

SMART NCS-STAFF CONSOLE (CUI-32)

CUI-32 is a desk unit with integral operating elements. It can make Direct Audio Call to each Patient Consoles (BCU-34/BCU-34N). It can also initiate emergency codes by touching one of the associated 12 programmed icon or by pressing 4 dedicated buttons on the console through connection to hospital Emergency /Group Summon System.

The Touch LCD can show up to 8 color coded Nurse Calls on the screen in Priority Order. A patient intercom panel and the connected handset/pear push can be set to "Critical" priority level using the menus on the staff console.

The incoming calls lit corresponding indicator lamps on the console along with playing the related sound alarm for notification of the staff away from the console. Patients can also initiate a 2-way full-duplex Audio call to CUI-32 through their Service Console (BCU-34/BCU-34N)

The console can connect to maximum 64 patient Intercom panels (BCU-34/BCU-34N) via the terminal box (TBX-31). It also connects to Hospital Information System (HIS), Hospital Emergency Code Calling system and corridor Display Unit (NDP-31) IP addresses through Hospital LAN .

The unfinished calls are posted on the touch LCD until they are taken care of by the staff.



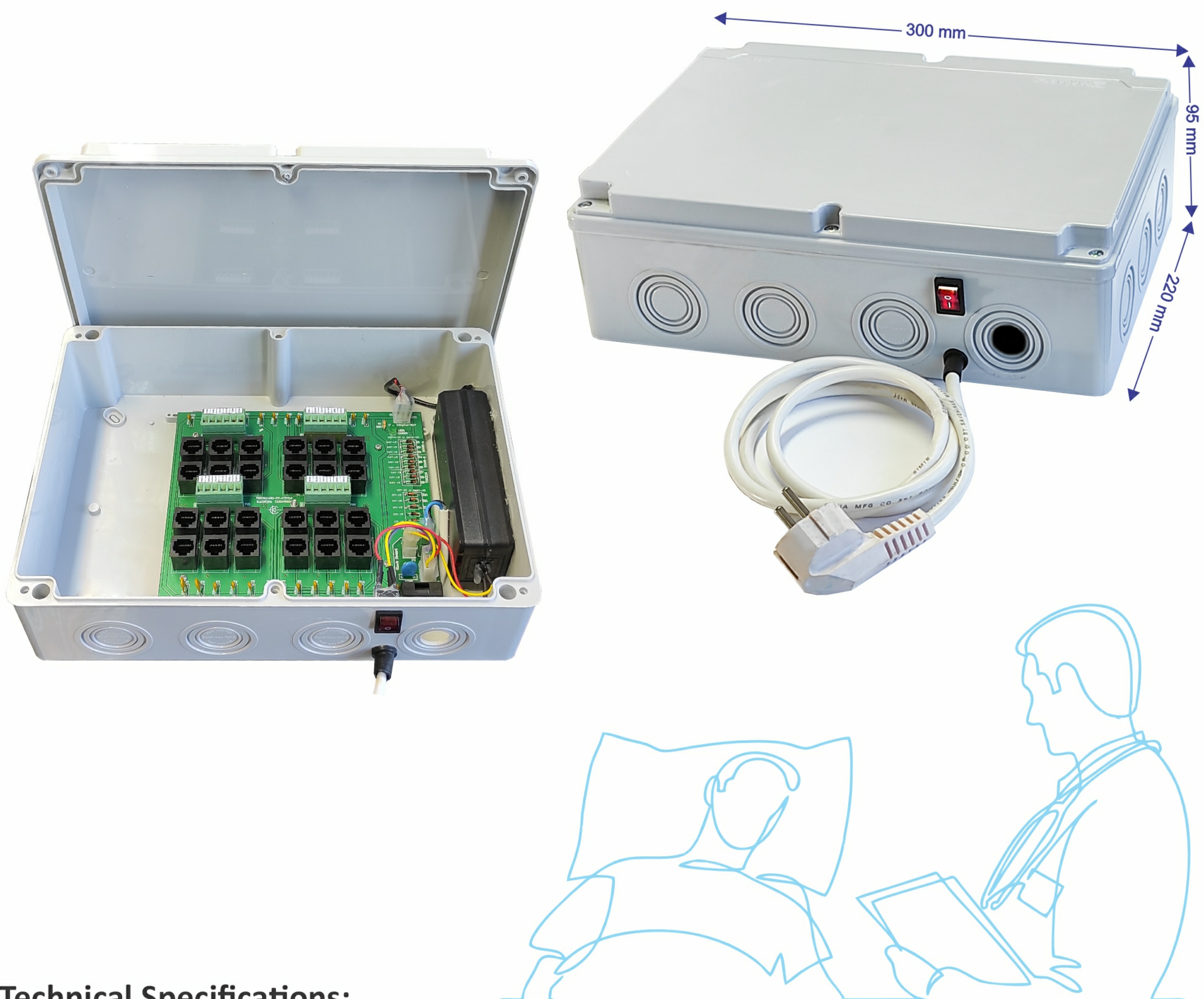
Technical Specifications:

| | | | |
|-----------------------|---|----------|-----------|
| Weight | 827 g | | |
| Dimensions | W: 280 mm | H: 48 mm | D: 160 mm |
| Raw Material | Polycarbonate-ABS | | |
| Power Supply | 24 VDC | | |
| Color | White | | |
| Port1 | RJ45 Connector to Terminal Box (TBX-31) | | |
| Port2 | RJ45 to Hospital Network | | |
| LCD Type | 7-inch Touch , TFT | | |
| Speaker | 8 Ohms , 0.5 Watt | | |
| Operating Temperature | -10°C ~ +50°C | | |
| Operating Humidity | 30% ~ 80% RH | | |
| Mounting | Desk / Surface | | |

SMART NCS – TERMINAL BOX (TBX-31)

TBX-31 is the interface between Patients' Intercom Panels (BCU-34/BCU-34N) via RJ45 and Phoenix ports and the staff console (CUI-32) via RJ45 port under RS-485 communication protocol.

TBX-31 provides the 24VDC power for the staff console.



