



Technical Specifications

MOBOTIX c71 NurseAssist *powered by Kepler Vision Technologies*

Detect falls and unauthorized bed leaving immediately in real time!

From now on, falls that are detected too late and unauthorized leaving of the bed can be avoided. Intelligent MOBOTIX sensor technology supports hospitals, nursing homes and retirement homes effectively and cost-efficiently in protecting patients and those in need of care - automatically around the clock.

- Monitor patient well-being with one optical sensor.
- Hemispherical optical sensor with 360° all-round vision without blind spots
- One sensor per patient/resident room is sufficient.
- Integrated AI-powered software detects incidents based on live images.
- Automatic alerts to staff in case of alarm.
- Direct patient dialog possible via integrated microphone/audio function.
- Simple and decent installation.
- GDPR compliant operation through event-controlled obscuring of live and recorded images.



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MOBOTIX

V2.18, 4/13/2026, Order Code: Mx-c71B-NurseAssist

V_4/13/2026, Order Code:

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Order Information

Name	MOBOTIX c71 NurseAssist powered by Kepler Vision Technologies
Order Code:	Mx-c71B-NurseAssist

Hardware

Image sensor (DN)	4k (1:1) effective max. resolution 2144x2144
Light sensitivity	<ul style="list-style-type: none">Color sensor (day): 0,1 lx @ 1/60 s; 0,005 lx @ 1 sBW sensor (night): 0,02 lx @ 1/60 s; 0,001 lx @ 1 s
Exposure control	Manual and automatic mode 1 s to 1/16,000 s
IK protection class	IK 10 for the housing except the lens
Operating temperature range	-10 to 50 °C/-14 to 122 °F
Internal DVR Storage	Internal microSD card (SDHC/SDXC), 8 GB out of the box, max. 1 TB.
Microphone/Speaker	Integrated Microphone: <ul style="list-style-type: none">Sensitivity: -35 dB +/-4 dB (0 dB = 1 V/pa, 1 kHz)

	<p>Integrated Loudspeaker:</p> <ul style="list-style-type: none"> ▪ 0.9 W at 8 Ohm
Integrated illumination	<p>850 nm IR, up to 15 m</p> <p>Also see the Kepler NurseAssist App requirements: https://www.-mobotix.com/de/media/5963</p>
Shock detector (tamper detection)	Yes
Max. power consumption	<p>Max. 25 W/521 mA at 48 V</p> <p>Max. 25 W/1042 mA at 24 V</p>
Average power consumption	14.5-16 W incl. IR, WDR and App
Electrical surge protection	Available with MX-Overvoltage-Protection-Box (not part of the scope of delivery)
PoE standard	<p>PoE Plus (802.3at-2009)/Class 4 (Class 3 can be enabled via HW switch. Note: IR illumination requires Class 4)</p>
Interfaces	<ul style="list-style-type: none"> ▪ Ethernet 1000BaseT (RJ45 according to EIA/TIA-568B) ▪ USB-C/USB2.0; High-Speed ($V_{out} = 5.1\text{ V}$, $I_{out} = 0.9\text{ A}$, $P_{out} = 4.5\text{ W}$)
Status LED	multicolor (red, blue, green)
Mounting Options	Ceiling mountable
Dimensions (Ø x height)	164 x 47.5 mm
Weight	<p>Gross weight: 1.040 g</p> <p>Net weight: 765g</p>
Housing	Aluminum, PBT-30GF
Standard accessories	<p>2 terminal blocks</p> <p>1 mounting cable with sealing, 0.5 m/~2 in</p> <p>2 silicone sealings for patch cable</p> <p>1 Ethernet patch cable RJ45, 50 cm/19.7 in</p> <p>1 Allen wrench 2.5 mm</p> <p>1 c71 NurseAssist lens wrench</p> <p>4 dowels 8 mm</p> <p>4 stainless steel pan head-screws 4.5x60 mm</p> <p>4 stainless steel washers Ø5.3 mm</p>

