

Endeavor

Clinical Specifications

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West-Com Nurse Call Systems, Inc.
2200 Cordelia Road
Fairfield, CA 94534
Phone: (800) 761-1180
Fax: (707) 428-5941
www.westcall.com



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1. General:

- 1.1. The contractor shall furnish all equipment, accessories and material complete in strict accordance with specifications and applicable drawings as required for an electronic intercommunications system. The system will meet or exceed required states' health planning and development regulations, and state fire marshall building codes.
- 1.2. The equipment furnished under this specification shall be the standard product of one manufacturer and shall be provided by West-Com Nurse Call Systems. A catalog of designs and materials will be provided with the system. The supplier shall submit the manufacturer's complete service notes and drawings detailing all interconnections.
- 1.3. All equipment shall be UL listed as under NBRZ Hospital Signaling and Nurse Call Equipment, conforming to UL 1069 standards. Submitting the UL listing cards describing the equipment by model number shall be proof of such listing.
- 1.4. All items of equipment, including wire and cable, shall be manufactured and assembled in the United States and designed by the manufacturer to operate as complete system. All systems must state "Made In America."
- 1.5. Alternate equipment will be considered only when the following have been submitted and approved by the hospital ten (10) days prior to opening of the bid: A list of the alternate equipment and materials, together with three (3) copies of working and shop drawings, and a list of six (6) installations of a similar Nurse Call System which have been satisfactorily installed and maintained on the user's premises over a period of one (1) year.
- 1.6. Nursing and Maintenance staff of the hospital shall be thoroughly instructed in the use of the system by factory authorized distributor personnel. Such in-service shall be provided in conjunction with the installation of the system equipment. The in-service shall comply with section 9 of this specification.
- 1.7. Systems shall contain a one-year warranty for parts and labor, after which time a maintenance contract shall be available from a factory authorized distributor. Free annual training for engineering and support staff shall be available to every facility in which the equipment is installed. This training shall be for the life of the system.
- 1.8. The successful bidder must have a four-hour response time for system failures. Service must be offered 24 hours a day, seven days a week.

2. Proposal Standards

2.1. Alternate proposals are not acceptable. All proposals shall include the following:

- 2.1.1. Manufacturer's name, model numbers and three copies of factory specification sheets for each equipment item to be supplied by the factory authorized distributor. All function variations of equipment shall be clearly indicated in written form, and be pre-approved by the architect/owner 21 days prior to bid date.
- 2.1.2. Written confirmation on the expansion of the system shall state whether the system offers Radio Paging, Remote Maintenance or a Computer Display option.

3. System Description – General

- 3.1. The system shall be a West-Call® Endeavor micro-controller based system and shall provide the following features:
- 3.1.1. Expandable up to 4,064 ports.
 - 3.1.2. Radio paging interface.
 - 3.1.3. Remote maintenance features.
 - 3.1.4. System failure alarms.
 - 3.1.5. Field programmable micro-controllers.
 - 3.1.6. Capable of interfacing with computerized system to receive external equipment alarms.
 - 3.1.7. Ability to interface with infant security system and various monitor alarms and identify at least 7 levels of call.
 - 3.1.8. Patient Station with capability of controlling the TV and room lights.
 - 3.1.9. Patient Stations shall be compatible with side rail bed communications and Bed Exit emergency alarms.
 - 3.1.10. All remote stations shall plug into system wiring for ease of installation, replacement and/or maintenance.
 - 3.1.11. All station functions shall be controlled through system I/O boards. Every I/O port shall be field programmable.
 - 3.1.12. All equipment must meet current UL 1069 for hospital usage NBRZ category, and be listed as a complete system.
 - 3.1.13. All components of the system must be “Made In America.” These components shall include faceplates, circuit boards, membrane switches and circuit board assembly, etc. Systems that do not comply with this requirement are not acceptable and shall be considered non-responsive to this specification.