Technical Specifications:

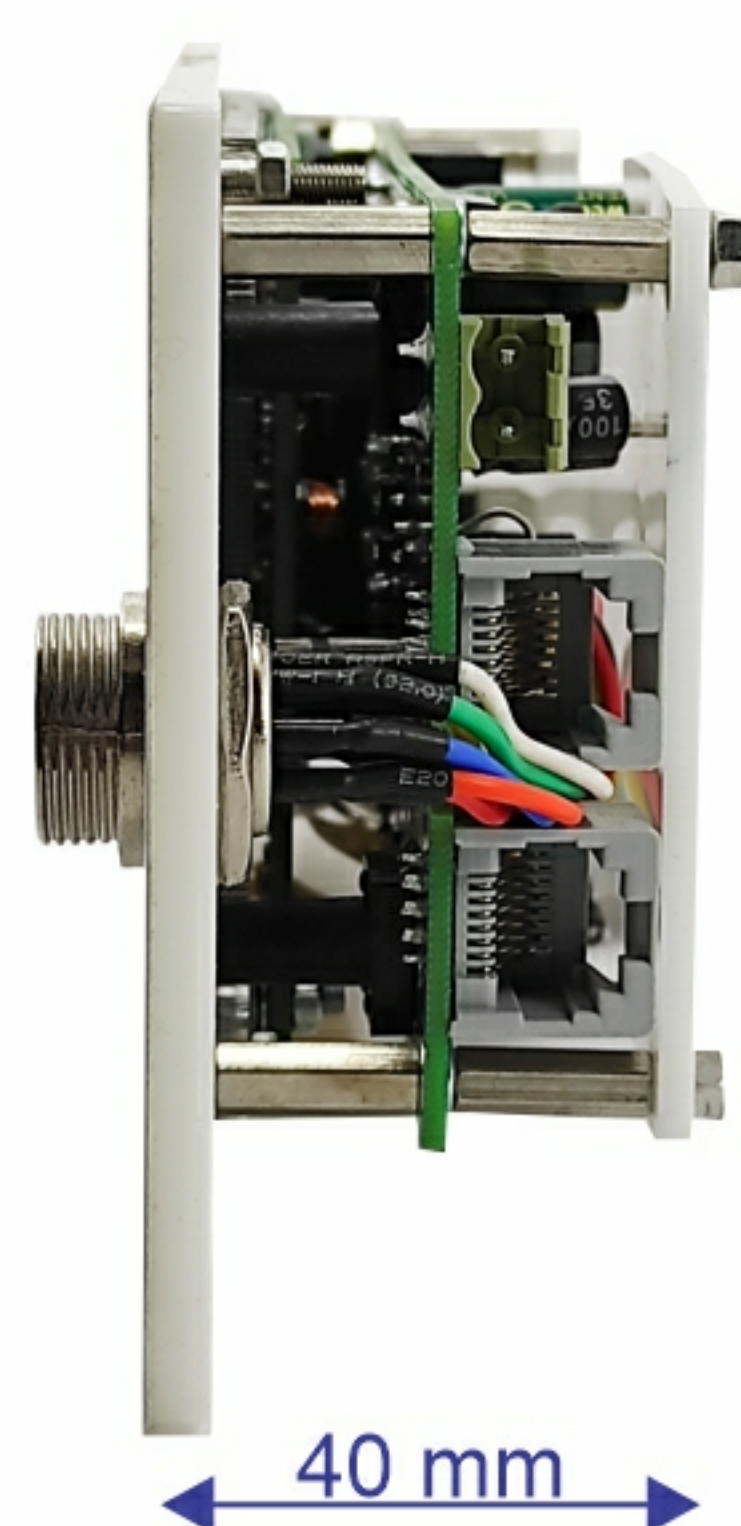
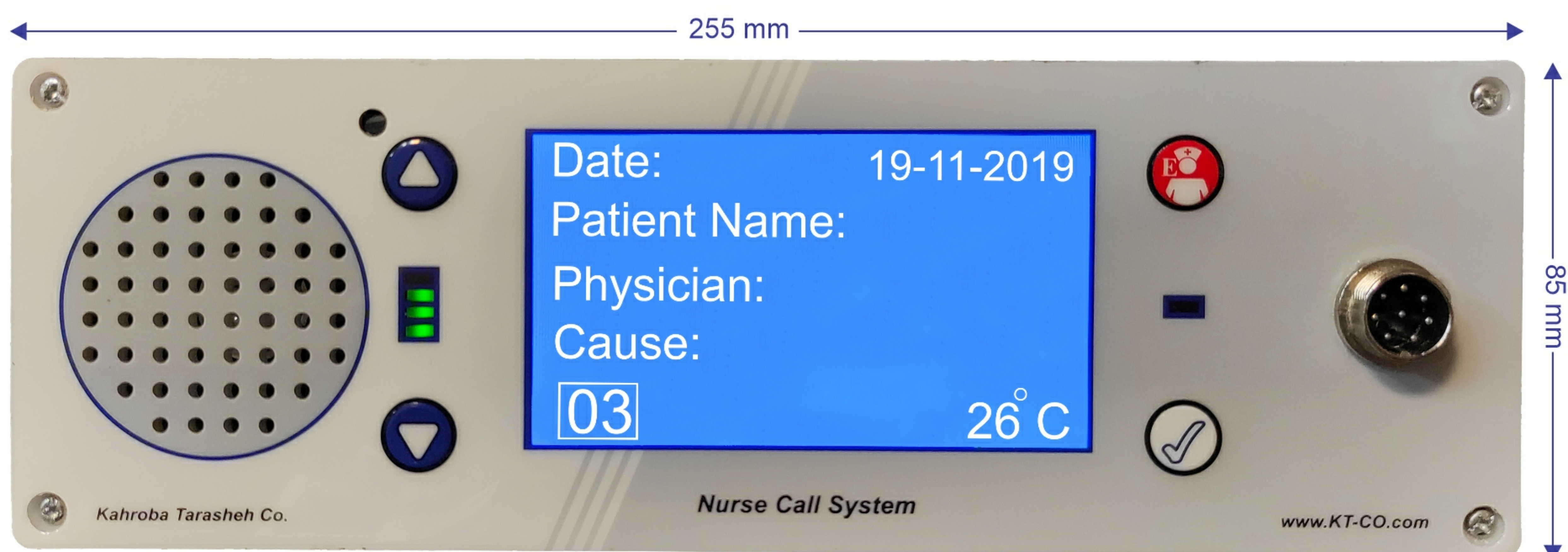
| | | | |
|-----------------------|--|---------|-----------|
| Weight | 1726 g | | |
| Dimensions | W: 300 mm | H:95 mm | D: 220 mm |
| Raw Material | ABS | | |
| Power Supply | 220 ~ 240 VAC , 0.2 A (50 HZ) | | |
| Output Power | 240 W (24 VDC) | | |
| Color | Grey | | |
| Port1 | 24 x RJ45 | | |
| Port2 | 4 x 6-pin Phoenix | | |
| Operating Temperature | -10°C ~ +50°C | | |
| Operating Humidity | 30% ~ 80% RH | | |
| Mounting | Surface (Max. 3 meters from Staff Console) | | |

SMART NCS-PATIENT'S INTERCOM PANEL (BCU-34N)

BCU-34N is the bedside Patient's panel with a speaker to enable 2-way full-duplex communication between the patient and the management staff using the microphone on the pear push switch or handset (NCB-33/35). It has 2 buttons to adjust the volume of the speaker. It is equipped with an 8-pin military connector to ensure constant connectivity of the panel to Patient's Handset / Pear push Button (NCB-33/35) despite probable jolts.

