

DENON

KARAOKE

DENON

DN-2200F

REMOTE CONTROL UNIT  
RC-35A

TRACK

TIME

CUE

CUE

SEARCH

OPEN/CLOSE

OPEN/CLOSE

Dual CD/CD-G Player for DJ  
plus Karaoke Preamplifier

DENON  
DN-2200F

POWER

ON OFF

DENON

MUSIC VO

DN-820 Plus



# ENTER THE KARAOKE JOCKEY!

The Most Popular DJ CD Player Now Offers Karaoke, too



**T**he professional Disc Jockey is constantly on the look-out for new opportunities and techniques to entertain their audiences. The popularity of Karaoke singing, now virtually universal, is increasingly inviting traditional Disc Jockeys to double as Karaoke Jockeys whenever the occasion arises.

DENON's DN-2000F has already become the most popular CD player for the professional DJ. Now DENON has enhanced this component with a Karaoke button, and the new DN-2200F, combined with the DN-820 Karaoke Preamp, promises to become the professional CD player of choice among DJs who will also be working in the exciting new theater of Karaoke entertainment.



### Since when could a CD player play Karaoke discs?

The secret here is some good news that Karaoke software is now also becoming available on a CD format called CD-G that includes graphics playback. In addition to the audio tracks, the CD-G disc contains video graphic information that can be played back on the DN-2200F and projected on a TV monitor through the DN-820 Karaoke Preamp.

### What sort of graphics can a CD-G hold?

Though the capacity of the CD-G disc is smaller than that of a standard 12-inch Karaoke Laser Disc, it is more compact, light-weight, and economical. The graphics stored on a Karaoke CD-G disc include, of course, the lyrics of the song, which are displayed in changing colors. Still pictures can also be included. The lyrics are shown in large, easy-to-read letters, precluding the need for a big TV screen often used with LD. A smaller, portable screen is more than sufficient.

### Are there any other differences between the DN-2200F and the DN-2000F?

The DN-2200F offers all the same features as the DN-2000F, including Instant Start, Pitch Bend, Pitch Control, and, of course, the ability to play back standard audio CDs. The main difference is the addition of the Karaoke button on the DN-2200F's front panel and a CD-G subcode output terminal for connection to the DN-820 Karaoke Preamp.

### What does the DN-820 do?

The DN-820 is a Karaoke preamp that turns your DN-2200F DJ studio into a Karaoke stage. The DN-820 provides all the Karaoke features you need to instantly convert from a Disc Jockey to a Karaoke Jockey. To complete your Karaoke setup, you only need a TV (NTSC) monitor with a video input jack that lets you connect it to the video output jack on the DN-820. You already have the power amp and your speaker system, so you're ready to roll with a Karaoke session whenever your DJ performance lifts your audience to their feet and into the singing mood. And you can switch back and forth as you like between Karaoke and Disc Jockey modes by simply pressing a button on the DN-2200F.

Catch me, hold me  
Let me fly with  
your love

### Where are the microphones connected?

There are two microphone jacks on the DN-820 for the Karaoke singers and one for your mic as well.

### What if a singer's voice is not suited to the key of a song?

The best solution to that problem is giving the singer a DENON microphone (the DMK-10) with a built-in control that lets the singer adjust the key to their own voice. If you don't have this type of mic, you can easily make the adjustment on the DN-820's front panel. Adjusting the key on the DN-820 does not in any way affect the tempo of the song; only the pitch is raised or lowered as desired.

### As a Karaoke Jockey as well as Disc Jockey, I'd also like to offer my audience a take-home souvenir of the fun they've had. Do you have any good ideas?

There are two ways you can do that. One is to make recordings of their singing and another is to take videos of them. Of course, you would need to have a tape deck for the audio recordings, but DENON's DN-720R easily fits the bill. Simply connect it to the DN-820. As for the video souvenir, you can use a video camera with A/V output terminals. You can then play it back if you wish through the DN-820's V-AUX terminals on the front panel. You can also use the video camera to superimpose the singers or other background video onto the monitor screen to accompany the CD-G's displays of song lyrics. To get a full picture of how DENON's new DJ/KJ system can be configured, please look at the diagram of the Mobile DJ CD-G Karaoke System....

## Main Features of the DN-2200F



### Audio CD and CD-G Playback

The DN-2200F lets you play back CD-G discs for Karaoke entertainment as well as standard audio CDs.

### Karaoke Button

A Karaoke button has been added to let you instantly switch the DN-2200F to Karaoke playback (CD-G) mode.