4. System Feature Description

4.1. General Description:

- 4.1.1. Two-way signaling and communication between visual display panels.
- 4.1.2. Ability to remotely cancel calls.
- 4.1.3. Ability to step a switch through a series of flashing lights or priority options.
- 4.1.4. Ability to group rooms by Staff Member in order to annunciate which room needs service next.
- 4.1.5. Ability to program any port to page a pager(s) with a specific text message.
- 4.1.6. Capability of signaling over 1000 ASD (auxiliary signaling device) zones, activating an unlimited number of lights and/or duty stations on a system.
- 4.1.7. Ability to program any room to activate any of the 1000 ASD zones (lights and/or duty stations) in any combination.
- 4.1.8. System shall incorporate built-in fault diagnostics and be capable of remote system maintenance.
- 4.1.9. In the event of microprocessor failure, the system shall be capable of immediately reporting the failure to a computer display.
- 4.1.10. The system shall be capable of interfacing with radio paging systems.
- 4.1.11. Ability to interface with infant security, IV pumps, telemetry, etc., and send emergency pages to appropriate levels of staff.
- 4.1.12. Ability to direct staff members to appropriate room requiring service next. The system shall be able to “remember” which exam room received a patient first for a given staff member.
- 4.1.13. Ability to show which rooms staff members are located in.
- 4.1.14. Ability to re-prioritize, which room a staff member, is required in next.
- 4.1.15. Ability to have up to 32 rooms for a given staff member.
- 4.1.16. Ability to have a group counter in a staff member’s office to notify the approximate number of patients waiting for that staff member.

5. Equipment Description:

5.1. EV-PNL-10x:

5.1.1. Function:

The EV-PNL-10x (x designates panel size) shall be used as indicator panels outside exam rooms, etc. as an indicator of which room to be serviced next or any other purpose the facility requires. Table 5-1 shows the different size panels, back-box and cable requirements:

Description:	Model Number:	Back Box Size:	Cable Size:
1 Button Panel	EV-PNL-101	Single Gang	22/4
2 Button Panel	EV-PNL-102	Single Gang	22/6
3 Button Panel	EV-PNL-103	Single Gang	22/8
4 Button Panel	EV-PNL-104	3 Gang	22/12
5 Button Panel	EV-PNL-105	3 Gang	22/12
6 Button Panel	EV-PNL-106	4 Gang	12Pair
4 Button Panel 2 Rows	EV-PNL-102/2	2 Gang	22/12
6 Button Panel 2 Rows	EV-PNL-103/2	2 Gang	12 Pair
8 Button Panel 2 Rows	EV-PNL-104/2	3 Gang	12 Pair
10 Button Panel 2 Rows	EV-PNL-105/2	3 Gang	12 Pair
12 Button Panel 2 Rows	EV-PNL-106/2	4 Gang	25 Pair
14 Button Panel	EV-PNL-107/2	4 Gang	25 Pair

Table 5-1

Each exam room would typically have it's own panel with colors corresponding to a specific staff member. The staff member can also have a smaller 1-button panel in their office notifying them of the amount of patients waiting. The EV-PNL can also be used as emergency buttons or a standard message light. The panel shall be configurable by color and switch type to match facilities needs.

5.1.2. EV-PNL-10x Technical Specifications:

Operating Voltage:	24-28VDC \pm 5%.
Power Consumption:	1-Watt Maximum Per Lamp.
Dimensions:	Depends On Panel Size.
Faceplate:	Anodized Aluminum.
Lamp Life:	10,000-Hour Minimum.
Switch Life:	100,000 Cycles Minimum.
Switch Types:	Latching, Momentary, Pilot or Split.
Termination Requirement:	Plug-on connector allows rapid mass termination. Mating connectors are Panduit CE100F22-5 or CE100F22-3.

