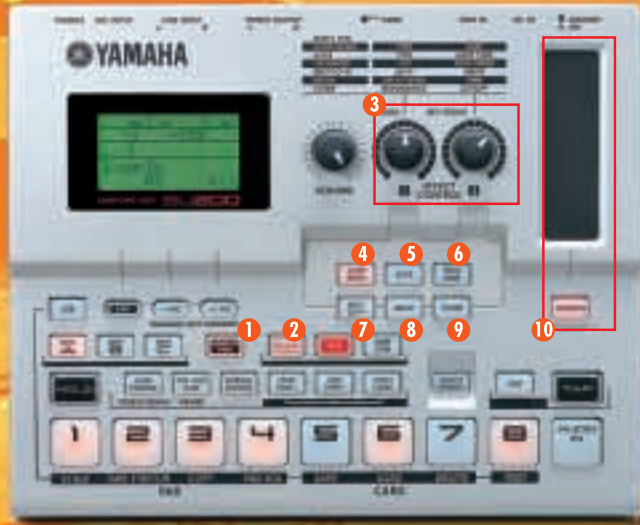


Loop Factory

SAMPLING UNIT

SU200



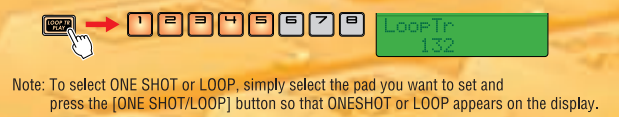
- Loop Track Play**
Even if each of your sample loops has a different tempo, pressing this button will make them all play back in perfect sync — without changing the pitch!
- Mix it Together**
Use the Resample function to record multiple samples, pad taps, effects, knob tweaks and scratches into a single new sample.
- Realtime Control Knobs**
These knobs let you control parameters of the currently selected effect — in realtime!
- Loop Remix**
Create remixed loops at the touch of a button! This amazing function divides a loop into pieces and rearranges their order to make an entirely new loop.
- Improve the Groove**
The Slice function divides a sample at numerous points and changes the gate time of each division to create funky new grooves.
- Tech Mod**
Similar to ring modulation, Tech Mod adds a metallic synthesizer-like effect to a sample.
- Dist/Lo-Fi**
This effect degrades the quality of the sample and adds distortion to produce a hard underground sound.

- Delay**
Produces a spacey echo effect that's synchronized to the tempo of the sample.
- Powerful Filter**
Selecting this effect adds a full resonant filter to a selected sample. Adjust the resonance and cutoff by turning the control knobs.
- Scratch it!**
Press the [SCRATCH] button and you'll be able to play the currently selected sample back and forth on the Ribbon Controller as if you were scratching a record. With the [SCRATCH] button deselected, you can control the same effect parameter as Knob 2 with the Ribbon Controller.

Creating slamin' rhythm loops has never been easier! The SU200 is the only phrase sampler in its class that can automatically synchronize sample loops on-demand — even if they are sampled at different tempos. Simply press the Loop Track Play button and you'll be able to make a perfect mix by muting and unmuting the sample pads. Then use the Loop Remix function to instantly create new variations of your sample loops. Let's give it a try...

Mixing with LOOP TRACK PLAY

- Press the [LOOP TR PLAY] button. All samples set for LOOP begin playing at the same BPM. Any samples set to ONE SHOT remain off.



Note: To select ONE SHOT or LOOP, simply select the pad you want to set and press the [ONE SHOT/LOOP] button so that ONE SHOT or LOOP appears on the display.

- To mute any sample, press the corresponding pad. The pad goes dark, and the sample stops playing.
- Now try changing the tempo (BPM) of the overall mix. Use the [-1/N/O] and [+1/YES] buttons to adjust the tempo, or tap the [TAP] button three or four times at your desired tempo.

- Ready to add in some samples on the fly? Try pressing any pad set for ONE SHOT. These pads are not affected by Loop Track Play, so you can play them as you like.
- Press the [LOOP TR PLAY] button again to stop sample playback.

Discover the Power of LOOP REMIX and Effects

- Press the [LOOP REMIX] button.
- While holding down the [HOLD] button, press the pad to which you want to apply the LOOP REMIX effect (Rhythm tracks work best).
- Press the [LOOP REMIX] button.
- Turn Effect Control Knob 1 to change the Remix Type, and Knob 2 to change the Remix Variation.

Assigned parameters for Knob 1 and Knob 2

Effect	Parameter 1 Knob 1	Parameter 2 Knob 2 and Ribbon Controller
Loop Remix	Type	Variation
Slice	Type	Gate time
Tech Mod	LFO	Mod speed
Dist/Lo-Fi	Lo-Fi	Drive
Delay	Delay level	Time
Filter	Resonance	Cutoff

AN200

DESKTOP CONTROL SYNTHESIZER / Analog Physical Modeling



- Analog-Style Sequencer**
Each step of a pattern can be precisely controlled with the turn of a knob. Change the pitch, gate time or velocity of any synth or drum note — on the fly!
- Realtime Morphing**
Tweak your sound just the way you want and store it as a "Scene." You can create and use two different Scenes within a single pattern. The Scene knob lets you "morph" between the two sounds in realtime.
- Record Your Knob Tweaks**
Free EG tracks let you record knob changes into your pattern. Using the bundled software editor, you can hand draw the shape of the EG on your PC screen.
- LFO**
You can modulate the pitch or the filter with any one of the 21 different LFO waveforms. Use this knob to adjust the LFO speed.
- EG (Envelope Generator)**
This group of knobs lets you set the attack, decay, sustain and release of the amplifier envelope (AEG) and filter envelope (FEG). You can control these envelopes independently or at the same time.

