

Pro-Alert™ 610 Nurse Call System
VERSION 1.3



Guideline Specifications



GS012103

INSTRUCTIONS FOR USE:

Section 1. GENERAL PROVISIONS

Use this section in its entirety adding comments as required to ensure that the specific needs of the projects are met.

Section 2. DESCRIPTION OF SYSTEM

Read and include all comments pertinent to the project. Delete information that does not apply and add special application comments where required.

Section 3. SYSTEM OPERATION

Read and include all statements referring to equipment specified.

Section 4. EQUIPMENT

Read and include all paragraphs pertaining to the equipment to be used on the project.

Section 5. TRAINING OF PERSONNEL

Use this section in its entirety.

1.0 GENERAL PROVISIONS

- 1.1 The contractor shall furnish and install all equipment, accessories and materials necessary for a complete system in accordance with specifications and applicable drawings.
- 1.2 The equipment furnished under this specification shall be the standard product of one manufacturer and shall be equal in performance and quality to that manufactured by Jeron Electronic Systems.
- 1.3 All components and the system as a whole shall meet or exceed the minimum standards issued by the EIA. All work in conjunction with this installation shall meet the provisions of the National Electrical Code and other applicable codes.
- 1.4 The system shall conform to the current NFPA standards and shall be listed as a total system by the Underwriter's Laboratories, Inc. Listing shall be under NBRZ Hospital Signaling and Nurse Call Equipment, conforming to UL 1069 - 1992 standards. Proof of such listings shall be made by submitting the U.L. listing cards describing the equipment by model number, with the bid documents. Alternate manufacturers shall submit the listing cards as part of prior approval, ten (10) days before the bid date.
- 1.5 Each major component shall bear the manufacturer's name, catalog number and U.L. label.
- 1.6 Alternate equipment shall be considered only when the following have been submitted and approved in writing by the architect-engineer ten (10) days prior to opening of bid: A list of such alternate equipment and materials, together with three (3) copies of working and shop drawings.

A SPECIFICATION GUIDE FOR THE JERON PRO-ALERT™ 610 TONE VISUAL NURSE CALL SYSTEM

The base bid shall be on the equipment as specified. Alternate equipment must be so noted on a separate bid form with an add or deduct to the base bid.

- 1.7 The contractor shall be responsible for providing a complete functional system including all necessary components, whether included in this specification or not.
- 1.8 The contractor shall guarantee availability of local service by factory-trained personnel from an authorized distributor of the equipment manufacturer. The distributor shall have available a stock of the manufacturer's standard parts. On-the-premises maintenance shall be provided at no cost to the purchaser, for a period of twelve (12) months from date of completion of installation, unless damage or failure is caused by misuse, abuse, neglect or accident.
- 1.9 On-the-premises demand service at other than normal working hours shall also be available and may be charged for by the manufacturer's distributor at the prevailing labor rates.

2.0 DESCRIPTION OF SYSTEM

The system shall be a Jeron Pro-Alert 610 Tone Visual or approved equal. Operation shall be accomplished simply and easily with little or no training. All operations shall be initiated by activating a single touchpoint. Systems requiring shift keys or the simultaneous operation of two buttons shall not be acceptable. The system shall be multiplexed (for Zone and Duty Stations), microprocessor-controlled, of modular design and shall provide the following features and functions:

- 2.1 Multiplexed communications shall be utilized for all Zone Lights and Duty Stations. Wiring between Zone Lights/Duty Stations and Main Equipment shall use a maximum of two (2) circulating twisted pair cables. Systems requiring point-to-point wiring or home run cables for Zone/Duty Station wiring shall not be acceptable.
- 2.2 Signaling between Nurse Master Station(s) and patient rooms or Staff Stations.
- 2.3 Alpha Numeric Digital display of incoming calls at the Nurse Master Station.
- 2.4 Incoming calls displayed by room number and call type with automatic arrangement of calls by priority and time of placement. Tone Visual systems without alpha numeric digital display of the highest priority call shall not be acceptable.
- 2.5 Simultaneous LED display of up to two hundred fifty (250) calls.
- 2.6 Fully equipped for up to three unique LED call-in rates with three unique call-in tones. In addition, fully equipped for LCD display in English of up to seventeen (17) call messages with automatic

