



Phat C
Saturation and Compression
Native Plug-in Version 1.0
Users Guide



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Catalog Number

URSPHATCNAT

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Chapter 1: Introduction

Welcome to the URS Phat C from Unique Recording Software, Inc. or URS for short. The URS Phat C digitally recreates the characteristics of vintage pre amp saturation and a vintage compressor/Limiter.

The URS Phat C includes six selectable saturation algorithms for its input stage.



URS Phat C

The URS Compressor plug-ins are easy to use thanks to the engineers at Unique Recording Software who developed a unique (!) software interface making each plug-in simple to learn and operate. Most importantly the URS Classic Compressor plug-in sounds great providing faithful sonic emulations of two of the most unique and uniquely musical Compressors ever developed.

The URS Classic Compressor plug-ins are available for Pro Tools LE and all other Native Systems.

- The Native includes RTAS and AudioSuite with support up to 192 kHz sample rates.
- The URS Phat C supports Mono, Stereo and Multi-Mono formats.

System Requirements

- Version 1.0 of the Compressor plug-in supports Macintosh OSX and Windows WinXP, Windows Vista and Windows 7. (Check the URS Web site for the most current support news.)
- The URS Phat C plug-in supports any Pro Tools LE system capable of running Pro Tools software version 7.x.x or higher including support for Pro Tools 8.0.3 and Snow Leopard.
- The URS Phat C plug-in requires an iLok Smart key for authorization. If you do not have an iLok, consult the Digidesign web site for information to acquire one for your Pro Tools software.

Chapter 2: Installation, Registration and Authorization

Installing the Classic Compressor plug-in involves the following three steps:

1. Installing the plug-in.
2. Registering with Unique Recording Software.
3. Authorizing your plug-in using the authorization code generated by your registration with URS.

Follow the instructions below to complete the installation, registration and authorization process.

Installing

To install the Classic Compressor plug-in:

1. Download the installer for your Pro Tools system, computer platform and operating system from the Unique Recording Software web site (www.ursplugins.com) or insert the Classic Compressor Installer disc into your CD-ROM drive.
2. Double-click the installer for the URS plug-in bundle you have purchased. TDM users should install the TDM bundle. LE users should install the Native bundle.
3. Follow the instructions onscreen to install the plug-in. When you are finished, remove the URS disc from your CD-ROM drive.

Registering is required in order to initiate the plug-in authorization process. Registering your plug-in also entitles you to free periodic updates as they become available.

Registering

Register your purchase online at the URS web site. Registering is the best way to protect your investment and to get the most out of your URS software purchase.

To register:

1. Browse to the URS web site at www.ursplugins.com and follow links to register.
2. Complete the registration form supplying all required information including your email address. The invoice or dealer license number is required depending whether you purchased online or through a dealer.
 - If you purchased your URS software from the URS Online Store, provide your invoice number and date of purchase.
 - If you purchased URS software from a dealer, provide the dealer's name, their license number and date of purchase (See the URS Registration Card included with your package). Upon registration, URS will send you an email to the address you provided. This email includes your URS User ID and a temporary password.
3. Upon receipt of the notification email, return to www.ursplugins.com and log in using the provided User ID and temporary password.
4. Follow the instructions onscreen to create a permanent password for yourself. Upon completion, you will be taken to the URS Welcome page.
5. From the URS Welcome page, follow the Download links to get to the download page. On the downloads page you will find all currently available versions of URS plug-ins, Pace Interlok software extensions (with an installer), user manual (and demos when available).

If necessary, download the software appropriate for your computer platform, operating system and Pro Tools hardware as well as any Pace extensions required.

Authorizing

After completing the registration process, use iLok.com to update your iLok Smart Key with URS assets (URS transfers *assets* or authorizations to the iLok.com web site when you register your purchase with URS).

Authorizing your software involves the following three steps:

- Registering as a URS Customer to generate your iLok assets.
- Transferring your iLok assets to update your iLok Smart Key from the iLok.com web site.
- Authorizing the installed URS plug-in with your updated Smart Key.

The following section explains each of these steps in detail.

Before you begin:

6. If you have not already done so browse to www.ursplugins.com and follow the links and instructions onscreen to register as a Unique Recording Software customer (see Registering on page 5). URS generates authorization iLok assets for your purchased software upon completion of the registration process.
7. Make sure your iLok Smart key is inserted into an active USB port on your computer.

