

# OZONE7 ELEMENTS USER GUIDE



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## CONTENTS

WHAT IS OZONE 7 ELEMENTS?	3
OZONE 7 ELEMENTS VS. STANDARD VS. ADVANCED	4
WHAT IS OZONE 7 ELEMENTS?	5
UNDERSTANDING THE MAXIMIZER	7
UNDERSTANDING THE MACRO SLIDERS	9
GENERAL FUNCTIONS	11
AUTHORIZATION	16
IZOTOPE CUSTOMER CARE	22
END USER LICENSE AGREEMENT	24



## WHAT IS OZONE 7 ELEMENTS?

<default> All-Purpose Mastering Adaptive Dynamics</default>		U Maximizer	-24 -20 Peak -125 -125 RMS	-0.6 -0.3 -11.0 -10.9
Added Focus Added Warmth Brighten Overall Mix		Threshold -2.0 dB		
CD Master Control Dynamics Crisp Highs			-10	8 8
Depth and Clarity Emphasize Bass Emphasize Midrange			-20	
Enhance Dynamics Factory default settings		-5.4	-40	
Macro Controls			-50 -Inf	
			0.0 0.0	0.0 0.0
EQ Amo +50	unt %	Dynamics Wet / Dry 30%	Bypass	9
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#### Ozone 7 Elements is a masterfully simple, yet sonically powerful mastering tool.

It includes the industry's most transparent and respected sonic Maximizer with many professionally designed, goal-oriented presets that use a huge variety of the Ozone family's mastering-grade audio processors to effortlessly get your mixes radio and streaming ready.

Simply select a preset, adjust the amount of EQ and Compression you want, and bring your tracks up to a competitive level with Ozone's legendary Maximizer. With Ozone 7 Elements, it's never been easier to achieve a final mix with the sonic impact and energy of songs from your favorite albums.

## OZONE 7 ELEMENTS VS. STANDARD VS. ADVANCED

**Ozone 7 comes in three distinct versions.** "What's the difference between them?" you may ask. Well, we're glad you hypothetically asked, and here's a quick look at what separates the three versions.

FEATURES/VERSION	OZONE 7 ELEMENTS	OZONE 7	OZONE 7 ADVANCED
Extensive presets	75+	110+	110+
Mastering channel-strip	Yes**	Yes	Yes
	Simple, macro controls	Deep, precision controls	Deep, precision controls
Maximizer module	No**	Yes	Yes
Equalizer module	No**	Yes	Yes
Dynamic EQ module	No**	Yes	Yes
Dynamics module	No**	Yes	Yes
Harmonic Exciter module	No*	Yes	Yes
Stereo Imager module	No*	Yes	Yes
Vintage Limiter module	No*	Yes	Yes
Vintage Tape module	No	No	Yes
Vintage EQ module	No	No	Yes
Vintage Compressor module	No	No	Yes
Codec Preview module	No	No	Yes
Dither module	No	Yes	Yes
10 component plug-ins	No	No	Yes
Insight metering plug-in	No	No	Yes
Standalone application	No	Yes	Yes

\* Though Ozone 7 Elements does not contain dedicated modules for these mastering-grade audio processors, it does contain these technologies under the hood, allowing you to load any one of the factory presets to sweeten your audio.

\*\* Though not the full modules, Ozone 7 Elements contains three controls that allow seamless, simple sonic enhancement over the EQ and Dynamic EQ, Dynamics, and Maximizer behaviors that Ozone 7 Elements imparts upon your master.

Each version offers the famed Ozone sonic palette as a starting point, with an increasing amount of control and available options as you level up your mastering toolkit.



## WHAT IS OZONE 7 ELEMENTS?

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All-Purpose Mastering	
Adaptive Dynamics	
Added Focus	
Added Warmth	
Brighten Overall Mix	
CD Master	
Control Dynamics	
Crisp Highs	
Depth and Clarity	
Emphasize Bass	
Emphasize Midrange	
Enhance Dynamics	
actory default settings	

### Presets as sonic inspiration

Ozone 7 Elements features a preset manager that allows you to quickly and easily find the right preset to help you polish up your final master.