### Twins CD Mechanisms

Whether you load an audio CD or a CD-G disc, transitions between traditional audio playback and Karaoke program playback are as quick as pushing a button, thanks to the DN-2200F's double tray design.

### Instant Start

Playback starts instantly when the Play button is pressed; no delays, no yawns.

### Pitch Bend

The Pitch Bend feature makes beat mixing a breeze. Once beats-per-minute are matched with the Pitch Control, use Pitch Bend to get the bass beats in sync.



## Main Features of the DN-820

### CD-G Decoder

The Subcode decoder uses an EIAJ standard subcode interface and converts video information read from the CD-G disc into NTSC video signals.

### Superimpose

Output from a video camera or other video source can be superimposed on the monitor screen when the lyrics are displayed on a plain blue or gray background. The superimposed video graphic will replace the plain background.

### Digital Key Controller

The "Sharp" and "Flat" buttons let the user adjust the key four steps higher or four steps lower, respectively, in half-tone increments without changing the tempo of the original music.

### DSP Mic Echo

The DSP Echo control uses a Digital Signal Processor to recreate the festive atmosphere of a live stadium concert.

### DSP Surround

The DSP Surround switch also takes advantage of the Digital Signal Processor to create an exciting surround sound effect.

### Vocal Reducer / Vocal Changer

If the music source to be used for Karaoke sing-along is a CD, cassette tape or other source in standard stereo\*, Vocal Reducer will eliminate or significantly reduce the original singer's voice so that the Karaoke singer can take the lead vocal part. Vocal Changer performs the same function but with multi-sound recordings specially produced for Karaoke systems.

\* Vocal Reducer may not be completely effective with some types of recordings.

### Bypass Switch for CD Input

For CD slam mixing that does not require sound processing by the DN-820, CD input can be fed directly to the DN-820's line output.



## Pitch Control

The play speed of each CD can be individually adjusted by  $\pm 8\%$ , allowing the DJ to match beats-per-minute of sequential tracks.

## Cue Button

When you want to get to the beginning of a track in an instant, just press the Cue button. This button can also be used to turn the CD player into a sampler:

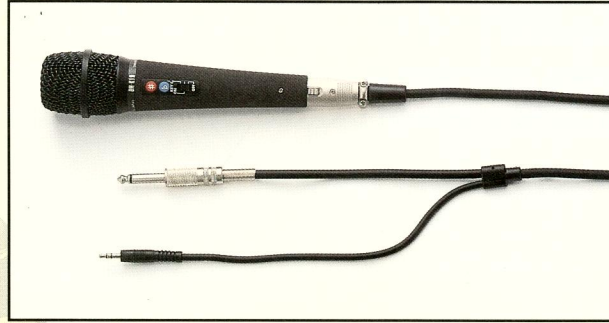
Use Search to "grab" the desired sound effect or phrase, then press Cue. After that, each time you press Play, the effect will start instantly from where you cued. You can layer your dance mix with a multitude of creative (digital) effects.