BCU-34N also has a Nurse Call and a Cancel/Presence Switch and can initiate 5 different emergency code calls by holding any of the 2 volume rocker buttons and then pressing any of the other 3 remaining buttons (other volume rocker button or cancel button or emergency call button).

BCU-34N comes with a 4.3-inch display to monitor the Patient particulars from Hospital Information System (HIS) through Staff Console (CUI-32). The display shows date, room temperature, bed number, physician name and the cause for hospitalization.



Punch Console



Technical Specifications:

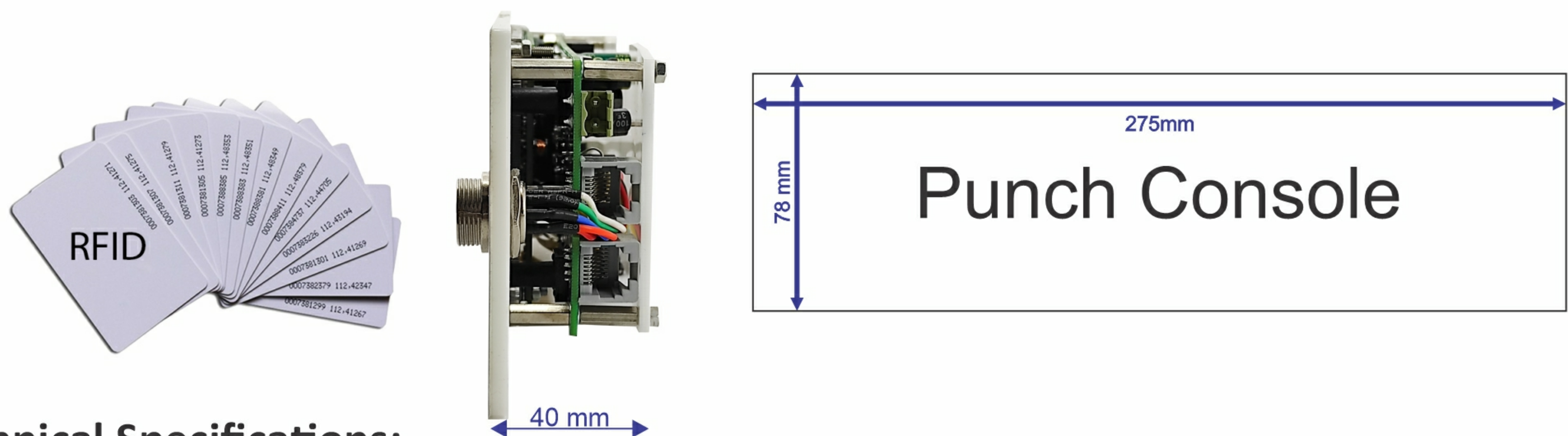
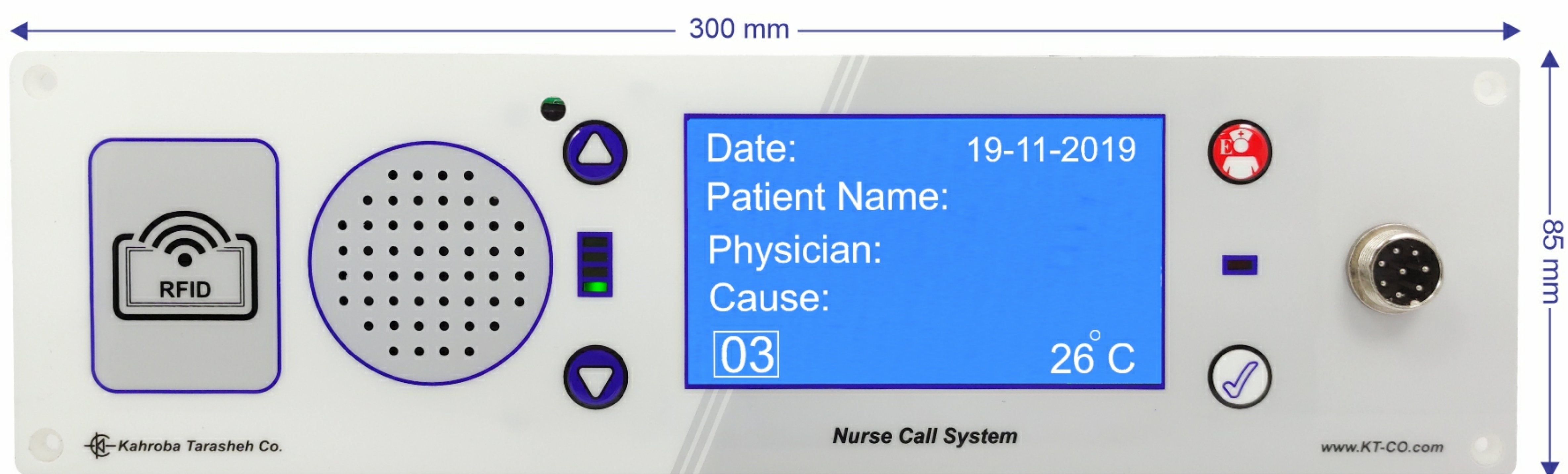
| | |
|-----------------------|---|
| Weight | 377 g |
| Dimensions | W:255 mm H: 85 mm D:40 mm |
| Raw Material | Polycarbonate, Plexiglass |
| Power Supply | 12 V DC (via an external Power Adaptor) |
| Color | White |
| Port1 | RJ45 Connector to Layout Ring Wiring |
| Port2 | 8-pin, Military male connector to Patient's Handset |
| LCD Type, Size | TFT, 4.3" |
| Speaker | 8 ohms, 0.5 Watt |
| Operating Temperature | -10 °C ~ +50° C |
| Operating Humidity | 30% ~ 80% RH |
| Mounting | Flush (Cavity Dimension: 235 mm x 78 mm x 100 mm) |

SMART NCS-PATIENT'S INTERCOM PANEL+ RFID (BCU-34)

BCU-34 is the bedside Patient's panel with a speaker to enable 2-way full-duplex communication between the patient and the management staff using the microphone on the pear push switch or handset (NCB-33/35). It has 2 buttons to adjust the volume of the speaker. It is equipped with an 8-pin military connector to ensure constant connectivity of the panel to Patient's Handset / Pear push Button (NCB-33/35) despite probable jolts.