Our hope is not that you'll necessarily set it and forget it, but listen through a variety of sonic options, choose one that adapts well to your audio and seems to bring out the most musical characteristics, and then tweak that to taste.

Ozone 7 Elements presets are extrapolated from the Ozone 7 preset library, and are organized into several folders:

- All-purpose mastering
- Genre-specific mastering
- Signature presets

You can select and audition any preset by simply clicking on the name in the list. You can easily compare several different presets just by picking a different preset from any one of the curated lists, which we intend to inspire you and your ears!

### Presets storage location

By default, the data files for the presets are stored in a folder located at the following locations:

- Windows: C:\Users\\Documents\iZotope\Ozone 7 Elements\Presets
- macOS: Users//Documents/iZotope/Ozone 7 Elements/Presets



## UNDERSTANDING THE MAXIMIZER



Ozone 7 Elements features a Maximizer. A Maximizer is a digital peak limiter designed to create a master that sounds louder or fuller overall. It does this by reducing the dynamic range and boosting the overall perceived level of the mix. The Maximizer contains iZotope's acclaimed IRC (Intelligent Release Control) technology, which lets you boost the overall level of your mixes without sacrificing dynamics and clarity.

Differences in overall loudness levels can distract our ears from other sonic details. Because the Maximizer can add level, Ozone 7 Elements includes a feature that will automatically match the output levels when bypassed, so that you can more objectively compare your original and processed audio without being influenced by the overall loudness level. More on that is covered in the General Functions chapter.

# How does the Maximizer's IRC actually work?

IRC limits an audio signal by using an advanced psychoacoustic model to intelligently determine the optimal speed of limiting the incoming signal before producing distortion that can be perceived by the human ear. The Maximzer also employs "look ahead" technology to adapt its speed in real time. For example: if it detects additional transients are about to hit the limiter (a drum fill, for instance), it will react accordingly. In addition to intelligently limiting peaks and boosting program level, this latest iteration of the Maximizer also gently adjusts to the frequency content in real time and works smoothly across many bands of limiting, acting selectively on frequencies that contain excess energy. To quote one of the algorithm's designers, "If you have some drums, and you also have some vocals at the same time, using a conventional limiter to prevent the drums from clipping would also cause pumping in the vocals. The Maximizer is going to be able to reduce the drums without touching the vocals so much."

### Threshold

This slider determines the point at which the Maximizer will begin limiting. As the threshold is reduced, more limiting is applied and makeup gain is added. In other words, by turning down the threshold, you limit the dynamic range of the mix, and the Maximizer automatically adds gain proportionally to maximize th Ozone 7 Elements features a Maximizer. A Maximizer is a digital peak limiter designed to create a master that sounds louder or fuller overall. It does this by reducing the dynamic range and boosting the overall perceived level of the mix. The Maximizer contains iZotope's acclaimed IRC (Intelligent Release Control) technology, which lets you boost the overall level of your mixes without sacrificing dynamics and clarity.

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### **Ceiling readout**

The presets each contain a Ceiling, which sets the maximum level output by the Maximizer. The numerical readout above the Threshold meter displays the Ceiling, so that you're aware of that preset's maximal level.

In certain cases (such as prior to any MP3 or AAC encoding), it may be desirable to use a preset with a lower ceiling like -0.7 or -1 dB, as this safely guarantees that the digital noise introduced by lossy compression algorithms like MP3 won't cause clipping after the fact. Values higher than this may allow some MP3 artifacts through downstream, but at a level deemed acceptable by the user. Beauty is in the eye of the beholder after all. Your audio is beautiful. You're beautiful. Have a great day!





## UNDERSTANDING THE MACRO SLIDERS



Ozone 7 Elements features two macro sliders, one that tweaks Equalization (EQ) behavior, and one that adjusts Dynamics processing.

