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Nurse Call



*Not available in Europe, Australia, nor New Zealand



Features

- One master, up to 80 sub stations. Single and dual patient stations
- Multi-station capability per patient room
- Three types of call-ins from patient stations: Routine call, Bathroom call & Cord-out trouble call, identified by tone & blinking LED (w/priority according to urgency and time of call)
- NHR-3TS Common Area Call station is used for common area bathroom call or staff call (urgent)

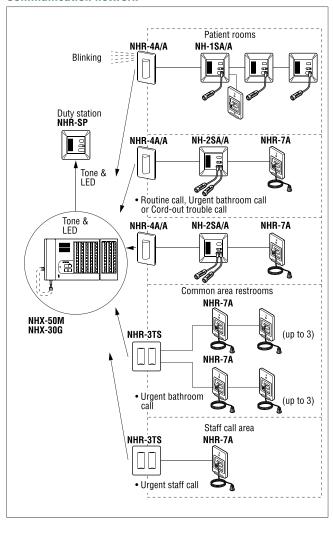
Communication

 At NHX-50M master, when called by a bedside sub, either lift handset or press TALK once to establish talk channel. To initiate a call, press the selector button of the sub. At the sub, pretone sounds and TALK is lit green. Corridor and zone lights do not turn on.

To silence the tone, press TONE-OFF button. Tone will resume after 90 seconds or when new call is placed.

- 2. Corridor lamp turns on with any type of call placed by sub station area. When talk channel is established, the light will turn off.
- 3. A call from NHR-3TS is of the same level as Urgent bathroom call. (no verbal communication)

Communication network



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Sub station



NH-1SA/A Single-jack bedside sub station



NH-2SA/A Dual-jack bedside sub station



NHR-3TS Calling zone light

Corridor lamp



NHR-4A/A Corridor lamp w/red & white lamps



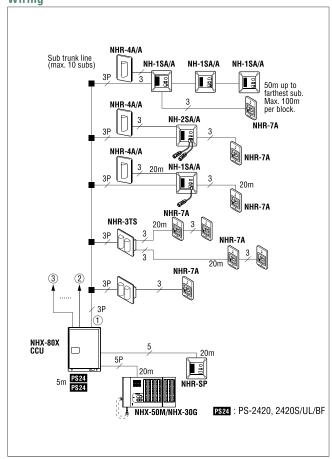
APPOON

NHR-7A Staff call / bathroom call switch (pullcord included)

Call tone & light annunciation

TYPE OF CALL	TONE	LIGHT
Routine call	TONE	LIGITI
At NHX-50M (& at Duty station)	Single chime, every 6 sec.	Blinking, every 2 sec.
At Bedside sub At Corridor lamp	_	'CALL' steadily lit White lamp steadily lit
Urgent bathroom call or NHR-3TS		
At NHX-50M (& at Duty station)	Single chime, every 2 sec.	Double blinking, every 1.8 sec.
At Bedside sub	_	'CALL' steadily lit
At Corridor lamp	_	Red lamp Blinking
Cord-out trouble call		
At NHX-50M (& at Duty station)	Single chime, every 0.5 sec.	Blinking fast, every 0.4 sec.
At Bedside sub		'CALL' steadily lit
At Corridor lamp	_	White lamp Blinking
NHR-3TS in common area		
Bathroom call (urgent)	_	Red blinking (2 lamps)
Staff call (urgent)	_	White blinking (one lamp)
Line-off trouble at NHX-50M		
Line-off at bedside sub	Slow buzzer, intermittent	Lit 0.2 sec., every 2 sec.
Line-off at Duty station	Faster buzzer, intermittent	No light

Wiring



Sub trunk line: 6 wires (3P).

Each zone requires a separate common wire from NHX-80X.

Use twisted pairs with an overall shield, low capacitance, 0.65mm dia., solid conductors. (Rated capacitance level of wire: 25pF/30cm or less)

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Central control unit



NHR-30K

Master station

30-call add-on trunk card

Features

Connect one NHX-50M and up to 80 sub stations. 1 ~ 8 trunk lines of up to 10 stations per trunk connected inside CCU. (3 pairs) 5 pairs to Master station. Terminates duty station, and power supplies(2). After installation, the NHX-80X must be initialized. During use, turn power switch off and back on to reset. Install NHR-30K **Expansion Trunk Card** when NHX-30G is used.