BCU-34 also has a Nurse Call and a Cancel/Presence Switch and can initiate 5 different emergency code calls by holding any of the 2 volume rocker buttons and then pressing any of the other 3 remaining buttons (other volume rocker button or cancel button or emergency call button).

BCU-34 is equipped with an RFID card/tag to be used as the Nurse Presence indicator and comes with a 4.3-inch display to monitor the Patient particulars from Hospital Information System (HIS) through Staff Console (CUI-32). The display shows date, room temperature, bed number, physician name and the cause for hospitalization.



Technical Specifications:

| | |
|-----------------------|--|
| Weight | 400 g |
| Dimensions | W: 300 mm H: 85 mm D:40 mm |
| Raw Material | Polycarbonate, Plexiglass |
| Power Supply | 12 V DC (via an external Power Adaptor) |
| Color | White |
| Port1 | RJ45 Connector to Layout Ring Wiring |
| Port2 | 8-pin, Military male connector to Patient's Handset |
| RFID Reader/Tag | Range: 1 ~ 4 cm, Frequency: 125 KHz, Data: 40-bit ID |
| LCD Type, Size | TFT, 4.3" |
| Speaker | 8 ohms, 0.5 Watt |
| Operating Temperature | -10 ° C ~ +50° C |
| Operating Humidity | 30% ~ 80% RH |
| Mounting | Flush (Cavity Dimension:275mm x 78 mm x 100 mm) |

SMART NCS-PATIENTS' HANDSET (NCB-35)

NCB-35 is the advanced patients' handset with a Nurse Call switch attached to the patient's intercom panel (BCU-34/BCU-34N) via a coiled cord secured by an 8-pin military socket preventing detachment from the panel by any jolt.

NCB-35 also has a microphone for a 2-way full-duplex communication to the staff console (CUI-32) in combination with the speaker in the patient's panel (BCU-34/BCU-34N). It also acts as a pillow speaker for FM radio and a keypad for T.V./Radio control. It comes with a 5mm headphone jack and has a switch to turn on/off the reading light in the Patient's console.


Technical Specifications:

| | | | |
|---------------------------|--|-----------|---------|
| Weight | 245 g | | |
| Dimensions | W: 55 mm | H: 200 mm | D: 23mm |
| Raw Material | Body: Polycarbonate +ABS Coiled Cable: PUR | | |
| Color | White | | |
| Connection | 8-pin Gx16 (Female) | | |
| Port I | Headphones 5mm Jack | | |
| Speaker | 0.5 W / 8 Ohm | | |
| Keypad | Keypad | | |
| Cable Length | 4 m | | |
| Remote T.V./Radio Control | Yes | | |
| Operating Temperature | -10°C ~ +50°C | | |
| Operating Humidity | 30-% ~ 80% RH | | |
| Mounting | Tabular at the bedside/Wall | | |

SMART NCS- PEAR PUSH SWITCH(NCB-32)

NCB-32 is the pear push nurse call switch connecting to the patient's intercom panel (BCU-34/BCU-34N) via a coiled cord secured by an 8-pin military socket preventing detachment from the panel by any jolt.

NCB-32 also has a microphone for a 2-way full-duplex communication to the staff console (CUI-32) in combination with the speaker in the patient's panel (BCU-34/BCU-34N).

NCB-32 has a switch to turn on/off the reading light in the Patient's console.


Technical Specifications:

| | | | |
|-----------------------|--|----------|----------|
| Weight | 150 g | | |
| Dimensions | W:40 mm | H:100 mm | D: 28 mm |
| Raw Material | Body: Polycarbonate +ABS Coiled Cable: PUR | | |
| Power Supply | 5 VDC | | |
| Color | White | | |
| Connection | 8-Pin Gx16 (Female) | | |
| Cable Length | 4 m | | |
| Operating Temperature | -10°C ~ +50°C | | |
| Operating Humidity | 30-% ~ 80% RH | | |
| Mounting | Tabular at the bedside/Wall | | |

SMART NCS- PEAR PUSH SWITCH(NCB-33)

NCB-33 is the pear push nurse call switch connecting to the patient's intercom panel (BCU-34/BCU-34N) via a coiled cord secured by an 8-pin military socket preventing detachment from the panel by any jolt.

NCB-33 also has a microphone for a 2-way full-duplex communication to the staff console (CUI-32) in combination with the speaker in the patient's panel (BCU-34/BCU-34N).

NCB-33 has a switch to turn on/off the reading light in the Patient's console.


Technical Specifications:

| | | | |
|-----------------------|--|----------|----------|
| Weight | 150 g | | |
| Dimensions | W:40 mm | H:100 mm | D: 28 mm |
| Raw Material | Body: Polycarbonate +ABS Coiled Cable: PUR | | |
| Power Supply | 5 VDC | | |
| Color | White | | |
| Connection | 8-Pin Gx16 (Female) | | |
| Cable Length | 4 m | | |
| Operating Temperature | -10°C ~ +50°C | | |
| Operating Humidity | 30-% ~ 80% RH | | |
| Mounting | Tabular at the bedside/Wall | | |

SMART NCS- CORRIDOR STATUS LIGHT (ODL-34/35/36)

