

DN20

20-Channel Rack-mounted Digital Mixing Console



Description

This product is a novel and compact multi-functional rack-mounted interface console, offering small size, light weight, full functionality, intuitive operation, and fast response. Featuring multi-scene presets with recall capability and bilingual Chinese/English language support, it is well suited for live performances, conferences, schools, churches, cultural halls, weddings, concerts, home use, bands, and similar applications. The device connects to a computer via standard RJ45 Ethernet cable without requiring driver installation, and can be controlled either through a web interface or the built-in 7-inch HD LCD touchscreen. It also supports RS-485 connectivity for remote control via a central controller, further extending its versatility across a broad range of installations.

Features

- 8 MIC/Line inputs, 2 stereo inputs, 1 USB drive input, and 1 Bluetooth/sound card playback input.
- Pan control for input channels.
- MIC input gain adjustment (analog gain).
- MIC input gain adjustment (digital gain).
- +48V phantom power (individually switchable per MIC channel).
- Built-in noise gate, compressor, high/low-pass filters, input 6-band parametric EQ, delay, and pan/balance adjustment per input channel.

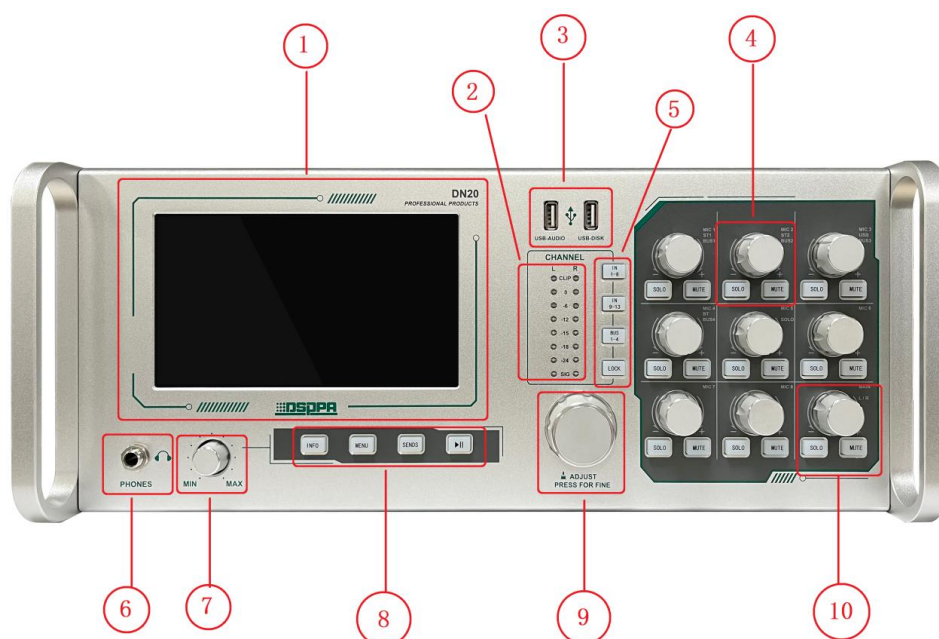
- Input and output equalizers with RESET/Bypass functions.
- Multi-function pushable rotary encoder.
- Each channel features multi-function menus, mute, and monitor functions.
- 8-channel signal output.
- Output processing: high/low-pass filtering and 15-band parametric EQ.
- Digital recording function.
- Dual-row 3-color 8-segment level meters.
- Built-in sound card (supports direct MP3 and PC music playback).
- 10 scene presets for quick recall and switching.
- User parameter storage and recall (manageable via PC).
- Supports wired network port control (or wireless control via external router).
- 7-inch 1024×600 HD capacitive touchscreen.
- Supports RS-485 serial port for central control integration.
- Integrated bus mixing send function.

Specifications

	Model	DN20
Mic/Line Input	Mic/Line Input: 1-8	Balanced XLR and 1/4" TRS Connectors
	Input Sensitivity (XLR/TRS)	XLR 6mv;TRS 6mv
	Input Analog Gain	-6dB to 45dB, with 3dB steps
	Max. Input Level(XLR/TRS)	+20dBu
	Input Impedance(XLR/TRS)	≥10KΩ
	+48V Phantom Power	Support
Stereo Line Input	ST1 Input	(TRS/RCA)
	ST2 Input	(TRS/RCA)
	USB Input	USB Drive
	Bluetooth/Sound Card	Bluetooth/USB-A
	Max. Input Level(ST)	+16dBu
	Input Impedance(TRS/RCA)	≥10KΩ
Output	Mixing 1- 4	Balanced, XLR, 4SUB
	Main L/R	Balanced, XLR
	Monitor Output	1/4" TRS and RCA
	Output Impedance	≤75Ω
	Frequency Response	20Hz-20KHz ±0.5dB
	Sampling Rate	48KHz±100PPM
	ADC/DAC	24bit Delta-sigma
System	Distortion	<0.005%(1KHz Full Power)
		Linux System
Bluetooth	Standard Bluetooth Protocol	Bluetooth 5.0
Power Supply		100V-240V AC, 50-60Hz
Control	Knob	Multi-function Pressable Knob
	Touch Screen	7"IPS, 1024*600 Resolution
	Output Grouping	Yes
	Network	TCP/IP Ethernet for PC Web Control

