



for d8bSystems

Ultimate DAW Solution for **d8b Mixers**



User manual

V1.01.17

Contents

1	Welcome.....	4
2	Important.....	5
3	Compatibility to DAW software	6
4	Hardware Installation.....	7
4.1	What's in the box	7
4.2	Connecting the d8b	8
4.3	Connecting the audio to the d8b (Monitor controller)	9
5	Installation Drivers	10
5.1	Windows XP 32 bit	10
5.2	Windows 7 64 bit.....	10
5.3	MacOS.....	11
5.4	Linux	11
6	Installation DAW	12
6.1	Setting up Cubase for your ProBox	13
6.2	Setting up for reaper 4	18
7	Description.....	21
7.1	Startup	21
7.2	Configure your Probox.....	22
7.3	MCU and XT emulation.....	26
7.3.1	Special Probox Buttons to access MCU and two XTs.....	26
7.3.2	Button Map d8b MCU/XT.....	27
7.3.3	Vpots	27
7.3.4	OL /Led function	28
7.4	Monitor Controller function	29
7.4.1	Monitor Section.....	29
7.4.2	Cue Section.....	29
7.4.3	Signal path of Monitor controller	30
7.5	Generic Control functions.....	31

8	MIDI Implementation Table	32
9	Support	35
10	Warranty.....	36
11	Changelog	37

1 Welcome



Thanks for purchasing the ProBox. In this document you will find a detailed description about the installation and function of the ProBox. The Probox is developed by me as a single person. I'm a professional on electronics and software development as this is my daily business in a big electronic development company.

Nevertheless there can be that there will be any strange behaviour with this product. In that case you can contact me via email. I have stored all email addresses of the probbox customers to let you know when updates are released. I wish you a lot of joy and happy working with the ProBox without troubles.

The probbox emulates a Mackie/Logic Control with two extensions plus a monitor controller and a generic controller for the remaining not used buttons/Vpots. As there are several DAW programs available it is not possible for me to test the probBox on all platforms. As the ProBox emulates the Mackie stuff it should work with all platforms that support the Mackie/Logic Control. The Monitor Controller is DAW / OS independent and will work everytime.

Special thanks to:

Thomas Rybka who made the logo and tested the ProBox on Mac with Logic.
system32 (in the d8b forum) for sniffing the audio protocol on the console site
my wife for her understanding 😊

Best regards
Ralph Weritz

Ralph Weritz
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2 Important

Please read this carefully to avoid damage and problems with your ProBox or d8b.

!!! Never connect both USB ports at the same time !!!

This can cause a damage to the ProBox or your computer via the power supply domain.

Use the Monitor Controller Section carefully. Too much level (loudness) on the Phone Output can injure your ears.

As the ProBox simulates the Mackie MCU/XT the Probox will have all issues that a Mackie MCU/XT will have with your DAW software. If you have problems I will help you, but please don't expect a fix if it is a MCU related problem. I will not be able to fix that as it is not in my technical responsibility.

On Logic (and maybe other DAW programs) you might not have the full Fader range (Logic stops at +6dB). This is not a bug of the probox, Logic doesn't send a wider range, to ensure that the level displayed in Logic fits to the marks beside the Fader. A Fader calibration will not solve this issue.

The drivers for windows 7, Mac and Linux are OS drivers. So I'm not able to do any updates on that. The ProBox is tested with these OS types and there were no issues found. If something will pop up on driver site we have to wait for driver updates. By the way, I found out that the real Mackie MCU Pro (USB Version) uses the same drivers.

3 Compatibility to DAW software

The Probox supports following DAW solutions.

MCU Pro Compatibility Chart					
Software	MCU Pro	XT Pro	MCU Mode	MCU Overlay	Docs
Apple Logic Studio	✓	✓	Logic Control	None	User Manual Control Surface Guide
Apple Logic Express	✓	✓	Logic Control	None	User Manual Control Surface Guide
Apple Final Cut Pro	✓	✓	Logic Control	None	User Manual
Avid Pro Tools	✓	✓	HUI	Pro Tools	User Manual
Steinberg Cubase	✓	✓	Mackie Control	Cubase / Nuendo	All Documentation
Steinberg Nuendo	✓	✓	Mackie Control	Cubase / Nuendo	All Documentation
Ableton Live	✓	✓	Mackie Control	Live	User Manual
Propellerheads Reason	✓	✓	Mackie Control	Reason	All Documentation
Propellerheads Record	✓	✓	Mackie Control	None	All Documentation Control Surface Guide
MOTU Digital Performer	✓	✓	Mackie Control	Digital Performer	None
Mackie Tracktion	✓	✓	Mackie Control	Tracktion	User Manual
Adobe Audition	✓		Mackie Control	Audition	User Manual
Cakewalk Sonar	✓	✓	Mackie Control	Sonar	None
Sony Acid Pro	✓	✓	Mackie Control	Vegas	User Manual
Sony Vegas Pro	✓	✓	Mackie Control	Vegas	User Manual
Magix Samplitude	✓	✓	Mackie Control	None	User Manual
Magix Sequoia	✓	✓	Mackie Control	None	User Manual
SSL SoundScape	✓	✓	Mackie Control	None	User Manual
RML Labs SAW Studio	✓	✓	Mackie Control	SAW Studio	User Manual