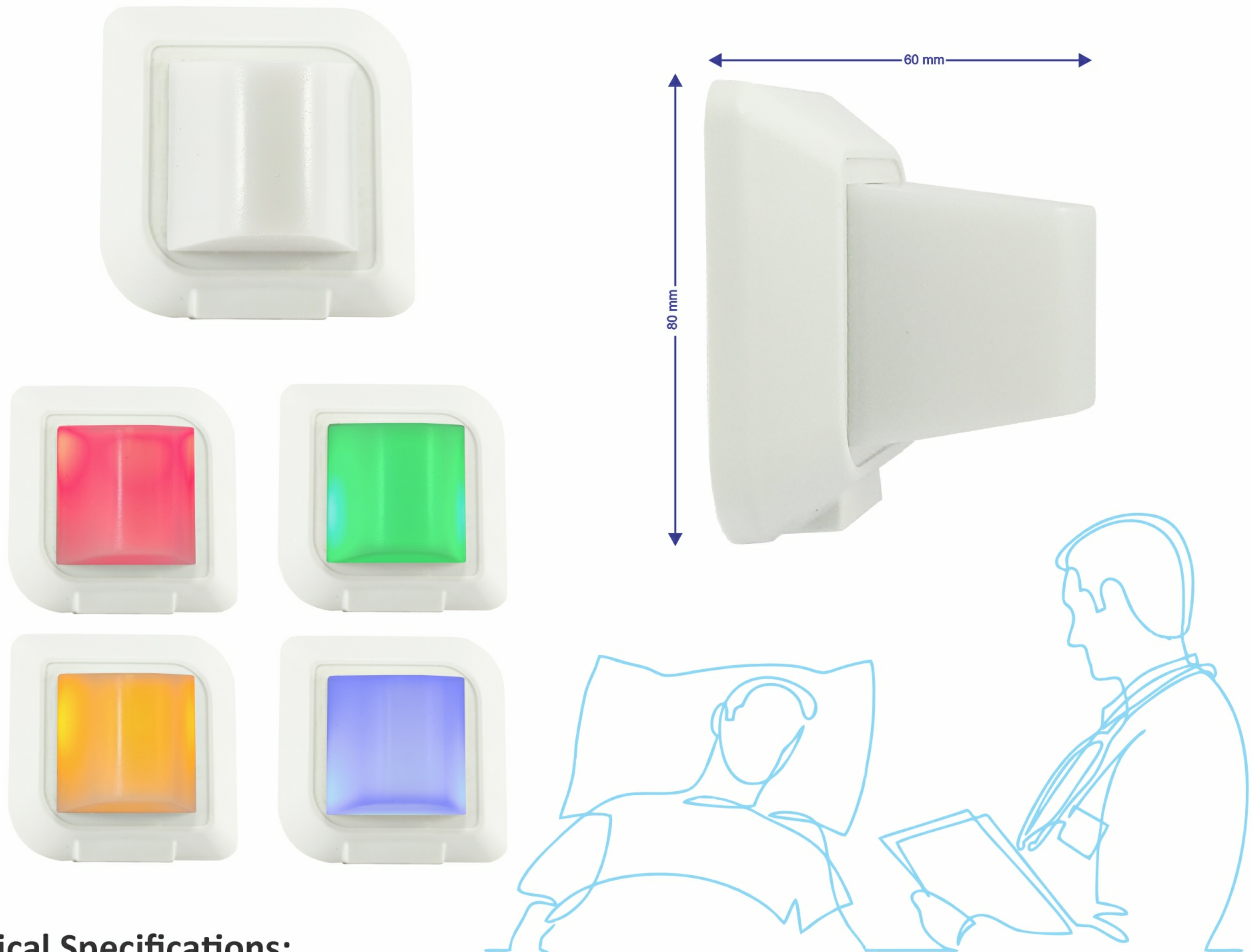
ODL-34 is a wedge-shape corridor light noticeable from 5 angles which is installed above the patients' room door in the corridor.

ODL-34 has 4 different LED Light colors that will illuminate showing the following states:

- Green Color (Steady): Normal Nurse Call status.
- Red Color (Blinking): Emergency/Critical Nurse Call Status.
- Yellow Color (Steady): Nurse Present status.
- Blue color (Blinking): Code Blue-CPR status.

The light is OFF when no Call has been activated.

It is also possible to set the colors for the 4 states customized through either flexible (changeable by the customer) 12-Bit switches (ODL-35) or fixed (one-time set by the technician) 12-Bit H.W integrated jumpers (ODL-36) , each rendering 4'000 colors.

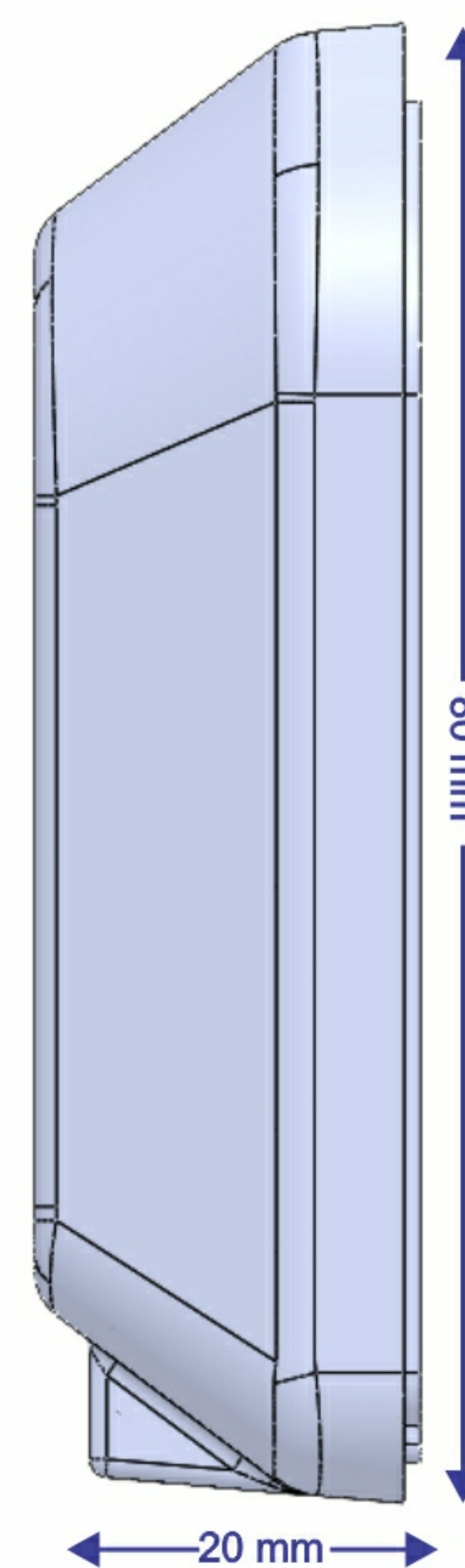

Technical Specifications:

| | | | |
|-----------------------|--------------------------|---------|----------|
| Weight | 75g | | |
| Dimensions | W: 80 mm | H:80 mm | D: 60 mm |
| Raw Material | ABS | | |
| Color | White | | |
| Power Supply | 5 V | | |
| Light Type | LED | | |
| LED Colors | Green /Red /Yellow /Blue | | |
| Operating Temperature | -10°C ~ +50°C | | |
| Operating Humidity | 30-% ~ 80% RH | | |
| Mounting | Flush/Surface | | |

SMART NCS-PULL CORD SWITCH (TB-31)

TB-31 is used in patient's bathroom, shower or similar areas making the call easier by pulling the cord. It activates a Service call in the staff console which has a higher priority than normal /emergency nurse calls.