A SPECIFICATION GUIDE FOR THE JERON PRO-ALERT™ 610 TONE VISUAL NURSE CALL SYSTEM

sequencing: Code, Fire Alarm, Emergency, Alarm, Door Alarm, Bath, Staff Emer, Priority, Urgent, Stat, Psych, Staff, Dining Rm, Cordout, Duty, Routine, Normal.

- 2.7 Seventeen (17) Programmable Call Displays for each room with three (3) levels of call priority.
- 2.8 Water/disinfectant-resistant membrane touchpad on the Nurse Master Station.
- 2.9 Ability to operate up to four (4) Nurse Master Stations in either independent or combined mode.
- 2.10 On-site programming of the following functions using a Program Keyboard:
 - a. Facility Name
 - b. Nurse Master Station Identification and Ward Name
 - c. Printer Enable
 - d. Night Transfer Enable
 - e. Emergency-Only Enable of Nurse Master, Zone and Duty Stations
 - f. Duty Area Identification
 - g. Zone Area Identification
 - h. Overtime Duration
 - i. Dome Light Colors
 - j. Cord Removal Call type
 - k. Radio Pocket Page Enable
 - l. Room Numbers and Bed Designators
 - m. Room Station to Nurse Master Station Assignments
 - n. Room Station to Duty Area Assignments
 - o. Room Station to Zone Area Assignments
 - p. Room Station to Radio Pocket Page Assignments
 - q. Room Station Master Display Fields
 - r. Radio Pocket Page Special Groups

All of the above On-Site Programmable functions, shall be stored in non-volatile memory and shall not require any additional components and/or wiring changes. Systems with volatile memory requiring battery back-up shall not be acceptable.

- 2.12 Automatic overtime re-sounds for Routine and Urgent calls. This overtime reminder shall be user-programmable for between zero (0) and nine (9) minutes.
- 2.13 Entertainment receptacle(s) on Patient Stations (6124/6125 only) allowing the use of a wide range of callcords and pillow speakers.
- 2.14 Ability to interface to smoke detectors to provide redundant annunciation on the Pro-Alert 610 System. Full isolation of the fire alarm system from the Pro-Alert 610 System shall be provided.
- 2.15 Full operation during power failure utilizing battery backup power supply (optional).

A SPECIFICATION GUIDE FOR THE JERON PRO-ALERT™ 610 TONE VISUAL NURSE CALL SYSTEM

- 2.16 All solid-state plug-in modular construction.
- 2.17 Single touchpoint operation of all system functions.
- 2.18 The system shall be supervised for wiring faults between the central equipment panel and each room station (patient, staff/duty) with no additional equipment. Systems requiring additional equipment shall not be acceptable.
- 2.19 An Electrical Supervision Station shall be provided which continuously monitors the power condition of the system and instantly activates a visual and audible indication of any power problem or ground fault. (optional)
- 2.20 Provisions for including optional features/functions by simply installing the appropriate system components. Software changes or special software shall not be required.
- 2.21 Provisions for interfacing with a Pocket Page system through the Computer/Data Interface, providing the following features:
 - a. Automatic mode setting which transmits pages with no operator intervention.
 - b. Automatic page on **CODE** calls to special pager group.
 - c. Automatic page of all system diagnostic calls to a special pager group.
 - d. Automatic page of all calls placed from rooms not assigned a separate pager number to a special pager group.
 - e. Individual software programmable patient/pager assignment for up to 250 room terminals in system.
 - f. Programmable pager assignment utilizing direct pager identity number.
- 2.22 Provisions for capturing another Nurse Master Station in the same Pro-Alert 610 System.
- 2.23 Provision for Computer/Data Interface unit to allow interfacing with serial printer, video display terminal, computer with Jeron Nurse Call Executive Information System installed, radio paging terminal or other serial data device.