To transfer your assets to your own iLok:

1. Browse to www.iLok.com.
2. Log in or sign up and create an account if you are new to iLok copy protection. (See your Pro Tools plug-in guides for more information about iLok or go to
3. (www.iLok.com.)
4. Follow the onscreen instructions to transfer your Classic Compressor assets to your iLok Smart Key.

To authorize your plug-in:

1. Make sure you have installed the plug-in and registered with URS and that you have transferred your iLok assets as described in the previous steps.
2. Launch Pro Tools.
3. If prompted, insert your iLok Smart Key into an available USB port. Follow any onscreen instructions to complete the authorization.

Customer Support

Technical support is available online. Please email URS at:

support@ursplugins.com.

Please include your Online Store Invoice number or your URS License number and your telephone number.

Downloads of the latest versions of URS software as well as manuals and other resources are also available at the URS web site (www.ursplugins.com).

Chapter 3: URS Phat C

The URS Phat C plug-in supports all sample rates up to 192 kHz and can be used on mono and stereo audio tracks, aux inputs and master faders.



The URS Phat C

About the URS Phat C

The URS Phat C features Professional options to control automatic gain reduction. It can be as easy to operate once the signal flow is understood. (Please see the Signal Flow Block Diagram in Section 5 of this manual).

The URS Phat C combines input stage saturation with vintage compression. To operate, select your desired input stage, set the right amount of compression. Use the built-in High Pass filter to affect how the Compressor rides your track

URS Phat C Specifications

Specifications

- Six Input Stage Saturation algorithms
- Compressor Threshold control
- Variable Compressor Knee – Soft to Hard
- Selectable Compressor Attack Time 20us - 10ms.
- Variable Compressor Release Time 50ms – 3 seconds.
- Selectable Compressor Ratio 1.2:1, 1.5:1, 2:1, 3:1, 4:1, 6:1, 8:1, and 10:1
- Variable Hi-pass Filter @ 20hz, 25hz and 30hz - 12dB per Octave
- Gain Reduction Meter
- Gain Make up Output Control
- In/Out Bypass switch
- Plasma Style Input and Output VU Meters

The URS Phat C Input Stages

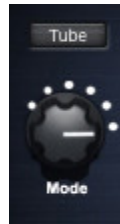
The URS Phat C features six different input stage algorithms to reproduce the vintage even/odd harmonics, saturation and soft clipping found in a variety of vintage compressors,

VCA – Opto – Fet – Transformer – Tape and Tube

Selecting the Input Stage Saturation Mode

To select the Input Stage Saturation Mode:

1. Click and drag on the Input gain knob as needed to select from the six different input stages.
2. Click on the Numeric Window and use the QWERTY keyboard's up and down arrow keys to select from the six different input stages. The Numeric Window is located above the Input Stage Knob as shown in the illustration below.



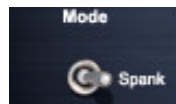
Click and drag on the Input Stage Saturation Mode knob to select the Input stages

The URS Phat C Input Stage Saturation Spank Mode:

The URS Phat C Input Stage includes a Spank mode to increase harmonics and soft clipping. The Spank mode will increase the saturation to spank troublesome transients back down. Sometimes you just gotta spank it before you crank it!

To engage the Input Stage Saturation Spank Mode:

1. Click on the Spank toggle switch as needed so it points to spank to enter spank mode.

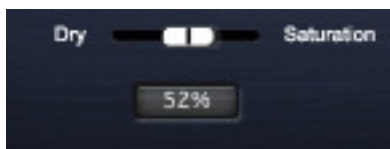


The URS Phat C Input Stage Saturation Wet/Dry Mix Control:

The URS Phat C Input Stage includes a Wet/Dry Mix control slider to add back the original signal to the Input stage processed material. Adding the right amount of dry signal restores transients that may have been lost after the Input Stages harmonics, saturation and soft clipping.

To adjust Input Stage Saturation Wet/Dry Mix Control

2. Click and drag on the Compressor's Input Stage Saturation Wet/Dry Mix Slider as needed to raise or lower the Dry unprocessed signal gain.
3. Click on the Numeric Window and use the QWERTY keyboard's up and down arrow keys or enter the value from the keyboard. The Numeric Window is located below the Compressor's Wet/dry Mix Control slider as shown in the illustration below.