TB-31 comes with a Cancel/Presence switch on the panel and has ingress protection rating (IP) against liquids up to IPX5.



Technical Specifications:

| | | | |
|-----------------------|---------------------|----------|---------|
| Weight | 58g | | |
| Dimensions | W: 80 mm | H: 80 mm | D:20 mm |
| Raw Material: | Polycarbonate + ABS | | |
| Color | White | | |
| Power Supply | 12 V | | |
| Cord Capacity | Max 20 Kg | | |
| Operating Temperature | -10°C ~ +50°C | | |
| Operating Humidity | 30-% ~ 80% RH | | |
| Mounting | Surface/Flush | | |

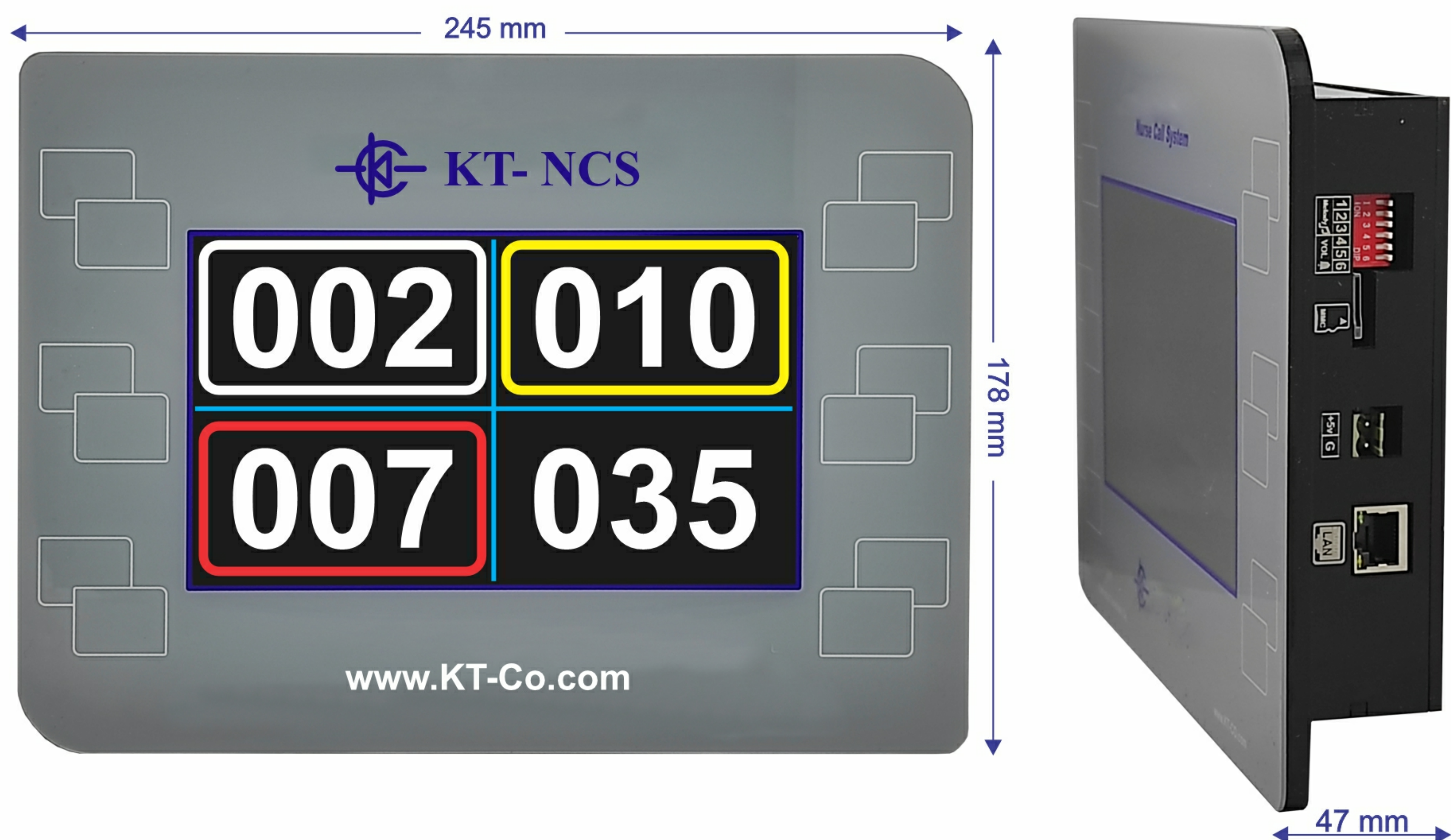
SMART NCS-STAFF DISPLAY UNIT (NDP-31)

NDP31 is the display unit installed in the management center. It is used to display the four highest priority calls from top left to bottom right of the display. The same priority calls are displayed in chronological order.

The highest priority is for critical beds with colored border. The second highest is for service calls with colored border. The third highest is for bed emergency calls with colored border.

The lowest is for bed normal calls with no border. The colors of the borders is customizable.

The Alarm for a new call is played by an internal speaker with melodies stored on a local Micro-SD card.


