

Nokia N8 Technical Specifications

The Nokia N8 introduces a 12 megapixel camera with Carl Zeiss optics, Xenon flash and a large sensor that rivals those found in compact digital cameras. People can also make HD-quality videos and edit them with an intuitive built-in editing suite.

The Nokia N8 offers a true home theater experience with HD quality film and Dolby Digital Plus surround sound. You can plug the device to your home theatre system with an HDMI cable.

Please see full list of technical specifications

Dimensions

- Size: 113.5 x 59 x 12.9 mm
- Weight (with battery): 135 g
- Volume: 86 cc



Display and user interface

- Screen size: 3.5"
- Resolution: 16:9 nHD (640 x 360 pixels) AMOLED
- 16.7 million colours
- Capacitive touch screen
- Orientation sensor (Accelerometer)
- Compass (Magnetometer)
- Proximity sensor
- Ambient light detector

Keys and input methods

- Physical keys (Menu key, Power key, Lock key, volume keys, Camera key)
- Finger touch support for text input and UI control
- On-screen alphanumeric keypad and full keyboard
- Dedicated camera and volume keys
- Possibility to use capacitive stylus
- Handwriting recognition for Chinese

Colours

- Anodized aluminium casing, available in:
 - Silver white
 - Dark grey
 - Orange
 - Blue
 - Green



Colour availability varies by country

Nokia N8 Technical Specifications

Personalisation

- Up to three customisable home screens:
 - Widgets
 - Themes
 - Shortcuts
 - Icons
 - Menu
- Customisable profiles
- Ring tones: mp3, AAC, eAAC, eAAC+, WMA, AMR-NB, AMR-WB
- Themes
 - Wallpapers
 - Screensavers
 - Audio themes
 - Pre-installed themes
 - Changeable colour themes

Power Management

- BL-4D 1200 mAh Li-Ion battery
- Talk-time (maximum):
 - GSM 720 mins
 - WCDMA 350 mins
- Standby time (maximum):
 - GSM 390 h
 - WCDMA 400 h
- Video playback time (H.264 720p, 30 fps, maximum): 6 h (via HDMI to TV)
- Video recording time (H.264 720p, 25 fps, maximum): 3 h 20 mins
- Video call time (maximum): 160 mins
- Internal memory: 16 GB music playback time (offline mode, maximum): 50 h

Operation times may vary depending on radio access technology used, operator network configuration and usage.

Memory

- Internal memory: 16 GB
- MicroSD memory card slot, hot swappable, up to 32 GB

Operating Frequency

- GSM/EDGE 850/900/1800/1900
- WCDMA 850/900/1700/1900/2100
- Automatic switching between WCDMA & GSM bands
- Flight mode

Data Network

- GPRS/EDGE class B, multislots class 33
- HSDPA Cat9, maximum speed up to 10.2 Mbps, HSUPA Cat5 2.0 Mbps
- WLAN IEEE802.11 b/g/n
- TCP/IP support
- Capability to serve as data modem
- Support for MS Outlook synchronisation of contacts, calendar and notes

Requires data service. Data Services may not be available in all networks. Data transmission speeds may be as high as HSDPA 10.2 Mbps, but may vary based upon network capabilities and other conditions. The establishment and continuation of a data connection depends on network availability, provider support and signal strength.

Connectivity

- Bluetooth 3.0
- HDMI
- 2mm Charging connector
- Micro USB connector and charging
- High-Speed USB 2.0 (micro USB connector)
 - USB On-the-Go
- 3.5 mm AV connector
 - FM Radio
 - FM Transmitter

Important: Do not use a micro-SIM or a micro-SIM with an adapter in this device. This device does not support use of micro-SIM cards, and use of incompatible SIM cards may damage the card or the device, and may corrupt data stored on the card.

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Software platform & user interface

- Symbian ^3 for Nokia
- Java MIDP 2.1
- Qt 4.6.2, Web Runtime 7.2
HTML 4.1
- Software updates Over the Air (FOTA) & Over the internet (FOTI)
- Flash Lite 4.0
- OMA DM 1.2, OMA Client provisioning 1.1

Personal Information Management (PIM)

- Detailed contact information
- Calendar
- To-do list
- Notes
- Recorder
- Calculator
- Clock

Applications

- Key applications: Calendar, Contacts, music player, internet, messaging, photos, Ovi Store, Maps, Videos, Web TV, Office document viewers, Video & photo editor, Mail, Radio
- PC Applications: Nokia Ovi Suite, Nokia Ovi Player

Email and messaging

- Easy-to-use email client with attachment support for images, videos, music and documents .doc, .xls, .ppt, .pdf, .zip
- HTML support for email

- Unified push email client supporting multiple protocols: Yahoo!® Mail, Gmail™, Windows Live™, Hotmail and other popular POP/IMAP services, Mail for Exchange
- Editing of key office documents
- Email web widget for home screen
- Unified MMS/SMS editor
- Conversational view for SMS

Call management

- Contacts: advanced contacts database with support for multiple phone and e-mail details per entry with personal thumbnail pictures and video clips
- Smart dialling to find phone numbers quickly
- Speed dialling, voice dialling (speaker independent) and voice commands
- Logs of dialled, received and missed calls
- Conference calling
- Integrated hands-free speaker
- Video calling

