



NCP 001 D

IP PC INTERCOM STATION

WITH CUSTOMIZABLE USER INTERFACE

The IP PC intercom station is especially designed for use in state-of-the-art control rooms. The software runs on a PC with Microsoft® Windows® 10/11 operating system. Operation is possible via mouse or via touch screen.

Its connection and health status is constantly monitored, logged and flexibly forwarded system-internally and to third-party systems.



- Graphical user interface divided into clearly structured areas and layers
- Management of up to 2000 buttons
- Individual background images
- Display of up to 10 video streams at the same time
- Display of detailed fault information from the system
- Audio bandwidth of up to 16 kHz
- Adaptive echo cancellation for full-duplex hands-free communication
- Automatic gain control for microphone
- Speaker and microphone volume adjustable via user interface
- 2 Ethernet interfaces for redundant network connection
- Self-diagnostics by monitoring microphone and network connectivity

OTHER FEATURES

Intuitive user interface and clear indication of current events

Software can run exclusively or in window mode

Design of user interface can be configured via the INDUSTRONIC configuration software Config Manager X

Changes in configuration can also be performed on site using the Config Manager X (e.g. number, layout, labeling and functions of the buttons, signaling, user interface layout)

Status indications:

Connection to the system

Redundancy and availability status

Faults

Microphone active while connection is established

Speaker or microphone muted

Confirmation prompt prior to alarm start

Dial keypad

Call history and current call requests

Various screen sizes and resolutions

Support of two monitors when application runs in window mode



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VIDEO INTEGRATION

The NCP enables the seamless integration of video intercom stations with camera – ideal for effective access control.

Up to 10 video streams can be displayed at the same time in different layouts:

- Single view: Focus on a selected video stream
- Grid layout: Simultaneous overview of several streams
- Stack layout: Stacked layout of several streams, with the active call always displayed in the foreground

How to invoke the incoming video streams can be flexibly configured and can be adapted to the needs of the control room staff:

- Automatically when an operator presses a button at the video intercom station for call request
- Automatically when the NCP operator accepts an incoming call
- Manually when the operator presses a button on the NCP user interface – either with or without simultaneous audio connection

List views are an optional feature enabling a structured handling of incoming calls and improving overview – especially useful when there are lots of call requests.

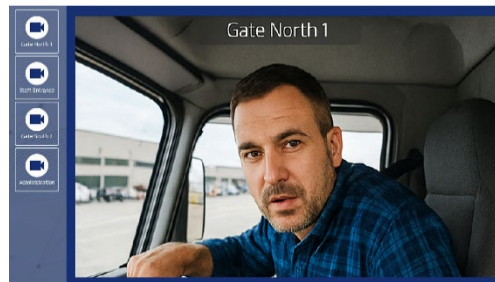


Fig. 1: Single view

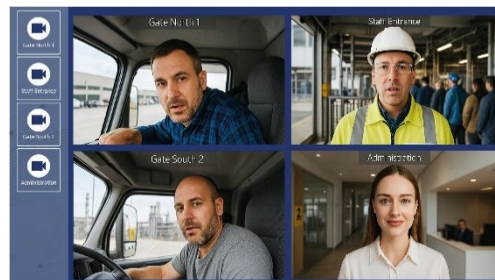


Fig. 2: Grid layout

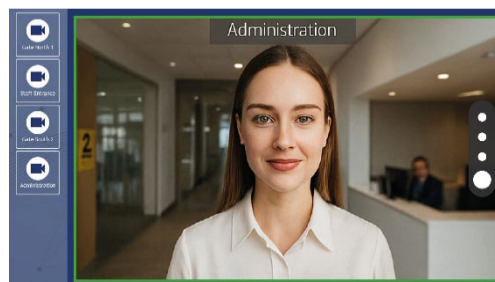


Fig. 3: Stack layout with active audio connection

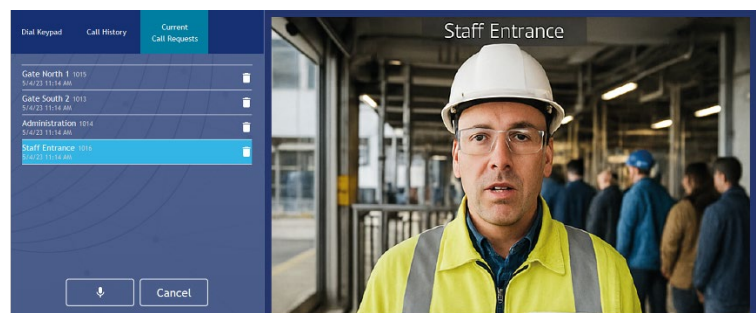
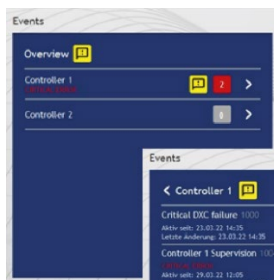


Fig. 4: List view for structured handling of calls

FAULT INDICATION

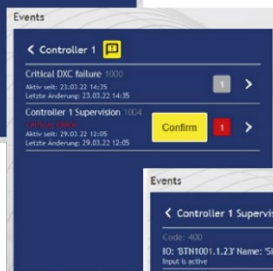
The NCP enables the display and confirmation of fault messages of the entire system.

- Structured display of all active fault messages at various detail levels from the system overview to the fault details of the monitored devices
- Clear signaling of pending fault message confirmations with guided navigation and direct confirmation in the view



Level 1 Overview

Displaying all active fault messages in the entire system



Level 2 Events

List of all active fault messages in the segment



Level 3 Error Codes

Displaying the specific error codes of the fault message



COMPONENTS

The components listed below can be ordered from INDUSTRONIC in different sales packages. If hardware is provided by the customer, we recommend consulting INDUSTRONIC to have the compatibility of the equipment checked.