## Additional Features

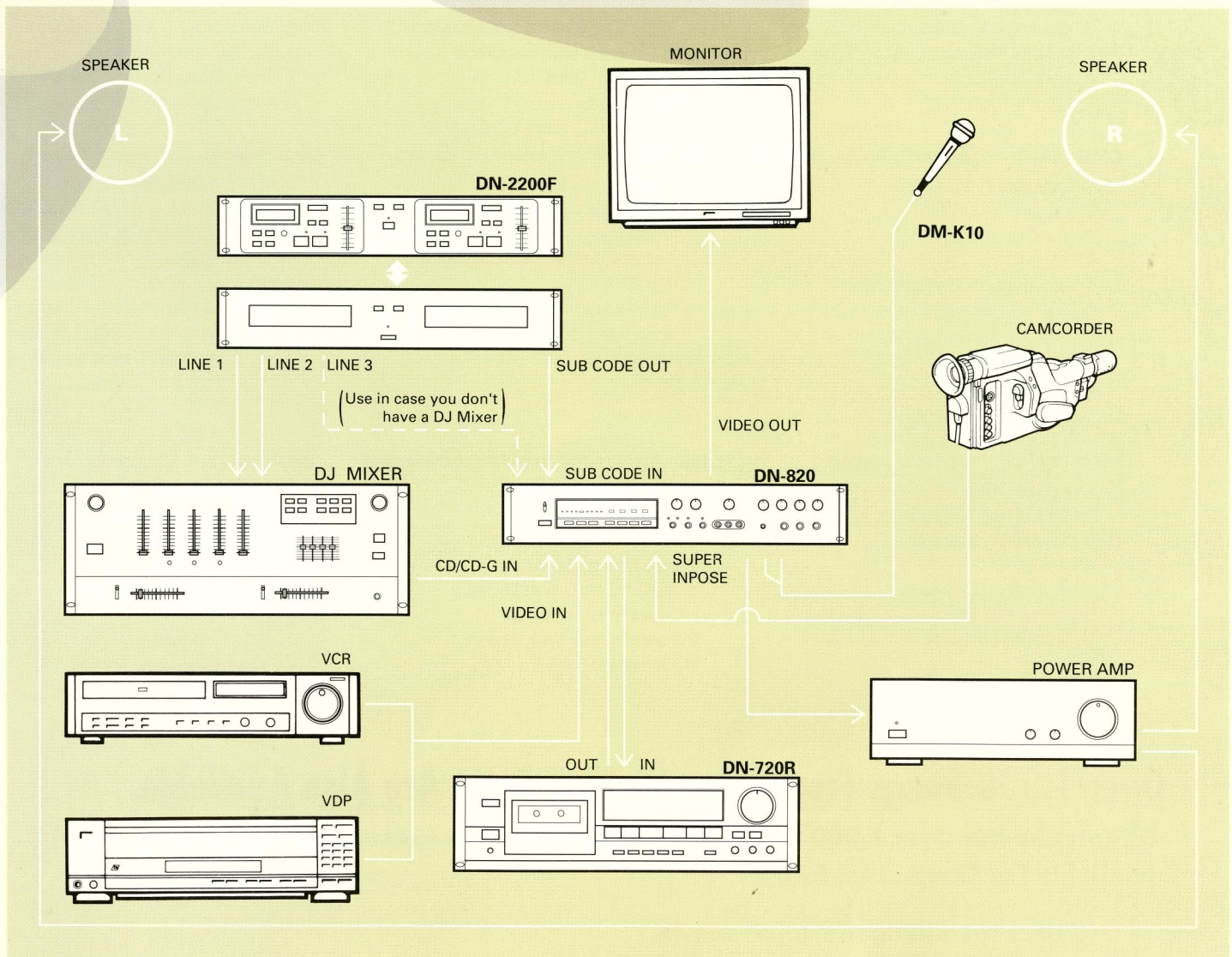
- DENON CD Sound Quality
- Self-Locking Transport
- Proven Reliability

## DM-K10

**DYNAMIC MICROPHONE with KEY CONTROL SWITCH**



# Mobile DJ CD-G Karaoke System





## SPECIFICATIONS

### DN-2200F

Type	Twin-mechanism Compact Disc Player with wired remote control
Disc type	Standard Compact Discs and CD-G Discs (12 cm, 8 cm / 5", 3")
<b>Audio Section</b>	
Channels	2-channel stereo
Sampling frequency	44.1 kHz at normal pitch
Frequency response	20 Hz - 20 kHz
Signal to noise ratio	103 dB or more
Total harmonic distortion	0.008%
Channel separation	96 dB
Quantization	18-bit linear/channel
Oversampling rate	8-times
Output level	2.0 V at 0 dB disc
Load impedance	10 kohms or more
<b>Functions</b>	
Variable pitch control	±8%
Subcode output	EIAJ 8-pin mini DIN terminal, Cable included
<b>General</b>	
Power Supply	120 V ±10%, 60 Hz
Power Consumption	22 W
Dimensions (excluding height of keys, connectors)	
Player unit	482 (W) x 88 (H) x 252 (D) mm, 19 (W) x 3-1/2 (H) x 10 (D) inches
Remote control unit	482 (W) x 88 (H) x 62 (D) mm, 19 (W) x 3-1/2 (H) x 2-1/2 (D) inches
Weight	
Player unit	5.5 kg, 12.21 lbs
Remote control unit	1.5 kg, 3.36 lbs

### DN-820

#### Input/Output Terminals

Microphone	1/4-inch jacks for MIC 1, 2, 3
Impedance	Less than 1 k $\Omega$
Key Control	Provisions for DENON DMK-10 microphone and Mini jack for remote control
Video Input	Rear Panel
	VDP/VCR, 1 V <sub>p-p</sub> at 75 $\Omega$ , pin jack
Video Output	Front Panel
	AUX, 1 V <sub>p-p</sub> at 75 $\Omega$ , pin jack
Video Output	Monitor x 2, 1 V <sub>p-p</sub> at 75 $\Omega$ , pin jack
Audio Input	CD/CDG, VDP/VCR, TAPE, V-AUX (500 mV at 47 k $\Omega$ )
Audio Output Fixed:	500 mV
Variable:	0 to 500 mV
Subcode Input	EIAJ 8-pin mini DIN terminal

#### CD-G Function

Subcode input is decoded into NTSC signal provided at Video Output.

