- 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 stations is used for common area bathroom call or staff call (urgent).
- Optional zone light (max. 4).





NH-1SA/A Bedside sub station, single-jack



NH-2SA/A Bedside sub station, dual-jack



NHR-3TS Common area call station



NHR-7A Staff call switch



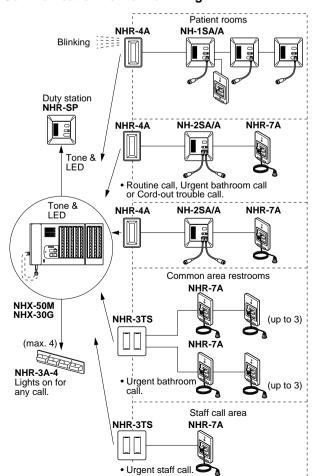
NHR-4A Corridor lamp

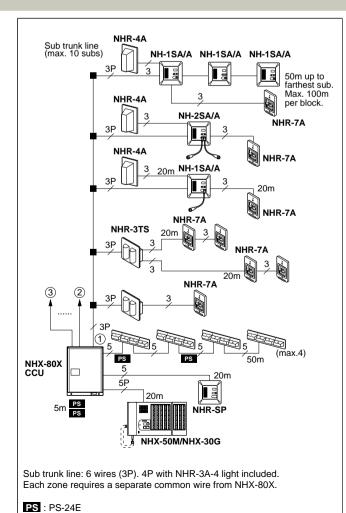




NHR-7A Bathroom pullcord

Communication network & wiring





System components

NHX-80X: Central Control Unit. NHX-50M: 50-call master console. NHX-30G: 30-call add-on selector.

NH-1SA/A: Bedside sub station, single-jack. Bedside sub station, dual-jack. NH-2SA/A: NHR-3TS: (1) Common area call station, used

w/NHR-7A bathroom pullcord. (2) Urgent staff call sub station, used

w/NHR-7A mech. lock SW. NHR-30K: 30-call add-on trunk card. 4-zone indicator light. NHR-3A-4:

Staff call switch (or Bathroom pullcord). NHR-7A: NHR-8A: Bedside call switch.

NHR-4A: Corridor lamp. NHR-DP: Dummy plug. NHR-SP: Duty station.

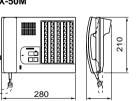
Power supply

PS-24E: 24V DC, 2A.

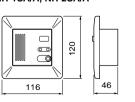
Two PS-24E's required for NHX-80X only. Two NHR-3A-4's powered by a PS-24E.



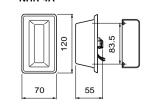
NHX-50M



NH-1SA/A, NH-2SA/A



NHR-4A



NHX-30G

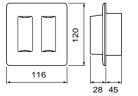
NHR-SP



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NURSE CALL

91



NURSE CALL



Duty station



NHR-8A Bedside call switch

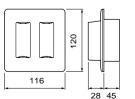


NHR-DP Dummy plug

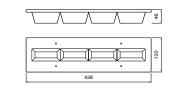




NHR-3TS



NHR-3A-4



NURSE CALI

NHX Components



Central Control Unit (NHX-80X)

Controls the NHX-50M and up to 80 sub stations. 1~8 trunk lines of up to 10 stations per trunk connected inside CCU. (3 pairs, or 4 pairs if zone light is installed). 5 pairs to Master station. Terminates in CCU Zone light (4 in loop), Duty station, and power supplies(2).

After installation, the NHX-80X must be reset. During use, turn power switch off and back on to

- Mounting: 3-gang wall-mounting, Or inside Electrical Enclosure with secured door (Provide a suitable, non-combustible mounting surface).
- Install NHR-30K Expansion Trunk Card when NHX-30G is used.



NHR-SP

NH-2SA/A

NHR-DP

NHR-8A

III 5.

NH-1SA/A

NHR-3TS

Master station (NHX-50M)

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.

- Wiring: 10-pin plug in connector (to NHX-80X). Provided with preset volume controls. Can verify connection of all sub stations.
- Install within 20m from CCU (wiring distance). NHX-30G is a 30-call add-on selector. Plugs into NHX-50M.



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

- 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.



Used with NHR-8A call cord. When call button is pushed, 'CALL' LED is lit red. When master replies, green 'TALK' LED is

Press CANCEL to reset the call. When NHX-50M calls in, pre-tone sounds and 'TALK' LED is lit

• Mounting: 2-gang semi-flush mounting.

zone light.

 Wiring: Sub Nos. 1 ~ 10 setting on SW1. CN1 (6 pin) to sub trunk line. CN2 (7 pin) for NHR-7A, NHR-4A &

Dummy plug (NHR-DP)

Plugs into jack unused on bedside sub stations.

Bathroom pullcord (NHR-7A)

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: DC 24V, 100mA (min. 5mA or more).

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



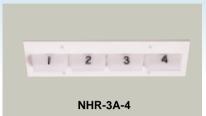


Corridor lamp (NHR-4A)

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

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

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



Zone light (NHR-3A-4)

Zone lamp turns on when any call is placed on the system, indicating which zone has a call placed. Up to 4 zone lights can be installed in one system. Install one PS-24E for every 2 zone lights. Lamp ratings: DC 24V ~, 200mA.