Specifications (NHX-80X)

	,
Power Source	24V DC, 4A max.
Power supply	2 pcs PS-2420S, PS-2420UL, PS-2420BF, PS-2420
Station capacity	50 sub stations (max. 80 with NHX-30G & NHR-30K).
Calling	Routine call, Urgent bathroom call & Cord-out trouble call.
	Up to 5 calls can be displayed on NHX-50M.
Communication	Single and private talk channel. Press-to-talk or handset
	voice-actuation
Call-in priority	(1) Cord-out trouble call, (2) Urgent bathroom call and
	NHR-3TS common area bathroom call or staff call, (3)
	Routine call. Subs' call-ins on standby connected according
	to urgency level and time of call.
Warning tones	(1) Line-off trouble at Bedside or NHR-3TS sub & Duty
	station. (To stop tone on the Duty station, plug in, 2-pin
	jumper to CN104 in CCU).(2) 90 sec. elapse timer: Call tone
	goes up to HIGH level.(3) 90 sec. off-hook timer: Steady
	tone will notify that handset is off-hook.
Wiring	3 twisted pairs, CCU to Sub trunks 1~8.
	5 twisted pairs, CCU to NHX-50M.
	6 wires (parallel), CCU to NHR-SP.
	Use twisted pairs with an overall shield, low capacitance,
	0.65mm dia., solid conductors. (Rated capacitance level
	of wire: 25pF/30cm or less)
Wiring distance	CCU to Sub (farthest) 50m(0.65mm)
	Sub trunk line 100m(0.65mm)
	CCU to NHX-50M 20m(0.65mm)
	CCU to Duty station 20m(0.65mm)
	CCU to PS-2420, 2420S/UL/BF 5m(1.0mm)
Mounting	3-gang wall-mounting. Or inside Electrical Enclosure with
	secured door (Provide a suitable, non-combustible

Unit dimensions



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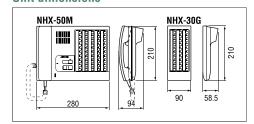
NHX



Extremely compact 50-call desk console. Open voice communication with TALK button, or handset (voice-actuated). When called, simply press TALK or pick up handset to establish channel. Otherwise, press TONE-OFF button and go to calling location. To initiate a call, press a selector button first. NHX-30G is a 30-call add-on selector. Plugs itno NHX-50M.

Unit dimensions

mounting surface).



Specifications

Wiring	10-pin plug in connector (to NHX- 80X). Provided with preset volume controls. Can verify connection of all sub stations.
Wiring distance	Install within 20m from CCU.

Duty station

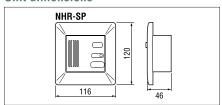


Features

Features

Acknowledges any station call with tone and blinking LED. Go to the NHX-50M. Press TONE-OFF and identify the caller at Master station.

Unit dimensions



Specifications

Mounting	2-gang semi-flush mounting.
Wiring	CN1 (6 pin) to NHX-80X. When NHR- SP is installed, unplug Connector from CN104 on NHX-80X.

Bedside sub station



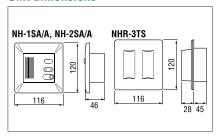
Features

Bedside station for calling and communication. Used with NHR-8C call cord. When call button is pushed, 'CALL' LED is lit red. When master replies, green 'TALK' LED is lit. Press CANCEL to reset the call. When NHX-50M calls in, pre-tone sounds and 'TALK' LED is lit green.

Specifications

Mounting	2-gang semi-flush mounting
Wiring	Sub Nos. 1 ~ 10 setting on
	SW1.
	CN1 (6 pin) to sub trunk
	line.
	CN2 (8 pin) for NHR-7A,
	NHR-4A/A.

Unit dimensions



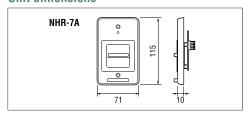
Bathroom pullcord



Features

Mechanically locked calling device, used to place an urgent bathroom call from a patient room, common area bathroom or staff call location. Cannot be used alone, and must be used with NH-1SA/A, NH-2SA/A, or with NHR-3TS common area call station. Provides dry closure contact. Master-CALL LED indicates call placed. Ratings 24V DC, 100mA (min. 5mA or

Unit dimensions



Specifications

Mounting	Single-gang semi-flush mounting.
Wiring	3 wires to patient station or NHR-3TS.

Corridor lamp

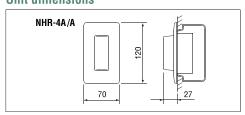


Features

When a call is placed, the NHR-4A blinks red or is steadily lit white.

Ratings: 24V DC (or more), 200mA max.

Unit dimensions



Specifications

Mounting	Single-gang semi-flush mounting.
Wiring	3 wires to Bedside sub station.