3.0 SYSTEM OPERATION

The specified Jeron Pro-Alert 610 System shall operate in the following manner:

3.1 PATIENT STATION - ROUTINE LEVEL CALL

Routine level calls shall be originated at the Patient Station by momentarily depressing the **CALL** button on the patient's pillow speaker or callcord. This action shall cause the following to occur:

- a. The **CALL PLACED** indicator on the Patient Station shall illuminate.

A SPECIFICATION GUIDE FOR THE JERON PRO-ALERT™ 610 TONE VISUAL NURSE CALL SYSTEM

- b. The corridor dome light and associated zone lights shall illuminate steady white.
- c. **ROUTINE** call placed indicator shall light, accompanied by a routine level alert tone, at the appropriate Duty Station(s).
- d. A routine level alert tone shall sound once every 5 seconds at the Nurse Master Station. The LED for the patient's room and the **ROUTINE** call placed indicator shall illuminate at the Nurse Master Station. The patient's room number and the preprogrammed routine level call message shall be displayed on the Nurse Master Station(s) LCD.

Routine level patient calls shall only be canceled at the calling station. It shall not be possible to cancel routine level patient calls by any other means.

3.2 PATIENT STATION – CORDOUT URGENT LEVEL CALL

Urgent level calls shall be originated at the Patient Station whenever a callcord or a pillow speaker plug is loosened or removed. This action shall cause the following to occur:

- a. The **CALL PLACED** indicator on the Patient Station shall illuminate.
- b. The corridor dome light and associated zone lights shall slow flash white.
- c. The **URGENT** call placed indicator shall flash, accompanied by an urgent level alert tone, at the appropriate Duty Station(s).
- d. An urgent alert tone shall sound once every second at the Nurse Master Station. The LED for the patient's room and the **URGENT** call placed indicator shall flash at the Nurse Master Station. The patient's room number and the preprogrammed cordout level call message shall be displayed on the Nurse Master Station(s) LCD taking precedence over all calls of lower priority.

Urgent level patient calls shall only be canceled at the calling station. It shall not be possible to cancel urgent level patient calls by any other means.

3.3 CALLS FROM BATH STATIONS, PUSHBUTTON TYPE

Activating the switch on a Bath Station shall cause the following to occur:

- a. The call placed indicator on the Bath Station shall illuminate steady to assure the patient that his call has been properly placed.
- b. The corridor dome light and associated zone lights shall flash at the urgent rate.
- c. The **URGENT** call placed indicator shall flash, accompanied by an urgent level alert tone, at the appropriate Duty Station(s).
- d. An urgent level alert tone shall sound once every second at the Nurse Master Station. The LED for the patient's room and the **URGENT** call placed indicator shall flash at the Nurse Master Station. The patient's room number and the preprogrammed urgent level call message shall be displayed on the Nurse Master Station(s) LCD taking precedence over all calls of lower priority.

It shall be possible to cancel bath calls only by resetting at the calling station. It shall not be possible to cancel bath calls by any other means.

3.4 CALLS FROM BATH/PATIENT STATIONS, PULLCORD TYPE

Pulling the cord from any angle on a Bath Station shall originate an urgent level bath call. This action shall activate the same sequence that occurs when originating a bath call from a pushbutton type Bath Station.

It shall be possible to reset bath calls only by sliding the reset switch upwards at the calling station. It shall not be possible to cancel bath calls by any other means.

3.5 CALLS FROM STAFF STATIONS

Routine level staff calls shall be originated at the Staff Station by momentarily depressing the CALL button. This action shall activate the same sequence that occurs when originating a routine level patient call.

Staff calls shall only be canceled at the calling station. It shall not be possible to cancel staff calls by any other means.