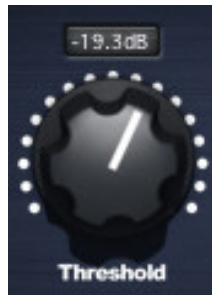


The URS Phat C Input Stage Saturation Wet/Dry Mix control

Adjusting the Compression Threshold

To adjust the Compressor's Gain Reduction Threshold:

1. Click and drag on the Compressor's Threshold knob as needed to raise or lower the threshold level.
2. Click on the Numeric Window and use the QWERTY keyboard's up and down arrow keys or enter the value from the keyboard. The Numeric Window is located above the Compressor's Threshold knob as shown in the illustration below.

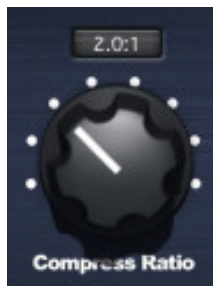


Compression Threshold Knob

Setting the Compression Ratio

To adjust the Compressor's Gain Reduction Ratio:

1. Click and drag on the Compressor's Ratio knob as needed to raise or lower the ratio amount.
2. Click on the Numeric Window and use the QWERTY keyboard's up and down arrow keys or enter the value from the keyboard. The Numeric Window is located above the Compressor's Ratio knob as shown in the illustration below.



Compression Ratio Knob

The URS Phat C Knee

Understanding Phat C Knee:

The URS Phat C features Soft Knee compression for Ratio's 1.2:1, 1.5:1 and 2:1

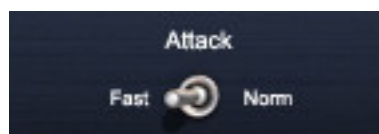
The URS Phat C features Normal Knee compression for Ratios 3:1 through 8:1.

The URS Phat C features Hard Knee Limiting for Ratio 10:1

Selecting Fast or Normal Compression Attack Time

To select the Compressor's Fast or Normal Attack Time:

1. Click and drag on the Compressor's Attack Time toggle switch as needed to select either Fast or Normal attack time.

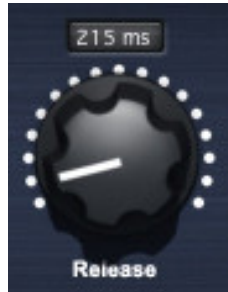


Compressor Fast or Normal Attack Time Toggle

Adjusting the Compression Release Time

To adjust the Compressor's Gain Reduction Release Time:

1. Click and drag on the Compressor's Release Time knob as needed to raise or lower the release time.
2. Click on the Numeric Window and use the QWERTY keyboard's up and down arrow keys or enter the value from the keyboard. The Numeric Window is located above the Compressor's Release Time knob as shown in the illustration below.



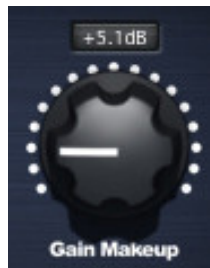
Compressor Release Time Knob

Adjusting the Compressor's Gain Make Up

The Compressor's Gain Make Up knob amplifies the output level after the Compressor's circuit.

To adjust the Compressor's Gain Makeup:

1. Click and drag on the Compressor's Gain Make Up knob as needed to raise or lower the make up gain.
2. Click on the Numeric Window and use the QWERTY keyboard's up and down arrow keys or enter the value from the keyboard. The Numeric Window is located above the Compressor's Gain Make Up knob as shown in the illustration below.



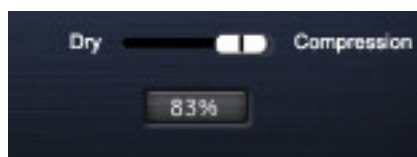
Compressor Gain Make Up Knob

The URS Phat C Wet/Dry Mix Control:

The URS Phat C includes a Wet/Dry Mix control slider. Use the Wet/Dry mix control to add the right amount of dry signal to restore transients that may have been lost during compression.

To adjust the Compressor's Wet/Dry Mix Control

4. Click and drag on the Compressor's Wet/Dry Mix Slider as needed to adjust the Dry signal gain.
5. Click on the Numeric Window and use the QWERTY keyboard's up and down arrow keys or enter the value from the keyboard. The Numeric Window is located below the Compressor's Wet/dry Mix Control slider as shown in the illustration below.

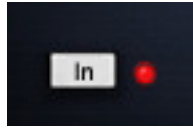


The URS Phat C Wet/Dry Mix control

Bypassing the Compressor

To bypass the Compressor:

Click the Compressor's IN button to toggle bypass state. When button is in (processing), the IN button LED is lit. When bypassed (out), the IN LED is dark and the plug-in Bypass switch is lit.



