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3 **Application examples**

- 3 Remote: Remote control of DCX2496 with 2 PCs, e.g.
- 4 DCX2496 with "DCX.Server" software at the stage and
- "DCX.Mixer" software or "DCX.Client" software device,
- 4 at the monitor position in the hall.



Direct: Control the DCX2496 with a single PC, e.g. prepare the DCX2496 settings in the studio. "DCX.Mixer DCX.Client" and "DCX.Server" are installed at the same PC (macOS or MS-Windows PC).



1. Introduction

DCX.Server is offered as MS-Windows and macOS version. Tip: You get a free demo on our homepage, menu "download".

1.1 How does it work?

To control the Behringer DCX2496 remotely you need this software "DCX.Server" and the "DCX.Client" or "DCX.Mixer" software:

- The "DCX.Client" / "DCX.Mixer" provides the user interface, like a gain slider or the mute switches.
- The "DCX.Server" controls the DCX 2496 via a USB-RS232 interface.
 - The PC with DCX.Server must be connected to the local network via LAN cable.
 - "DCX.Mixer / DCX.Client" can be installed parallel to the "DCX.Server" at the same PC

Note "DCX.Client" or "DCX.Mixer" is able to control via RS485 cascaded DCX2496 device (max. 16).

Note: DCX2496LE are not supported (device without RS232 / RS485 interface)

DCX.Mixer software (MS-Windows / macOS / Android)



Important

- Incorrect settings of the DCX2496 can damage your audio devices or cause damage to your ears. Mute the outputs immediately if the volume is too high! •
- Use the software at your own risk.
- Do not connect or disconnect the USB-RS232 interface while the DCX.server is running!
- Mute the DCX2496 outputs during the transmission of the complete configuration or stop the audio playback. .
- · Protect unauthorized control with a password.
- Follow the instructions in the DCX.Client / DCX.Mixer software.
- Do not close the "DCX.Server" software and do not switch off the "DCX.Server" computer while a data transfer to the . DCX2496 is in progress!

- DCX.Client app for free (iOS, Android, macOS, MS- Windows)

DCX.Mixer

DCX.Server

A DESCRIPTION OF THE OWNER

You get the software and a free trial version from our homepage, look for "download".

2.1 Start

- Connect the DCX2496 with the DCX.Server PC via an USB RS232 interface (see specifications) .
- Power on the DCX2496 .
 - Take notice the correct DCX2496 settings from chapter 5
- . Start "DCX.Server" software
- Select the correct COM port (RS232) .
 - LED left from COM lights green, if the port is successful initiated
- Select the IP address of your local network .
- Start "DCX.Client" or "DCX.Mixer"
 - Wait 5 sec to 15 sec until the connection is confirmed with "DCX.Server online". In error cases input the DCX. Server IP manually in DCX.Mixer / Client setup
 - The LED left from "Server IP" lights green

When the DCX.Server is found, you are able to control via "DCX.Client" or "DCX.Mixer" software to your DCX2496. Read more in the manuals from "DCX.Mixer" or "DCX.Client".

2.2 DCX.Server free trial

Without a valid license the DCX.Server software runs as a trial version. In combination with the free DCX.Client version, your DCX2496 device and a USB-RS232 interface you can easily check the proper work of the system before you buy it. After the successful test, the trial can be upgraded to the full version via the ordering of the license in our web shop, without any re-installation.

Trial limits: Control the gain & mute of the inputs A, B and C.

2.3 Firewall / network communication

Important: Allow the network communication between the software DCX.Server and DCX.Client / DCX.Mixer via the firewall.

During the operation the firewall recognise the new network traffic and ask how to proceed. For a proper work allow the software communication.

3.1 Functions



Number	r Function	
1	LED Network connection	• Gre
	status	• Yell
		• Red
2	LED RS232 interface status	Gre ope
		• Yell
		• Red
3	LED DCX2496	• Gre
	communication status	• Yell
		• Red
4	DCX2496 Device Id:	• DC dev
5	Name of the DCX.Client	 Cor (na nan
6	Status messages	Notificat
7	Change COM port	Press th RS232 i of the bi
8	Password 1)	Passwo port. Se Tip Clear
		Tip Rese
9	Network address	IP addre Press "E to the v
10	Help	Click at required
11	Close	Quit the
12	Change the style 1)	Mouse of interface
13	Software version and installation key 1)	Click at and DC

1) macOS: Function not supported.

