

## DN16

### 16-Channel Rack-mounted Digital Mixing Console



#### Description

This product is an innovative and versatile rack-mounted digital mixer, featuring a compact size, lightweight design, comprehensive functions, intuitive operation, and fast response.

With support for multiple scene settings and seamless switching, this product is well suited for a wide range of applications, including live performances, conferences, schools, churches, cultural halls, weddings, concerts, home use, and bands. The device can be quickly operated via a 5-inch high-definition LCD touchscreen combined with physical buttons. It also supports web-based control through an RJ45 connection to a computer without the need for additional drivers. In addition, RS-485 allows integration with a central control system for remote operation, making it suitable for various scenarios.

#### Features

- 12 MIC/Line inputs, 2 stereo input groups, and 1 USB playback input
- Input channel panning control
- MIC input gain adjustment (analog gain)
- MIC input gain adjustment (digital gain)
- +48V phantom power (individually switchable for each MIC channel)
- Built-in noise gate, compressor/limiter, high-pass and low-pass filters, 8-band parametric EQ, delay, and input channel balance control
- Input and output EQ with RESET/Bypass function
- Multi-functional push encoder knob

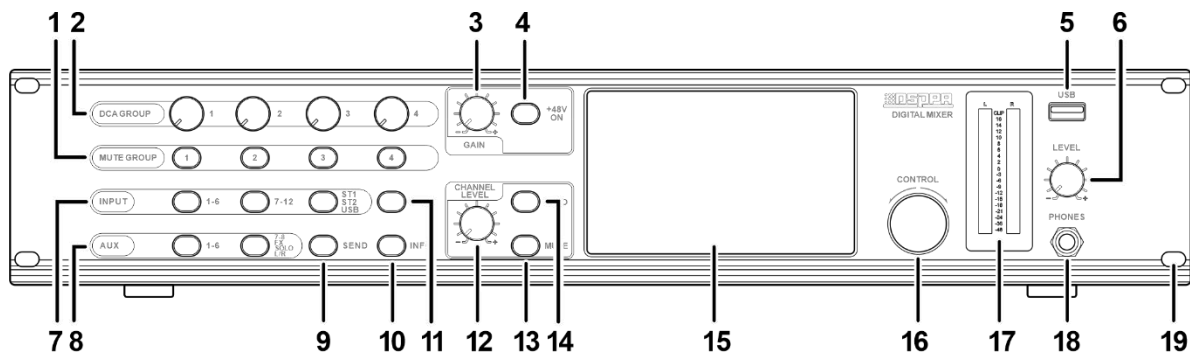
- Each channel features a multi-functional menu, mute, and monitoring
- 1 MAIN bus, 8 AUX buses, 1 FX bus, 1 REC bus, and 1 SOLO bus
- 10 physical output ports (L/R, AUX1–AUX8)
- Output processing: high-pass and low-pass filters, 8-band parametric EQ, and 31-band graphic EQ
- Digital recording function
- Dual-row, dual-color 20-segment precise level meters
- USB playback supporting MP3, FLAC, WAV, and other formats
- 10 scene memories for quick recall and switching
- Supports wired network control (or wireless control via an external router)
- 5-inch 800×480 high-definition capacitive touchscreen
- Supports RS232 / RS485 serial control for central control systems
- Integrated bus mixing send function

## Specifications

Model		DN16
Mic/Line Input	Mic/Line Input	12 × XLR balanced inputs
	Input Analog Gain	0 dB to 42 dB (1 dB steps)
	Max. Input Level(XLR)	+18 dBu
	Input Impedance(XLR, balanced)	2.4 kΩ
	+48V Phantom Power	Support
Stereo Line Input	ST1 Input	XLR Balanced Connector
	ST2 Input	XLR Balanced Connector
	USB Input	USB Drive
	Max. Input Level (ST)	+18dBu
	Input Impedance (TRS/RCA)	2.4KΩ
Output	AUX1-8	XLR Balanced Connector
	Main Output (L/R)	XLR Balanced Connector
	Monitor Output	1/4 TRS
	Output Impedance	100Ω
	Frequency Response	20Hz-20KHz ±0.5dB
	Sampling Rate	48KHz±100PPM
	ADC/DAC	48 kHz / 24-bit
	Distortion	<0.005% (20 Hz–20 kHz, 0 dB)
	SNR (0 dB)	100 dB (A-weighted)
	SNR (Max)	116 dB (A-weighted)
	Dynamic Range	113 dB (A-weighted)
Input Processing	Input Source	Local CH1-CH8, ST1/2, USB
	Equalizer	8-band Parametric EQ (20Hz-20KHz) ±10dB, Q Value 0.4-25
	High/Low Pass Filter	12dB 20Hz-20KHz
	Noise Gate	-90 dBu to -30 dBu
	Attack/Release	0.07–512 ms / 45–3400 ms
Output	Compressor	-36 dBu to +18 dBu
	Ratio	1:1 to 1:16
	Delay	Max 100 ms
	Output Channels	8 AUX, 1 L/R, 1 SOLO, 1 REC

