3DX Documentation Getting Started

Introduction

3DX delivers unparalleled immersion through the use of 3D audio technology, including

- 360° ambisonic system that captures omnidirectional space
- 3D panner that allows you to freely place sound in 3D space
- binaural that reproduces the sound that reaches the eardrum using headphones

3DX consolidates all the functions required for 3D sound production into one convenient package.

Its unique sound quality and sophisticated workflows inspire creators.

3DX goes beyond high-quality sound field reproduction to establish cutting-edge sound production.



Features

- Transparent, high-resolution sound without unwanted artifacts.
- Newly designed 3D panner for dynamic sound movement.
- Binaural processor optimized for music production that does not upset your mixing balance.
- Carefully designed Ambisonic processor for precise space reproduction.

Suported formats

OS	VST3	AU	AAX
macOS			
Windows		-	×

Quick Start

Download

Download the latest version of 3DX from novo-notes.com.

Installation

More detailed instructions are available in the Installation Guide.

VST3

macOS Windows

- 1. Double-click the downloaded .zip file
- 2. Move 3DX.vst3 in the unzipped folder into the /Library/Audio/Plug-Ins/VST3 folder

AU

macOS

- 1. Double-click the downloaded .zip file
- 2. Move 3DX.component in the unzipped folder into the /Library/Audio/Plug-Ins/Components folder

AAX

macOS

^{1.} Double-click the downloaded .zip file

2. Move 3DX.aaxplugin in the unzipped folder into the /Library/Application Support/Avid/Audio/Plug-Ins folder

License Activation

Once you have purchased, you will receive a license by email. Press the Activate button.

If you have not yet purchased, press Start Trial.

See the License Activation page for details.



Get started with 3DX Mix!

When you have finished the activation, you are ready to enjoy the world of 3DX sound.

Installation

macOS

The following is a guide on how to install vst3. You can install AU and AAX in the same way, but the installation folder is different.

Install the VST3 plug-in

1. Unzip the downloaded zip file



Double-click to unzip it.

After unzipping, double-click the folder to check the files inside.

		o Downloads	
< >			Q Search
Favorites Devices ○ Remote Disc ▲ Google ▲ Tags ● Purple ● Blue ● Yellow ● Orange ● Red ● グレイ ● レッド ● All Tags	ZIP 3DX-macOS-1.0.0.zip 84.8 MB	3DX-macOS-1.0.0 4 items	
		2 items, 13.38 GB available	

There is a 3DX.vst3 file in the folder.

		🚞 3DX-	-macOS-1.0.0		
$\langle \rangle$					Q Search
Favorites			VSF		
Devices					
Remote Disc					
🙆 Google 🔺	3DX.aaxplugin	3DX.component	3DX.vst3	Documents	
Tags					
Purple					
Blue					
Yellow					
🔵 Orange					
Red					
● グレイ					
● レッド					
All Tags					
		4 items, 13	3.37 GB available		

Move this 3DX.vst3 file to the installation folder (see steps 2 - 4).

2. Display another Finder Window

Select New Finder Window from the menu bar at the top of the screen.

	Ĵ.	Finder	File	Edit	View	Go	Window	Help)		
•	•	• }	Ne ^v Nev	w Find w Fold	er Wind er	ow	-	<mark>೫N</mark> 公第N	×	O	Installation
÷		→ C	Ne ^r Ner	w Fold w Sma	er with \$ rt Folde	Select r	ion	^%N	rted/i	instal	lation
D		Novo	Ne Op Op	w Tab en en Wit	h			ЖТ ЖО ▲			
	Get	ting sta	Prii Clo	nt Ise Wir	ndow			жр жw			
	Ir	stallati	Ge Rei	t Info name				жI			Ins

3. Move to the installation destination folder

Select Go to folder from the menu bar at the top of the screen.

