Important Safety and Maintenance Instructions

- Read these instructions.
- Use the unit only with the supplied power adapter.
- Connect the power adapter to the correct voltage (voltage is marked on the power adapter).
- Protect the power adapter cord from being walked on, and do not place heavy objects on it.
- Do not drop or subject to a strong impact.
- Do not place heavy objects on the unit or block the ventilation of the unit.
- Do not use this unit near water.
- Do not expose the unit to rain, moisture, dripping, or splashing water.
- Do not expose the unit to direct sunlight or use it in temperatures exceeding 40°C.
- Do not store the unit in hot or damp conditions.
- Do not place the unit next to heat sources such as radiators and other heat-producing apparatuses.
- Do not open the unit or insert anything into the unit. This may cause an electric shock or a fire.
- Use a dry soft cloth to clean the unit. Do not use chemicals like benzine, thinners, alcohol, solvents or aggressive cleaners for cleaning the unit.
- Do not use the unit during thunder or lightning.
- Avoid using the unit extended times at high volume to avoid hearing loss.
- Turn off the unit immediately if an abnormality or malfunction occurs.

Turning the Redshift 6 On and Off

NOTE:

Before connecting the power adapter to the wall current, make sure that the power adapter is using the correct power plug for the region.

Turning the Power On

Before turning on the Redshift 6, always make sure that the volume is turned all the way down. You can hear some sound when switching on the unit, even when the volume is turned down. This is completely normal and not a sign of any malfunction.

1. Before turning on the Redshift 6, make sure that the connected equipment is powered off.
2. Turn the Volume knob all the way to the minimum volume.
3. Turn on the Power switch located in the left corner of the rear panel.
4. Switch on the equipment connected to the unit and adjust the level of volume to the desired level.

Turning Off the Power

1. Before turning off the power turn the volume on the connected equipment to the minimum.
2. Turn off the power from all the audio devices connected to the Redshift 6.
3. Turn off the Power from the Redshift 6.

FCC Information (USA)

IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT!

This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Supercritical may void your authority, granted by the FCC, to use the product.

IMPORTANT:

When connecting this product to accessories and/ or another product use only high-quality shielded cables. Cable(s) supplied with this product MUST be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA.

NOTE:

This product has been tested and found to comply with the limit for a Class B Digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential environment. This equipment generates, uses, and radiates radio frequency energy and, if not installed and used according to the instructions found in the user manual, may cause interferences harmful to the operation of other electronic devices. Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interferences, which can be determined by turning the unit "OFF" and "ON", please try to eliminate the problem by using one of the following measures:

- Relocate either this product or the device affected by the interference.
- Use power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter(s).
- In the case of radio or TV interferences, relocate/ reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to coaxial cable.
- If these corrective measures do not bring satisfactory results, please contact the local retailer authorized to distribute this type of product. If you cannot locate the appropriate retailer, please contact Supercritical.

For Canada

NOTICE:

This class B digital apparatus meets all the requirements of the Canadian Interference-Causing Equipment Regulation.

AVIS:

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

European Union Regulation Compliance Statement

CE

This product has been tested and found to comply with the Low Voltage Directive 2014/35/EU and the Electromagnetic Compatibility Directive 2014/30/EU.

SUPERCRITICAL

This Quick Start Guide explains basic functionality of Redshift 6

Redshift 6's user interface is designed to keep the menu diving to a minimum. The front panel has a selection of familiar synth controls and a shortcut button grid for quick navigation. The eight **soft knobs** around the display provide quick and easy parameter adjustment. The 2.7" **color display** shows which parameters can be adjusted with the soft knobs.

Some of the buttons have alternative functions that are indicated with light blue text next to the button. These functions can be accessed using **[SHIFT]** button. For example, holding **[SHIFT]** button while pressing **[PERFORM]** button initializes the patch. The Modulation Grid can be turned into a **mini keyboard** by pressing **[SHIFT]** button + **[KEY]** button.

To take full advantage of the Demon Core Oscillator and the extremely versatile 4-pole state variable filter, Redshift 6 uses different engines for its oscillators and filter. Engines change the behavior of the analog signal path to offer a vast sound palette not possible with traditional analog synths.

- **[ENGINE]** button: Changes the engine - **Note:** Firmware version 1.0 only offers one DCO Engine (DUAL) and one Filter Engine (CLASSIC).

DEMON CORE OSCILLATOR

The Demon Core Oscillator is an MDCO (Multiperiod Digitally Controlled Oscillator), which allows a single analog voice to generate up to 16 simultaneous oscillators with separate pitch, amplitude and phase control.

- **[STACK]** knob: Controls the number of oscillators.
- **[DETUNE]** knob: Controls the amount of detuning between the oscillators.
- **[BALANCE]** knob: Controls the amplitude of the oscillators.

DCO: DUAL engine provides two waveforms ("Wave1" and "Wave2"), switchable from Saw to Square wave with PWM.

- **[BALANCE]** sets the volume ratio between "Wave1" and "Wave2".
- **[STACK]** size increases the number of oscillators: for example, setting it to "8" will produce 7 oscillators with "Wave1" and 8 oscillators with "Wave2" for a total of 15 oscillators.
- **[DETUNE]** sets the detuning spread between oscillators. The first oscillators will always play in tune.

CHARACTER & DRIVE

With different character profiles, each voice's analog signal path regarding tuning, gain staging, filter, amp, and envelope behavior can be changed from almost digitally sterile and clean to distorted misbehavior and beyond.

- **[CHARACTER]** knob: Selects the Character profile.

Tip: Hold **[SHIFT]** button while turning to morph between the characters.

