIFIER \*\* Delete mount not required.

* + - 1. Mount: Wall mount.
			2. Mount: Desk mount.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Tenant Door Station:
			1. Provide visitor screening with 170 degree camera.

\*\* NOTE TO SPECIFIER \*\* Delete model not required.

* + - 1. Station Panel: Model JK-DA.
			2. Station Panel: Model JK-DVF.
			3. Station Panel: Model JK-DV.
			4. Station Panel: Model GT-D ( Audio Only).
		1. Bus Controller Components and Mounting Hardware:
			1. Bus Control Unit: Model GT-BC.
			2. Video Bus Control Unit: Model GT-VBC.
			3. Expanded Bus Control Unit: Model GT-BCX.
			4. Expanded Video Bus Control Unit: Model GT-VBX.
			5. 4-Way Video Junction Unit: Model GT-4Z.
			6. Power Supply: Model PS-2420UL.
			7. External Signal relay: Model GT-RY.
			8. Frames and back boxes for surface and flush mount as required.
1. EXECUTION
	1. EXAMINATION
		1. Examine areas to receive integrated security and communication system.
		2. Notify Architect of conditions that would adversely affect installation or subsequent use.
		3. Do not begin installation until unacceptable conditions are corrected.
	2. PREPARATION
		1. Verify the following compliance before starting installation.
			1. All units, except for the entrance station and tenant door station, are designed for indoor use only. Do not use outdoors.
			2. The unit turns inoperative during power failure.
			3. In areas where broadcasting station antennas are close by, intercom system may be affected by radio frequency interference.
			4. Keep the intercom wires at least 1 foot (30 cm) away from strong electrical wiring (AC 100-240 V) including, in particular, wiring for inverter electrical appliances. Noise and malfunction could result.
			5. Keep the unit more than 3.3 feet (1 m) away from radio or TV set.
			6. If a strong light shines on the main unit screen, the picture will turn white or only silhouettes will be visible.
			7. Other manufacturer's devices (such as sensor, detectors, door releases) used with this system, comply with the manufacturer's installation requirements.
			8. The LCD panel is manufactured with very high precision techniques, inevitably will have a very small portion of its picture elements always lit or not lit at all. This is not considered a unit malfunction. Please be aware of this in advance.
			9. The sensor of an entrance station (Integrated type) may activate due to moving shadows or moving tree branches, etc. and cause a message to display.
	3. INSTALLATION
		1. Install integrated security and communication system in accordance with manufacturer's instructions at locations indicated on the Drawings.
		2. Mount equipment plumb, level, square, and secure. For video entrance stations and video door stations, comply with manufacturer's design requirements to provide optimum picture quality of station monitoring.
	4. SET-UP AND ADJUSTING
		1. Adjust integrated security and communication system for proper operation in accordance with manufacturer's instructions.
	5. DEMONSTRATION AND TRAINING
		1. Demonstration:
			1. Demonstrate that integrated security and communication system functions properly.
			2. Perform demonstration at final system inspection by qualified representative of manufacturer.
		2. Instruction and Training:
			1. Provide instruction and training of Owner's personnel as required for operation of integrated security and communication system.
			2. Provide hands-on demonstration of operation of system components and complete system, including user-level program changes and functions.
			3. Provide instruction and training by qualified representative of manufacturer.
	6. PROTECTION
		1. Protect installed integrated security and communication system from damage during construction.

END OF SECTION