Note: During operation with the DCX2496 device the LED "Network" and "RS232" flashes.

Description

reen: Connected to the DCX.Client / DCX.Mixer

ellow: Not connected to the DCX.Client / DCX.Mixer

ed: Network issues reen: Displayed RS232 port (e.g. COM 4) successful bened

ellow: Searching DCX2496 devices

ed: Displayed COM port not found or in use via another <u>ftware</u>

reen: Successfully connected with the DCX2496 device

ellow: Connected, waiting for commands (after start)

ed: DCX currently not connected /DCX powered off

CX.Server is currently connected to the displayed DCX evice Id

onnected currently with the displayed DCX.Client name ame from the client software "Settings" and "User ame")

ations and error messages

he button, to select the RS232/COM port for the USB-? interface. The current port number is displayed above button

ord protection for the settings: Server IP, Port and COM et the password and re-start DCX.Server.

ar: Input password + 2 times "empty" input in following screen et: Input "Stute Engineering" ress and port (TCP/IP). Port number. Default 40000.

"Enter" to confirm. Note: IP and port must be identical values from the DCX.Client / DCX.Mixer software t the image displays the PDF Help (PDF Reader

e program

click at the interface, empty space, changes the user ce style. macOS version: Function not supported. the device image displays the software installation key X.Server software version.

Attention: Do not switch off the DCX2496 during an established connection to the DCX.Server and DCX.Client!



Important: The first DCX2496 must always be powered, when you control multiple DCX2496! You cannot control the 2nd, 3rd ... DCX2496 device without the 1st one. Also take notice of the correct RS485 termination!

4.1 Control a single DCX2496 device

- Connect the USB-RS232 interface with the RS232 connector from the DCX2496 (rear side)
- DCX2496 adjust "SETUP Miscellaneous" .
 - Set Port: PC (RS232)

SETUP → MIS	LLANEOUS	6/6
CONTRAST	/ VERSION	1.18 R
DEVICE ID: 1	PORT: PC	(85232)
DELAY UNIT:	m /	mm / °C
MUTE OUTS WI	IEN POWER ON 🖣	: no
	SETUP	

4.2 Control two DCX2496 devices

First DCX2496: Connect the USB-RS232 interface with the RS232 plug of the DCX2496 (rear side)

- Adjust "SETUP Miscellaneous"
 - Set Port: "PC => Link"
 - Set "Device Id" for example to "1"
- Enable/ Push the RS485 "Term" button from the DCX2496 rear side

Second DCX: Connect the 2nd DCX2496 with the first via the RS485 connector

- Adjust "SETUP Miscellaneous"
- Set Port: "LINK (RS485)" •
- Set the Device Id different to the Id from the first DCX2496
 - E.g. Device ID =2
- Enable/Push the RS485 "Term" button from the DCX2496 rear side .

ETUP 🔶 MIS	LLANEOUS 6/6
ONTRAST:	VERSION: 1.18A
EVICE ID:	1 PORT: PC 🕂 LINK
ELAY UNIT:	m / mm / *C
IUTE OUTS L	VHEN POWER ON ?: NO
	SETUP

SETUP -> MI	FLLANEOUS	6/6
CONTRAST:	VERSION:	
DEVICE ID:	1 PORT: 🔳	NK (R5485)
DELAY UNIT:	m	/ mm / *C
MUTE OUTS U	VHEN POWER OF	n Ś: 🛛 NO
	SETUP	

Control more than two DCX2496 devices 4.3

- First DCX: Connect the USB-RS232 interface with the RS232 DCX2496 (rear side)
- Adjust "SETUP Miscellaneous"
 - Set Port: "PC => Link"
- Enable/Push the RS485 bus "Term" button from the DCX2496 rea

Second DCX: Connect the 2nd DCX2496 with the first DCX via the RS485 connector

- Adjust "SETUP Miscellaneous"
 - Set Port: "LINK (RS485)"
- Set the Device Id different to the Id from the first DCX2496 E.g. Device ID =2
- Disable the RS485 "Term" button from the DCX2496 rear side

Last DCX: Connect the 3rd DCX2496 with the 2nd DCX via the RS485 connector

- Adjust "SETUP Miscellaneous"
 - Set Port: "LINK (RS485)"
- Set the Device Id different to the other one
 - E.g. Device ID =3
- Enable/Push the RS485 "Term" button from the DCX2496 rear side



plug of the	
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<u>;</u>	SETUP → MISCELU	ANEOUS	6/6
	CONTRAST: 5	VERSION:	1.18R
	DEVICE ID: 1	PORT: PC +	LINK
	DELAY UNIT:	m / mm	< *C
	MUTE OUTS WHEN	POWER ON ?:	no
ar side		SETUP	