As any seasoned mastering engineer knows, EQ and Dynamics processing are arguably the two most important elements of the mastering toolkit in terms of seeking to make a track sound as good as it possibly can.

Each Ozone 7 Elements preset contains some curated, deeply thought out mastering processors designed to tweak audio in whichever way the name of the preset suggests. What these macros allow you to do is refine the frequency shaping (EQ) or the overall dynamic balance and loudness processing (Dynamics) as best fits your audio, by adjusting the macro sliders.

## EQ Amount

This slider increases or decreases the shape of the equalization and tone shaping in the preset. Higher values mean more aggressive shaping; lower values mean more subtle shaping.

At -100%, it is flat—meaning no EQ-based frequency adjustments are being made. At 0%, it's applying EQ processing in the loaded preset. At +100%, it's applying twice as much EQ processing. This is why it is called EQ Amount, as it enables you to choose how much processing you'd want to apply.

If you like the tone shaping of a preset, but it's a little too intense for your taste, reduce this slider. If you want to hear what it sounds like if you push it, move the slider to the right. You can set several configurations to flip between using the Undo History in the bottom right of the Ozone 7 Elements window to allow for seamless auditioning.

## Dynamics Wet/Dry

This slider is very subtle, as dynamics processing should be during the mastering process. It allows you to blend in uncompressed audio (Dry) with compressed audio (Wet). The more Wet signal you blend in—up to a maximum of 100%—the more subtly compressed your audio might be.

Some presets will set this for you. If you move the slider and don't hear much of a difference, it could be a few things:

- 1. You don't need to adjust the slider! It's good where it is.
- 2. You're desiring a transparent, yet more noticeable loudness boost. Use the Maximizer.
- 3. It's hard to A/B. Enable the Ear icon on the right hand side (this ensures A/B comparisons are level matched), and click Bypass to go back and forth while paying attention to the overall punch and presence of the audio.

If you find that you're enjoying the wide variety of sonic options the presets have to offer, but that you're seeking even deeper control than the macro sliders offer, you can download and try the demo of Ozone 7 Standard.





## GENERAL FUNCTIONS

Granted, "General functions" might not be the most exciting sounding chapter title, but understanding Ozone 7 Elements' basic functions is important—particularly if you're into a variety of ways you might meter your audio levels, use an Undo History to track adjustments or preset changes, or objectively check your A/B comparisons with the automatic level matching feature... all of which are key to achieving a successful audio master.

## **Global Bypass**

This button will disable Ozone 7 Elements' processing, enabling you to A/B your audio After processing and Before processing.

## The Ear icon

Clicking on the "ear" icon underneath the master I/O meters activates the "automatically match effective gain when bypassed" feature.

Dynamics and Maximizer can affect the overall or perceived loudness of the mix. This makes it very hard to compare "Ozone 7 Elements on" with "Ozone 7 Elements bypassed." This feature solves this problem. When enabled, it determines how much perceived gain is being added by Ozone 7 Elements and then automatically adds this amount of gain when Ozone is put into bypass mode. This allows you to objectively listen to whether the improvements were good or simply "louder."

## Undo History

The Undo History window is a unique and powerful feature for comparing settings in Ozone 7 Elements. To access the Undo History list, click on the "History" button in the lower right of the plug-in. As you tweak controls, each movement is captured and displayed in the Undo History list. To go back and hear a previous setting, simply click on the list at the point you want to audition. The changes that you've undone will show up in a lighter color.

## **Options Menu**

The Options Menu contains three tabs: General, Metering, and Social. Here's what is in each tab:

#### General

This tab contains a variety of important options.

#### ENABLE/DISABLE ANALYTICS

Click this box to allow Ozone 7 Elements to occasionally upload data on your usage patterns of the plug-in to iZotope's servers. This info is completely anonymous, and allows us to provide the best updates possible in the future by better understanding how users are using Ozone 7 Elements.

