



**KT-NCS**

Electronics Realizing  
Innovative Ideas in Hospitals





## COMPANY PREFACE

---

Kahroba Tarasheh Company (hereinafter referred to as KT-NCS) is the leading manufacturer of smart electronic equipment for hospitals, ambulatory surgery centers, clinics, long-term care facilities, physician offices, medical assisted living centers, nursing homes, outpatient departments etc.

The applications for the KT-NCS products include:

- Alarms and Communications
- Workflow Optimization
- Visitor Management
- Signage Management

KT-NCS offers its systems both in wired or wireless technologies to facilitate its applications for different scenarios in a variety of types:

- Button-Based Systems
- Integrated Communications Systems
- Digital and Mobile Systems
- Intercom Systems
- Basic Audio/Visual Systems

KT-NCS has acquired ISO9001 and EN ISO 13485 to certify the safety and efficacy of the medical devices it manufactures and, in the process, to obtain its CE certificate:

# EMERGENCY CODE CALLING / GROUP NOTIFICATION & SUMMON SYSTEM



Conveying the emergency messages to mobile personnel in a fast and secure manner has critical importance which can not be compromised through usage of unreliable systems like telephone lines, voice pagers, ....

**KT-NCS** offers the emergency code calling using a special panel to the radio pagers and mobile handsets of the corresponding personnel in a secure environment without any human/technical error involvement in a fast and secure manner. It also serves as a group summon system by playing a pre-recorded voice message from the speakers in the facility.

This system needs no extra wiring added to the legacy system and uses the existing LAN/WAN network.

## Main Features:

1. Easy, fast and secure access to mobile personnel
2. Integration with nurse call and signage systems
3. Report generation capability
4. Customized messaging capability for special groups
5. Short Message Service (SMS) capable for personnel with mobile phones
6. 2-way radio pager messaging with read proof capability



7. Visual code display monitors
8. Unlimited code assignments capability
9. Easy group definition and report acquisition and tracing
10. Diversity in code calling methods
11. No intermediate operator involved
12. Maximum 3 seconds code-transmit delay
13. No radio signal blind spot in the facility due to gateway implementation
14. Low cost due to using the LAN/WAN Network







## MEDICAL BEDSIDE INFOTAINMENT ALL-IN-ONE

Providing an easy touch-based user interface for both patients' entertainment and physicians' HIS - based data acquisition.

### Main Features:

---

- Live T.V., on-demand video & music playback for patient
- Computer games entertainment for patient
- Pre- & post-surgery care educational packages for the patients
- Nurse call functionality
- Patients' data monitoring through HIS
- Catering services for the patients

## Management Center



Central Server Unit/DVB Card  
Module/HIS-VOIP Module



Management All-in-One Unit

## Patient Service Console



Patient Handset  
NCB35



HIS-VOIP Module



Patient's All-in-One + Extended  
Reach, Wall-mounted Arm

## Room Ward Corridor



Pull Cord Nurse Call  
+ Cancel/ Presence Switch  
TB31



Corridor Status Light  
ODL32



RFID-capable Workflow  
Management Terminal  
LTP03



## HOSPITAL DIGITAL SIGNAGE SYSTEM

Bringing the hospital signage displays into versatile usages through software deployment. It can be used both inside the patients' sections or in public areas of the facility. It is deployed using the LAN legacy network of the facility at no extra wiring cost.