- Distortion**
In addition to the four effect types common to all tracks, the Synth track has a dedicated distortion effect for creating hardcore synth leads.
- 3 Rhythm Tracks**
Three tracks are provided for you to build rhythmic patterns using the 120 built-in drum, bass and percussive synth sounds.
- Portamento**
Portamento makes the notes of the Synth track glide from one pitch to another.
- FM Depth**
Tweaking this knob produces interesting variations in timbre ranging from subtle harmonics to harsh metallic sounds.
- Noise Level**
As the name indicates, this knob adds noise to the synthesizer voice. Great for making percussive sounds.
- 6 Filter Types !!!**
A total of 6 different types are available, including 24 dB, 18 dB, 12 dB, band pass, high pass and band eliminate. You can apply the filter to both the synth track and rhythm tracks, and change the filter type during playback.

DX200

DESKTOP CONTROL SYNTHESIZER / FM Synthesis



- VCO 1/2 (AN200)**
Use this knob to adjust the volume balance between VCO 1 and VCO 2.
- SYNC (AN200)**
The AN200's oscillators can be sync'd together to produce radical variations in pitch and timbre.
- 32 Algorithms (DX200)**
Algorithms are the basic sound generating component in FM synthesis, similar to VCO waveforms in analog synthesis. By simply changing the algorithm type, you can get radical variations in timbre.

- MIDI Control Data Output**
All knobs transmit MIDI control change messages, which means that you can record knob changes into an external hardware or PC-based sequencer. You can even use this feature to edit and control synth modules that don't have realtime control knobs.

The AN200 and DX200 Desktop Control Synthesizers have all the ingredients you need to make awesome dance tracks — full-fledged Analog Physical Modeling or FM synthesis, gobs of realtime control knobs and 120 sampled drum and bass voices. Follow the steps below and hear for yourself the amazing sound of these Loopfactory units.

Play the Patterns

Both the AN200 and DX200 have 256 preset patterns and 128 user patterns. Each pattern features a different synthesizer voice as well as a new rhythm. Let's take a listen.

- Press the Start/Stop button to start the sequencer. The pattern number appears in the display.
- Turn the DATA knob to change the pattern. The new pattern will start playing at the beginning of the next measure.
- Press the Start/Stop button again to stop playback.

Mix the Tracks

Each pattern consists of a Synth track and 3 Rhythm tracks. Let's try mixing these in realtime during playback.

- Start the sequencer. Hold down the [SHIFT] key. Notice pads 1-4 light up? This indicates that all tracks are "on."
- While holding down [SHIFT], press pad 1 to mute (turn off) the Synth track, and press pads 2, 3 and 4 to mute each of the rhythm tracks. Press the same pad again to unmute it. Try making new pattern variations by muting and unmuting different combinations of pads.



Add Effects

The effects processor onboard the AN200 and DX200 lets you radically change the sound of the Synth and Rhythm tracks. Let's try applying various effects to the Synth track.

- Start the sequencer and select the Synth track.
- The [WET/VOL] knob sets the amount of effect to be applied. Try setting it to around the 2:00 position.
- Press the [TYPE] button to choose the effect type. Use the [PARAM/PAN] knob to select different variations of the effect type.

Complete Control from Your PC

For die-hard control freaks, the AN200 and DX200 come with an exclusive software editor that lets you fully edit the voices, Free EGs, and step sequencer patterns from your Macintosh® or Windows® computer.

The AN200 and DX200 editors let you access and change any voice parameter with the click of a mouse. Many voice parameters not accessible from the main units are available here for your tweaking pleasure.

In the Free EG editing screen, you can precisely edit the wave of each Free EG track. You can even use your mouse to draw the entire EG wave by hand.

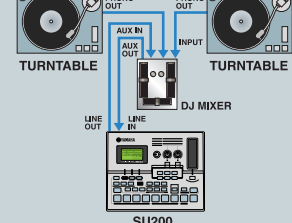
The step sequencer editing screen lets you see all steps and parameters at a glance, making it quick and easy to build your synth and rhythm tracks. Sequencer playback can be conveniently controlled from your PC.