Browsing and internet

- Full web browsing of real web pages
- Web browsing with touch control
- Supported markup languages: HTML, XHTML MP, WML, CSS
- Supported protocols: HTTP v1.1, WAP
- TCP/IP support
- Visual history, HTML and JavaScript support
- Flash Lite 4 will support a majority of Flash Player 10.1 content
- Nokia Mobile Search
- RSS reader
- Support for streaming video
- Unified home screen access to Facebook and Twitter through Ovi by Nokia Social client
- Social networking profiles visible in phone contacts

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- Upload and view photos and video and see locations via Ovi by Nokia Social client
- Social networking events visible in phone calendar

GPS and navigation

- Integrated GPS, A-GPS receivers
- Ovi Maps with free car & pedestrian navigation
- Wi-Fi Positioning
- Compass and accelerometer for correct orientation of display
- Use Nokia Ovi Suite to get the latest country maps for Ovi Maps on N8 for free

Downloading of maps over-the-air may involve transferring large amounts of data. Your service provider may charge for the data transmission. The availability of particular products, services, and features may vary by region. Please check with your local Nokia dealer for further details and availability of language options. These specifications are subject to change without notice.

Camera

- 12 megapixel camera with Carl Zeiss optics
- Large 1/1.83" optical format image sensor
- Fullscreen 16:9 viewfinder with easy-to-use touchscreen parameters
- Xenon flash with automatic red-eye removal
- Face tracking/detection software
- Autofocus
- Focal length: 5.9 mm (equivalent to 28mm in 35mm film format)
- F number/Aperture: F2.8
- Still images file format: JPEG/EXIF
- Zoom up to 2x (digital) for still images
- Zoom up to 3x (digital) for video
- Secondary camera for video calls (QVGA, 640 x 480 pixels), still image and video capture
- Favourite settings feature

- Still camera manual controls for white balance, scene mode, exposure compensation, colour tone, viewfinder framing grid, sharpness, contrast, flash control, light sensitivity (ISO), self-timer, face detection

Image capture

- Automatic location tagging (Geotagging) of images and videos
- Images automatically taken in the correct orientation
- Pinch zoom in Photos image viewer
- View photos by tag cloud, month, album, slide show
- Photo editor
- Online Share with connectivity to popular sharing services

Other

- Internal memory: 16 GB
- MicroSD memory card slot, hot swappable, up to 32GB
- High-Speed microUSB to PC connectivity

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Video cameras

- Main camera
 - 12 megapixel with Carl Zeiss optics
 - HD quality 720p resolution
 - Shoot 16:9 videos in HD
 - 3x digital zoom
- Video capture in 720p 25 fps with codecs H.264, MPEG-4
- Ambient stereo audio recording in video (AAC 128kbps, 48 kHz sampling) plus new algorithms to reduce wind noise and control recording level in harsh environments
- Settings for low light (reduced frame rate), white balance, colour tone
- Secondary camera for video calls (QVGA, 640 x 480 pixels), still image and video capture

Video sharing and playback

- HD 720p Video playback on HD TV through HDMI cable
- *Dolby Digital Plus surround sound when played with HDMI & a home theatre
- Support for download, streaming, and progressive download
- Video editing software
- Videos application: collection of stored videos
- On demand Web TV widgets to watch local & global internet streaming TV
- Support for Flash video
- YouTube browsing and streaming
- Video call support (WCDMA network services)

*Dolby Digital Plus technology. Dolby is a registered trademark of Dolby Laboratories.

Video codecs & formats

- H.264 (base profile, main profile, high profile), MPEG-4, VC-1, Sorenson Spark, Real video 10
- Streaming: H.264, Flash Lite 4 (Flash 10 compatibility for video), On2 VP6, Sorenson Spark

Music features

- Flick scroll to browse the albums in your music collection
- Ovi Music Unlimited service on selected markets
- Nokia Ovi Player
- Ovi Music
- MP3, WMA, AAC, eAAC, eAAC+, AMR-NB, AMR-WB, E-AC-3, AC-3
- Bit rate up to 320 kbps
- DRM support WM DRM, OMA DRM 2.0
- FM transmitter

Radio

- Stereo FM radio (87.5-108 MHz/76-90 MHz)

Gaming

- Use the touch UI to play games
- Dedicated processor for 2D/3D graphics acceleration. Support for OpenGL ES 2.0, OpenGL ES 1.1 and OpenVG 1.1
- Java games
- Use the accelerometer to play games

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Energy efficiency

- Power Save mode, ambient light sensor, unplug charger reminder, Nokia Compact Travel Charger AC-15

Materials

- Free of PVC, free of brominated & chlorinated compounds and free of antimony trioxide as defined in Nokia Substance List, bio-based materials in inner parts of the product

Packaging

- Made of renewable, 100 % recyclable

Eco content and services

- Available at Ovi, preinstalled eco wallpapers, maps for route optimization and pedestrian navigation

Recycling

- All materials of the device can be recovered as materials and energy

User guide

- Interactive user help in device and online, only Quick Guide in the box, eco tips on Green Page

Disclaimer:

The information in this data package may not always be current due to issues with update frequencies.

For the most up-to-date information on Nokia N8 technical specifications, features and services compatibility please refer to your local market Nokia.com website N8 product specifications page.

Alternatively you can also visit: <http://europe.nokia.com/find-products/devices/nokia-n8/specifications>