🗯 Finder File Edit View	Go Window Help			
$\bullet \bullet $	Back Forward Select Startup Disk	೫[೫] ዕ೫↑	ation No × ation	G vs
NovoNotes 3D	 Recents Documents Desktop Downloads 			
Getting started	Home	心駕H		
Installation	🗎 Library 💻 Computer	∂ ዤL ዕዤC	nsta	all
License Activation	AirDrop AirDrop	ት ት ድ ድ ዘ		
Controls and Interfaces	 iCloud Drive Applications 	ት መ ት ጋ ኤ (ት	付応フ	オ -
I/O Channel Configurations	Ӿ Utilities	<mark></mark> ሪ <mark>೫</mark> ሀ		
Known Issues	Recent Folders	►	os	VST
End User License Agreement	Go to Folder Connect to Server	☆業G 業K	macOS	
			Windows	

A screen like the one below will appear. Copy the installation destination below and enter it to the textbox.

/Library/Audio/Plug-Ins/VST3

		🛅 Desk	top		
$\langle \rangle$					Q Search
Favorites	Name				Date Modified
Dovices		Go to the folder:			Today 17:41
Remote Disc		/Library/Audio/Plug-Ins/VST3		~	
Google 🔺			Cancel	Go	
Tags	- L				
Purple					
Blue					
Yellow					

4. Moving the 3DX.vst3 file

Drag-and-drop the 3DX.vst3 file to the newly displayed destination folder.

Installation			Inct	allatio	n				対応フ	ォーマット	
		🚞 3DX-	macOS-1.0.0			•••	_		VST3		
		·						₩× * ×			Q Search
ontro Favorites			VSE			Favorites		VSF	VSE	L.	
Devices	NW	NM				Devices					
Remote Disc	3DX aavolugio	3DX component	3DX vet3	Documents		Remote Disc		LABS vst3	Lea Bertucci -	Neutrino.vst3	Ozone
10WII 🙆 Google =	5DA.auxplugin	obx.component	007.1310	Documenta		Google =			Acoustiows.vst3		Imager.vst3
nd Us Tags						Tags	VSF	VSF	VSF		VSE
Purple						Blue				50	
 Yellow 						 Yellow 	Pianoteg 6	Pianoteg 6 vst3	Quanta vst3	Relay vst3	RoomEQ vst3
Orange						Orange	STAGE.vst3	r lanotoq onoto	quantarioto	nondynoto	RoomEditoro
Red						Red	VSF	582	-82		-32
● グレイ						● グレイ		6	42	5 C	C.
● レッド						● レッド	RoughRider3 vst3	RX 7 Breath	RX 7	RX 7 De-	RX 7 De-clin vst3
All Tags						All Tags		Control.vst3	Connect.vst3	click.vst3	
		ditama 1	24 CB available			 		51 items	13 34 GB available		
		4 items, 1	5.54 OB available				_	01110110,		_	
			macOS	windows							

If the files move as shown below, the installation is complete.

stallation	approx and a special s	allation				対応フ VST3	オーマット	
icer <>					₩ • • •	A O		Q Search
Favorites	and the second		Favorites	VSE	VSF	VSF		1-k
Cha Devices			Devices					
wn 🔊 Google 🔺	3DX.aaxplugin 3DX.component	Documents	Google ≜	3DX.vst3	LABS.vst3	Lea Bertucci - Acoustiows.vst3	Neutrino.vst3	Ozone Imager.vst3
Us ^{Tags} Purple Blue			Tags Purple Blue	VSr	vSr	VSF	(in	vsr
 Yellow Orange 			YellowOrange	Pianoteq 6 STAGE.vst3	Pianoteq 6.vst3	Quanta.vst3	Relay.vst3	RoomEQ.vst3
 Red グレイ 			● Red ● グレイ	vsr	Cr	C'r	Cr	(in
● レッド ○ All Tags			● レッド ○ All Tags	RoughRider3.vst3	RX 7 Breath Control.vst3	RX 7 Connect.vst3	RX 7 De- click.vst3	RX 7 De-clip.vst3
	3 items, 13.34 GB availab	e ———	_		1 of 52 select	ed, 13.34 GB available		
	macOS	Windows						

Install the AU plug-in

Follow the same procedure to move the 3DX.component file to the following folder.