#### CHECK FOR UPDATES

Ozone 7 Elements allows you to check for updates from iZotope with recurring frequency. Check Now is an instant check, but you can also define periodic, automatic checks.

These options are:

- Never
- Daily
- Weekly
- Monthly
- Authorization

This section allows you to authorize and deauthorize Ozone 7 Elements. Clicking on "Authorize" will load the authorization window discussed in detail in <u>Chapter 7: Authorization</u>.



Clicking on "Remove Authorization" will remove the authorization from your machine to facilitate transfer to another computer. This is specific to local authorizations and will not affect iLok.

Clicking on "More information..." will take you to the authorization help section of iZotope's website.

#### PRESET LOCATION

Click this button to change the location of where the presets are stored on your computer.

#### Metering

Ozone 7 Elements' input/output level meters display the input and output level for the left and right channels. Several metering options are available.

#### SHOW PEAK HOLD

Check this setting to allow the master I/O meters to visually display a peak hold, whenever peaks occur in the audio.

#### DETECT TRUE PEAKS

By default the input/output meters will only indicate clipping which occurs within the digital domain. To accurately measure the signal that will result from digital to analog conversion, select "Detect true peaks."

#### METER TYPE

Ozone 7 Elements allows the I/O meters to display peaks according to several different audio monitoring types, including:

 RMS (Root Mean Square) is a software-based implementation of an analog-style level meter. Using different integration times, you can model popular VU or PPM meters. The RMS meter displays the average level calculated over a short window of time. The RMS meter readout will typically be lower than an equivalent PPM meter (Digital/Analog), since it is averaging peaks into the overall loudness.Peak: The Peak meter is a fast meter that measures instantaneous maximum sample value or peak analog waveform values, depending on the "detect inter-sample peaks" checkbox. If you are tracking the peaks for possible clipping, the Peak meter is appropriate.



- RMS + Peak: This is a combined RMS and Peak meter. This meter displays a lower bright bar representing the average level (RMS) and a higher dimmer bar representing peak level. There is also a moving line above the bar representing the most recent peak level or peak hold.
- K-System: Ozone 7 Elements supports Bob Katz's K-System metering with simultaneous peak and RMS displays.
- Momentary: This measurement is a calculation of loudness over the course of 400 ms.
- Short Term: This measurement is a calculation of loudness over the course of 3 seconds.
- Integrated: This measurement is a calculation of loudness over the course of an indefinite period of time.

#### SCALE

This sets the range and scale of the I/O Meters.

- dB (Linear): Decibel scale presented linearly from -60 dB to 0
- dB (Non-linear): Full decibel scale (dBfs) presented non-linearly

#### SOURCE

Selects the audio source feeding the meters. By default, the I/O meters will display the Stereo mix of your audio.

When the I/O meters are in Mid/Side mode, they will no longer display your signal in terms of Stereo Left and Right. Instead, on the left side of the meter will be the level of the entire mid signal, and on the right will be the overall level of the side signal. The Left and Right Gain sliders will still control the Left and right Gain of your signal however. The Mid/Side meters will still adhere to the same Type and Scale settings defined in the I/O options menu.

#### PEAK HOLD TIME

Selects how many consecutive samples of audio must exceed digital full scale, before registering as a peak. Choices include, in milliseconds:

- 5
- 250



- 500
- 1,000
- 5,000
- Infinite

#### INTEGRATION TIME

This setting lets you specify the integration time for the RMS calculation. In most RMS meters, the integration time is set to around 300 ms.

- 10 mms
- 50 ms
- 300 ms (vu)
- 1,475 ms
- 2,650 ms
- 3,825 ms
- 5,000 ms

#### READOUT

Selects whether the peak hold section of the meters displays the current peak status (current) or instead displays the highest peak that has occurred in the audio (max peak).

#### SOCIAL

This tab contains a variety of links that you may use to engage with the iZotope community, or get further training on audio and mastering topics.

#### Help documentation

The **?** icon launches the Ozone 7 Elements Help Documentation. Since you're reading this, you may well have passed the test and figured this out already.