3.6 CALLS FROM STAFF EMERGENCY STATIONS

Activating the switch on a Staff Emergency Station shall cause the following to occur:

- a. The call placed indicator on the Staff Emergency Station shall illuminate steady to indicate that the call has been properly placed.
- b. The corridor dome light and associated zone lights shall flash at the urgent rate.
- c. The **URGENT** call placed indicator shall flash, accompanied by an urgent level alert tone, at the appropriate Duty Station(s).
- d. An urgent level alert tone shall sound once every second at the Nurse Master Station. The LED for the patient's room and the **URGENT** call placed indicator shall flash at the Nurse Master Station. The patient's room number and the preprogrammed urgent level call message shall be displayed on the Nurse Master Station(s) LCD taking precedence over all calls of lower priority.

It shall be possible to cancel staff emergency calls only by resetting at the calling station. It shall not be possible to cancel staff emergency calls by any other means.

3.7 CALLS FROM CODE STATIONS

Activating the switch on a Code Station shall cause the following to occur:

- a. The call placed indicator on the Code Station shall illuminate steady to indicate that the call has been properly placed.
- b. The corridor dome light and associated zone lights shall flash at the emergency rate.
- c. **EMERGENCY** call placed indicator shall flash, accompanied by an emergency level alert tone, at the appropriate Duty Station(s).
- d. An emergency alert tone shall sound at the Nurse Master Station. The LED for the patient's room shall flash continuously, and the **EMERGENCY** call placed indicator shall flash at the Nurse Master Station. The patient's room number and **CODE** call message shall be displayed on the Nurse Master Station(s) LCD taking precedence over all calls of lower priority.

It shall be possible to cancel code calls only by resetting at the calling station. It shall not be possible to cancel code calls by any other means.

3.8 ZONE LIGHTS

Zone Lights shall provide visual signals to annunciate any call placed from a station which has been programmed to report to that Zone Light. Visual zone light annunciation shall be identical to dome light color and sequence and shall remain illuminated until calls are canceled from system.

It shall be possible to program individual Zone Lights to receive emergency level calls only. The selection of zones shall be programmable and shall be software controlled. Zone Lights that require wiring to program zones shall not be acceptable.

3.9 DUTY STATIONS

The Duty Station shall provide visual and audible signals to annunciate any call placed from a station which has been programmed to report to that Duty Station. Visual signals shall remain illuminated until all calls are canceled from the system. The tone associated with incoming calls shall sound for the highest priority call. It shall be possible to cancel the tones sounding at the Duty Station by pressing the **TONE SILENCE** button.

The selection of duty areas shall be programmable and shall be software controlled. Duty Stations that require wiring to program duty areas or do not visually indicate all call priority levels shall not be acceptable.

3.10 CALL STORAGE

All calls placed on a system of up to two hundred fifty (250) rooms shall be displayed at the same time on the Nurse Master Station console. The Nurse Master Station LCD shall display a single call in order of priority and/or time placed.

3.11 SUPERVISED SYSTEM OPERATION

The Pro-Alert 610 System shall be installed as a supervised system, and the following functions shall be provided:

- a. Instantaneous notification of wiring faults between the Main Control and any room station or Nurse Master Station. The room number of the station with the wiring problem shall annunciate at the Nurse Master Station.
- b. An Electrical Supervision Station shall be provided which constantly monitors the power supply of the system and immediately indicates any power failure or low voltage condition. Both a visual and audible indicator shall be provided. It shall be possible to silence the tone by pressing the **TONE SILENCE** button.
- c. The Electrical Supervision Station shall monitor the system for Master fail or room station fail condition. Both visual and audible indicator shall be provided. It shall be possible to silence the tone by pressing the **TONE SILENCE** button.
- d. A building ground monitor unit shall be provided as part of the Electrical Supervision Station which constantly monitors the system for shorts between building ground and any conductor. Both visual and audible indication of a building ground short shall be provided. It shall be possible to silence the tone by pressing the **TONE SILENCE** button.

3.12 POCKET PAGE OPERATION

The Pro-Alert 610 System shall function in the same manner whether or not the Pocket Page feature is used.