Install the AAX plug-in

Follow the same procedure to move the 3DX.aaxplugin file to the following folder.

/Library/Application Support/Avid/Audio/Plug-Ins						
CAUTION If the plug-in fails to load in ProTools macOS 10.15 Catalina or later may require execution permission due to securiry and privacy in System Preferences. Click Open as is in the screen below.						
 く) … セキュリティとプライバシー 一般 FileVault ファイアウォール プライバシー このユーザのログインパスワードが設定されています パスワードを変更… スリーブとスクリーンセーバの解除にパスワードを要求 開始後: すぐに ? 画面がロックされているときにメッセージを表示 ロックのメッセージを設定… 						
 ダウンロードしたアプリケーションの実行許可: App Store App Storeと確認済みの開発元からのアプリケーションを許可 "3DX.aaxplugin"は開発元を確認できないため、使用がブロックされました。 このまま開く 						
hi 変更するにはカギをクリックします。 詳細… ? 詳細… ?						

For Windows

Right-click the downloaded .zip file and select Extract All.

Copy 3DX.vst3 to the installation folder below.

C:¥Program Files¥Common Files¥VST3

License Activation

Purchasers will receive a license key by email.

Enter the license key on the Activation screen that appears when you start 3DX, and press the activate button.

(i) NOTE

If you have not yet purchased the product, you can still try the trial version by pressing the Start Trial button. The trial version has all the features of the purchased product, but noise output will end 5 minutes after startup. You will have to reload the plug-in to use it again for a further 5 minutes.



If activation fails and the following error is displayed, check the following and try again.

- Has the full license key been entered correctly?
- Have extra characters such as white space been included in the license key?

If the problem persists, please contact us at support@novo-notes.com



Controls And Interfaces

Overview



Mode

Normal/Advanced mode switch



Switch between normal mode and advanced mode.

Light/Dark mode switch



Select UI color theme from either light or dark mode.

LevelMeter

Input



Input level meter. You can change the input channel settigs.

Output



Output level meter. You can change the output channel settings. Control the output level with the slider.

LeftPan



You can adjust the front / back and left / right positions of the sound source. When using Ambisonic for input, the entire sound field can be rotated.

RightPan



You can adjust the vertical and horizontal positions of the sound source. When using Ambisonic for input, the entier sound filed can be rotated.

Position

Control the position of the sound source. There are two types of controls, number boxes and knobs.

Number box



If you need linear control, use the x, y, z number boxes.

Knob



If you need circular control, use the azimuth, elevation, radius knobs.

Rotation



You can control the rotation of the sound source. When using Ambisonic for input, the entire sound field can be rotated.

Scale



You can control the relative position of each channel source from the handle.

(i) NOTE

You can operate each parameter at the same time by using the link button between the knobs.

Transcode



Even if you are using a channel setting other than Ambisonic, you may need to perform Ambisonic encoding / decoding internally. This process is called transcoding, and it is a slider for setting the Ambisonic order used at that time.

The lower the Ambisonic order, the smoother and more connected the sound field. The higher the order, the better the localization expression.

Density



You can adjust the density feeling of space at the time of Ambisonic use.

Distance

Distance Attenuation
loudness
S curve +
0 1 2 3 4 5 5.2
L EQ
S curve 🗸

You can control the curve of distance attenuation. The volume of Gain decreases according to the distance from the center. The EQ suppresses high frequencies above 4kHz depending on the distance from the center.

(i) NOTE

By using the link button, it is possible to operate the Gain and EQ parameters at the same time.

Parameters

Parameters that can be automated:

Parameter Name
Density
Transcoding Ambisonic Order
Master Gain
Х
Υ
Z
Yaw
Pitch
Roll
Width
Height
Depth
Width Height Link

Parameter Name

Height Depth Link

Depth Width Link

Distance Attenuation Link

Examples

Ambisonic Microphones

Introduce ambisonic microphones into Mix

To use Ambisonic sound for your Mix, you need 3DX as well as a converter plug-in distributed by microphone manufactures. Convert from A-format to B-format and input to 3DX.







