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IK Multimedia IKM UNOSYNTHPRODT

IK Multimedia UNO Synth Pro Desktop Analog Synthesizer User Manual (32 Keys)

Model: IKM UNOSYNTHPRODT

Brand: IK Multimedia

1. Introduction

The IK Multimedia UNO Synth Pro Desktop is a powerful analog synthesizer designed for musicians and producers seeking advanced sound design capabilities in a compact form factor. This unit features a dual-filter, 3-oscillator paraphonic design, a comprehensive 64-step sequencer, and extensive connectivity options.

This manual provides essential information for setting up, operating, and maintaining your UNO Synth Pro Desktop, ensuring you can fully utilize its next-generation analog sound and cutting-edge features.



Figure 1: Front view of the IK Multimedia UNO Synth Pro Desktop Synthesizer.

2. Package Contents

Verify that all items are present in the package:

- UNO Synth Pro Desktop Unit
- USB Cable
- Headphone (Included as per specifications)
- Quick Start Guide
- Registration Card

3. Setup

3.1 Powering the Unit

The UNO Synth Pro Desktop can be powered via USB. Connect the provided USB cable to the USB port on the rear panel of the synthesizer and to a compatible USB power source (e.g., computer, USB power adapter, or power bank).

3.2 Audio Connections

Connect your audio output to a mixer, audio interface, or headphones:

- **Main Outputs:** Use 1/4-inch TRS cables for balanced stereo output to a mixer or audio interface.
- **Headphone Output:** Connect headphones to the 1/8-inch (3.5mm) headphone jack for private monitoring.
- **Audio Input:** External audio signals can be routed through the synthesizer's filters and effects section via the 1/8-inch (3.5mm) audio input. This also allows for pass-through to daisy-chain multiple units.

3.3 MIDI and CV/Gate Connections

The UNO Synth Pro Desktop offers comprehensive connectivity for integration with other gear:

- **USB:** Connect to a computer for MIDI control, firmware updates, and use with the editor app for advanced sound design and preset management.
- **MIDI I/O:** Use standard 5-pin DIN MIDI cables for MIDI input and output with other MIDI devices.
- **CV/Gate:** Utilize assignable 1/8-inch (3.5mm) CV/Gate connections to interact with modular synthesizers and other CV-compatible equipment.



Figure 2: Rear panel showing USB, MIDI, CV/Gate, and Audio I/O connections.

4. Operating Instructions

4.1 Sound Generation: Oscillators and Filters

The UNO Synth Pro Desktop features three analog oscillators with continuously variable waveshapes, pulse-width modulation (PWM), sync, oscillator FM, and ring modulation. A white noise generator is also included for additional sound textures.

The dual-filter design combines the original UNO 2-pole OTA multimode filter with a new SSI 2/4-pole LP filter. These can be used in series or parallel with invertible phase, offering 24 different filter modes for extensive sound sculpting.

4.2 Modulation and Effects

Two full ADSR envelopes are available for both filter and amplitude control, alongside two LFOs for vibrato, wah, and tremolo effects. A 16-slot modulation matrix provides sophisticated routing options for both internal and external modulation sources, including MIDI controllers.

The unit includes four effect blocks: an analog overdrive circuit and 12 new digital effects covering modulation, delay, and reverb. External signals can also be processed through these effects.

4.3 Presets, Sequencer, and Arpeggiator

Access 256 user-editable presets to quickly recall and modify sounds. The integrated 64-step sequencer allows for complex melodic and rhythmic patterns with up to 80 parameters per step. A 10-mode arpeggiator offers various arpeggiation patterns, and a new “chord mode” leverages the synthesizer's paraphonic design.

Video 1: Official product video showcasing the UNO Synth Pro's features and sound capabilities.

5. Controls and Interface

The UNO Synth Pro Desktop features a clear and intuitive interface with dedicated knobs and buttons for key parameters. The layout is designed for hands-on sound manipulation and performance.

- **Oscillator Section:** Controls for wave shape, PWM, sync, FM, and noise.
- **Filter Section:** Cutoff, resonance, and mode selection for both filters.
- **Envelope Generators:** ADSR controls for filter and amplifier.
- **LFOs:** Rate and amount controls for two Low-Frequency Oscillators.
- **Modulation Matrix:** Buttons for assigning sources and destinations.
- **Effects Section:** Controls for overdrive and digital effects.
- **Sequencer/Arpeggiator Controls:** Buttons for recording, playback, step editing, and arpeggiator modes.
- **Preset Management:** Buttons for browsing, saving, and recalling presets.
- **Capacitive Keyboard:** A 32-key capacitive keyboard for playing notes and interacting with the sequencer.



Figure 3: Close-up of the front panel controls.

6. Maintenance

To ensure the longevity and optimal performance of your UNO Synth Pro Desktop, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the surface of the unit. Avoid abrasive cleaners or solvents.
- **Storage:** Store the synthesizer in a cool, dry place away from direct sunlight, extreme temperatures, and humidity.
- **Handling:** Handle the unit with care to prevent physical damage to knobs, buttons, and connectors.
- **Power:** Always use the recommended USB power source.

7. Troubleshooting

If you encounter issues with your UNO Synth Pro Desktop, try the following steps:

- **No Power:** Ensure the USB cable is securely connected to a working power source. Try a different USB cable or power adapter.
- **No Sound:** Check all audio connections. Verify that the volume is turned up on the synthesizer and your audio output device. Ensure that a preset is loaded and the oscillators are active.
- **MIDI Issues:** Confirm MIDI cables are correctly connected (MIDI Out to MIDI In, and vice-versa). Check MIDI settings on both the synthesizer and your connected device/software.
- **Unresponsive Controls:** Try restarting the unit. If the issue persists, check for available firmware updates.

8. Specifications

- **Model Name:** UNO Synth Pro
- **Item Model Number:** IKM UNOSYNTHPRODT
- **Brand:** IK Multimedia
- **Number of Keyboard Keys:** 32 (Capacitive)
- **Oscillators:** 3 Analog, wave-morphing
- **Filters:** Dual (2-pole OTA + SSI 2/4-pole LP), 24 modes
- **Envelopes:** 2 ADSR
- **LFOs:** 2
- **Modulation Matrix:** 16-slot
- **Effects:** Analog Overdrive + 12 Digital Effects
- **Presets:** 256 User-editable
- **Sequencer:** 64-step
- **Arpeggiator:** 10-mode
- **Connectivity:** USB, MIDI I/O (5-pin DIN), CV/Gate I/O (3.5mm), Audio In (3.5mm), Main Outputs (1/4-inch TRS), Headphone Out (3.5mm)
- **Item Weight:** 1.54 pounds (700 Grams)
- **Product Dimensions:** 9.84 x 5.5 x 1.96 inches
- **Body Material:** Plastic
- **Color:** White

9. Warranty and Support

For warranty information and technical support, please refer to the documentation included with your product or visit the official IK Multimedia website. Product registration may be required to access full support and software downloads.

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