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5.2. EV-VP-1xx:

5.2.1. Function:

The EV-VP-1xx (xx designates panel size) shall be used as indicator panels in various locations depending on the facilities needs. Table 5-2 shows the different size panels, back-box and cable requirements:

Description:	Model Number:	Back Box Size:	Cable Size:
10 Button Panel	EV-VP-110	8" x 12" x 4"	12 Pair
20 Button Panel	EV-VP-120	8" x 12" x 4"	25 Pair
30 Button Panel	EV-VP-130	8" x 12" x 4"	25 Pair & 12 Pair
40 Button Panel	EV-VP-140	8" x 12" x 4"	25 pair x 2
50 Button Panel	EV-VP-150	10" x 12" x 4"	50 Pair & 12 Pair
60 Button Panel	EV-VP-160	10" x 12" x 4"	50 Pair & 12 Pair
70 Button Panel	EV-VP-170	12" x 12" x 4"	50 Pair & 25 Pair
80 Button Panel	EV-VP-180	12" x 12" x 4"	50 Pair x 2

Table 5-2

The panel can be used for Nurse Call Annunciation or Patient Waiting. The annunciator panel can be used to alert staff members with an audible tone and visual light. The panel shall be configurable by color and switch type to match facilities needs.

5.2.2. EV-VP-1xx Technical Specifications:

Operating Voltage:	24-28VDC \pm 5%.
Power Consumption:	1-Watt Maximum Per Lamp.
Dimensions:	Depends On Panel Size.
Faceplate:	Anodized Aluminum.
Lamp Life:	10,000-Hour Minimum.
Switch Life:	100,000 Cycles Minimum.
Switch Types:	Latching, Momentary, Pilot or Split.
Termination Requirement:	Plug-on connector allows rapid mass termination. Mating connectors are Panduit CE100F22-5 or CE100F22-3.

5.3. Visual Patient Station (EV-VPS):

5.3.1. Function:

The single gang Visual Patient Station is designed to be used with the West-Call Endeavor and West-Call Endeavor AV systems. When used with the West-Call Endeavor or West-Call Endeavor AV systems, it is a stand-alone patient station. The EV-VPS includes a standard 1/4" phono receptacle for use with a call cord, CC96-030 or CC144-100. The patient uses the call cord to signal for assistance. A call is automatically placed when the call cord is removed.

5.3.2. General Description:

- 5.3.2.1. Standard 1/4" phono socket for a call cord used by the patient to signal for assistance.
- 5.3.2.2. Automatic placement of call when call cord is removed.
- 5.3.2.3. Highly visible call LED to assure that a call has been placed.
- 5.3.2.4. Large color-coded "CANCEL" label for cancellation of calls.
- 5.3.2.5. Fire retardant high-impact hospital-grade molded thermoplastic with inlaid membrane.
- 5.3.2.6. Attractive Lexan membrane (Pantone 1C Warm Grey).
- 5.3.2.7. Solid-state circuitry.
- 5.3.2.8. Easy plug-in connection into the system wiring.

5.3.3. EV-VPS Technical Specifications:

Operating Voltage:	24-28 VDC \pm 5%
Power Consumption:	1 watt maximum.
Dimensions:	4 1/2"H x 2 3/4"W x 1 1/2"D
Mounting:	4-inch square back-box with one-gang plaster ring, Raco 190 with 768 one-gang adapter or equivalent. Minimum 2 1/8" depth required. Normal mounting is vertical. For remodel areas, use Raco #500 or 503 with #977 Grip-Lok's or equivalent. Minimum 2 1/2" depth required.
Faceplate:	Hospital grade UL94V-0 ABS molded thermoplastic with inlaid membrane
Faceplate Color:	Standard color is Pantone 1C Warm Grey
Membrane:	.010 Lexan with hard-coat finish background color Pantone 4C Warm Grey. Cancel color Pantone 1C and 11C Warm Grey.
Lamp Life:	500,000 hour minimum
Switch Life:	100,000 cycles minimum
Call Cord Socket:	1/4" Phono
Cable Requirement:	Use 4-conductor #22AWG cable.
Termination Requirements:	Plug on connector allows rapid mass termination. Mating connector is a Panduit CE156F22-10.