In the Automatic mode it shall be possible to activate a pager by simply placing a call on the system. This single action shall cause the following to occur:

- a. Incoming calls shall continue to annunciate in the normal manner at the Nurse Master Station.
- b. The Pocket Page receiver assigned to the calling patient shall automatically be accessed when a call is placed.
- c. The Pocket Page receiver, with alpha-numeric capability, shall display the room number of the calling patient, an English word indicating the priority of the call, and shall emit a tone signal.

3.13 POCKET PAGE MISCELLANEOUS FUNCTIONS

A. AUTOMATIC CODE GROUP

It shall be possible to assign a separate Code Group pager number which shall automatically be transmitted in the event a code call is placed on a room station. This transmission shall be independent of any other room to pager assignment.

B. DIAGNOSTIC CALLS GROUP

It shall be possible to assign a Diagnostic Call Group pager number which shall automatically be transmitted in the event a diagnostic call is placed on the system.

C. UNASSIGNED ROOMS GROUP

It shall be possible to assign a separate Unassigned Rooms pager number which shall automatically be transmitted in the event a call is placed from a room which has not been assigned a separate pager number.

3.14 NIGHT TRANSFER (SYSTEM CAPTURE)

The Pro-Alert 610 System shall function in the same manner whether or not the Night Transfer feature is used. When utilized, the system shall provide two (2) modes of operation:

A. DAY MODE

Each independent Nurse Master Station, in a multi-master system, shall annunciate all calls from the room stations reporting to it.

B. NIGHT MODE

It shall be possible, in a multi-master system, for one Nurse Master Station to capture other Nurse Master Station(s). The capturing console shall be the control station. All calls from captured systems shall display on the control Nurse Master Station LCD. Any operations or features not specifically mentioned shall be the same as for the Pro-Alert 610 System with Nurse Master Stations operating individually.

3.15 COMPUTER/DATA INTERFACE UNIT

Two RS232C ports shall be provided to allow interfacing with a serial printer, video display terminal, computer with Jeron Nurse Call Executive Information System installed, radio paging terminal or other serial data device. All system activity shall be transmitted in standard ASCII code.

It shall be possible to select which Nurse Master Station(s) shall report activity to the Computer/Data Interface.

A. PORT J1

It shall be possible to user-select one of three (3) modes of operation:

1. **Elapsed Time Mode:** No information on a particular call/event is transmitted until the transaction is complete. The first time listed for any transaction shall be the real time of day and date on the Computer/Data Interface. All subsequent times of event(s) shall be elapsed time relative to the time of the first event.
2. **Continuous Time Mode:** Information on each particular call/event is transmitted as soon as the activity occurs. Date, time, location, and call/event type are printed/displayed.
3. **Jeron Nurse Call Executive Information System:** It shall be possible to interface with a computer equipped with the Jeron Nurse Call Executive Information System to generate system management reports.

A SPECIFICATION GUIDE FOR THE JERON PRO-ALERT™ 610 TONE VISUAL NURSE CALL SYSTEM

It shall be possible to user designate whether the printer, video display terminal, computer with Jeron Nurse Call Executive Information System installed, or other serial data device shall respond to all system activity or Emergency-Only Call Activity.

B. PORT J2

It shall be possible to user-select one of two (2) modes of operation:

1. **CONTINUOUS TIME MODE**
Information on each particular call/event is transmitted as soon as the activity occurs. Date, time, location and call/event type are printed/displayed.
2. **POCKET PAGE INTERFACE**
It shall be possible to interface with a pocket page system (i.e. Motorola etc...) through the port J2 without requiring any additional hardware or software change. This pocket page interface shall operate as described in section 3.12.

4.0 EQUIPMENT

To provide the preceding features and functions, the following equipment shall be provided:

4.1 The Pro-Alert 610 System Nurse Master Station shall be expandable in increments of fifty (50) LEDs. The first fifty (50) calling stations shall utilize a Model 6165 Nurse Master. Subsequent groups of fifty (50) calling stations shall utilize Model 6166 Extender Master(s). Model 6165 Nurse Master LCD shall display calls from all room stations reporting to it.