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- 1 Torx wrench TX 20
- 4 sealing plugs, white
- 1 Important Safety Information
- 1 Camera Connection Flyer

Detailed technical documentation www.mobotix.com > [Services](#) > [Download Center](#) > [Marketing & Documentation](#)

MTBF 80,000 hours

Certificates EN 50121-4, EN 55032, EN 55035, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 62368-1, EN 63000, AS/NZS CISPR32, 47 CFR Part 15b, NRTL

Protocols DHCP (client and server), DNS, ICMP, IGMP v3, IPv4, IPv6, HTTP, HTTPS, FTP, FTPS, MQTT, NFS, NTP (client and server), RTP, RTCP, RTSP, SFTP, SIP (client and server), SMB/CIFS, SNMP, SMTP, SSL/TLS 1.3, TCP, UDP, VLAN, VPN, Zeroconf/mDNS

Manufacturer warranty 5 years

General Software Features

Feature

Properties

WDR Up to 120 dB

Software features

- H.264, H.265 Multistreaming
 - Multicast stream via RTSP
 - Digital pan, tilt, zoom/vPTZ (up to 8x zoom)
 - Genetec protocol integration
 - Programmable exposure zones
 - Snapshot recording (pre/post-alarm images)
 - Continuous recording
 - Event recording
 - Time-controlled flexible event logic
 - Weekly schedules for recordings and actions
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Feature	Properties
	<ul style="list-style-type: none"> ▪ Event video and image transfer via FTP and email ▪ Playback and QuadView via web browser ▪ Animated logos on the image ▪ Master/Slave functionality ▪ Privacy zone scheduling ▪ Remote alarm notification (network message) ▪ Programming interface (HTTP API) ▪ MxMessageSystem
ONVIF compatibility	Profile G, S, T, (M with later firmware release)
Master/Slave functionality	Yes
Remote alarm notification	Email, network message (HTTP/HTTPS), SNMP, MxMessageSystem, MQTT
DVR/image storage management	<ul style="list-style-type: none"> ▪ On internal microSD card ▪ On external USB and NAS devices ▪ Different streams for live image and recording ▪ MxPEG+ only ▪ MxFFS with buffered archive, pre- and post-alarm images, storage monitoring with error reporting
Camera and data security	User and group management, SSL connections, IP-based access control, IEEE 802.1X, intrusion detection, digital image signature
Digitally signed firmware	Yes (to prevent firmware file tampering)

Kepler Nurse Assist App - Specifications

General App Information

Product Name	Kepler NurseAssist App
Order Code	Extended App license: Mx-APP-KEP-NUA-EXT
Supported MOBOTIX Cameras	MOBOTIX c71 NurseAssist (basic version pre-installed)
Minimum Camera Firmware	v7.3.6.x
MxManagementCenter compatibility	<ul style="list-style-type: none">▪ min. MxMC v2.9.x▪ Event Search: Smart Data Interface license included

App Features

App Features Basic Version	<ul style="list-style-type: none">▪ monitoring of the well-being of patients in private rooms, corridors and common areas of Healthcare facilities.▪ minimization of reaction times due to decentralized state-of-the-art fall detection.▪ prevention of accidents through person down, person in bed and person out of bed event.▪ automatized detection and localization of the bed in the patient's room.▪ GDPR compliant operation through event-controlled obscuring of live and recorded images.▪ Dynamic masking of a person in bed as additional privacy protection measure.
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App Features Extended Version

Plug-In license required to extend the NurseAssist status and alarm notifications with the following functions:

- Person sits on the edge of the bed
- Person has left the room
- Person has entered the room
- Person has entered the bathroom / is in the bathroom

- Bed is not recognized / is not present

NOTE!

The Plug-In license requires MOBOTIX c71 NurseAssist Smart Sensor or licensed Kepler NurseAssist Certified App.

