

Nokia N93

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The **Nokia N93** is a smartphone by Nokia especially designed for multimedia use. It was introduced in April 2006 and released in July 2006.

The N93 has improved camera capabilities compared with the earlier N90. The phone has a 3.2 megapixel camera, Carl Zeiss optics and 3x optical zoom as well as a 30 fps VGA-resolution MPEG-4 video recording capability. It was the most advanced camera phone from Nokia at the time of its release.

Features

- DVD-like video capture at 30 frames per second in the MPEG-4 format at VGA resolution^[1]
- 3.2 MP camera with Carl Zeiss Vario Tessar optics and flash^{[1][2][3]}
- 320 x 240 pixels, up to 262,144 colors 2.4" display^[2]
- 3 times optical zoom / 20 times digital zoom^[3]
- direct TV out connectivity^[1]
- easy video creation and burning to DVD with Adobe Premiere Elements 2.0^[1]
- digital image stabilization^[3]
- close up mode^[3]
- Visual Radio
- up to 50MB internal, 2GB mini SD card storage - 90 minutes of "DVD-like" video^[3]
- Infrared and Bluetooth

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Manufacturer	Nokia
Availability by region	2006
Compatible networks	HSCSD, UMTS, Quad band GSM / GPRS / EDGE, GSM 850, GSM 900, GSM 1800, GSM 1900
Dimensions	118 x 55.5 x 28.2 mm
Weight	180g
Operating system	Symbian OS v9.2, S60 3rd Edition, Feature Pack 1
Memory	50MB

- WLAN (b and g), 3G (WCDMA 2100 MHz), EDGE and GSM (900/1800/1900 MHz) networks^{[3][4]}
- Java MIDP 2.0^[2]
- Symbian application support^[2]
- UPnP (Universal Plug and Play) support^[4]
- Comes standard with a full Web browser (<http://www.nokia.com/browser>)
- Fully HW accelerated PowerVR 3D graphics from Imagination Technologies (including OpenGL ES 1.1 and M3G, see [JBenchmark](http://www.jbenchmark.com/result.jsp) (<http://www.jbenchmark.com/result.jsp>))
- Push to Talk over Cellular (PoC)

Removable storage	MiniSD
Battery	Li-Po 1100 mAh (BP-6M)
Rear camera	3.2 Megapixels
Display	320 x 240 pixels; 262,144 colors
Connectivity	Bluetooth 2.0, Infrared , Wi-Fi 802.11b/g, USB 2.0
Data inputs	Keypad

Availability

The N93 started shipping on July 24th, 2006.

Versions

As well as coming in 2 colours, pearl black and silver, there will also be a Nokia N93 Golf Edition which is preloaded with Pro Session Golf software to help improve golf skills. Also there was a [Mission: Impossible III](#) edition which included a memory card preloaded with the movie and also a [Mission: Impossible III](#) theme.^[5]

Popular culture

- In the skateboarding game [Tony Hawks Project 8](#), the phone the player uses is a Nokia N93, and also one of the messages the player gets throughout the game is an advertisement for the golf instructional video.
- Musician [Rob Dickinson](#) shot the entire video for his single "Oceans" on a Nokia N93. ^[1] (<http://www.nokia.com/A4136001?newsid=1088569>)
- In [The Bourne Ultimatum](#), the CIA agents looking for Bourne use Nokia N93s throughout the movie, holding them alongside their handguns, and with a real time video link to the CIA coordination room.

Reviews

- All About Symbian N93 Review (part 1) (http://www.allaboutsymbian.com/reviews/item/Nokia_N93.php) - Covers multimedia aspects of the phone
- All About Symbian N93 Review (part 2) (http://www.allaboutsymbian.com/reviews/item/Nokia_N93_part_two-the_smartphone_the_summary.php) - Covers smartphone aspects, and summary
- All About Symbian N90 vs N93 (http://www.allaboutsymbian.com/features/item/Battle_of_the_camera_smartphones-Nokia_N90_vs_Nokia_N93.php)
- Mobile-review N93 review (<http://www.mobile-review.com/review/nokia-n93-en.shtml>)
- N93 reviews and specifications round up (<http://feetup.org/wiki/NokiaN93>)

External links

1. Series 60 website (http://www.s60.com/devices?dm_id=883)
 2. nseries.com (http://www.nseries.com/nseries/v2/media/product/tech_specs/en-US/tech_specs_n93_en_US.html?lang=en&country=US)
 3. Lets Go Digital (http://www.letsgodigital.org/en/news/articles/story_7512.html)
 4. Nokia N93 Data Sheet (http://www.nokia.com/NOKIA_COM_1/Press/Press_Events/Nokia_Open_Studio/N93%20DataSheet.pdf)
 5. Nokia golf edition (http://direct.nokia.com/N93/GB/main.html?cmp=BAC-Q264X6046505&ad_id=nokia_GB_small)
- Online copy of the N93 Manual (PDF) (http://nds1.nokia.com/phones/files/guides/Nokia_N93-1_UG_en.pdf)
 - Nokia Nseries Social Media - N93 resource (<http://www.womworld.com>)
 - N Series Talk (<http://www.nseriestalk.com>) Nokia N Series Forums and Community
 - More on the graphics technology inside the N 93 and N95 (<http://www.powervr.com>)

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