#### General

Power Supply	120 V ±10%, 60 Hz
Power Consumption	12 W
Dimensions	434 (W) x 75 (H) x 290 (D) mm, 19 (W) x 3-1/2 (H) x 10-1/2 (D) inches
Weight	4.3 kg, 9.47 lbs

\* Specifications are subject to change without notice.

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01093

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Printed in Japan



# DENON and DKKaraoke CD-G... Bringing The Fun and Excitement Of Professional Quality Karaoke To The Home!

Enjoy Karaoke Sing-Along with The DN-2200F/820 and The Growing Library of Sing-Along Software from DKKaraoke, The World Leader in Sing-Along Entertainment.

**CMG-USA-1      *The Fabulous 50's***

- 1 In The Still Of The Night
- 2 At The Hop
- 3 Smoke Gets In Your Eyes
- 4 Sh-Boom
- 5 Wake Up Little Susie
- 6 Yakety Yak
- 7 Tutti Frutti
- 8 Blueberry Hill

**CMG-USA-2      *"The King" Collection***

- 1 Hound Dog
- 2 Blue Suede Shoes
- 3 Love Me Tender
- 4 Return To Sender
- 5 Suspicious Minds
- 6 Heartbreak Hotel
- 7 It's Now Or Never
- 8 Jailhouse Rock

**CMG-USA-3      *Boppin' With The Beatles***

- 1 Yesterday
- 2 Back In The U.S.S.R.
- 3 When I'm Sixty-Four
- 4 Hey Jude
- 5 The Long And Winding Road
- 6 Twist And Shout
- 7 I Saw Her Standing There
- 8 Get Back

**CMG-USA-4      *Classic Requests***

- 1 Barbara Ann
- 2 Unchained Melody
- 3 Daydream Believer
- 4 The Letter
- 5 Under The Boardwalk
- 6 California Dreamin'
- 7 Oh, Pretty Woman
- 8 Good Lovin'

**CMG-USA-5      *Soul Sensations I***

- 1 My Girl
- 2 Stop! In The Name Of Love
- 3 The Tracks Of My Tears
- 4 What's Going On
- 5 I Can't Help Myself  
(Sugar Pie, Honey Bunch)
- 6 My Guy
- 7 For Once In My Life
- 8 Dancing In The Street

**CMG-USA-6      *Soul Sensations II***

- 1 Sex Machine
- 2 Respect
- 3 In The Midnight Hour
- 4 I Heard It Through The Grapevine
- 5 I've Got to Use My Imagination
- 6 (Sittin' On) The Dock Of The Bay
- 7 (You Make Me Feel Like)  
A Natural Woman
- 8 Baby Love

**CMG-USA-7      *Hard Rockin' Favorites***

- 1 Takin' Care Of Business
- 2 Born To Be Wild
- 3 Proud Mary
- 4 Stairway To Heaven
- 5 Paradise City
- 6 We Will Rock You
- 7 Rock The Casbah
- 8 Wild Thing

**CMG-USA-8      *Country Boys Collection***

- 1 Always On My Mind
- 2 King Of The Road
- 3 I Walk The Line
- 4 Hey Good Lookin'
- 5 Take This Job And Shove It
- 6 Luckenbach, Texas
- 7 Forever And Ever, Amen
- 8 My Heart

**CMG-USA-9      *Country Girls Collection***

- 1 Stand By Your Man
- 2 Crazy
- 3 Coal Miner's Daughter
- 4 Grandpa  
(Tell Me 'Bout The Good Old Days)
- 5 Here You Come Again
- 6 Tennessee Waltz
- 7 D-I-V-O-R-C-E
- 8 Rose Garden

**CMG-USA-10      *Cool Country***

- 1 The Gambler
- 2 I Fall To Pieces
- 3 Mamas, Don't Let Your Babies  
Grow Up To Be Cowboys
- 4 Ode To Billy Joe
- 5 Ring Of Fire
- 6 Harper Valley P.T.A.
- 7 (There's) No Gettin' Over Me
- 8 Angel Of The Morning