Additional features of the c71 NurseAssist Smart Sensor

- * IP-based bidirectional communication via integrated microphone and speaker
- * Noise level analysis enables the detection of loud ambient noise (e.g., loud shouting).
- Integrated shock detector for detecting physical tampering or vibrations
- Additional device health monitoring functions, including connectivity and uptime monitoring
- Configurable system status display via sensor status LED
- REST API interface enables deep integration and remote control of all sensor functions

NOTE! *The sensor's audio functions are disabled by default and are enabled by an authorized administrator if required.

Meta Data / Statistic format	JSON
Supported Reporting Interfaces	JSON / XML via HTTP(S), MQTT, MxMessageSystem
Integrated Nurse Call Systems	Verified integrations documented in MOBOTIX Community (see https://community.mobotix.com/c/certified-apps/kepler-nurseassist/176)
Trial license	30-day trial license pre-installed
MxMessageSystem supported	Yes
MOBOTIX Events	Yes
ONVIF Events	Yes (Generic Message event)

Scene Requirements

Room size	max. 25m ² assuming an almost square room (e.g. 5x5 m) by radius of 4 m - long and narrow rooms will not work.
Required installation pos-	ceiling-mounted

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ition (camera)

Recommended installation height (camera) 2.0m - 3.5m

Mounting distance from bed 0.5m - 3.0m

Mounting distance from wall > 70cm

Technical App Specifications

Synchronous / Asynchronous App asynchronous

Simultaneous execution of other apps No

Accuracy min. 99% (considering scene requirement and no view blocking objects)

Further Video Analysis

Feature	Properties
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Video motion detection	Yes
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MxActivitySensor	Version 1.0, 2.1, 3.0
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MxAnalytics	Yes
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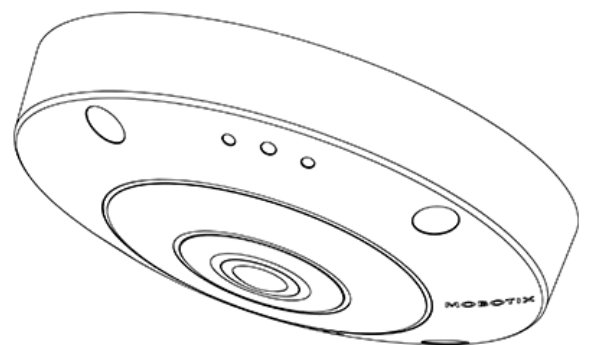
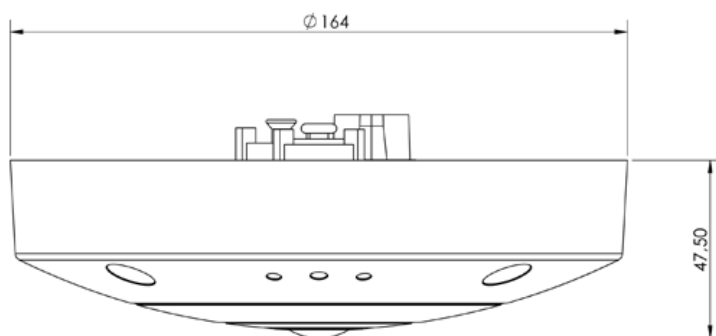
MOBOTIX App support	Yes
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Video Management Software

Feature	Properties
MOBOTIX HUB	Yes www.mobotix.com > Services > Download Center > Software Downloads
MxManagementCenter	Yes (latest version recommended) www.mobotix.com > Services > Download Center > Software Downloads
MOBOTIX Cloud	Streaming & Events supported
MOBOTIX LIVE App	Yes (available in Google Play Store (Android) and Apple App Store (iOS)).
3rd Party VMS Software	See ONVIF Profile S, T and G specification

Dimensions

NOTE! Drilling template: www.mobotix.com > Support > Download Center > Marketing & Documentation > Drilling Templates.



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[EN_04/26](#)

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