

# 2 Universes Artnet/sACN node



## Introduction #

Thank you for purchasing an Electroconcept product.

Please read this guide carefully before using the 2 Universes Artnet/sACN node.

Liability:

Electroconcept cannot be held liable for any damages of any kind, including loss of business, destruction of consumables (cassettes, discs, CDs, LED strips), or any other financial losses resulting from the use or inability to use your equipment. Furthermore, Electroconcept cannot be held liable for damages caused by misuse of this product.

Warranty:

Electroconcept products come with a 2-year manufacturer warranty (electronics). The equipment must be returned with prepaid shipping (customer is responsible for shipping costs). Any unpaid shipping will be refused. The equipment must be in its original packaging. The return shipping will then be covered by us.

The warranty excludes damage caused by user negligence, mishandling, or lack of maintenance (broken, burnt, heated, wet, or sand-damaged devices, etc.), as well as

devices that have already been installed and fail due to improper installation or usage.

For the Node Artnet 2 Universe, this product was tested before shipment. Incorrect wiring during installation voids the warranty.

Modifying your products is done at the installer's risk.

## Technical Specifications #

- Power supply: USB 5V
- Power consumption: 50mA~150mA depending on DMX load
- Dimensions: 100 mm x 51 mm x 45 mm
- RJ45 input
- 2 XLR Outputs (3-pin or 5-pin)

## Connection #

The 2 Universes Node is powered via a USB cable. Connect it to a USB port on your computer or a 5V USB power adapter of at least 500mA.

Connect your 2 Universes Node to your computer or network using an RJ45 cable.

Connect your DMX equipment using a suitable DMX data cable.

## Default Configuration #

By default, the 2 UNIVERSES Artnet / sACN NODE is configured in DHCP, with 2 Artnet inputs and 2 DMX outputs.

You can configure your NODE Artnet/sACN using dm<sub>x</sub>\_tools, available through a web page at the following address:

<https://www.boutique-electroconcept.com/informations/dmx-tools-hid.html>

Press the Connect button and select your device in the pop-up window.



Connectez votre périphérique Electroconcept

Connexion

Rafraichir

Appliquer

www.boutique-electroconcept.com tente de se connecter à un  
appareil HID

Node 2 Electro associé



Connexion

Annuler

You can find the IP address of the node in the Info tab. Enter the IPNow value in the address bar of your preferred browser if you want to access the web configuration page and inspect DMX packets passing through your node using the Status button.

## Configuration Menus #

The IP Setting tab allows you to configure the IP address of the Artnet/sACN node according to your network. Make sure it's compatible with the subnet you're connected to. Choose the protocol type you want to use, Artnet or sACN.

IP Setting	DMX 1 Setting	DMX 2 Setting	Device Setting	Infos
IP Setting				
Protocol	Select: DHCP ▼			
Device IP (static)	IP: 2 0 0 15			
Device IP MASK (static)	IP: 255 0 0 0			
Max Total Unvers	( 1 to 2): 2			
DMX Protocol	Select: Art-Net ▼			

Appliquer

- DHCP or STATIC: Choice of IP address assignment mode (manual or automatic)
- Device IP (static): Choose the static IP address of the node
- Device IP MASK (static): Choose the static subnet mask for the node
- Max Total Universe (1 OR 2): Number of universes to use
- DMX Protocol: Choose the protocol to use, Artnet or sACN

According to the Arnet standard, it's recommended to use networks of the type 2.x.x.x or 10.x.x.x with a subnet mask of 255.0.0.0. In this case, the node's broadcast address will be 2.255.255.255 or 10.255.255.255.

If you choose to connect your node to your home network, such as 192.168.0.x with a subnet mask of 255.255.255.0, then the node's broadcast address will be 192.168.0.255.

The DMX 1 Setting and DMX 2 Setting tabs allow you to configure the behavior of the XLR inputs/outputs. If you want to use the XLR inputs of the node, you will need to use a suitable XLR gender changer.