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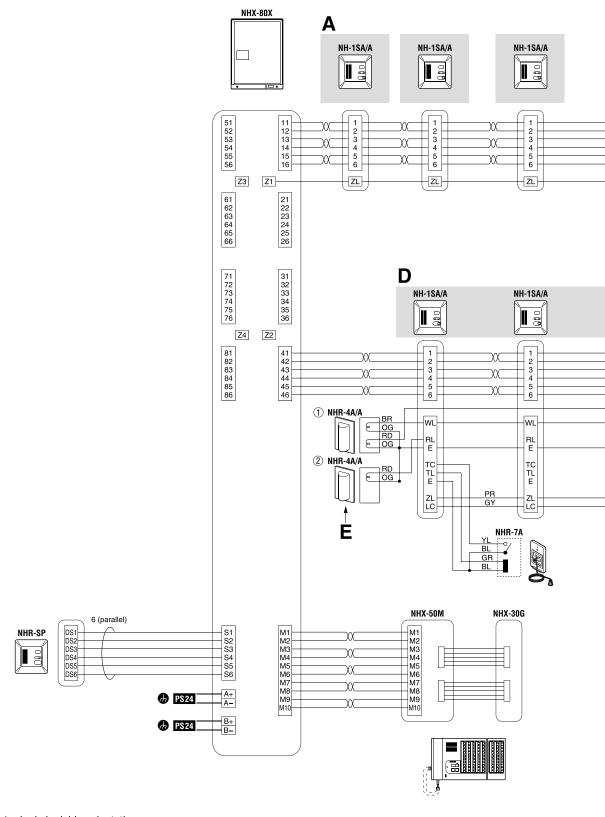
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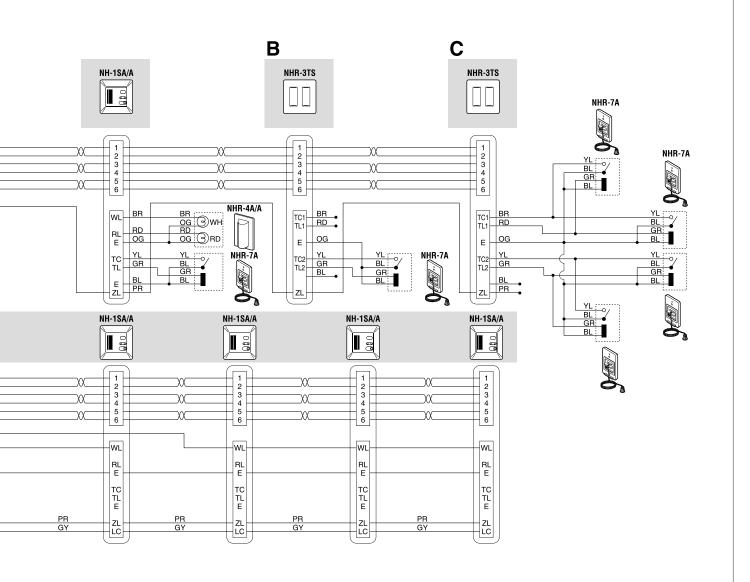


- A Patient rooms w/a single bedside sub station
- **B** Staff call (corridor)
- C Bathroom call (common area)
- D Patinent rooms w/multiple bedside sub stations
- E Corridor lamp NHR-4A/A
- 1): Two white lamps 2): One red lamp NHR-4A 2) is required only when NHR-7A staff call / bathroom call switch is installed in a single and common bathroom.

PS24: PS-2420S, PS-2420UL, PS-2420BF, PS-2420

Wire color identifications

wire color laer	itilications	
NHR-4A/A BR: Brown OG: Orange RD: Red OG: Orange	NH-1SA/A BR: Brown RD: Red OG: Orange YL: Yellow GR: Green	NHR-3TS BR: Brown RD: Red OG: Orange YL: Yellow GR: Green
NHR-7A YL: Yellow BL: Blue GR: Green BL: Blue	BL: Blue PR: Purple GY: Gray	BL: Blue PR: Purple



Multi-station patient room applications

Multiple NH-1SA/A and NH-2SA/A bedside sub stations can be installed within a patient room,

- observing the following conditions;

 1. Max. 6 bedside sub stations may be connected per room for max. 12 calls (when NH-2SA/A stations are used).
- A corridor lamp inside (NHR-4A) must not be connected with more than 4 bedside sub stations. Due to the above, install two NHR-4A/A corridor lamps when more than 4 sub stations are in one room, i.e. two WHITE lamps used in one NHR-4A/A, and one RED bulb used in the other NHR-4A/A. NH-1SA/A and NH-2SA/A station numbers must be programmed in numerical order and connected
- to the same subs trunk line.
- 5. NHR-7A staff call / bathroom call switch is optional.

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