	Wired Connection	Windows PC Web Control Software
Input Processing	Input Source	Local CH1-CH8, ST1/2, Bluetooth, USB
	Equalizer	6-band Parametric EQ (20Hz-20KHz) $\pm 10\text{dB}$, Q Value 0.4-25
	High/Low Pass Filter	12dB 20Hz-20KHz
	Noise Gate	Sidechain/inline
	Threshold	-75dBV to -30dBV
	Attack/Release	1ms-250ms/1ms-10S
	Compressor	Sidechain/inline
	Threshold	-30dBV to -14dBV
	Compression Ratio	1:1 to 1:20
	Delay	Max. 200ms
Output Processing	Output Channel	4 SUB, 2 MAIN, 2 SOLO
	Equalizer	15-band Parametric EQ (20Hz-20KHz) $\pm 10\text{dB}$, Q Value 0.4-25
	High/Low Pass Filter	12dB 20Hz-20KHz
USB	Driver	USB-A
	Device	Supports One USB Storage Device (USB Flash Drive)
	Stereo Recording	2 Channels, Wav 48KHz 24Bit
	Stereo Playback	2 Channels (Wav, MP3, Flac, Apv, Ogg, etc.) 32-192KHz, 16-24Bit
USB Audio	Sound Card	USB-A
	Uplink Transmission	2 Channels Full Format Support, 32kHz-96kHz, 24-bit
	Downlink Transmission	2 Channels, MP3 Format, 48kHz, 24-bit

Front / Rear Panel

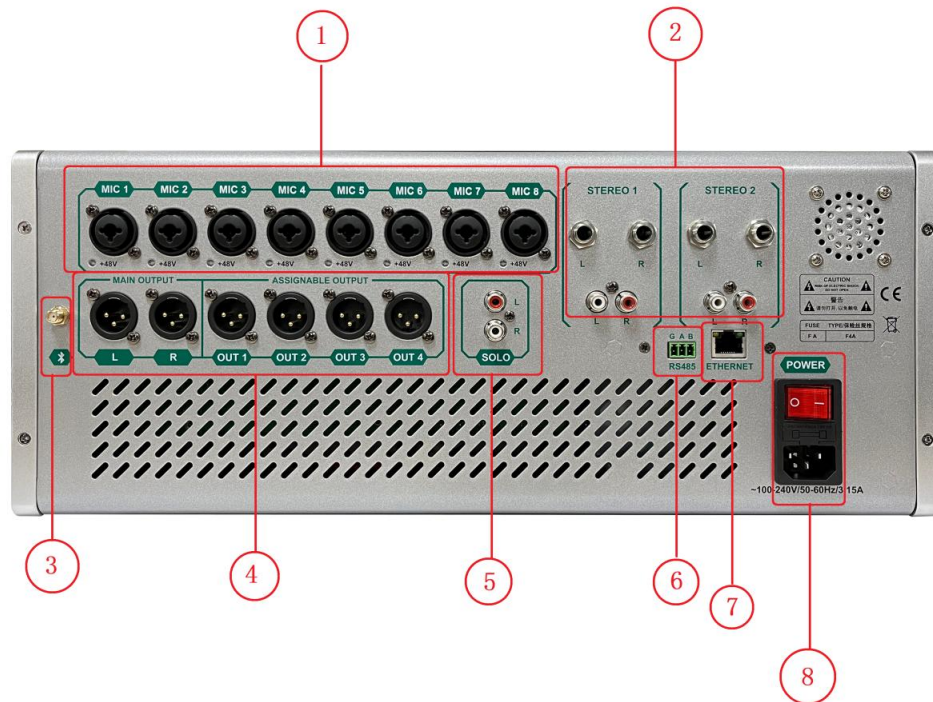


- ① 7-inch 1024×600 HD capacitive touchscreen.
- ② Real-time level indicators for selecting the corresponding channel.
- ③ USB-AUDIO is the USB sound card input for the computer, and USB-DISK is the USB drive input.
- ④ Volume adjustment knob for the corresponding channel, hold to adjust in 0.1 increments; SOLO

button for monitoring the corresponding channel; MUTE button for muting the corresponding channel.

- ⑤ From top to bottom: Select inputs 1-8; select inputs 9-13; select outputs 1-4; screen lock.
- ⑥ Headphone monitoring jack.
- ⑦ Headphone volume adjustment knob.
- ⑧ From left to right: System info button; input function settings menu; channel bus send interface; USB drive song button.

- ⑨ Convenient adjustment knob for the selected channel, hold to adjust in 0.1 increments.
- ⑩ MAIN output volume adjustment button, short press to enter the MAIN output configuration interface. Hold to adjust in 0.1 increments.



- ① MIC/Line microphone input interface, all balanced inputs, with 8 XLR connectors. Can connect to XLR cables or use 1/4" TRS cables to connect audio signal sources.
- ② Stereo input, can connect audio signal sources using 1/4" TRS cables or RCA cables.
- ③ Bluetooth antenna connection port.
- ④ SUB1-4 grouping output signal to the power amplifier or other sound reinforcement system.
- ⑤ RCA output interface for connecting monitor speakers.
- ⑥ Central control RS485, external 485 central control device control connection.
- ⑦ LINK: External router / network cable connection control.
- ⑧ Power input port and switch, 100~240V power input, must use the power cable provided by the manufacturer.