1. The Nurse Master shall be an Pro-Alert 610 System Model 6165 or approved equal, and shall provide the following features:
 - a. Sixteen (16) Character LCD
 - b. Fifty (50) Red LED Indicators
 - c. Three (3) Call Priority Level LED Indicators
 - d. **TONE SILENCE** Touchpoint
 - e. **SYSTEM CAPTURE** Touchpoint
2. The Extender Master shall be Pro-Alert 610 Model 6166 and shall provide the following features:
 - a. Fifty (50) Red LED indicators

The Pro-Alert 610 Nurse Master Station shall be microprocessor-controlled, of modular design, and shall provide the following features and functions:

- a. Models 6165 and 6166 shall be housed in a white colored plastic cabinet of high-impact, flame-retardant plastic, which shall incorporate a moisture-resistant membrane control with clearly indicated touchpoints.
- b. Operation shall be accomplished simply and easily with little or no training. All operations shall be initiated by activating a single touchpoint on the Model 6165. Systems requiring shift keys or the simultaneous operation of two buttons shall not be acceptable.
- c. Room Station LEDs shall be identified by a paper label strip protected by a clear acrylic lens.

All calls from patients and staff shall be individually annunciated at the Nurse Master Station at one time. The calls shall also individually annunciate on the 6165 Nurse Master Station LCD by room number and

A SPECIFICATION GUIDE FOR THE JERON PRO-ALERT™ 610 TONE VISUAL NURSE CALL SYSTEM

priority, and shall be selected automatically for display by priority or time of call placement. Subsequent high priority calls shall automatically move ahead of lower priority calls.

A tone signal at the 6165 Nurse Master Station shall alert the operator to an incoming patient call. Room numbering shall be programmable.

The Nurse Master Station shall have the capability of displaying the following call messages:

- a. Fire Alarm
- b. Emergency
- c. Code
- d. Staff Emer
- e. Bath
- f. Alarm
- g. Cord Out
- h. Psych
- i. Door Alarm
- j. Staff
- k. Duty
- l. Stat
- m. Priority
- n. Urgent
- o. Normal
- p. Dining Rm
- q. Routine

4.2 MAIN CONTROL UNIT

The Main Control Unit shall be a Pro-Alert 610 System microprocessor-based model 6150 Main Control (Standard) or 6153 Main Control with Battery Backup or approved equal and shall be indicated on the plans. The Main Control Unit shall be modular in construction and shall provide quick disconnect circuitry for switching, storing, programming, reviewing, signaling and interconnecting system components. In the event of power failure, the 6153 Main Control equipped with battery backup shall provide full operation during the time (up to 15 minutes) required for the hospital to switch to auxiliary power.

It shall be possible to reprogram room numbers in non-volatile memory . It shall not be necessary to change components or order new programming from the factory to accomplish these changes. All programmable information entered from the Nurse Master Station, (i.e. room number, bed number, and station designations) shall be programmed in non-volatile memory. Systems requiring back-up battery to retain memory shall not be acceptable.

4.3 BEDSIDE PATIENT STATIONS

Patient Stations shall be Pro-Alert 610 System Model(s) 6121/6123 (Single and Dual Patient Universal Call Cord Receptacle), 6124/6125 (Single and Dual Patient Entertainment Receptacle), or 6132 (Single Patient Pullcord), or approved equal, which shall provide the following facilities:

- a. **CALL PLACED** Indicator.
- b. Momentary Action **CANCEL** button (6121/6123/6124/6125 only).
- c. Universal Call Cord Receptacle(s) designed to accept standard cord sets (6121/6123 only).
- d. Entertainment Receptacle designed to accept pillow speakers (6124/6125 only).
- e. A safety switch which automatically places a call when a callcord or pillow speaker is removed (6121/6123/6124/6125 only).
- f. Pullcord (6132 only).