Specifications (NHX-80X)

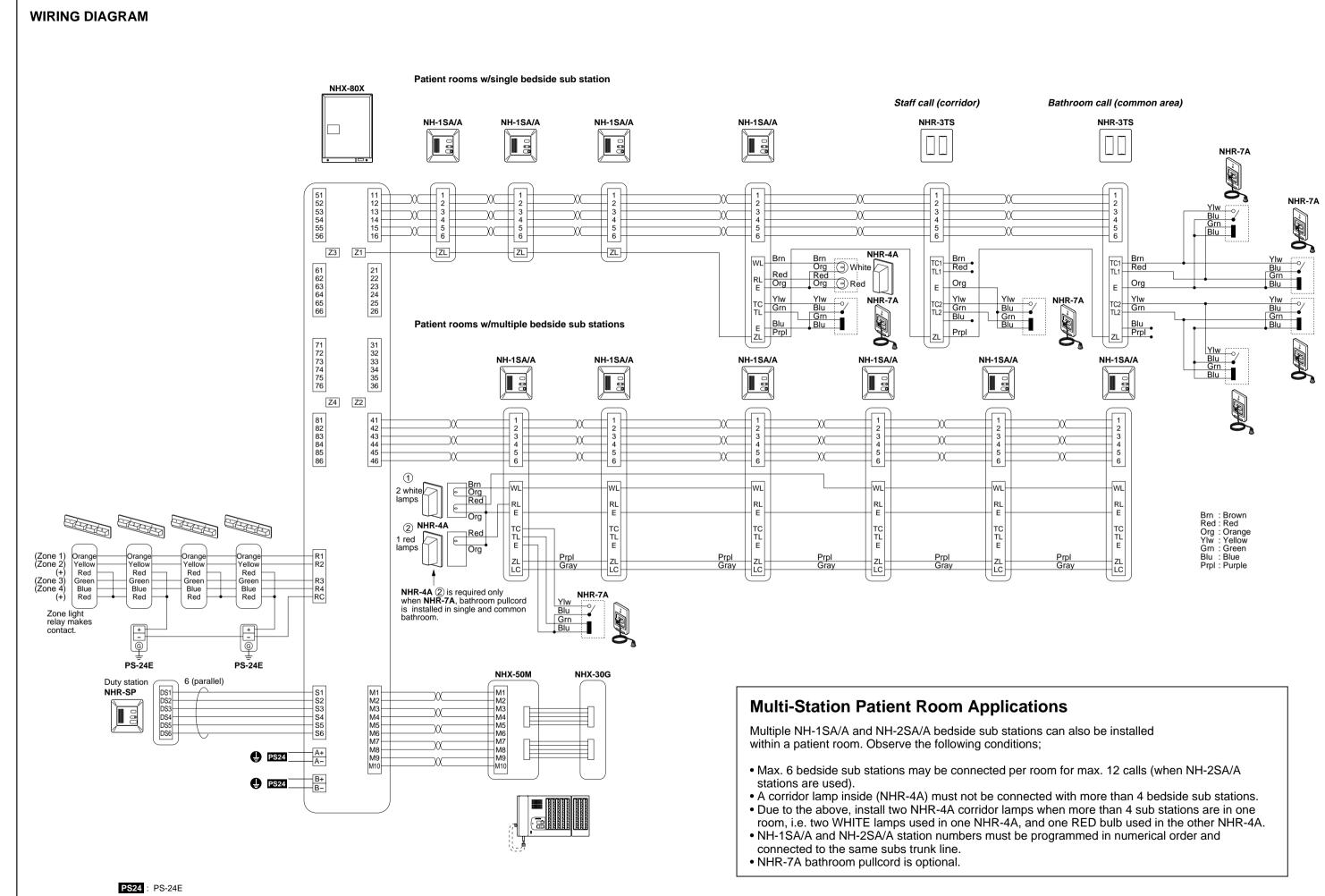
Power source:	24V DC, 4A max.			
Power supply:	2 pcs PS-24E power supplies			
Station capacity:	50 sub stations (max. 80 with NHX-30G & NHR-30K).			
Calling:	Routine call, Urgent bathroom call & Cord-out trouble call.			
	Up to 5 calls can be displayed on NHX-50M.			
Communication:	Single and private talk channel. Press-to-talk or handset voice-actuation			
Call-in priority:	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 for the latter, remount connector 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.			
Wiring:	3 (or 4*) twisted pairs, CCU to Sub trunks 1~8. (*when zone light is installed)			
	5 twisted pairs, CCU to NHX-50M.			
	6 wires (parallel), CCU to NHR-SP.			
	5 wires (parallel), CCU to NHR-3A-4.			
Wiring distance:		4.0	1	
	COLLAD Code (forth and)	1.0mmø		
	CCU to Sub (farthest)	50m	-	
	Sub trunk line	100m		
	CCU to NHX-50M	20m		
	CCU to Duty station	20m		
	CCU to Zone light	50m		
	CCU to PS-24E	5m		

Communication at NHX-50M

- 1. 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 a selector button of the sub. At the sub, pretone sounds and TALK is lit green. Corridor and zone lights do not turn on. For direct caring, press TONE-OFF to silence tone only, and go to a calling location.
- 2. Corridor lamp & Zone 1~4 light turn on with any type of call placed by sub station area. Upon the talk channel established, two lights will turn off.
- 3. A call from NHR-3TS is of the same level as Urgent bathroom call. (no verbal communication)

Call tone & Light Annunciation

TYPE OF CALL	TONE	LIGHT
Routine call		
At NHX-50M (& at Duty station)	Single chime, every 6 sec.	Blinking, every 2 sec.
At Bedside sub	_	'CALL' steadily lit
At Corridor lamp	_	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 & on pullcord
At Corridor lamp	_	Red lamp steadily lit
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 & on pullcord
At Corridor lamp	_	White lamp steadily lit
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
	1	1



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