Compressor IN / OUT button

When the Compressor section is OUT the Gain Make Up control is also out of circuit. We have programmed it this way to prevent drastic level changes when the Gain Make Up level is set high and the Compressor is removed from circuit.

Using the Internal High Pass Filter

The Internal High Pass Filter explained

The Internal High Pass filters are a set of equalizers that affect the frequency range of the signal that is being set to the gain reduction sensing circuit.

Using the High Pass Filter

In the default position the Filters are out of circuit and the Compressor and Limiter affect the entire broad band frequency range. When enabled the High Pass Filter allow you to narrow the frequency range of the Compressor and Limiter functions.

To select the built in Internal Hi-Pass Filter:

Click on the HPF knob or the HPF Numeric Window to toggle bypass state. When HPF knob is in (processing) either 20hz, 25hz or 30hz will be displayed in the numeric window. When HPF knob is out it is bypassed and Off will be displayed in the numeric window.



Hi-Pass Filter section

Using the Gain Reduction Meter

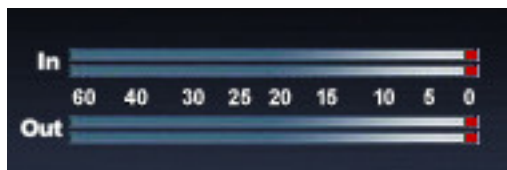
The Gain Reduction Meter monitors gain reduction of the Compressor;



The URS Phat C Gain Reduction Meter

Using the Input and Output Plasma VU Meters

The Input and Output meters are placed on top of each other to quickly compare input to output levels without leaving the plug-in window. Gain staging in today's Digital Audio Workstations is critical and not overloading the track(s) is essential. The Meters include a Red Clipping indicator.



The URS Compressor Input and Output Meters

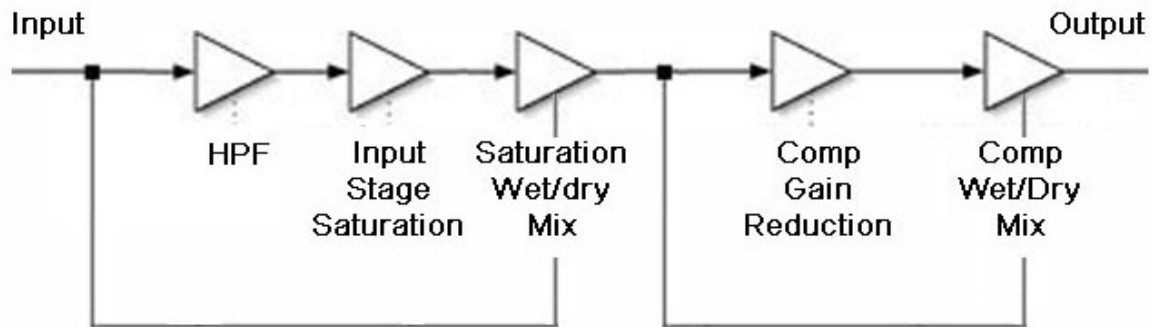
To clear the Gain Clip Indicators

- Click once on the Red gain clip indicator to clear its status.
- Operation Tip! - Hold the Option key and click on either Gain Clip Indicator to clear both.

Chapter 5: Block Diagram

URS Phat C Signal Flow Block Diagram

Phat C signal Flow



Chapter 5: Operational Tips

This chapter provides additional information for the URS Compressor only version and the URS Compressor / Limiter / Side Chain Filter version including control surface support and operational tips to help you get the most out of the Phat C.

ICON, ProControl, Control|24 and Other Control Surfaces

The Phat C fully supports Digidesign ICON, ProControl, Control|24, Command 8 and other supported control surfaces. For example, on ProControl the URS plug-in supports the DYN functions for selecting compressor as dynamics inserts on tracks.

In addition, ProControl maps each plug-in toggle switch to the BYPASS/IN/Ø switch (in the DSP Edit/Assign area).

The following tables show the control surface labels used to indicate each COMPRESSOR parameter. Use the associated knob or fader (if your controller supports plug-in Flip mode) to adjust each parameter.

URS Phat C Control Surface Abbreviations

Control Surface	URS Compressor
Lvl	Input Level
Gan	Gain Make up
Rat	Ratio
Atk	Attack Time
Rls	Release Time
Thr	Threshold

Operational Tips

TDM or RTAS

If you purchased the Native License you can use RTAS, Audio Units and/or VST.