**CMG-USA-11      *Dynamic Duets***

- 1 Islands In The Stream
- 2 I Got You Babe
- 3 That's What Friends Are For
- 4 On My Own
- 5 Whenever I Call You "Friend"
- 6 Up Where We Belong
- 7 Don't Fall In Love With A Dreamer
- 8 To All The Girls I've Loved Before

**CMG-USA-12      *Classic Crooners***

- 1 Mack The Knife
- 2 New York, New York
- 3 Moon River
- 4 (I Love You)  
For Sentimental Reasons
- 5 I Left My Heart In San Francisco
- 6 As Time Goes By
- 7 Everybody Loves Somebody
- 8 All The Way

**CMG-USA-13      *Ladies Of Song***

- 1 Que Sera, Sera  
(Whatever Will Be, Will Be)
- 2 Evergreen
- 3 You Belong To Me
- 4 Cry Me A River
- 5 All Of Me
- 6 Sentimental Journey
- 7 People
- 8 Satin Doll

**CMG-USA-14      *Traditional Tunes***

- 1 When The Saints Go Marching In
- 2 Clementine
- 3 Let Me Call You Sweetheart
- 4 Old Folks At Home (Swanee River)
- 5 Tom Dooley
- 6 Oh! Susanna
- 7 Dixie
- 8 Won't You Come Home, Bill Bailey

**CMG-USA-15      *Children's Favorites***

- 1 Mary Had A Little Lamb
- 2 Puff (The Magic Dragon)
- 3 London Bridge
- 4 This Old Man
- 5 Skip To My Lou
- 6 Do-Re-Mi
- 7 Twinkle, Twinkle Little Star
- 8 Three Blind Mice
- 9 I've Been Working On The Railroad
- 10 Polly Wolly Doodle

**CMG-USA-16      *Classics Of Rock***

- 1 Joy To The World
- 2 Do It Again
- 3 Down On The Corner
- 4 Bad Case Of Lovin' You
- 5 With A Little Help From My Friends
- 6 After Midnight
- 7 Saturday Night's Alright For Fighting
- 8 American Pie

**CMG-USA-17      *Mellow Favorites***

- 1 Stand By Me
- 2 Raindrops Keep Fallin' On My Head
- 3 Your Song
- 4 Take Me Home, Country Roads
- 5 Fire And Rain
- 6 A Horse With No Name
- 7 Make It With You
- 8 A Groovy Kind Of Love

**CMG-USA-18      *Songs From The Heart***

- 1 The Rose
- 2 The Way We Were
- 3 Greatest Love Of All
- 4 (They Long To Be) Close To You
- 5 It's Too Late
- 6 Both Sides Now
- 7 Time After Time
- 8 You're So Vain

**CMG-USA-19      *Women In Rock***

- 1 Me And Bobby McGee
- 2 I Love Rock 'N Roll
- 3 We Got The Beat
- 4 Hit Me With Your Best Shot
- 5 Sweet Dreams (Are Made Of This)
- 6 Mad About You
- 7 Crazy For You
- 8 Delta Dawn

**CMG-USA-20      *The Super 60's***

- 1 The Loco-Motion
- 2 Blowin' In The Wind
- 3 Help Me Rhonda
- 4 Windy
- 5 Monday, Monday
- 6 These Boots Are Made For Walkin'
- 7 Louie Louie
- 8 Dizzy

**CMG-USA-21      *Christmas Favorites***

- 1 Rudolph The Red-Nosed Reindeer
- 2 Santa Claus Is Coming To Town
- 3 Twelve Days Of Christmas
- 4 Jingle Bells
- 5 Deck The Halls
- 6 Joy To The World
- 7 Winter Wonderland
- 8 We Wish You A Merry Christmas

\* Each "CMG" DKKaraoke disc comes in it's own protective plastic "jewel" case.  
**Suggested Retail Price: US\$19.95/disc**  
\* Listed titles as of January 1, 1993.

Over 1,000 Songs From Over 60 DKG Discs Are Also Available.

**DKKaraoke Has Over 1,000 Songs On Over 60 CD-G Discs (approximately 18 songs each) Available For Commercial DJ Use.**

\* DKG discs are packaged in fabric sleeves.  
**Suggested Retail Price: US\$40.00/disc**

For further information about  
DKKaraoke CD-G software,  
please contact DKKaraoke, Inc.  
at 1-800-USA-SONG.

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