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5.4. Single Locator Station (EV-LOC):

5.4.1. Function:

The Locator station provides two levels of staff location, as well as other unique features, such as cancellation of calls and activation of special staff emergency, nurse follower and selective page functions. When used with the West-Call® Endeavor or West-Call Endeavor AV, locators can be a signaling device for any purpose.

5.4.2. General Description:

- 5.4.2.1. Highly visible call LED to assure the call has been placed; 500,000-hour life expectancy.
- 5.4.2.2. Easily operated push color-coded area.
- 5.4.2.3. Fire retardant high impact molded thermoplastic.
- 5.4.2.4. Solid-state circuitry.
- 5.4.2.5. Plug-in connectors for easy system connection/service.

5.4.3. EV-LOC Technical Specifications:

Operating Voltage:	24-28 VDC \pm 5%.
Power Consumption:	1 watt maximum.
Size:	4 1/2"H x 2 3/4"W x 1 1/4"D
Mounting:	4" square back-box with 1-gang plaster ring, Raco 190 with 768 or equivalent. 2 1/8" minimum depth required. Normal mounting is <u>Vertical</u> .
Faceplate:	Hospital-grade ABS UL94V-0 molded thermoplastic with inlaid membrane.
Faceplate Color:	Warm Grey (Pantone 1C).
Membrane:	.010 Lexan with hard-coat finish.
Membrane Color:	.010 Lexan with hard-coat finish background color Grey (Pantone 4C). Copy color Warm Grey (Pantone 1C and 11C).
Termination:	Plug-on connector allows rapid mass termination. Mating connector - Panduit CE156F22-10.
Cable Requirements:	6-conductor #22AWG cable to I/O board.

5.5. Duty Alarm Station (DTY-100):

5.5.1. Function:

The Duty Alarm Station shall provide remote annunciation of the nurse call system status in staff areas. Staff personnel can monitor patient calls continuously in areas without a master station. The Duty Alarm Station shall tone at the highest priority call level. The zone and call mode of this station can be programmed in the EV-I/O Board.

5.5.2. General Description:

- 5.5.2.1. Easy programming to any zone or mode.
- 5.5.2.2. Programmable tones and intervals per duty station.
- 5.5.2.3. Optional LED installed for a visual indication of a call in the system (DTY-100/LED).
- 5.5.2.4. Fire retardant, painted, cold rolled steel faceplate.
- 5.5.2.5. Optional mute function on duty station.

5.5.3. DTY-100 Technical Specifications:

Operating Voltage:	24-28 VDC \pm 5%.
Power Consumption:	1 watt maximum.
Size:	4 1/2"H x 2 3/4"W x 1 1/2"D
Mounting:	4" square back-box with 1 gang plaster ring, Raco 190 with 768 or equivalent. 2 1/8" minimum depth required.
Faceplate:	Painted cold rolled steel.
Faceplate Color:	Warm grey Pantone 1C.
Termination:	2 wire splice connection.
Cable Requirements:	4-conductor #22AWG cable to I/O board.

5.6. Pillow Speakers:

5.6.1. Function:

The pillow speaker shall be a compact unit, easily cleaned and sterilized. It shall have a high fidelity mylar speaker for private listening, and a wide variety of controls governing patient entertainment systems (i.e., radio, television) and for patient convenience in contacting hospital personnel. *Use of outdated multi-pin pillow speakers is not acceptable.*

5.6.2. Optional Functions:

- 5.6.2.1. Room light controls.
- 5.6.2.2. Room drapery control.
- 5.6.2.3. Headset feature for private listening of entertainment systems.

5.6.3. General Description:

- 5.6.3.1. A nurse call button.
- 5.6.3.2. A TV (on/off/channel change) button.
- 5.6.3.3. A volume control for incoming audio.
- 5.6.3.4. A mylar coned speaker.
- 5.6.3.5. An eight-foot cord with a ten-pin modular plug.
- 5.6.3.6. Pillow speakers are made of Huntsman #799 Polystyrene (UL94V-0) thermoplastic.

