

# SoundSpace™ 21

HOME THEATER SYSTEM



The flagship of Nakamichi's SoundSpace product fleet is SoundSpace 21, a remarkably flexible and sophisticated home theater system. An innovative, motor-driven system suspends the satellite speakers in rosewood-clad vertical towers, allowing you to raise or lower them to customize your listening experience. This method enhances the speakers imaging and sound-field focus for both stereo and surround sound as you select between pure audio listening and audio/video entertainment.

Nakamichi's world-renowned five-disc MusicBank DVD/CD changer, A/V Turner/Processor featuring Dolby Digital/DTS surround sound decoding and the unique motorized surround sound speaker system reproduces your choice of movie or music with accuracy and uncanny realism.

Internal to each rosewood-trim accented subwoofer enclosure are power amplifiers featuring Nakamichi's proprietary Harmonic Time Alignment™ circuit topology. These seven amplifier channels are capable of delivering well over 365 watts of ultra clean dynamic power for the faithful reproduction of music and movie soundtracks. The DVD/CD changer is housed in an attractive brushed silver aluminum floor-standing tower also with rosewood trim side panels that positions a motorized disc-loading mechanism at just the right height for ease of use when loading a disc. Both CD and DVD can be played back with comprehensive programming options and sequencing flexibility.

SoundSpace 21 also comes with two remote control units : a programmable LCD touch-panel type for surround sound set-up and calibration ; the other, a simple remote perfect for everyday use. Three multi-zone modes permit different audio and video signals to be sent to different rooms at the same time. A full complement of digital and analog inputs/outputs are also available to expand the systems capabilities in the future.

# Sound Space™ 21

## Control Amplifier Section

### Analog Audio Section

Inputs	6 (Tape, Aux, Video 1, Video 2, VCR 1, VCR 2)
Recording Outputs	3 (Tape, VCR 1, VCR 2)
Preamplifier Outputs	10 channels (Front L/R, Center, Rear L/R, Subwoofer L/R, Remote L/R, Subwoofer)
Input Sensitivity/Impedance	200mV/47 kilohms
Rated Output Level/Impedance	
Preamplifier Outputs	1 V/1 kilohm
Recording Outputs	200 mV/1 kilohm
Subwoofer Outputs	1.6 V/1 kilohm
Remote Outputs	400 mV/1 kilohm
Maximum Output Level	8 V
Total Harmonic Distortion	Less than 0.01% (20 - 20,000 Hz)
Frequency Response	10 - 50,000 Hz, +0 -3dB
Signal-to-Noise Ratio	Better than 90 dB (A-weighted, input shorted)
Channel Separation	Better than 70 dB (1 kHz, input shorted)
Tone Controls	
Bass	20 Hz +10 dB
Treble	20 Hz +10 dB
Loudness	20 Hz +10 dB, 20 kHz +6 dB
Headphone Output	40 mW (40 ohms)
System Remote Output	3.5mm diameter stereo mini jack (for Nakamichi cassette deck)

### Digital Audio Section

Inputs	2 (OPTICAL 1 / OPTICAL 2)
Coaxial	2 (COAXIAL 1 / COAXIAL 2)
Supported Digital Signals	
Format	DTS/Dolby Digital/PCM
Quantization	16 bit/20 bit/24 bit
Sampling Frequencies	32 kHz/44.1 kHz/48 kHz/96 kHz (PCM)
Input Impedance	75 ohms
Frequency Response	
PCM 96 kHz	5 - 44,000 Hz
PCM 48 kHz	5 - 22,000 Hz
PCM 44.1 kHz	5 - 20,000 Hz
Total Harmonic Distortion	0.003%
Signal-to-Noise Ratio	100 dB
Dynamic Range	100 dB
Channel Separation	Better than 90 dB
Optical Digital Output	660 nm. -18 dBm

## Video Section

Inputs	
Video	4 (Video 1, Video 2, VCR-1, VCR-2), Coaxial
S-Video (Y/C)	4 (Video 1, Video 2, VCR-1, VCR-2), S-video jack
Outputs	
Video	4 (VCR-1, VCR-2, Monitor, Remote)
S-Video (Y/C)	4 (VCR-1, VCR-2, Monitor, Remote)
Video Signal Level/Impedance	
Video	1 Vp-p/75 ohms
S-Video	1 Vp-p/75 ohms (Y signal) 0.286 Vp-p/75 ohms (C signal)
Frequency Response	
Video	5 Hz - 10MHz +0, -3 dB
S-Video	5 Hz - 10MHz +0, -3 dB
Video Format	NTSC or PAL (According to country of sale)

## Surround Section

Surround Mode	6 (DTS, Dolby Digital, Dolby Pro-Logic, Natural, Hall, Stadium)
Channel Level Adjustment Range	
Center	-10 to +10 dB
Rear L/R	-10 to +10 dB
Subwoofer	-10 to +10 dB
Delay Time Adjustment Range	
Center	0 to +5 ms (DTS/Dolby Digital/Pro-Logic/Natural/Hall/Stadium)
Rear L/R	to +15 ms (DTS/Dolby Digital/Natural/Hall/Stadium)
	+15 to +30 ms (Dolby Pro-Logic)