If you have the native version, you can use RTAS version only.

Using Multi-Mono Mode for RTAS

If you want to compress a stereo track, master fader or 5.1 Master fader with one set of compressor controls left and right or more :

1. Select the insert point on your Stereo fader, Master fader or 5.1 Master fader.
2. From the plug-in window open the Multi-Mono Mode plug-in list.
3. Select either the URS Phat C

(Multichannel tracks greater than stereo (LCR to 7.1) Pro Tools LE.)

Use the Link controls for ganged control of all channels (see your Pro Tools manuals for plug-in linking).

Version Number

URS Phat C version number

To find out what version number you have installed, click on the URS logo in the upper right hand corner of the plug-in. The Version number will then be displayed. Click again to hide the version number.



URS Logo

Mouse Scroll Wheel Support

The URS Phat Cs includes Mouse Scroll Wheel Support for Max OSX Snow Leopard, Tiger and Panther.

Our new Wheel Mouse Scroll Wheel Support for Mac OSX requires no clicking.

You simply place the mouse cursor over the knob and without clicking just move the mouse scroll wheel to adjust the knob.

You can use your Mouse Scroll Wheel to control the Compressor's knobs, buttons and/or Numeric Windows. Each click of the wheel mouse scroll wheel moves the knob or slider .1db. Holding the option key will enable a 10x multiplier.


Unique Recording Software

www.ursplugins.com

URS Quick Start Guide

Here's what you'll need to do to get up and running fast.

1. An iLok and iLok.com user account.
2. Create a URS user ID to Login to the URS web site.
3. Register your product on the URS web site to automatically transfer your license asset(s) to your iLok.com user account.
4. Transfer your URS license asset(s) from your ilok.com user account to your iLok.
5. Install the Pace Interlok Extensions and Reboot your computer.
6. Install the URS software.

<p>1. An iLok and iLok.com user account is required.</p> <p>Create an iLok.com User ID at www.iLok.com and Synchronize your iLok with iLok.com. More info at www.ursplugins.com/ilokID.html</p> <p>You can purchase an iLok from your Dealer or from the Digidesign Online Web store.</p>	
<p>2. Create a URS user ID to Login to our web site. Please register at www.ursplugins.com/reg.html</p>	
<p>3. Register your product on the URS web site to automatically transfer your license asset(s) to your iLok.com user account. Please Login at www.ursplugins.com/login.html</p> <p>Dealer purchased Retail Box At the URS Welcome page select "Register Products". Enter the License # found on the enclosed License Card. Your License Asset(s) will automatically be delivered to your iLok.com account. More info at www.ursplugins.com/register.html</p> <p>URS Online Store purchased Electronic License(s) including Rental Licenses At the URS Welcome page select "Register Products". Enter your Order # from your Online Store receipt. Your License Asset(s) will automatically be delivered to your iLok.com account. More info at www.ursplugins.com/register.html</p> <p>Demo Users At the URS Welcome page select "Request Demo Licenses". Select the products to demo and hit Request. Your Demo License Asset(s) will automatically be delivered to your iLok.com account.</p>	
<p>4. Transfer your URS license asset(s) from your ilok.com user account to your iLok Login at www.iLok.com and transfer your license asset(s) to your iLok. Please see www.ursplugins.com/iloktransfer.html</p>	
<p>5. Install the Pace Interlok Extension Drivers from http://www.paceap.com/dldrvr.html The Pace Interlok Extension Drivers are required for your computer to identify your iLok. A reboot is recommended.</p>	
<p>6. The most current versions of our software are found on the URS Downloads page. Please Login at www.ursplugins.com/login.html and from the Welcome page select Downloads. If you only want to install the Classic Console EQ Bundle or specific plug-in(s)? Download the Everything EQ Bundle, select "Custom Install" and de-select the URS plug-ins you do not want to install.</p> <p>If you have TDM licenses Please download and install the TDM versions They are located on the Downloads page in the section with the white background like this.</p> <p>If you have NATIVE licenses Please download and install the Native versions They are located on the Downloads page in the section with the gray background like this.</p> <p>If you have DEMO or RENTAL licenses Please download and install the Demo/Rental versions They are located on the Downloads page in the section with the blue background like this.</p>	
<p>7. To Upgrade your software and the Pace Interlok Extensions to the latest version. Please see www.ursplugins.com/upgrade.html</p>	

Note - If you are having difficulties, please fill out a support request form at :
www.ursplugins.com/supportrequest.html