

The ultimate analog synthesizer, the Matrix-12 features 12 independently programmable voices. Each voice consists of the unique Matrix Modulation System™ found in the Oberheim Xpander-27 modulation sources and 47 destinations with user-definable routings. The 5-octave professional keyboard features velocity,

release-velocity and pressure-sensitivity for unparalleled control. Like the Xpander, the Matrix-12 voices can be played from the keyboard or programmed separately to different outside sources — 100 Single patches and 100 Multi patches in all. The incredible Oberheim sound with absolute control.

Audio Sources	12 Independent Velocity, Release Velocity and Pressure (After-Touch) responsive analog Voices. Voice Control Assignment can be per MIDI Input Channel (12 maximum), or per polyphonic grouping in up to six Zones.
On-Board ("Local") Controllers	61-Note (C ⁰ to C ⁵) five-Octave Velocity, Release Velocity and Pressure (After-Touch) sensitive Keyboard, non-weighted. 2 Non-dedicated Modulation Levers. 2 Non-dedicated Pedal Inputs
Voice Architecture	2 Voltage Controlled Oscillators ("VCOs") 1 15-Mode Voltage Controlled Filter ("VCF") 15 Voltage Controlled Amplifiers ("VCAs") 1 FM Modulation Generator 1 Lag Processor 3 Tracking Generators 5 Digital Envelopes 5 Digital Low Frequency Oscillators ("LFOs") 4 Ramp Generators 1 Noise Generator
Modulation	Matrix Modulation™ System utilizing 27 possible Sources routed to 47 possible Destinations in up to 20 "Modulation Pages" per Voice. 12 Permanent ("hardwired") modulations per Voice.
MIDI Implementation	MIDI IN, MIDI OUT and MIDI THRU Ports Transmit and Receive Channel select independent per Voice. (MIDI MONO Mode) or per polyphonic Zone. Modes Mode 1: OMNI On, Poly Mode 3: OMNI Off, Poly Mode 4: OMNI Off, Mono Controllers Independent Controller Number select Controllers ON/OFF select Patch Change Commands ON/OFF select Miscellaneous MIDI Features System Exclusive ON/OFF select MIDI Echo ON/OFF select
Miscellaneous	Three 40-Character Fluorescent Displays 100 SINGLE Patch Memory Locations 100 MULTI Patch Memory Locations "Chain" Programming Mode Cassette Interface — FROM (input) and TO (output) ports Trigger Input Requirements: +5V DC signal minimum, 1 ms Pulse Width Power Requirements (user selectable): North America and Japan: 95-120V A.C., 50-60 Hz Europe: 200-230V A.C., 50-60 Hz
Dimensions	Length 38 ⁷ / ₁₆ in. (97.63 cm.) Width 20 ⁵ / ₁₆ in. (51.59 cm.) Height (maximum, including feet) 5 ¹ / ₁₆ in. (15.08 cm.) Net Weight 33 lbs. (14.97 kg.) Shipping Weight 41 lbs. (18.60 kg.)
Optional Accessories	FS-7 Sustain Footswitch Individual Voice Outputs Update Kit



Prices and specifications are subject to change without notice.

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