## AUTHORIZATION

#### Authorization is required to disable both Trial and Demo modes.

#### TRIAL MODE

For 10 days after Ozone 7 Elements is first opened or instantiated, it will run in Trial mode. Trial mode offers the full functionality of Ozone 7 Elements.

#### DEMO MODE

After 10 days, Ozone 7 Elements will go into Demo mode. In Demo mode, Ozone 7 Elements inserts silence at intervals.

#### SERIAL NUMBER

Each purchased copy of Ozone 7 Elements contains a unique serial number to authorize your product.

If Ozone 7 Elements has been downloaded directly from iZotope or another reseller, the serial number will be emailed to you along with the link to download the product. The serial number should resemble:

#### SN-OZ7ELEMENTS-XXXX-XXXX-XXXX-XXXX

Instructions on how to use this serial number to authorize are outlined in this chapter.

## Authorizing your copy of Ozone 7 Elements online

#### LAUNCHING THE AUTHORIZATION WIZARD

The first time you open the Ozone 7 Elements plug-in, the Authorization Wizard will appear.

You can choose to either click "Authorize" to fully authorize Ozone 7 Elements, or click "Continue to use it in Trial mode" for evaluation purposes. If you've purchased Ozone 7 Elements, please use your supplied Ozone 7 Elements serial number to fully authorize your product.





After opening Ozone 7 Elements and launching the Authorization Wizard, perform the following steps to complete the authorization process online:

Click "Authorize."

XiZotop	e AUTHORIZATION
Please enter the fo	bllowing information:
Serial Number:	2
Name:	YOUR NAME
E-mail:	YOUR EMAIL
Country:	United Kingdom
iLok ID:	<ul> <li>Subscribe to the iZotope newsletter</li> <li>Use iLok authorization</li> <li>?</li> <li>Authorize Cancel &gt; Advanced</li> </ul>
Not connected to the Internet? You can use offline authorization.	
Have a question about iZo http://www.izotope.com/	otope authorization? Please visit: authfaq/

Enter the serial number, using all capital letters, as it is shown in the purchase confirmation email. For example: SN-OZ7ELEMENTS-XXXX-XXXX-XXXX-XXXX

You must also enter your name and a valid email address.



Note: Clicking the Advanced button reveals a set of options that allow you to store your Ozone 7 Elements authorization on a portable hard drive or flash drive.

More detail can be found at www.izotope.com/en/support/authorization/.

Please make note of the email address you use to authorize your license, as your license and iZotope account will be linked directly to this email address.

When you have confirmed that your serial number and email information is accurate, click once more on "Authorize."

Click "Submit" to send your authorization information to iZotope.

Once the authorization is accepted, click "Finish" to complete the authorization.

## Authorizing your copy of Ozone 7 Elements offline

Some customers choose to keep their audio workstations offline; for these instances, a simple offline authorization option has been included.

After opening Ozone 7 Elements and launching the Authorization Wizard, the following steps will complete the authorization process offline:

When first prompted to authorize Ozone 7 Elements, click "Authorize."

Click "Offline Authorization" at the bottom of the authorization window.

You will be given a Challenge Code that is specific to your computer only.

Write down or make a copy of the exact Challenge Code. It will look like this: IZ-Ozone 7 Elements-XXXX-XXXX-XXXX-XXXX

Next, using a system with Internet access, log in to your customer account at the iZotope website: <a href="https://www.izotope.com/en/account/log-in/">www.izotope.com/en/account/log-in/</a>.

Click "Activate Software with a Serial Number," enter your full serial number, then click "Submit."



Select the "Challenge/Response" option and click "Submit."

Enter your full Challenge Code copied in Step 3.

After submitting your Challenge Code, you will receive a unique authorization file named "iZotope\_Ozone 7 Elements\_xxxxx.izotopelicense." Copy this file to your offline computer.

Once the authorization file is copied to your offline computer using a network, hard drive, or USB thumb drive, click the "Choose File..." button in your authorization wizard.