Technical Specifications:

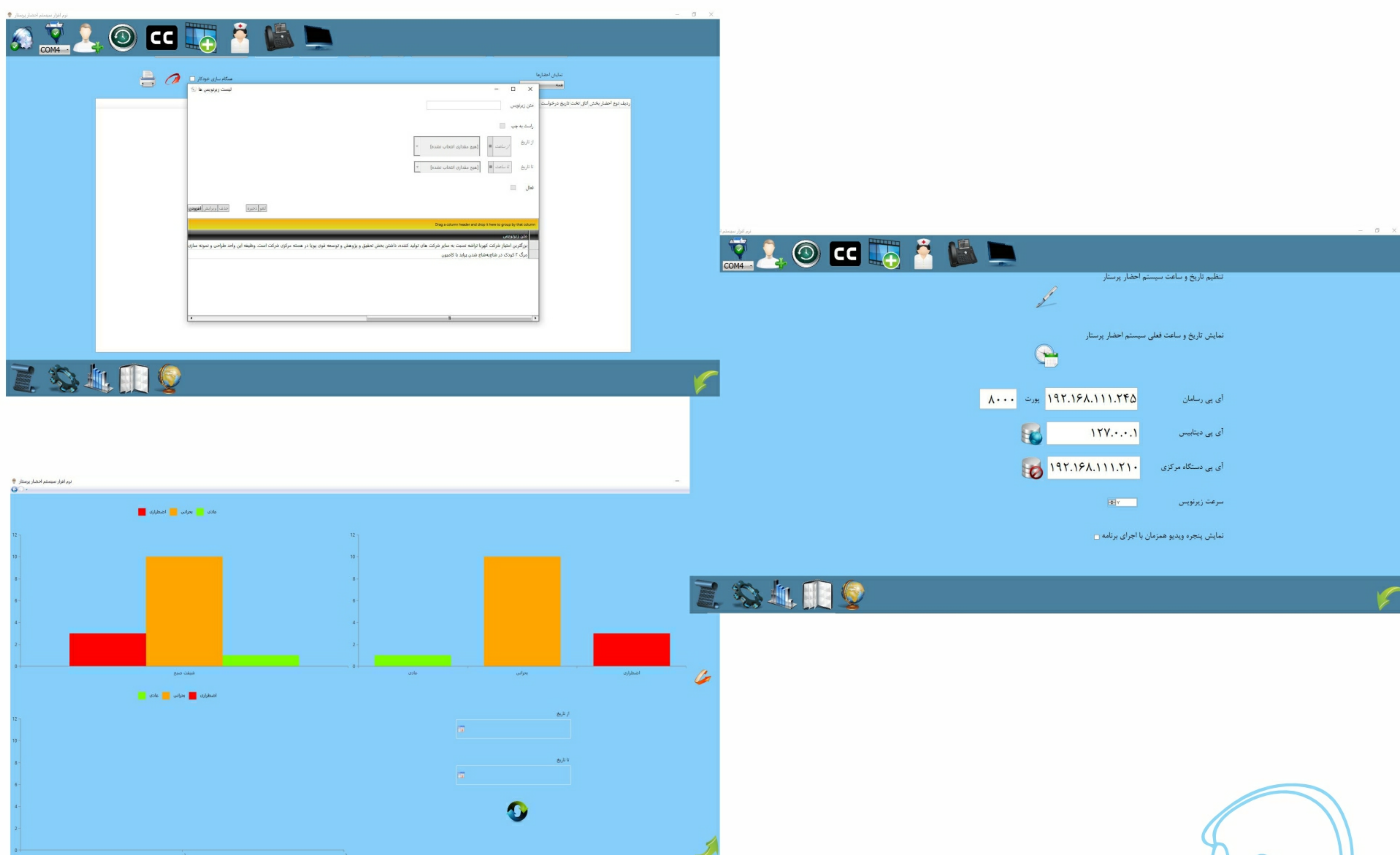
| | | | |
|-----------------------|-----------------------------|-----------|----------|
| Weight | 918 g | | |
| Dimensions | W: 245 mm | H: 178 mm | D: 47 mm |
| Raw Material | Plexiglass + Plexiprint | | |
| Color | White | | |
| Power Supply | 5 V via external AC adapter | | |
| Display Type | 7-inch TFT | | |
| Internal Speaker | 2 W, 8 Ohms | | |
| Port | RJ45 via Crossed Cable | | |
| Operating Temperature | -10°C ~ +50° C | | |
| Operating Humidity | 30% ~ 80% RH | | |
| Mounting | Surface | | |

SMART NCS- MANAGEMENT REPORTING S.W.(CUS)

CUS is the management software connecting one or several staff consoles to the management report displaying unit through hospital LAN.

It can Record, Monitor and Analyze Call types, Staff Performance, Call Response Delay and Call Breaches in any given time period. The reports can be in PDF format or column charts. It also provides the means to associate the RFID tags to the staff for reporting purposes.

The managers can sort/ filter the call reports by their priority level.

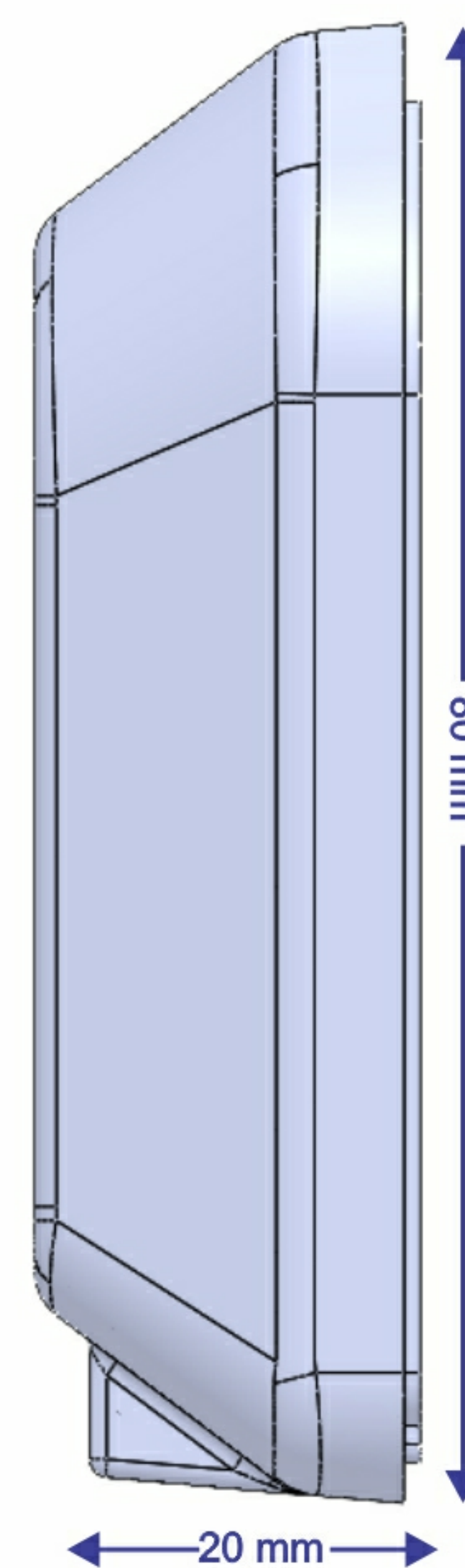


Technical Specifications:

| | |
|---------------------------|---------------------------|
| Required Operating System | Windows 10/Server |
| Required H.D.D. | Min.120 GB |
| Required RAM | Min 4G |
| Required Hardware | Ethernet Port |
| Required Processor | Min Core i3 or equivalent |
| Centralized Database | MS SQL |