- **Liquid** Spacey resonance, filter pings dripping with dew.
- **Crisp** A bright state variable filter.
- **Fat** Our take on a ladder-ish filter character.
- **Sour** The squelchy acid thing.
- **Mean** Highly unstable, bad behavior, and distortion.

- **[DRIVE]** knob: Controls the amount of drive.

POWER SWITCH Turns Redshift 6 on/off

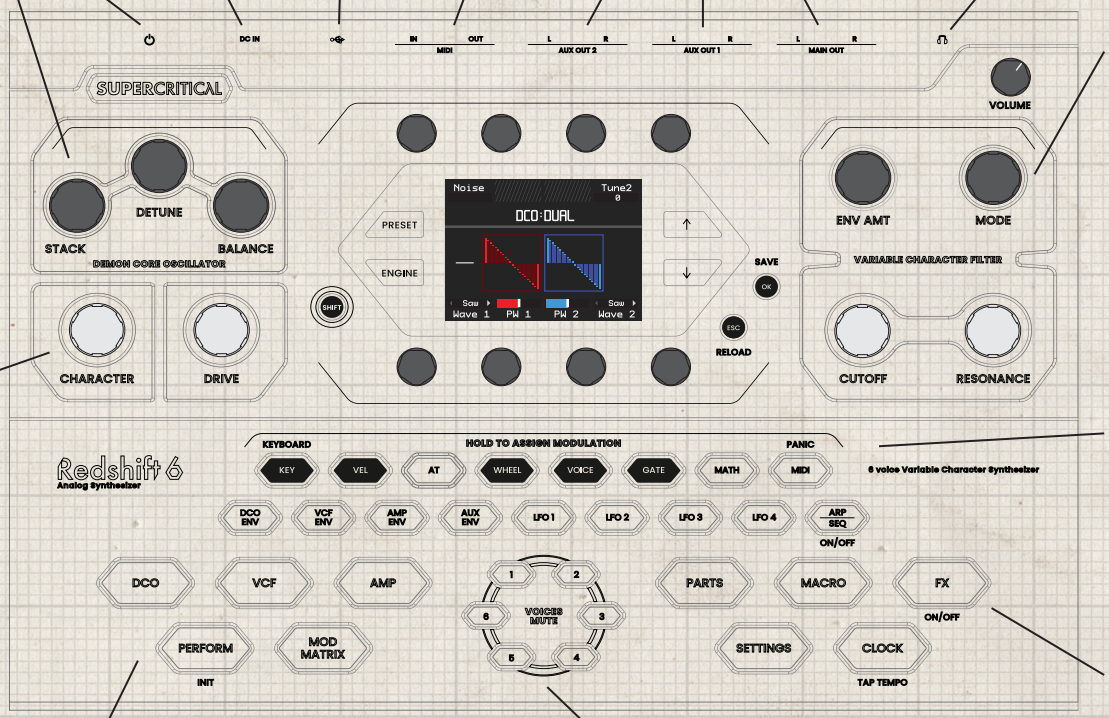
DC IN Input for the power adapter

USB USB connection to a computer

MIDI MIDI input & output

AUX OUT 1, AUX OUT 2 and MAIN OUT Balanced TRS, line level audio outputs

HEADPHONES Stereo TRS headphone output



VARIABLE CHARACTER FILTER

Redshift 6's has an analog variable character filter that can imitate many classic synths and more.

- **[ENV AMT]** knob: Controls the intensity of filter envelope (VCF ENV) to cutoff modulation
- **[MODE]** knob: Changes filter mode.

  For example with the "VCF: Classic" engine, interpolates between LPF-BPF-HPF.
- **[CUTOFF]** knob: Controls the cutoff frequency of the filter.
- **[RESONANCE]** knob: Controls the the amount of emphasis on a narrow band near the cutoff frequency.

MODULATION GRID

Provides access to modulation source parameters and used to assign modulation. Modulations are assigned by holding a modulation source button and turning a knob controlling a modulation target parameter.

For example, turning the **[CUTOFF]** knob while holding the **[LFO1]** button will assign LFO1 to modulate filter cutoff. Assigned modulations can be edited in detail by pressing the **[MOD MATRIX]** button.

Tip: Hold **[SHIFT]** and press any knob to reset to default value

GLOBAL GRID

Global controls not specific to a part:

- **[PARTS]** button: Voice assignment parameters and more for parts
- **[MACRO]** button: assign global macros for the soft knobs*
- **[FX]** button: Set main output DSP FX.*

  Tip: [SHIFT] button + **[FX]** button to bypass.
- **[SETTINGS]** button: Adjust global settings.
- **[CLOCK]** button: Adjust clock settings.*

  Tip: tap the **[CLOCK]** button with the **[SHIFT]** button held down to set tap tempo.*

PART GRID

Part-specific controls for the analog signal path and more:

- **[DCO]** button: Oscillator-related parameters.
- **[VCF]** button: Filter-related parameters.
- **[AMP]** button: Amp-related parameters
- **[PERFORM]** button: Performance-related parameters.
- **[MOD MATRIX]** button: List of all assigned modulations.

VOICES GRID

- **[1] - [6]** LEDs: Shows which of the 6 voices are currently playing.
- **[1] - [6]** buttons: Selects which part is currently active for editing.*

  Tip: [SHIFT] button + **[1]-[6]** buttons to mute a part.*

Note: Features marked with * are not yet implemented in firmware version 1.0

GET THE LATEST INSTRUCTION MANUAL
supercriticalsynthesizers.com/redshift6/

Redshift 6
QUICK START **GUIDE**
(Firmware 1.0)