IP Setting	DMX 1 Setting	DMX 2 Setting	Device Setting	Infos
DMX 1 Setting				
DMX 1		Select: <span>DMX OUT ▼</span>		
Univers OUT (attention universe 1 starts at 0 sACN too)		( 0 to 255): <span>0</span>		
Univers IN (attention universe 1 starts at 0 sACN too)		( 0 to 255): <span>2</span>		
DMX IN -> sACN out Priority		( 0 to 200): <span>100</span>		
DMX IN -> IP Cast Out (239.255.0.1 for sACN)		IP: <span>2</span> <span>255</span> <span>255</span> <span>255</span>		
<div>Appliquer</div>				

- DMX: Choose the direction of the XLR, Output or Input
- Universe OUT: Identity of the universe to listen to on the network and send to the XLR output
- Universe IN: Identity of the IN universe to send to the network at the chosen Artnet or sACN address below
- DMX IN -> sACN out Priority: Priority level chosen for the outgoing stream (for sACN only)
- DMX IN -> IP Cast Out: Art-Net or sACN address to send the stream coming from the XLR

Attention: According to Artnet convention, the first universe starts at 0. We have chosen to follow this Artnet standard, meaning that for all universe settings, the first universe is called 0 (and this applies even to sACN settings).

In Artnet, you can choose unicast or broadcast mode.

For broadcast, you will send to the broadcast address of the subnet, either 2.255.255.255, 10.255.255.255, or 192.168.0.255.

For unicast, choose the IP address of your equipment to directly send data to it.

In sACN, you can also select multicast or unicast.

For multicast, the device will send to the multicast address corresponding to the chosen universe minus 1 due to our choice.

In reception, for example, if you multicast on 239.255.0.1 the 1st sACN universe, you will need to set the OUT universe to 0.

In transmission, if you want to transmit the 4th universe on the broadcast address 239.255.0.4, you will need to set the IN universe to 3.

The **Device Setting** tab allows you to configure the name of your interface on the network and the DMX refresh rate.

Nom : Node 2 Electroconcept

IP Setting	DMX 1 Setting	DMX 2 Setting	Device Setting	Infos
Device Setting				
Long Device Name (63 max)		Node 2 Electroconcept		
Short Device Name (17 max)		Node 2		
DMX OUT		Select: Synchro ▼		
Fps Fixed DMX OUT		( 16 to 44): 44		
<div>Appliquer</div>				

- Long Device Name (63 max): long name of your Artnet/sACN node
- Short Device Name (17 max): short name of your Artnet/sACN node
- DMX OUT: frequency synchronized to the received stream or fixed
- Fps Fixed DMX OUT: DMX refresh rate from 16 to 44 fps

The **Infos** tab contains various information about your Artnet/sACN node and allows you to configure the login and password for the web interface and to reset the Artnet/sACN node to its default settings.



IP Setting	DMX 1 Setting	DMX 2 Setting	Device Setting	Infos
				Infos
Version Firmware				Jul 25 2024
IP Now				2.0.0.100
Serial number				2B289DA71454DC23
Login Page				Select: NO ▼
Login				admin
Pass				admin
Reset Node (valide with 'Apply')				Select: No ▼
<input type="button" value="Appliquer"/>				

- Firmware Version
- IP Now: current IP of the node
- Serial number: internal serial number of the node
- Login Page: NO/YES, choose whether to have a login page for accessing the node's web configuration interface at its IP address
- Login: username for the login page
- Pass: password for the login page
- Reset Node: No/Yes, allows resetting your Artnet/sACN node to its default settings

## Embedded Webserver: Additional Tools #

On the web configuration page, which can be accessed using a simple browser by entering the IP address of your Artnet/sACN node, in addition to the usual configuration menus, you will find additional tools to manage your Artnet/sACN node:

Save Parameters and Load Parameters for quickly configuring your Artnet/sACN node using a JSON file

Status Page to visually check the DMX values of the Universes passing through your Artnet/sACN node.



IP Setting	
Protocol	Select: DHCP ▼
Device IP (static)	IP: 2 0 0 15
Device IP MASK (static)	IP: 255 0 0 0
Max Total Univers	( 1 to 2): 2
DMX Protocol	Select: sACN ▼

Save Parameters

Load Parameters

Apply

- Save Parameters: Saves the current configuration of your Artnet/sACN node to your computer for sharing
- Load Parameters: Loads a configuration stored on your computer into the web configuration page, once loaded, press Apply
- Status Page: DMX values in transit in your Artnet/sACN node through XLR input/output

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Select DMX:

[Parameters page](#)