SMART NCS-Cancel/Presence Switch (CB-31)

CB-31 is a Cancel/Presence switch usually installed by the door of the patients' room. It can cancel any Normal/ Emergency /service or Critical Nurse Call activated from the room. The nurse will use CB-31 after a call has been taken care of and there is no more activated call associated with the room.

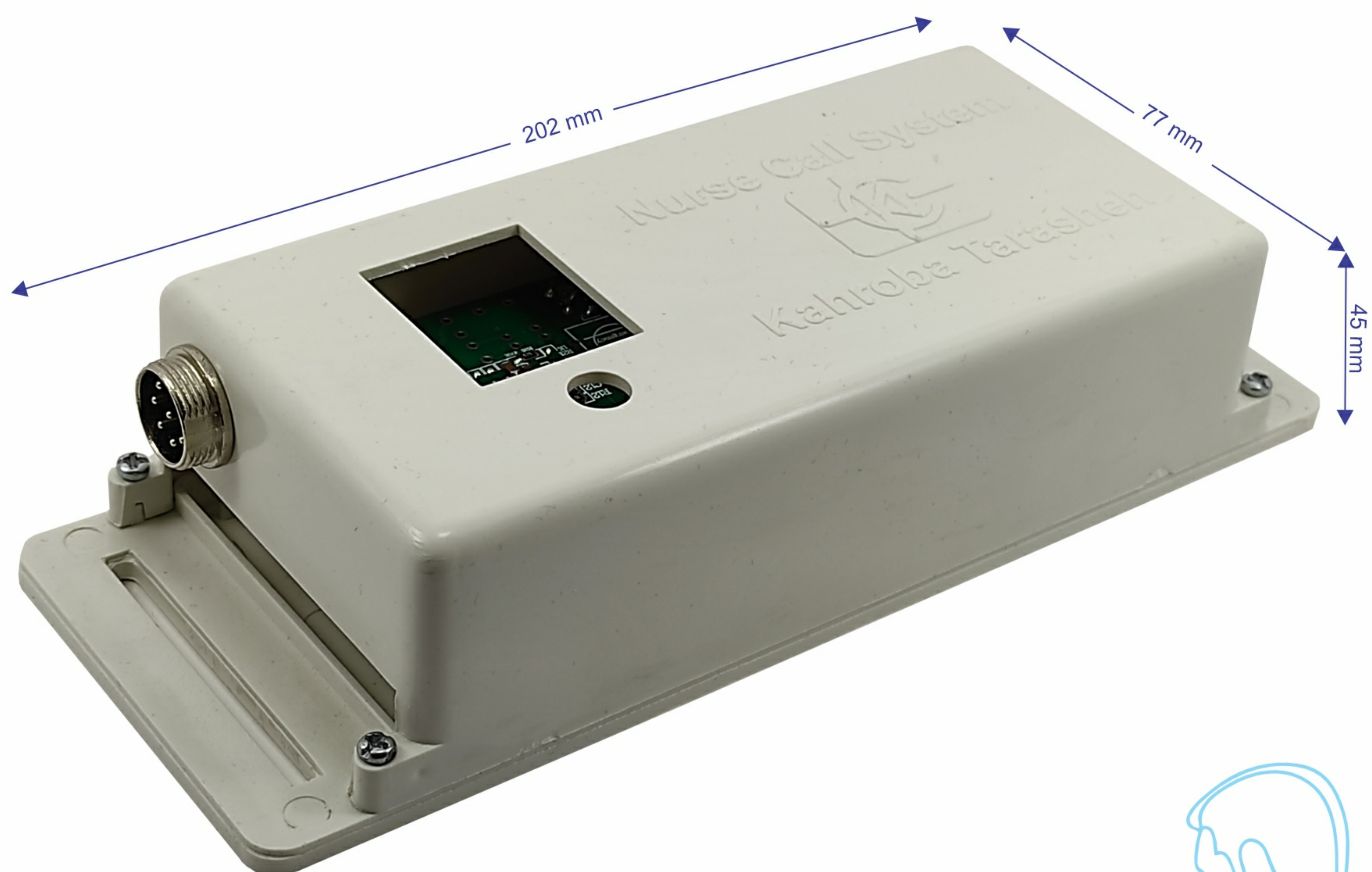


Technical Specifications:

| | | | |
|-----------------------|---------------------|----------|----------|
| Weight | 58 g | | |
| Dimensions | W: 80 mm | H: 80 mm | D: 20 mm |
| Raw Material | Polycarbonate + ABS | | |
| Color | White | | |
| Power Supply | 12 V | | |
| Operating Temperature | -10°C ~ +50° C | | |
| Operating Humidity | 30% ~ 80% RH | | |
| Mounting | Surface/Flush | | |

SMART NCS – External Washroom Control Board (BCU-31-S)

The external washrooms in the ward needs an external control panel to connect them as a separate node in the Nurse call System configuration.
Each external washroom needs one BCU-31-S module and a Cat5/6 cable connects it to the terminal box under RS485 protocol.



Technical Specifications:

| | | | |
|-----------------------|---|----------|----------|
| Weight | 161 g | | |
| Dimensions | W:202 mm | H: 77 mm | D: 45 mm |
| Raw Material | ABS | | |
| Color | White | | |
| Power Supply | 12 V DC (Via the Cat5/6 cable from the Terminal Box) | | |
| Port1 | RJ45 to Terminal box | | |
| Port 2 | RJ45 (To Pull cord switch , Cancel switch and Corridor Light) | | |
| Operating Temperature | -10°C ~ +50° C | | |
| Operating Humidity | 30% ~ 80% RH | | |
| Mounting | Surface | | |