See the list of A-B Converters below for specific configuration examples.

(i) NOTE

Signal output from the tetrahedral microphone capsule is called A-format in Ambisonics. On the other hand, 3DX input is called B-format. Since the conversion process from Aformat to B-format includes microphone correction processing, the plug-ins of each manufacturer are recommended for accurate spatial reproduction.

A-B Converter List

Brand	Microphone	A-B Converter	Output setting of Converter	Input setting of the 3DX
SOUNDFIELD	SPS200	SURROUNDZONE2	B-format	1st Order Ambisonic (FuMa)
SENNHEISER	AMBEO VR Mic	AMBEO A-B Converter	AmbiX	1st Order Ambisonic

Brand	Microphone	A-B Converter	Output setting of Converter	Input setting of the 3DX
Rode	NT-SF1	SOUNDFIELD BY RODE PLUGIN	B-format (AmbiX)	1st Order Ambisonic
ZOOM	H3-VR	* No plugin available	_	_

* If you use the H3-VR, you can substitute by the AMBISONICS CORRECTION FILTER of AMBEO A-B Converter to Off.

I/O Channel Configs

Details about channel settings are as follows:

Name										
	1	2	3	4	5	6	7	8	9	10
Mono	С									
Stereo	L	R								
Binaural(HPL)	L	R								
LRS	L	R	В							
LCR	L	С	R							
Quad	L	R	Ls	Rs						
LRCS	L	R	С	В						

Name										
	1	2	3	4	5	6	7	8	9	10
Pentagonal	L	С	R	Ls	Rs					
5.0ch	L	R	С	Ls	Rs					
Hexagonal	Ls	Rs	SL	SR	Ls	Rs				
6.0ch(Music)	L	R	Ls	Rs	SL	SR				
6.0ch	L	R	С	Ls	Rs	В				
5.1ch	L	R	С	LFE	Ls	Rs				
7.0ch(SDDS)	L	R	С	Ls	Rs	LC	RC			
7.0ch	L	R	С	SL	SR	Ls	Rs			
6.1ch(Music)	L	R	LFE	Ls	Rs	SL	SR			
6.1ch	L	R	С	LFE	Ls	Rs	В			
8ch Cube	BFL	BFR	BRL	BRR	TFL	TFR	TRL	TRR		
Octagonal	L	R	С	Ls	Rs	В	SL	SR		
7.1ch(SDDS)	L	R	С	LFE	Ls	Rs	LC	RC		
7.1ch	L	R	С	LFE	SL	SR	Ls	Rs		
7.0.2ch	L	R	С	SL	SR	Ls	Rs	TSL	TSR	
5.0.4ch	L	R	С	Ls	Rs	TFL	TFR	TBL	TBR	
Auro 5.1.4ch	L	R	С	LFE	Ls	Rs	TFL	TFR	TBL	TBR

Name										
	1	2	3	4	5	6	7	8	9	10
7.1.2ch	L	R	С	LFE	SL	SR	Ls	Rs	TSL	TSR
5.0.5ch	L	R	С	Ls	Rs	TFL	TFR	TBL	TBR	Тор
5.1.4ch	L	R	С	LFE	Ls	Rs	TFL	TFR	TBL	TBR
Auro 5.1.5ch	L	R	С	LFE	Ls	Rs	TFL	TFR	TBL	TBR
7.0.4ch	L	R	С	SL	SR	Ls	Rs	TFL	TFR	TBL
5.1.5ch	L	R	С	LFE	Ls	Rs	TFL	TFR	TBL	TBR
Auro 7.1.4ch	L	R	С	LFE	Ls	Rs	Ls	Rs	TFL	TFR
Auro 5.1.6ch	L	R	С	LFE	Ls	Rs	TFL	TFR	TBL	TBR
7.0.5ch	L	R	С	SL	SR	Ls	Rs	TFL	TFR	TBL
7.1.4ch	L	R	С	LFE	SL	SR	Ls	Rs	TFL	TFR
Auro 7.1.5ch	L	R	С	LFE	Ls	Rs	Ls	Rs	TFL	TFR
7.1.5ch	L	R	С	LFE	SL	SR	Ls	Rs	TFL	TFR
Auro 7.1.6ch	L	R	С	LFE	Ls	Rs	Ls	Rs	TFL	TFR
22.2ch	L	R	С	LFE	Ls	Rs	LC	RC	В	LFE

