



 Oberheim®

Matrix-12

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	<p>12 Independent Velocity, Release Velocity and Pressure (After-Touch) responsive analog Voices.</p> <p>Voice Control Assignment can be per MIDI Input Channel (12 maximum), or per polyphonic grouping in up to six Zones.</p>										
On-Board ("Local") Controllers	<p>61-Note (C⁰ to C⁵) five-Octave Velocity, Release Velocity and Pressure (After-Touch) sensitive Keyboard, non-weighted.</p> <p>2 Non-dedicated Modulation Levers.</p> <p>2 Non-dedicated Pedal Inputs</p>										
Voice Architecture	<p>2 Voltage Controlled Oscillators ("VCOs")</p> <p>1 15-Mode Voltage Controlled Filter ("VCF")</p> <p>15 Voltage Controlled Amplifiers ("VCAs")</p> <p>1 FM Modulation Generator</p> <p>1 Lag Processor</p> <p>3 Tracking Generators</p> <p>5 Digital Envelopes</p> <p>5 Digital Low Frequency Oscillators ("LFOs")</p> <p>4 Ramp Generators</p> <p>1 Noise Generator</p>										
Modulation	<p>Matrix Modulation™ System utilizing 27 possible Sources routed to 47 possible Destinations in up to 20 "Modulation Pages" per Voice.</p> <p>12 Permanent ("hardwired") modulations per Voice.</p>										
MIDI Implementation	<p>MIDI IN, MIDI OUT and MIDI THRU Ports</p> <p>Transmit and Receive Channel select independent per Voice. (MIDI MONO Mode) or per polyphonic Zone.</p> <p>Modes Mode 1: OMNI On, Poly Mode 3: OMNI Off, Poly Mode 4: OMNI Off, Mono</p> <p>Controllers Independent Controller Number select Controllers ON/OFF select Patch Change Commands ON/OFF select</p> <p>Miscellaneous MIDI Features System Exclusive ON/OFF select MIDI Echo ON/OFF select</p>										
Miscellaneous	<p>Three 40-Character Fluorescent Displays</p> <p>100 SINGLE Patch Memory Locations</p> <p>100 MULTI Patch Memory Locations</p> <p>"Chain" Programming Mode</p> <p>Cassette Interface — FROM (input) and TO (output) ports</p> <p>Trigger Input Requirements: +5V DC signal minimum, 1 ms Pulse Width</p> <p>Power Requirements (user selectable): North America and Japan: 95–120V A.C., 50–60 Hz Europe: 200–230V A.C., 50–60 Hz</p>										
Dimensions	<table border="0"> <tr> <td>Length</td> <td>38⁷/₁₆ in. (97.63 cm.)</td> </tr> <tr> <td>Width</td> <td>20³/₁₆ in. (51.59 cm.)</td> </tr> <tr> <td>Height (maximum, including feet)</td> <td>5¹/₁₆ in. (15.08 cm.)</td> </tr> <tr> <td>Net Weight</td> <td>33 lbs. (14.97 kg.)</td> </tr> <tr> <td>Shipping Weight</td> <td>41 lbs. (18.60 kg.)</td> </tr> </table>	Length	38 ⁷ / ₁₆ in. (97.63 cm.)	Width	20 ³ / 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.)
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Optional Accessories	<p>FS-7 Sustain Footswitch</p> <p>Individual Voice Outputs Update Kit</p>										



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Practical Innovation Continues