A SPECIFICATION GUIDE FOR THE JERON PRO-ALERT™ 610 TONE VISUAL NURSE CALL SYSTEM

- g.** Sliding reset switch (6132 only). Control circuits and indicators shall be all-solid-state for reliable operation; no mechanical devices requiring periodic maintenance shall be employed. Patient Stations shall be manufactured of high-impact flame retardant molded ABS plastic in accordance with UL 1069 - 1992 requirements, except for 6132 (stainless steel faceplate). The Patient Station shall mount in a standard one gang electrical box.

4.4 BATH STATIONS

The Bath Stations shall be Pro-Alert 610 System Model 6132 Pullcord Station, 6146 Pushbutton Station, or approved equal, and shall provide the following features:

- a.** Call placed indicator.
- b.** Pushbutton (6146 only).
- c.** Pullcord (6132 only).
- d.** Reset switch (6132 only).
- e.** label: **PULL FOR HELP** (6132 only).
PRESS FOR HELP (6146 only).

Bath Stations shall mount in standard one (1) gang electrical box.

4.5 6158 PULLCORD SHOWER STATIONS

The Pullcord Shower Stations shall be Pro-Alert 610 System Model 6158 Pullcord Shower Station or approved equal, and shall provide the following features:

- a.** Call placed indicator.
- b.** Pullcord.
- c.** label: **PULL FOR HELP**.

Stations shall mount in standard one (1) gang electrical box.

Pullcord Shower Stations shall utilize water proof construction and shall withstand direct water spray exposure without wetting of electrical parts.

4.6 STAFF EMERGENCY STATIONS

The Staff Emergency Stations shall be Pro-Alert 610 Model 6131 pushbutton type or approved equal, and shall provide the following features:

- a.** Call placed indicator.
- b.** Pushbutton.
- c.** label: **STAFF EMERGENCY**.

Staff Emergency Stations shall mount in standard one (1) gang electrical boxes.

4.7 CODE STATIONS

The Code Stations shall be Pro-Alert 610 system Model 6149 pushbutton type or approved equal, and shall provide the following features:

- a.** Call placed indicator.
- b.** Pushbutton.
- c.** label: **CODE**.

A SPECIFICATION GUIDE FOR THE JERON PRO-ALERT™ 610 TONE VISUAL NURSE CALL SYSTEM

Code Stations shall mount in standard one (1) gang electrical boxes.

4.8 STAFF STATIONS

Staff Stations shall be Pro-Alert 610 System Model 6110 or approved equal, and shall provide the following features:

- a. **CALL PLACED** indicator.
- b. Momentary action **CALL** button.
- c. Momentary action **CANCEL** button.

Staff Stations shall be the same size and of the same construction as the bedside Patient Stations.

4.9 DUTY STATIONS

Duty Stations shall be Pro-Alert 610 System Model 6417 or approved equal, and shall provide the following features:

- a. Three call placed indicators: **ROUTINE/URGENT/EMERGENCY**.
- b. Piezoelectric alert tone generator.
- c. Momentary action **TONE SILENCE** button.

Duty Station shall be of the same construction as the bedside Patient Stations.

4.10 CORRIDOR DOME LIGHTS

The Corridor Dome Lights shall be Pro-Alert 610 System series 8800 or approved equal, and shall consist of:

- a. A wedge shaped, temperature resistant translucent lens of even-glow polystyrene.
- b. A single gang trimplate complete with up to three colored lamps. The lens shall be snap fitted to the trimplate assembly to facilitate changing lamps without the use of tools.

4.11 ZONE LIGHTS

Zone Lights shall be Pro-Alert 610 System Model 6810 and provide the following features:

- a. A wedge shaped, temperature resistant translucent lens at even-glow polystyrene.
- b. A two gang trim plate complete with four colored lamps that fits one or two-gang backbox.

4.12 ELECTRICAL SUPERVISION STATION

Electrical Supervision Station shall be Pro-Alert 610 System Model 6818 or approved equal and shall provide the following features:

- a. **ROOM STATION FAILED** indicator.
- b. **MASTER/POWER FAILED** indicator.
- c. **GROUND FAULT** indicator.
- d. Momentary action **TONE SILENCE** button.
- e. Piezoelectric alert tone generator.