Processing	Delay	Max 500 ms
	Equalizer	8-band parametric EQ (20 Hz–20 kHz, ±10 dB, Q Value: 0.4–25); 31-band graphic EQ (20 Hz–20 kHz) Three types available: Butterworth, Bessel, and Linkwitz-Riley. · Butterworth slopes: 6/12/18/24/30/36/42/48 dB/Oct · Bessel slopes: 6/12/18/24/30/36/42/48 dB/Oct · Linkwitz-Riley slopes: 12/24/36/42 dB/Oct
	High/Low Pass Filter	
Control	Knob	Multi-functional push encoder
	Display	5" IPS, 800×480
	Grouping	Supported
	Network	TCP / IP (Web Control)
USB	Wired Control	Windows PC Web Control
	Driver	USB-A
	Device	Supports One USB Storage Device (USB Flash Drive)
	Stereo Recording	2 Channels , Wav 48KHz 24Bit
System	Stereo Playback	2 Channels (Wav, MP3, Flac, Apv, Ogg, etc.) 32-192KHz, 16-24Bit
	Power Supply	Linux System
Product Dimensions (H×W×D)		100V-240V AC, 50-60Hz 88×484×338mm

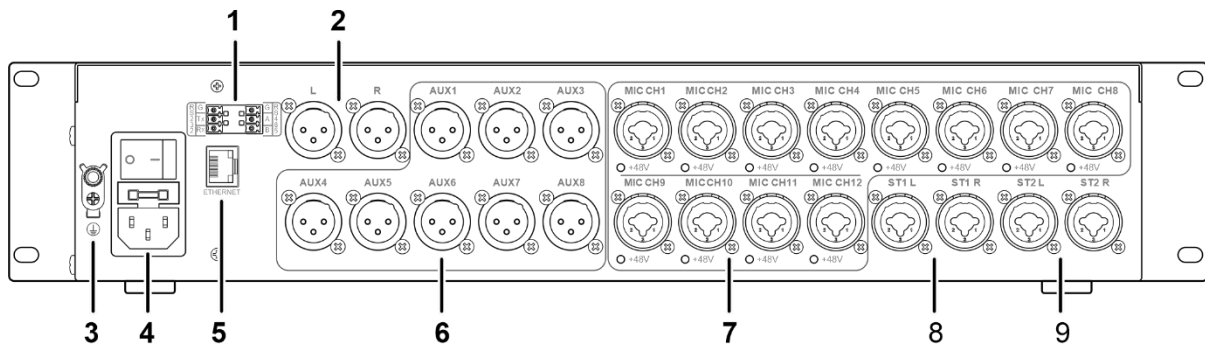
## Front / Rear Panel



1. Four mute group buttons
2. Four DCA group control knobs
3. Microphone gain control knob
4. Microphone +48V phantom power switch
5. USB port
6. Headphone volume control knob
7. Input channel selection
- Buttons 1–6: Control pages for input channels 1–6
- Buttons 7–12: Control pages for input channels 7–12
- STI/ST2/USB buttons: Control pages for stereo inputs 1/2 and USB input
8. AUX output selection
- Buttons 1–6: Control pages for AUX1–6 outputs

- Buttons 7–8 / FX / SOLO / L/R: Control pages for AUX7–8 outputs, FX outputs, SOLO monitor, and L/R main volume outputs
- 9. Send control page button
- 10. Function control center button
- 11. Screen lock button — locks the touchscreen interface when pressed
- 12. Channel fader knob
- 13. Channel mute button
- 14. Channel monitor button
- 15. 5-inch 800×480 HD capacitive touchscreen
- 16. Adjustment knob — adjusts selected gain parameters on the display; pressing the knob enables fine adjustment with 0.1-step resolution
- 17. Main output real-time level indicator lights
- 18. Headphone kack
- 19. Rack mounting holes

Note: The front-panel buttons are illuminated. Pressing a button will open the corresponding page or activate its function, and the button LED will light up simultaneously.



1. RS232 / RS485 control signal interfaces
2. Main output L/R interfaces
3. Device grounding terminal
4. Power input and switch
5. Network interface
6. 8 AUX output interfaces
7. 12 microphone input interfaces with +48V phantom power indicators
8. Stereo input 1 L/R interfaces
9. Stereo input 2 L/R interfaces