Known Issues

Plurality of plug-in window is unavailable

OS	DAW	3DX		
macOS 10.13.6	Nuendo 10.3	3DX 1.0.0		

If you use 3DX as VST3 in combination with the above version, you cannot see multiple plug-in windows of the Right Pan Area.

The DAW freezes when you operate a plug-in that does not displaying the Right Pan Area.



End User License agreement

These Terms of Use (hereinafter referred to as "Terms") set forth the terms and conditions of the NovoNotes 3DX (hereinafter referred to as "SOFTWARE"), and the rights and obligations between you, the end user (individual or corporate) (hereinafter referred to as "you") and

MAGNETICA studio Co., Ltd. (hereinafter referred to as "MAGNETICA studio"). Before downloading SOFTWARE, you must read the entire text of Terms and then agree to Terms. By downloading SOFTWARE, you are deemed to have agreed to Terms.

1.(SCOPE)

- 1. Terms shall apply to all relationships between MAGNETICA studio and you related to SOFTWARE.
- 2. If there is any conflict between Terms and all guarantees, conditions, promises, explanations, etc. regarding the state, quality, performance, commerciality, suitability for a specific purpose, etc. of SOFTWARE outside Terms, Terms shall prevail.

2.(INTELLECTUAL PROPERTY RIGHTS)

Any and all intellectual property rights (copyrights, patent rights, utility model rights, design rights, trademark rights and other intellectual property rights (including the right to acquire such rights or apply for registration, etc.) related to SOFTWARE(hereinafter referred to collectively as "IP") belongs to MAGNETICA studio or its licensor.

3.(GRANT OF LICENCE)

- MAGNETICA studio grans you the non-exclusive right to use the programs and the data file constituting SOFTWARE and the upgrade program(s) as well as the data file(s) which may be distributed to you from time to time only on associated MAGENETICA studio product(s) and/or a single computer under your control and used by only one person at a time.
- 2. All references to SOFTWARE shall mean the object code of the program(s) that comprising SOFTWARE.
- 3. You owns the manuals and other documentary materials provided to you together with SOFTWARE, but the ownership of the rights to and of the copyright of SOFTWARE (wheter supplied via a storage device, diskette, download from the Internet or otherwise) and the copyright of the contents of any manual or other written document belong to MAGNERICA studio.
- 4. MAGNETICA studio reserves the right to make modifications to SOFTWARE without prior notification to you.

4.(TRIAL VERISION)

- 1. The trial version of SOFTWARE (hereinafter referred to as "Trial Version") is provided for the following purposes before you purchases the paid version of SOFTWARE(hereinafter referred to as "Paid Version").
 - i. To try out the functions of SOFTWARE
 - ii. To check if SOFTWARE operates normally in your environment
- 2. Trial Version has the same functions as Paid Version, but noise will be generated 5 minutes after startup.
- 3. Before purchasing Paid Version, You must check whether SOFTWARE operates normally in your environment with Trial Version.
- 4. If you purchases Paid Version, you are deemed to have completed the operation check of the previous paragraph normally.
- 5. Trial Version is free of charge.

5.(LICENCE FEE)

- 1. For Paid Version of SOFTWARE, you shall pay MAGNETICA studio a license fee separately determined by MAGNETICA studio.
- 2. MAGNETICA studio shall not refund the license fee paid to MAGNETICA studio by you regardless of the reason. You shall agree to this in advance.