	CO
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	and the second se

5ETUP - # 11115	LELL	HIIEUU	5	6/6
CONTRAST:	5	VERSI	an:	1.18A
DEVICE ID:	1	PORT:	LINK (RS	485)
DELAY UNIT:			m / mm	/ *C
MUTE OUTS I	NHEV	POWER	k on ?:	no
	ŀ	iETUP3		

SETUP → MIS				6/6
CONTRAST:	5	VERSI	ON:	1.18A
DEVICE ID:	1	PORT:	LINK (RS	485)
DELRY UNIT:			m / mm	< °C
MUTE OUTS WHEN POWER ON ?: NO				
SETUP				

Low cost DCX.Server PC 5.

MS-Windows 5.1

A cheap Windows system can be built based on a low end mini PC with a pre-installed MS-Windows 10 operating system. A PC with a CPU x5-Z8350, 1.9GHz or used Laptop is sufficient. The system setup is similar to the standard MS-Windows PC: Execute the DCX.Server setup.exe file, connect the USB-RS232 interface and install the driver, if needed.

5.2 Linux

Alternative a Linux PC system can be uses, e.g with Linux Mint. The MS-Windows software DCX.Server can be executed with WINE. Advantage of Mint: The setup includes the driver for USB RS232 interface on FTDI chip basis. A PC with a CPU x5-Z8350, 1.9GHz is sufficient.

Important: Configure in WINE the RS232 port as COM 1.

5.3 Atomic Pi PC

The Atomic Pi PC will work with Linux Mint as hardware platform.

Error handling 6.

Notification via LED 6.1

- Server IP shines yellow: DCX.Client or Mixer software currently not connected to the server. Start a program and the LED colour changes to green after successful connection between DCX.Server and DCX.Client or DCX.Mixer.
- COM port LED shines red: USB-RS232 interface not connected to the PC. Or interface not installed/detected. Use another interface (USB interface with FTDI chip set recommended).
- COM port LED shines yellow: Scan for DCX2496 devices ongoing. Please wait.
- DCX2496 shines red: DCX2496 is switched off or RS232 interface not connected to the DCX2496

6.2 Messages (footer)

- No COM port detected: No USB-RS232 interface connected or driver missed
- COM x not found: No USB-RS232 interface connected or driver missed
- After pressing button "Change COM port..." (MS-Windows) / open the list box no serial ports listed: No USB-RS232 interface connected or installed. Or RS232 driver issue.

6.3 Network / App

Server connection not possible Check the IP address/Port of the DCX.Server and DCX.Client / DCX.Mixer:

- Check the IP list from the DCX.Server and select a valid IP address .
- Example:
 - DCX.Client computer IP: 192.168.178.44 (MS-Windows command to view the IP of the PC: cmd/ipconfig)
 - DCX.Server computer IP: 192.168.195.1 select another IP, e.g. 192.168.178.72
- Server connection not possible: Allow communication via MS-Windows PC firewall
- Message "Enable Wi-Fi" or app DCX.Client quits immediately after start: Activate Wi-Fi at your mobile phone or tablet. Check the DCX.Server network connection.

DCX.Server with Linux/Wine 6.4

Wine error message after DCX.Software closing: Please confirm and ignore the message. Re-Boot the Atomic Pi PC for a re-start of DCX.Server, after confirmation of the message

7.1 Computer

- Network connection: Wired LAN connection, e.g. via power net adapter •
- Operating system 1)
 - MS-Windows software: MS-Windows 10 (32 & 64 bit) / 11 or Linux (see chapter 6)
- Hardware RS232 port or USB port for a USB-RS232 interface (see below) •
- Internet connection to activate your software license
- 1) You get the Demo and unlimited version via our download page. The license can be ordered via our web store.

7.2 RS232 interface

- Min. supported baud rate: 38.400 baud
- Support of the RTS control signal •
- USB RS232 interface
 - USB 2.0 bus or higher
 - Interface recommended with FTDI chipset (like Digitus DA-70156) .

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Web: http://www.Stute-Engineering.de

 CPU min. x5-Z8350, 1.9GHz or faster (or adequate AMD type), 2GB RAM macOS software : macOS 12 or higher (universal bundle arm64 & x86_64)