1 0	2 240	3 123	4 0	5 240	6 150	7 0	8 240	9 170	10 0	11 240	12 203	13 0	14 240	15 233	16 0	17 233	18 240	19 0	20 203	21 240	22 0	23 170	24 240	25 0	26 150	27 240	28 0	29 123	30 240	31 0	32 92
33 240	34 0	35 68	36 240	37 0	38 38	39 240	40 0	41 9	42 240	43 15	44 0	45 240	46 39	47 0	48 240	49 68	50 0	51 240	52 99	53 0	54 240	55 126	56 0	57 240	58 149	59 0	60 240	61 180	62 0	63 240	64 200
65 0	66 240	67 240	68 0	69 240	70 240	71 0	72 233	73 240	74 0	75 204	76 240	77 0	78 173	79 240	80 0	81 144	82 240	83 0	84 123	85 240	86 0	87 92	88 240	89 0	90 63	91 240	92 0	93 32	94 240	95 0	96 8
97 240	98 14	99 0	100 240	101 44	102 0	103 240	104 74	105 0	106 240	107 98	108 0	109 240	110 126	111 0	112 240	113 155	114 0	115 240	116 185	117 0	118 240	119 200	120 0	121 240	122 230	123 0	124 228	125 240	126 0	127 198	128 240
129 0	130 174	131 240	132 0	133 144	134 240	135 0	136 116	137 240	138 0	139 86	140 240	141 0	142 62	143 240	144 0	145 32	146 240	147 0	148 2	149 240	150 0	151 0	152 240	153 20	154 0	155 240	156 44	157 0	158 240	159 75	160 0
161 240	162 105	163 0	164 240	165 131	166 0	167 240	168 155	169 0	170 240	171 185	172 0	173 240	174 216	175 0	176 240	177 240	178 0	179 227	180 240	181 0	182 198	183 240	184 0	185 168	186 240	187 0	188 137	189 240	190 0	191 116	192 240
193 0	194 110	195 240	196 0	197 137	198 240	199 0	200 168	201 240	202 0	203 198	204 240	205 0	206 227	207 240	208 0	209 240	210 240	211 0	212 240	213 216	214 0	215 240	216 185	217 0	218 240	219 155	220 0	221 240	222 131	223 0	224 240
225 105	226 0	227 240	228 75	229 0	230 240	231 44	232 0	233 240	234 20	235 2	236 240	237 0	238 32	239 240	240 0	241 62	242 240	243 0	244 86	245 240	246 0	247 116	248 240	249 0	250 144	251 240	252 0	253 174	254 240	255 0	256 198
257 240	258 0	259 228	260 240	261 0	262 240	263 239	264 0	265 240	266 209	267 0	268 240	269 185	270 0	271 240	272 155	273 0	274 240	275 126	276 0	277 240	278 98	279 0	280 240	281 74	282 0	283 240	284 44	285 0	286 240	287 14	288 0
289 240	290 0	291 8	292 240	293 0	294 32	295 240	296 0	297 63	298 240	299 0	300 92	301 240	302 0	303 123	304 240	305 0	306 144	307 240	308 0	309 173	310 240	311 0	312 204	313 240	314 0	315 233	316 240	317 0	318 240	319 200	320 0
321 240	322 180	323 0	324 240	325 140	326 0	327 240	328 126	329 0	330 240	331 90	332 0	333 240	334 68	335 0	336 240	337 39	338 0	339 240	340 15	341 0	342 240	343 0	344 0	345 240	346 0	347 38	348 240	349 0	350 68	351 240	352 0
353 92	354 240	355 0	356 123	357 240	358 0	359 150	360 240	361 0	362 170	363 240	364 0	365 203	366 240	367 0	368 233	369 240	370 0	371 240	372 233	373 0	374 240	375 203	376 0	377 240	378 179	379 0	380 240	381 150	382 0	383 240	384 123
385 0	386 240	387 123	388 0	389 240	390 150	391 0	392 240	393 179	394 0	395 240	396 203	397 0	398 240	399 233	400 0	401 233	402 240	403 0	404 203	405 240	406 0	407 179	408 240	409 0	410 150	411 240	412 0	413 123	414 240	415 0	416 92
417 240	418 0	419 68	420 240	421 0	422 38	423 240	424 0	425 9	426 240	427 15	428 0	429 240	430 39	431 0	432 240	433 68	434 0	435 240	436 99	437 0	438 240	439 126	440 0	441 240	442 149	443 0	444 240	445 180	446 0	447 240	448 200
449 0	450 240	451 240	452 0	453 240	454 240	455 0	456 233	457 240	458 0	459 204	460 240	461 0	462 173	463 240	464 0	465 144	466 240	467 0	468 123	469 240	470 0	471 92	472 240	473 0	474 63	475 240	476 0	477 32	478 240	479 0	480 8
481 240	482 14	483 0	484 240	485 44	486 0	487 240	488 74	489 0	490 240	491 98	492 0	493 240	494 126	495 0	496 240	497 155	498 0	499 240	500 185	501 0	502 240	503 200	504 0	505 240	506 230	507 0	508 228	509 240	510 0	511 0	512 0

Using the drop down list, you can select the DMX input/output to inspect.