6.(PROHIBITED ACTIONS)

YOU MUST NOT CONDUCT ANY ACT THAT FALL UNDER, OR IS DETERMINED BY MAGNETICA STUDIO TO FALL UNDER ANY OF THE FOLLOWING;

- 1. Decompile, disassemble, reverse engineer, or otherwise reduce SOFTWARE to a humanperceivable form.
- 2. Copying, modifying, modifying, distributing all or part of SOFTWARE or creating derivative works based on the contents of SOFTWARE (however, creating derivative works based on data files what you do is not included in this limit.)
- 3. Sublicensing, selling, distributing, renting, leasing or transferring SOFTWARE to a third party

- 4. Copying SOFTWARE (except for the purpose of backing up SOFTWARE)
- 5. Transferring SOFTWARE to another computer via the network
- 6. Acts that directly or indirectly induce or facilitate the acts of the preceding items
- 7. Try the actions of each of the preceding items
- 8. Other acts that MAGNETICA studio deems inappropriate

7. (EFFECTIVE AND TERMINATION)

- 1. Terms takes effect when you downloads SOFTWARE.
- 2. The license granted in Terms will terminate automatically without notice from MAGNETICA studio, in the event that:
 - i. You violates any of the terms of Terms
 - ii. You infringes the copyright of MAGNETICA studio or a third party regarding SOFTWARE
- 3. In such event, you must immediately dispose of, destroy and delete all copies of SOFTWARE.

8.(SUPPORT)

- Support servies such as technical support for SOFTWARE is limited to the following:
 i. When Paid Version cannot be activated, Investigation of the cause and resolution
- 2. MAGNETICA studio reserves the right to amend any such policies from time to time in its absolute discretion.

9.(WAIVER OF WARRANTIES)

MAGNETICA STUDIO DOES NOT WARRANT THE FOLLOWING, WHETHER EXPRESS OR IMPLIED.

- 1. SOFTWARE is suitable for your specific purpose.
- 2. SOFTWARE has the functions, commercial value, accuracy or usefulness you expect.
- 3. The use of SOFTWARE by you complies with the laws and regulations applicable to you or the internal regulations of industry groups.

4. There are no errors, bugs, or other problems with SOFTWARE.

10.(DISCLAIMER)

- UNDER NO CIRCUMSTANCES SHALL MAGNETICA STUDIO BE LIABLE FOR DIRECT, CONSEQUENTIAL, INCIDENTAL OR INDIRECT DAMEGES (DATA CORRUPTION, LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION, LOSS OF BUSINESS INFORMATION, ETC.) CAUSED BY THE USE OR INABILITY TO USE SOFTWARE
- 2. The preceding paragraph shall apply even if MAGNETICA studio or its related parties have been informed in advance that such damage may occur or there is a possibility of a claim for compensation from a third party.
- 3. MAGNETICA studio shall not be held responsible for any dispute arising out of or in connection with SOFTWARE between you and any other party. In the unlikely event that such a dispute arises, the parties not including MAGNETICA studio shall resolve it.

11.(AMENDMENT)

- 1. MAGNETICA studio reserve the right to amend or change Terms when MAGNETICA studio finds it necessary.
- 2. In the event of any amendment or change to Terms, MAGNETICA studio shall inform the effective time and content of the amended or changed Terms by posting on the Website or other appropriate way, or notify you of the same.
- 3. If you uses SOFTWARE after the amend or change of Terms takes effect, you are deemed to have agreed to the amended or changed agreement.

12.(SEVERABILITY)

Even if any provision of Terms or a part thereof is held to be invalid, illegal or unenforceable under the Consumer Contract Law of Japan or other laws or regulations, the remaining provisions hereof or remaining portion of the provision held invalid or unenforceable in part shall remain in full force and effect.

13.(GOVERNING LAW AND JURISDICTION)

- 1. Terms shall be governed by the law of Japan.
- 2. Any and all disputes arising out of or in connection with Terms or SOFTWARE shall be submitted to the exclusive jurisdiction of the Tokyo District Court of Japan in the first instance.

Revised on 12/16/2020