## Power Amplifier Section

Continuous Sine Wave Power Output	
Front, Center, Rear	30 W x 5 (4 ohms, 20 - 20,000 Hz, 0.1% T.H.D.)
Subwoofer	50 W x 2 (4 ohms, 20 - 20,000 Hz, 0.1% T.H.D.)
Dynamic Power	
Front, Center, Rear	45 W x 5
Subwoofer	70 W x 2

## Tuner Section

FM Section  
(All RF levels specified in microvolts given re: 75-ohms antenna input)  
(Modulation: Mono 100%, Stereo pilot 10%, Stereo audio signal 90%)

Frequency Range	
U.S.A./Canada	87.5 - 107.9 MHz in 200-kHz steps
Other Area	87.5 - 108.0 MHz in 50-kHz steps
IHF Usable Sensitivity	14 dBf/2.7 $\mu$ V (Mono)
50-dB Quietening Sensitivity	
Mono	22 dBf/6.9 $\mu$ V

Signal-to-Noise Ratio	
Mono	Better than 72 dB (65 dBf input)
Stereo	Better than 68 dB (65 dBf input)
Frequency Response	30 - 15,000 Hz +1, -3 dB
Total Harmonic Distortion	
Mono	Less than 0.4% (1 kHz)
Stereo	Less than 0.6% (1 kHz)
Stereo Separation	Less than 40 dB (1 kHz)
AM Section	
(Modulation: 400 Hz, 30%)	
Frequency Range	
U.S.A./Canada	530 - 1710 kHz in 10-kHz steps
Other Area	531 - 1602 kHz in 9-kHz steps
Sensitivity	55 dB $\mu$ /m
Signal-to-Noise Ratio	Better than 50 dB (90 dB $\mu$ /m input)
Total Harmonic Distortion	Less than 0.5% (90 dB $\mu$ /m input)

## DVD/CD Player Section

Supported Disc Formats	
DVD-Video Discs	12 cm, single/dual layer, single sided/double-sided
Compact Discs	12 cm disc (CD-DA, Video CD)
Component Output	
Y Output Level	1.0 Vp-p/75 ohms (negative sync)
CR Output Level	0.7 Vp-p/75 ohms (negative sync)
CB Output Level	0.7 Vp-p/75 ohms (negative sync)

## Speaker System

Front/Center/Rear Speakers	
Enclosure	2-way sealed type
Driver Units	
Midrange/Woofers	8 cm cone/magnetically shielded
Tweeter	2.5 cm soft dome/magnetically shielded
Impedance	4 ohms
Rated Power Handling	30 W
Maximum Power Handling	50 W
Subwoofer	
Enclosure	Bass-reflex type
Driver Unit	20 cm cone/magnetically shielded
Impedance	4 ohms
Rated Power Handling	50 W
Maximum Power Handling	80 W

## Remote Control Units

Principle	Infrared Pulse System
Power Supply	
Main Remote Control	For Signal Transmission, 3V DC (1.5 V x 2)
Sub Remote Control	For Backlighting, 6V DC (1.5 V x 4) 3V DC (1.5 V x 2)

## General

Power Source	120 V AC, 60 Hz AC 110 - 120 V or AC 220 - 240 V, 50/60 Hz (According to country of sale)
Power Consumption	
AV Tuner/Processor Unit	Max. 75 W
Subwoofer Unit (L)	Max. 340 W
Subwoofer Unit (R)	Max. 275 W
AC Outlets	Switched x 2 Max. 200 W (total)
Dimensions*	
Main Unit	350 (W) x 1511 (H) x 282 (D) mm 13-3/4 (W) x 59-1/2 (H) x 11-1/8 (D) inches
AV Tuner/Processor Unit	430 (W) x 100 (H) x 325 (D) mm 16-5/16 (W) x 3-15/16 (H) x 12-13/16 (D) inches
Subwoofer Unit	311 (W) x 569 (H) x 395 (D) mm 12-1/4 (W) x 22-7/16 (H) x 15-1/2 (D) inches
Satellite Speaker System	350 (W) x 1511 (H) x 282 (D) mm 13-3/4 (W) x 59-1/2 (H) x 11-1/8 (D) inches
Center Speaker	393 (W) x 120 (H) x 117 (D) mm 15-1/2 (W) x 4-3/4 (H) x 4-5/8 (D) inches
Main Remote Control	210 (W) x 55 (H) x 130 (D) mm 8-1/4 x 2-3/16 x 5-1/8 inches
Sub Remote Control	49 (W) x 26 (H) x 110 (D) mm 1-15/16 x 1 x 4-5/16 inches
Mass	
Main Unit	22.8 kg, 50 lbs., 4 oz.
AV Tuner/Processor Unit	7 kg, 15 lbs., 7 oz.
Subwoofer Unit	17.8 kg, 39 lbs., 4 oz.
Satellite Speaker	32.8 kg, 72 lbs., 5 oz.
Center Speaker	2.9 kg, 6 lbs., 6 oz.
Main Remote Control	700 g, 1 lb., 9 oz. (including batteries)
Sub Remote Control	60 g, 2 oz. (including batteries)

 **Nakamichi**<sup>®</sup>  
www.nakamichi.com