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5.7. Emergency Pull Cord (EV-EPC):

5.7.1. Function:

Emergency Pull Cord Stations alert staff members of the location where prompt emergency help is required. Pulling on a cord that goes from the station to the ground places an emergency call. This allows patients who may have fallen to place a call while lying on the floor. It is for use with the West-Call Endeavor and West-Call Endeavor AV.

5.7.2. General Description:

- 5.7.2.1. Large color-coded emergency label for placement of calls.
- 5.7.2.2. Highly visible call LED to assure that a call has been placed.
- 5.7.2.3. Large color-coded "CANCEL" or "CANCEL AT TOILET" label for cancellation of calls.
- 5.7.2.4. Fire-retardant high-impact hospital grade molded thermoplastic with inlaid membrane.
- 5.7.2.5. Attractive Lexan membrane (Pantone 1C Warm Grey).
- 5.7.2.6. Solid-state circuitry.
- 5.7.2.7. Easy plug-in connection into the system wiring.
- 5.7.2.8. Eight-foot pull cord with a tassel on the end for ease of gripping.
- 5.7.2.9. Waterproof gasket for shower stations.

5.7.3. EV-EPC Technical Specifications:

Operating Voltage:	24-28 VDC \pm 5%.
Power Consumption:	1 watt maximum.
Dimensions:	4 1/2"H x 2 3/4"W x 1 1/2"D.
Mounting:	4-inch square back-box with one-gang plaster ring, Raco 190 with 768 one-gang adapter or equivalent. Minimum 2 1/8" depth required. Normal mounting is vertical. For remodel areas, use Raco #500 or 503 with #977 Grip-Lok's or equivalent. Minimum 2 1/2" depth required.
Faceplate:	Hospital grade UL94V-0 ABS molded thermoplastic with inlaid membrane.
Faceplate Color:	Standard color is Pantone 1C Warm Grey.
Membrane:	.010 Lexan with hard-coat finish background color Pantone 4C Warm Grey. Cancel color Pantone 1C and 11C Warm Grey.
Lamp Life:	500,000-hour minimum.
Switch Life:	100,000 cycles minimum.
Cable Requirement for the EPC and WPC:	Use 4-conductor #22AWG cable to associated patient station or EV-I/O Board.
Cable Requirement for the SPC and SWPC:	Use 4-conductor #22AWG cable to associated EPC or PBE.
Termination Requirement:	Plug-in connector allows rapid mass termination. Mating connector is a Panduit CE156F22-10.

5.8. "Staff Emergency" Station (EV-PBE/SE):

5.8.1. Function:

The EV-PBE/SE is intended for use in patient rooms and other areas where priority calls require immediate attention. The EV-PBE/SE shall consist of a red push button area, a color-coded "CANCEL" button, and a red LED indicator. They are designed for patient areas where assistance is needed. They are for use with the West-Call Endeavor and West-Call Endeavor AV.

5.8.2. General Description:

- 5.8.2.1. Large color-coded call type label for placement of calls.
- 5.8.2.2. Highly visible call LED to assure that a call has been placed.
- 5.8.2.3. Large color-coded "CANCEL" label for cancellation of calls.
- 5.8.2.4. Fire retardant high-impact hospital grade molded thermoplastic with inlaid membrane.
- 5.8.2.5. Attractive Lexan membrane (Pantone 1C Warm Grey).
- 5.8.2.6. Solid-state circuitry.
- 5.8.2.7. Easy plug-in connection into the system wiring.