If hardware from the customer or from third-party suppliers is used, INDUSTRONIC assumes no guarantee for the reliable functioning of the NCP software.



Type	1 NIPC 005
Description	PC with Microsoft® Windows® 11 IoT Enterprise LTSC, Intel® Celeron (R) N97, 8 GB RAM, SSD 256 GB
Type number	351-100-500



Type	19 NTMD 003
Description	19" touch screen monitor with stand and bracket for mounting a PCs of the 1 NIPC 00x series
Type number	351-200-400



Type	24 NTMD 001
Description	24" touch screen monitor with stand
Type number	351-200-500



Type	1 NMID 001
Description	Desktop microphone with Push-to-Talk button (PTT button) for connection to a PC via a 1.4 m (4.59 ft) long USB cable
Type number	001-002-013



Type	1 NMID 002
Description	Desktop microphone with Push-to-Talk button (PTT button) for the connection to the handset of the 1 NHAS 001 series via a 1.6 m (5.25 ft) long RJ10 cable
Type number	001-002-014



Type	2 NSPD 003
Description	Desktop speakers for connection to a PC via a 0.80 m (2.62 ft) long USB cable
Type number	202-523-700



Type	30 NSPD 002
Description	Desktop speakers for connection to the handset of the 1 NHAS 001 series via a 1.5 m (4.92 ft) long RJ10 cable, 170 Hz to 20 kHz
Type number	202-523-600



Type	1 NHAS 001
Description	Handset with Push-to-Talk button (PPT button) for connection to a PC via a 2 m (6.56 ft) long USB cable
Type number	070-007-134



Type	1 NHES 001
Description	Monaural headset with flexible gooseneck microphone, USB interface with PTT button, for operation at an IP PC intercom station NCP 001 D. Interface: USB-A
Type number	070-013-003



Type	1 NHES 001/H
Description	Monaural headset with flexible gooseneck microphone, for operation at an IP PC intercom station NCP 001 D. For hygiene reasons, we recommend a personal headset for every employee. To operate the headset you require one single USB interface with PTT button (included in type number 070-013-003). Interface: Binder plug
Type number	070-013-002

TECHNICAL DATA

ELECTRICAL DATA

Power supply	100 V AC to 240 V AC, 50/60 Hz
Power consumption	Max. 60 W Typical 40 W

MINIMUM REQUIREMENTS FOR PC HARDWARE*

Processor	Intel® Core™ i3 processor (or similar)
Mass storage	120 GB HDD or SSD
RAM	4 GB
Graphics card	Intel® HD 4400 (or similar), DirectX 11
Graphics interface	DVI, HDMI or DisplayPort (depending on the monitor used)
Interfaces	4 x USB 3.0
Network interfaces	2 x LAN 100 Mbit

*Dedicated hardware recommended. An audio component must be available exclusively for NCP applications.

MINIMUM REQUIREMENTS FOR MONITOR*

Resolution	Min. 1024 x 768 px
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*When using a touch monitor: It must be possible to press a button continuously. Default setting: Pressing for approx. 2 seconds triggers a right click – this must be deactivated.

NETWORK REQUIREMENTS

IPv4 network
Support of UDP, TCP, RTP and RTCP protocols
Quality of Service (QoS) Ideal latency value < 20 ms (max. 50 ms) Jitter: max. 10 ms
10Base-T/100Base-TX Ethernet (IEEE 802.3), 100 Mbit/s recommended
200 kbit/s basic bandwidth and 200 kbit/s for active audio channel

VIDEO INTEGRATION

Camera type	Video-over-IP
Video streams	Up to 10 at the same time (4 when using the standard NCP hardware)
Supported video codec	Motion JPEG (MJPEG)
Streaming	Via HTTP/HTTPS protocol
Max. frame rate (live display)	15 FPS

OPERATING SYSTEM

Software runs under:

Microsoft® Windows® 10 IoT Enterprise

Microsoft® Windows® 11 IoT Enterprise

Microsoft® Windows® 11 Pro

ACTIVATIONS

Description	Type number
ACT-NCP Base Activation for one INDUSTRONIC IP intercom station of the NCP series	101-200-001
ACT-NCP 200 Buttons Activation of 200 buttons for INDUSTRONIC IP intercom stations of the NCP series	101-200-003
ACT-NCP Video Activation of the video function for one INDUSTRONIC IP intercom station of the NCP series	101-200-005
NCP Base & Buttons Activation for one INDUSTRONIC IP intercom station of the NCP series with 200 buttons	101-201-001
NCP Base, Buttons & Video Activation for one INDUSTRONIC IP intercom station of the NCP series with 200 buttons and video function	101-201-002

ORDER DATA

Type	Software	Speaker 2 NSPD 003	Microphone 30 NSPD 002	1 NMID 001	1 NMID 002	Handset 1 NHAS 001	PC 1 NIPC 005	Monitor 19 NTMD 003	24 NTMD 001	Type number
NCP 001 S	x									351-600-100
NCP 001 S-A01	x	x		x						351-601-100
NCP 001 S-A02	x		x		x	x				351-601-200
NCP 001 D-A03C05M1901	x	x		x			x	x		351-610-700
NCP 001 D-A02C05M1901	x		x		x	x	x	x		351-610-800
NCP 001 D-A03C05M2401	x	x		x			x		x	351-610-900

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