Navigate and select the authorization file and click "Next" to authorize your machine.

You should now receive a message that your authorization has been successful. Click "Finish" to begin using Ozone 7 Elements.

### iLok Support

Ozone 7 Elements supports the iLok copy protection system.

The plug-in will be able to detect iLok keys and assets if you already use iLok and PACE software on your system.

If you don't already have PACE or iLok, we will not install any PACE or iLok software to your system, and iLok authorizations will be unavailable.

#### AUTHORIZING OZONE 7 ELEMENTS WITH ILOK

When first prompted to authorize Ozone 7 Elements, click on "Authorize."

Next, enter the serial number in all capital letters as it is shown on the included card or purchase confirmation email.

This would look something like: SN-OZ7ELEMENTS--XXXX-XXXX-XXXX-XXXX

You must also enter your name and a valid email address. Make note of the email address you use to authorize your license. Your license and iZotope account will be linked directly to this email address.



Select "Use iLok Authorization" and enter your iLok ID.

When you have confirmed that all your information is accurate, click once more on "Authorize."

Lastly, click "Submit" in order to send your authorization message to the iZotope servers.

You will now be instructed to log in to your iLok account and transfer your Ozone 7 Elements license to your iLok.

When you have completed this step and have your iLok connected to the computer on which you want to use Ozone 7 Elements, click "Next."

You should now receive a message that your authorization has been successful. Click "Finish" to begin using Ozone 7 Elements.

### Removing your current authorization

If you need to move your license to an additional machine(s), use the Remove Authorization button in the Ozone 7 Elements Options menu to remove your current authorization.

After removing your authorization, Ozone 7 Elements' authorization screen will pop up when you restart the program. Now you can re-authorize using a new serial number. You may also remove your authorization at any time in order to run in Trial or Demo mode.

## How to contact iZotope Customer Care

For additional help with authorizing Ozone 7 Elements:

Check out the Customer Care pages on our web site at www.izotope.com/support.

Contact our Customer Care department at https://support.izotope.com/.

More information on iZotope's Customer Care department and policies can be found in the **iZotope Customer Care chapter**.



## IZOTOPE CUSTOMER CARE

## How to purchase the full version of Ozone 7 Elements

If you are using the Demo version of Ozone 7 Elements and would like the full version, you can purchase Ozone 7 Elements directly from the iZotope online store at <u>www.izotope.com/store</u>.

Once your purchase is complete, you will be sent an email confirmation and a full-version serial number that can be used to fully authorize your current installation of Ozone 7 Elements.

## iZotope Customer Care policy

iZotope is happy to provide professional technical customer support to all registered users. We also offer valuable pre-sales support to customers who may be interested in purchasing an iZotope product.

For details, please see our **Product Support Policy**.

Before contacting iZotope Customer Care team, you can search our **Product Knowledgebase** to see if the solution to your problem has already been published.

# How to contact iZotope Customer Care for technical support

For additional help with Ozone 7 Elements:

- Check out the Customer Care pages on our web site at www.izotope.com/support.
- Contact our Customer Care department at <a href="https://support.izotope.com/">https://support.izotope.com/</a>.

iZotope's highly trained Customer Care team is committed to responding to all requests within one business day and frequently responds faster. Please try to explain your problem with as much detail and clarity as possible. This will ensure our ability to solve your problem accurately, the first time around. Please include all system specs and the build/version of Ozone 7 Elements that you are using. You can find this information in the Options menu of Ozone 7 Elements.

Once your Customer Care request is submitted, you should automatically receive a confirmation email from iZotope Customer Care. If you do not receive this email within a few minutes please check your spam folder and make sure our responses are not getting blocked. To prevent this from happening, please add support@izotope.com to your list of allowed email addresses.

### International distribution

Customer Care is also available from our international distributors worldwide, for any customers who purchased their iZotope products through a certified iZotope distributor.

Check with your local distributor for their availability. If you would like help locating your local distributor, please contact iZotope Customer Care.



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