5.8.3. EV-PBE/SE Technical Specifications:

Operating Voltage:	24-28 VDC \pm 5%.
Power Consumption:	1 watt maximum.
Dimensions:	4 1/2"H x 2 3/4"W x 1 1/2"D
Mounting:	4-inch square back-box with one-gang plaster ring, Raco 190 with 768 one-gang adapter or equivalent. Minimum 2 1/8" depth required. Normal mounting is vertical. For remodel areas, use Raco #500 or 503 with #977 Grip-Lok's or equivalent. Minimum 2 1/2" depth required.
Faceplate:	Hospital grade UL94V-0 ABS molded thermoplastic with inlaid membrane.
Faceplate Color:	Standard color is Pantone 1C Warm Grey.
Membrane:	.010 Lexan with hard-coat finish background color Pantone 4C Warm Grey. Cancel color Pantone 1C and 11C Warm Grey.
Lamp Life:	500,000-hour minimum.
Switch Life:	100,000 cycles minimum.
Cable Requirement:	Use 4-conductor #22AWG cable to associated I/O board.
Termination Requirement:	Plug-on connector allows rapid mass termination. Mating connector is a Panduit CE156F22-10.

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5.9. "Push For Help" Station (EV-PBE):

5.9.1. Function:

The EV-PBE is intended for use in patient rooms and other areas where priority calls require immediate attention. The EV-PBE shall consist of a red push button area, a color-coded "CANCEL" button, and a red LED indicator. They are designed for patient areas where assistance is needed. They are for use with the West-Call Endeavor and West-Call Endeavor AV.

5.9.2. General Description:

- 5.9.2.1. Large color-coded call type label for placement of calls.
- 5.9.2.2. Highly visible call LED to assure that a call has been placed.
- 5.9.2.3. Large color-coded "CANCEL" label for cancellation of calls.
- 5.9.2.4. Fire-retardant high-impact hospital grade molded thermoplastic with inlaid membrane.
- 5.9.2.5. Attractive Lexan membrane (Pantone 1C Warm Grey).
- 5.9.2.6. Solid-state circuitry.
- 5.9.2.7. Easy plug-in connection into the system wiring.

5.9.3. EV-PBE Technical Specifications:

Operating Voltage:	24-28 VDC \pm 5%.
Power Consumption:	1 watt maximum.
Dimensions:	4 1/2"H x 2 3/4"W x 1 1/2"D
Mounting:	4-inch square back-box with one-gang plaster ring, Raco 190 with 768 one-gang adapter or equivalent. Minimum 2 1/8" depth required. Normal mounting is vertical. For remodel areas, use Raco #500 or 503 with #977 Grip-Lok's or equivalent. Minimum 2 1/2" depth required.
Faceplate:	Hospital grade UL94V-0 ABS molded thermoplastic with inlaid membrane.
Faceplate Color:	Standard color is Pantone 1C Warm Grey.
Membrane:	.010 Lexan with hard-coat finish background color Pantone 4C Warm Grey. Cancel color Pantone 1C and 11C Warm Grey.
Lamp Life:	500,000-hour minimum.
Switch Life:	100,000 cycles minimum.
Cable Requirement:	Use 4-conductor #22AWG cable to associated I/O board.
Termination Requirement:	Plug-on connector allows rapid mass termination. Mating connector is a Panduit CE156F22-10.

5.10. "Code Blue" Station (EV-PBE/CB):

5.10.1. Function:

The EV-PBE/CB is intended for use in Recovery, ICU, CCU and other areas where priority calls require immediate attention. The EV-PBE/CB shall consist of a blue push button area, a color-coded "CANCEL" button, and a red LED indicator. All "Code Blue" calls shall annunciate locally at the nurses station, pagers and at PBX. They are designed for patient areas where Code Blue assistance is needed. They are for use with the West-Call Endeavor and West-Call Endeavor AV.

5.10.2. General Description:

- 5.10.2.1. Large color-coded call type label for placement of calls.
- 5.10.2.2. Highly visible call LED to assure that a call has been placed.
- 5.10.2.3. Large color-coded "CANCEL" label for cancellation of calls.
- 5.10.2.4. Fire retardant high-impact hospital grade molded thermoplastic with inlaid membrane.
- 5.10.2.5. Attractive Lexan membrane (Pantone 1C Warm Grey).
- 5.10.2.6. Solid-state circuitry.
- 5.10.2.7. Easy plug-in connection into the system wiring.