### Main Features:

- List of patients display grouped by section or physician
- Graphical location display of nurse calls in each section
- Surgery section's patient condition display for the family members
- Communicating general information about the facility to the public
- Guiding the public on how to access different sections of the facility
- Queue management application



Queue Management Display



Nurse Call Location Display



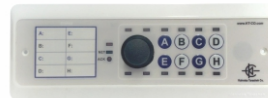
Entertainment & Advertisement Display



Patients Display sorted by the Physician



Surgery Patients' Condition Display



Display content control Panel  
ECP04



# SMART NURSE CALL SYSTEM



## Management Center



Terminal Box  
TBX31



Staff Console  
CUI32



Management Software  
CUS33



RFID Card



RFID Tag

## Patient Service Console



RFID/ Display Intercom Panel  
BCU34



Pear Push  
Nurse Call Switch  
NCB33



Patient Handset  
NCB35

## Room Ward Corridor



Cancel/ Presence Switch  
CB34



Corridor Status Light  
ODL32



Pull Cord Nurse Call  
+ Cancel/ Presence Switch  
TB31

The most advanced nurse call system made by **KT-NCS** capable of integration with hospital emergency code calling and information system with touch display and RFID card features.

## Main Features:

- HIS database integration
- Patients particulars touch-panel display
- 6 emergency code calling capability from the patient's panel
- RFID card/tag nurse call cancellation
- 12 emergency code calling capability from the staff console
- Radio, T.V. and room light control capability
- Nurse call prioritizing in 3 levels: normal, emergency and critical
- 2-way voice communication through intercom panel
- Remote managerial reporting capability

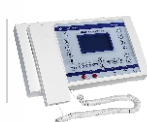


## NETWORK INTEGRATED REPORTING NURSE CALL SYSTEM

### Management Center



Terminal Box  
TB102



Staff Console  
CUI06



Corridor Dot-Matrix Display  
DP01



Managerial Reporting  
PC



Management Software  
CUS06



Call Voice Recorder  
VP01

### Patient Service Console



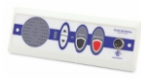
Patient Handset  
NCB05



Pear Push Switch  
NCB03



2-way Voice  
Communication Panel  
BCP17



2-way Voice  
Communication Panel  
BCP18

### Room Ward Corridor



Pull Cord Nurse Call  
+ Cancel/ Presence Switch  
TB12



Corridor Status Light  
ODL19

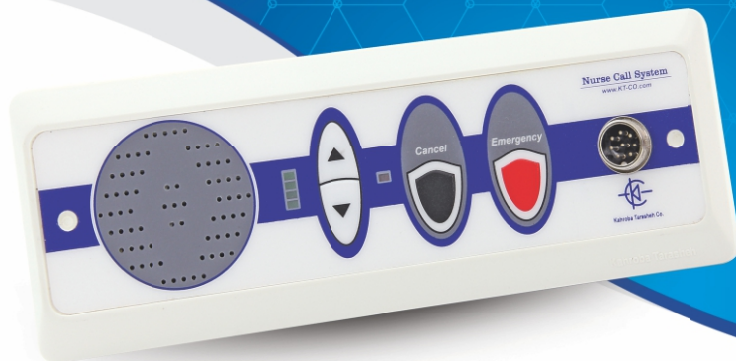


Cancel/Presence Switch  
CB17

This is the second-best nurse call system offered by KT-NCS. It can integrate with Hospital Information System (HIS) accompanied by limited emergency code call features.

### Main Features:

- Remote managerial report generating through Legacy WAN/LAN
- Record, monitor and analyze call types and staff performance
- Call response delay and breach monitoring
- Customizable report formats
- 12 emergency code calling capability from the staff console
- Nurse call prioritizing in 3 levels: normal, emergency and critical
- 2-way voice communication through intercom panel
- Radio, T.V. and room light control capability
- Call voice recording and dot-matrix display accessories