LIVE PERFORMANCE

SU200 Loop it Live

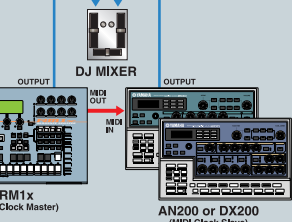
Compact and portable, the SU200 is the perfect companion for your DJ rig. Fill it up with your favorite loops before the gig and then mix them in as part of your set. Matching the tempo of any loop to the BPM of your records is as simple as tapping on the [TAP] button. While the loop is playing, you can add effects, tweak the filter or scratch a sample — all in realtime! But that's just part of the fun. Try running an audio cable from a set of auxiliary outputs on your DJ mixer into the audio inputs of the SU200. While everyone on the dance floor is groovin' to the vinyl on your turntable, you can sample a phrase off of it, loop it and bring it on the fly. You can even apply the filter and effects to the external audio signal. Be creative. You're only limited by your imagination.



Note: Configuration may differ depending on model of DJ mixer used.

AN200 or DX200 Take Control of the Floor

No matter which one you choose to use, the AN200 and DX200 pack plenty of punch to keep the dance floor moving. One unit alone gives you everything you need to create original tracks for your next live venue, including a powerful polyphonic synthesizer and speaker-rattling drum and bass sounds. In addition to a wealth of realtime control knobs, these synths are loaded with a ton of features for the live performer. Slow it down, drop the bass, play it backwards, re-trigger the entire sequence as if it were a sample — mix your tracks any way you want. For even more variety, add the RM1x Sequence Remixer to your setup and you'll have 16 additional tracks of high-energy sounds and rhythms.



SU200 + AN200 + DX200 An All-Out Assault

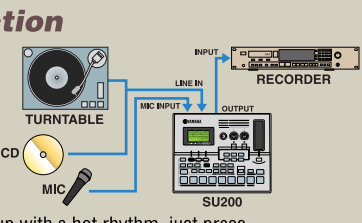
Link together all the Loopfactory gear and you've got the ultimate live rig. Connect the units together via MIDI, using either the AN200 or the DX200 as the master sequencer. Whenever you start or stop the master sequencer, the other machines will follow in perfect sync. The AN200 and DX200 each give you over 380 patterns, which you can freely mix together without missing a beat. Add a turntable or CD player for some on-the-fly sampling with the SU200. Thanks to their small size and light weight, all these Loopfactory units can be easily placed into a padded shoulder bag and carried to the gig.

Note: The SU200 does not have photo-level inputs. A preamp or turntable with line-level outputs is needed for the above connection.

MUSIC PRODUCTION

SU200 Sample-Based Music Production

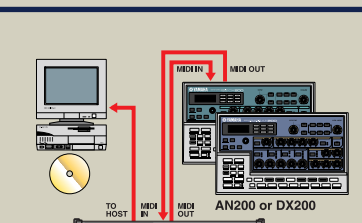
Round up a microphone, your record & CD collection, anything that makes a noise... and get ready to make some killer loops! Thanks to the SU200's exclusive Loop Track Play function, you can have up to 6* loops instantly play back in perfect sync — regardless of their original tempo! As your samples play back, you can add effects, jack the low end, scratch a sample, remix a loop or change the groove. Whenever you come up with a hot rhythm, just press the Resample button to record everything into a single new sample — filter tweaks and all. Once your loops are in place, connect a DAT or MD recorder to the SU200 and record your original performance.



*Number of loops available for playback depends upon sample resolution. Note: The SU200 does not have photo-level inputs. A preamp or turntable with line-level outputs is needed for the above connection.

AN200 or DX200 High Quality Synth Module

Warning: These products are NOT toys! Inside each of these units is a full-blown professional synthesizer — a 5-note polyphonic analog physical modeling synthesizer equivalent to Yamaha's PLG150-AN plug-in board on the AN200, and a 16-note polyphonic FM synthesizer identical to the legendary DX7 inside the DX200 (yes, a DX7 mini version). When using either of these as part of a home studio setup, you'll definitely want to take full advantage of their powerful synthesis capabilities. If you are using a keyboard with a built-in PC serial interface, such as the CS6x, simply connect the DX200 or AN200 to the MIDI Thru port and use it as you would any standard synth module. Both units are bundled with exclusive editing software so you can edit the parameters in full detail right on your PC! What's more, you can use any of the voices from the growing AN1x sound library with the AN200 and any of the tens of thousands of DX7 voices available on the Internet with the DX200.



SU200 + AN200 + DX200 A Kickin' Home Studio

If you're serious about making dance tracks, seriously consider adding all the Loopfactory gear to your studio setup. After all, the secret to producing hot dance tracks — whether they be hip-hop, techno, trance, big beat or two-step — is being able to come up with wicked, ear-catching sounds that will cut through the mix. And with the phat analog sounds of the AN200, the punchy and twisted metallic sounds of the DX200, and the convenient loop mixing capabilities of the SU200, you'll have all the ingredients for a perfect dance mix right at your fingertips. Depending on your recording preference, you can compose patterns on each unit and synchronize their playback using an external sequencer such as the RM1x as the master MIDI clock, or you can record all parts directly into the RM1x using a MIDI keyboard at the top of the MIDI chain. With everything connected to a master mixing board, you'll be able to precisely adjust the volumes and EQ settings of each unit and record your final mix to DAT.