5.10.3. EV-PBE/CB Technical Specifications:

Operating Voltage:	24-28 VDC \pm 5%.
Power Consumption:	1 watt maximum.
Dimensions:	4 1/2"H x 2 3/4"W x 1 1/2"D.
Mounting:	4-inch square back-box with one-gang plaster ring, Raco 190 with 768 one-gang adapter or equivalent. Minimum 2 1/8" depth required. Normal mounting is vertical. For remodel areas, use Raco #500 or 503 with #977 Grip-Lok's or equivalent. Minimum 2 1/2" depth required.
Faceplate:	Hospital-grade UL94V-0 ABS molded thermoplastic with inlaid membrane.
Faceplate Color:	Standard color is Pantone 1C Warm Grey
Membrane:	.010 Lexan with hard-coat finish background color Pantone 4C Warm Grey. Cancel color Pantone 1C and 11C Warm Grey.
Lamp Life:	500,000-hour minimum.
Switch Life:	100,000 cycles minimum.
Cable Requirement:	Use 4-conductor #22AWG cable to associated I/O board.
Termination Requirement:	Plug-on connector allows rapid mass termination. Mating connector is a Panduit CE156F22-10.

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5.11. "Code Pink" Station (EV-PBE/CP):

5.11.1. Function:

The EV-PBE/CP is intended for use in Nurseries, ICN and other areas where priority calls require immediate attention. The EV-PBE/CP shall consist of a pink push button area, a color-coded "CANCEL" button, and a red LED indicator. All "Code Pink" calls shall annunciate locally at the nurses station, pagers and at PBX. They are designed for patient areas where Code Blue assistance is needed. They are for use with the West-Call Endeavor and West-Call Endeavor AV.

5.11.2. General Description:

- 5.11.2.1. Large color-coded call type label for placement of calls.
- 5.11.2.2. Highly visible call LED to assure that a call has been placed.
- 5.11.2.3. Large color-coded "CANCEL" label for cancellation of calls.
- 5.11.2.4. Fire retardant high-impact hospital grade molded thermoplastic with inlaid membrane.
- 5.11.2.5. Attractive Lexan membrane (Pantone 1C Warm Grey).
- 5.11.2.6. Solid-state circuitry.
- 5.11.2.7. Easy plug-in connection into the system wiring.

5.11.3. EV-PBE/CP Technical Specifications:

Operating Voltage:	24-28 VDC \pm 5%.
Power Consumption:	1 watt maximum.
Dimensions:	4 1/2"H x 2 3/4"W x 1 1/2"D
Mounting:	4-inch square back-box with one-gang plaster ring, Raco 190 with 768 one-gang adapter or equivalent. Minimum 2 1/8" depth required. Normal mounting is vertical. For remodel areas, use Raco #500 or 503 with #977 Grip-Lok's or equivalent. Minimum 2 1/2" depth required.
Faceplate:	Hospital grade UL94V-0 ABS molded thermoplastic with inlaid membrane.
Faceplate Color:	Standard color is Pantone 1C Warm Grey.
Membrane:	.010 Lexan with hard-coat finish background color Pantone 4C Warm Grey. Cancel color Pantone 1C and 11C Warm Grey.
Lamp Life:	500,000-hour minimum.
Switch Life:	100,000 cycles minimum.
Cable Requirement:	Use 4-conductor #22AWG cable to associated I/O board.
Termination Requirement:	Plug-on connector allows rapid mass termination. Mating connector is a Panduit CE156F22-10.