## INTERCOM NURSE CALL SYSTEM

### Management Center



Staff Console  
CUI04



Corridor  
Dot-Matrix Display  
DP01



Terminal Box  
TB102

### Patient Service Console



Pear Push  
Nurse Call Switch  
NCB03



2-way Voice  
Communication Panel  
ECP16



2-way Voice  
Communication Panel  
ECP17

### Room Ward Corridor



Pull Cord Nurse Call + Cancel/  
Present Switch  
TB12



Corridor Status Light  
ODL19



Cancel/ Presence Switch  
CB17

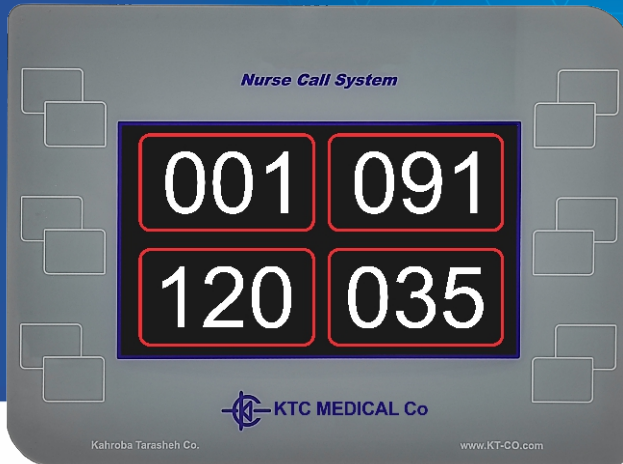
The generic **KT-NCS** nurse call system with 2-way voice communication capability. It can also activate 12 emergency code calls via the staff console.

### Main Features:

- 12 emergency code calling capability from the staff console
- Nurse call prioritizing in 3 levels: normal, emergency and critical
- 2-way voice communication through intercom panel
- Radio, T.V. and room light control capability



# BASIC NURSE CALL SYSTEM



Terminal Box  
TBN02



Staff LCD Display  
CUN02

Management  
Center

The KT-NCS basic low-cost nurse call system with 120-entry queue management capability.

## Main Features:

- Nurse call bed-number only display capability
- Nurse call room-number only display capability
- Display of the first 4 calls along with melody alarm
- Chronological queue management on the first 120 nurse calls in a maximum 240-bed facility
- Simple and low-cost



Nurse Call+ Cancel/  
Presence Switch  
PBCN13



Nurse Call Switch  
+ Pear Push Socket  
PBC12



Cancel/ Presence Switch  
+ Pear Push Socket  
PBCN11



Pear Push  
Nurse Call Switch  
PBC03

Patient  
Service Console



Pull Cord  
+ Cancel/ Presence Switch  
TB12



Corridor Status Light  
ODL19



Cancel / Presence  
Switch  
CBN11

Room  
Ward  
Corridor

# WIRELESS NURSE CALL SYSTEM



Management  
Center



Wireless Staff Seven Segment Display  
K-USB

Patient  
Service Console



Pear Push Nurse Call Switch  
PBW01



Wireless Nurse Call  
+ Cancel/  
Presence Switch + RJ11 Socket  
WB01

Room  
Ward  
Corridor



Wireless Pull Cord  
+ Cancel/ Presence Switch  
WT01

The simplest nurse call system offered by **KT-NCS** with no need for wiring or legacy cabling, applicable to all different layout configurations of the facility.

## Main Features:

- Low cost
- Simple installation
- Applicable to any layout configuration
- Mobile patient support capability

# SURGICAL INTERCOM SYSTEM



Staff Console  
CUI04-OP

Contactless Nurse Call + Cancel/  
Presence Switch Intercom Panel



Microphone  
+ Nurse Call Switch  
IP09-V  
& NCB19



Hot Line Unit  
IH01



KT-NCS offers contactless intercom panels and hot lines for fast and secure communication between the physicians, nurses and laboratories.

## Main Features:

- Contactless call from surgery room to nurse center
- 2-way voice communication intercom
- Voice recording capability
- Simultaneous communication between one Nurse center and multiple surgery rooms
- Microphone and speaker volume control buttons
- Hot-line capability





KT- NCS



Website

Address: KT-NCS - No: 44 - Moayyer St. -Mofatteh Ave. - Tehran- Iran  
Postal Code: 1596785613 Tel: +98 -21- 43368000 info@KT-Co.com

 [www.KT-Co.com](http://www.KT-Co.com)