The Electrical Supervision Station shall mount in a standard single gang electrical box.

4.13 COMPUTER/DATA INTERFACE

The Computer/Data Interface shall be Pro-Alert 610 Model 6861 or approved equal. The 6861 Computer/Data Interface provides two RS232C interface ports. Ports shall be connected to serial printer, video display terminal, and radio paging terminal or computer with Jeron Nurse Call Executive Information System installed. When interfaced with the appropriate Pocket Page System, the interface (in conjunction with the Pro-Alert 610 System) shall provide the features as described in Section 3.10.

4.14 JERON NURSE CALL EXECUTIVE INFORMATION SYSTEM

Jeron Nurse Call Executive Information System shall be Jeron Model 6893. It shall automatically store Pro-Alert 610 Nurse Call activity data from connected systems on the hard drive of a Windows-based PC. Several reports shall be generated, and the user shall have the capability to enter certain data to customize the reports.

Refer to Jeron Nurse Call Executive Information System Guideline Specifications.

4.15 CALLCORDS

Callcord shall be Jeron Model 6833 (6 ft) or 6835 (10 ft) or approved equivalent. Callcords Model 6833/6835 shall be used in conjunction with Patient Stations Model 6124/6125. It shall be equipped with white thermoplastic pendant with momentary contact nurse call pushbutton and vinyl jacketed cord, electrostatic discharge protection, metal bed clip, strain relief at both ends, and 8-pin DIN plug.

Callcord shall be Jeron Model 8833 (6 ft) or 8835 (10 ft) or approved equivalent. Callcords Model 8833/8835 shall be used in conjunction with Patient Stations Model 6121/6123. It shall be equipped with white thermoplastic pendant with momentary contact nurse call pushbutton and vinyl jacketed cord, electrostatic discharge protection, metal bed clip, strain relief at both ends, and 1/4" plug.

4.16 DUMMY PLUGS

Dummy Plug shall be Jeron Model 6836 with molded white thermoplastic housing and 8-pin DIN connector. Dummy Plug Model 6836 shall optionally be used with Patient Stations Model 6124/6125 to prevent cordout calls.

Dummy Plug shall be Jeron Model 8836 with molded white thermoplastic housing and 1/4" Plug. Dummy Plug Model 8836 shall optionally be used with Patient Stations Model 6121/6123 to prevent cordout calls.

4.17 PILLOW SPEAKERS

Pillow Speakers shall be Jeron Model 6138/6139 or approved equal with molded white ABS plastic case, ABS plastic controls in contrasting color and an integral grill for the Alnico speaker/microphone. TV and nurse call buttons shall be clearly marked with TV and NURSE symbol, respectively, to avoid confusion. It shall be equipped with vinyl insulated cord with electrostatic discharge protection, strain relief at both ends, plated spring-type metal bed clip and molded plastic plug with 8-pin DIN connector.

4.18 MULTIGANG ADAPTER TRIMPLATE

It shall be possible to gang remote stations with modular plastic subplates in a common opening by means of Jeron 6802 Multi-gang Adapter Trimplate.

4.19 WALL MOUNTING

Nurse Master Stations shall be capable of surface wall mounting by using the Wall Bracket Jeron Model 6160.

5.0 TRAINING OF PERSONNEL

Nursing staff of the hospital as well as maintenance staff shall be thoroughly instructed in the use of the Pro-Alert 610 System by authorized distributor personnel. Such service shall be provided in conjunction with the nurse's call equipment.

5.1 The Nurse Call supplier shall provide instructions to the staff by means of an actual instructional system which shall be set up in the conference room or auditorium and allow hands on experience by the staff without disrupting the staff on duty. The instructional system shall consist of a Nurse Master Station, dual Patient Stations, staff, duty and emergency Stations and assorted call-in cordsets. The instructor shall demonstrate each function of the system with all lamps, screens and tones in operation. Maintenance instruction shall be performed in the same manner as described above.

5.2 Training shall include a minimum of three (3) hours per shift.