5.12. Dome Lights (WDL-100x):

5.12.1. Function:

The West-Call® Corridor Dome Light provides the required visual signal to notify staff members of a room's status. It can be used with the Endeavor, and the Endeavor AV systems. The Dome Light can be equipped with up to four sections with one lamp per section, offering a wide variety of signals. High intensity five-watt incandescent lamps are easily visible from any reasonable angle. The Corridor Dome Light can be mounted on the wall or ceiling, and the lamps are available in various colors. Typical applications include corridor indication of patient calls, patient waiting, staff calls, emergency, code blue, and code pink indications, as well as zone light applications.

5.12.2. General Description:

- 5.12.2.1. Translucent wedge-shaped dome lens for maximum visibility in all directions, even at great distances and under high ambient lighting conditions.
- 5.12.2.2. Front-replaceable lamp(s) for simplified service.
- 5.12.2.3. Oversized two-gang faceplate, hospital-grade ABS plastic.
- 5.12.2.4. Color is Pantone 1C Warm Grey.
- 5.12.2.5. Lens is made from unbreakable polystyrene UL94V0 plastic.
- 5.12.2.6. Normal and emergency calls distinguished by different visual signals for positive identification of call priority.

5.12.3. WDL-100x Technical Specifications:

Operating Voltage:	24-28 VDC \pm 5%.
Power Consumption:	5 watts per lamp.
Size:	5 1/4"H x 5 1/4"W x 3 3/4"D.
Mounting:	4 11/16" square back-box with two-gang plaster ring. Raco 257 with 818 or equivalent.
Faceplate:	Hospital grade ABS plastic back plate with attractive finish. Pantone 1C Warm Grey.
Termination:	WDL-1001 through 1004 have 6" wired pigtails, SDL-8000 and AZL-8000 plug-on connectors allow rapid mass terminations. Mating connectors are Panduit CE100F22-7, 10,12.
Luminaries:	Molded white Polystyrene plastic, replaceable.
Lamp Colors:	White, Green, Amber, Red, and Blue. Note: Blue is not recommended due to poor visibility at distances of more than 10 feet, or where fluorescent lamps are within 10 feet.

5.13. Wiring:

All nurse call system wiring shall be in accordance with the equipment manufacturer's recommendations. All components shall be provided with plug-in connections to system wiring. Local codes will apply to all plenum-cabling requirements.

Endeavor Clinical Specifications

6. Training:

6.1. In-Service Training:

All in-service shall include user manuals. The vendor is to supply one in-service per year, minimum, at no additional charge to the hospital. Schedule one month in advance minimum.

The in-service shall be coordinated with the nursing education department of the hospital and signed off by nursing administration before installation of the system can begin. The pre-agreed upon in-service schedule shall become part of the contract.

6.2. Factory Training:

A factory technical training seminar shall be supplied at no additional cost to the facility. This training seminar shall be held at the factory on an annual basis and shall offer a minimum of three days hands-on training to all hospital engineering and bio-medical staff. Hospital personnel shall have access to this school for the life of the system.

7. Conditions:

7.1. Equipment:

7.1.1. All equipment listed above and supplied by a U.S. manufacturer and shall be acceptable in the above listed specifications.

7.1.2. All equipment shall be listed for "UL 1069" Standards for Hospital Usage.

7.1.3. Part numbers designated may change according to the manufacturer's new product releases; however, the equipment specified shall meet or exceed the specifications as outlined.

7.1.4. No deviation from the above-specified equipment shall be acceptable.

7.2. History:

The successful bidder must have at least six (6) local installations of comparable systems and supply a complete list of references with their bid.

7.3. Service:

All service shall be performed by an authorized factory servicing company with a minimum of six service vehicles in the immediate area (subcontractors are not acceptable).

7.4. Installation:

Company employees of the company selling the above-listed system shall perform all installation. Vendor shall have at least one factory certified installer for the installation. Use of sub-contractors or hospital personnel to perform installation is not acceptable. The authorized installation company shall have a minimum of six service vehicles in the immediate area.

7.5. Warranty:

Full one year warranty on all equipment and labor. Pillow speakers and light bulbs shall be guaranteed for 60 days.