See also: http://www.mackie.com/products/mcupro/mcupro_software.html

NOTE: You can find the manuals for your DAW on the CD in the folder Manuals/DAWs or on the link above.

4 Hardware Installation

!!! DO NOT CONNECT THE PROBOX TO WINDOWS OS SYSTEMS before you've installed the drivers !!!

4.1 What's in the box

Your package will contain:

- the probbox
- USB cable

All manuals will be available via email and download. Firmware updates will also be available via download and email.



4.2 Connecting the d8b



- Connect the probox to the 25 female SUB-D connector marked as “*console*”.
- Connect the power supply cable (the fat one with the monster plug) Mackie PSU/CPU to your console.

4.3 Connecting the audio to the d8b (Monitor controller)



The following Audio connectors can be used with the ProBox:

Connector	type	Function
2 TRACK IN A	INPUT	Input Source A
2 TRACK IN B	INPUT	Input Source B
2 TRACK IN C	INPUT	Input Source C
AUX 9	INPUT	Input for CUE AUX (note 120 Ohm Load !)
AUX 10	INPUT	Input for CUE AUX (note 120 Ohm Load !)
AUX 11	INPUT	Input for CUE AUX (note 120 Ohm Load !)
AUX 12	INPUT	Input for CUE AUX (note 120 Ohm Load !)
TALKBACK	INPUT	Footswitch Talkback
MIC1-12	INPUT	Can be accessed analogue via Insert Out
CR MAIN	OUTPUT	Main Speakers
CR NEARFIELD	OUTPUT	Nearfield Speakers
STUDIO OUT	OUTPUT	Studio Output
PHONES 1	OUTPUT	Phones 1 CUE 1 Output
PHONES2	OUTPUT	Phones 2 CUE 2 Output

5 Installation Drivers

The ProBox supports the following operating systems:

- Windows 7 64 bit (use the generic Windows driver) folder: **Windows_64-bit**
- Linux (driver included in OS)
- MacOS (driver included in OS)

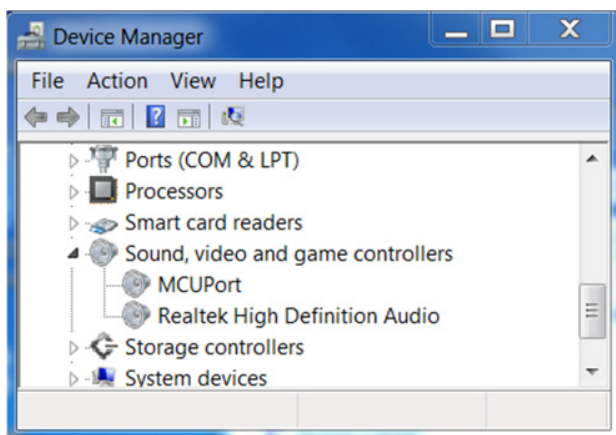
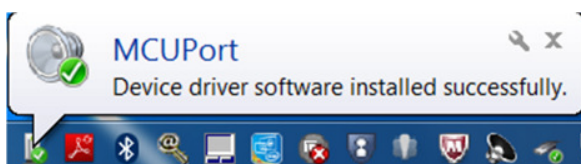
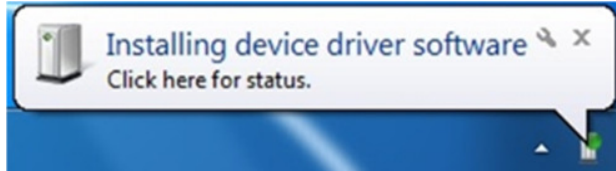
5.1 Windows XP 32 bit

Windows XP (32 bit) is not supported. There are drivers available but untested

5.2 Windows 7 64 bit

Driver: Windows_64-bit

Connect the probbox, windows will automatically detect the box and install the windows driver. You will get a message when the driver is installed properly. Additionally you will find the MCU in the device manager.



5.3 MacOS

Driver: includen in your OS

Connect the probbox via USB port marked as “DAW”. The OS should install the drivers automatically.

5.4 Linux

Driver: includen in your OS

Connect the probbox via USB port marked as “DAW”. The OS should install the drivers automatically.

[illegible]

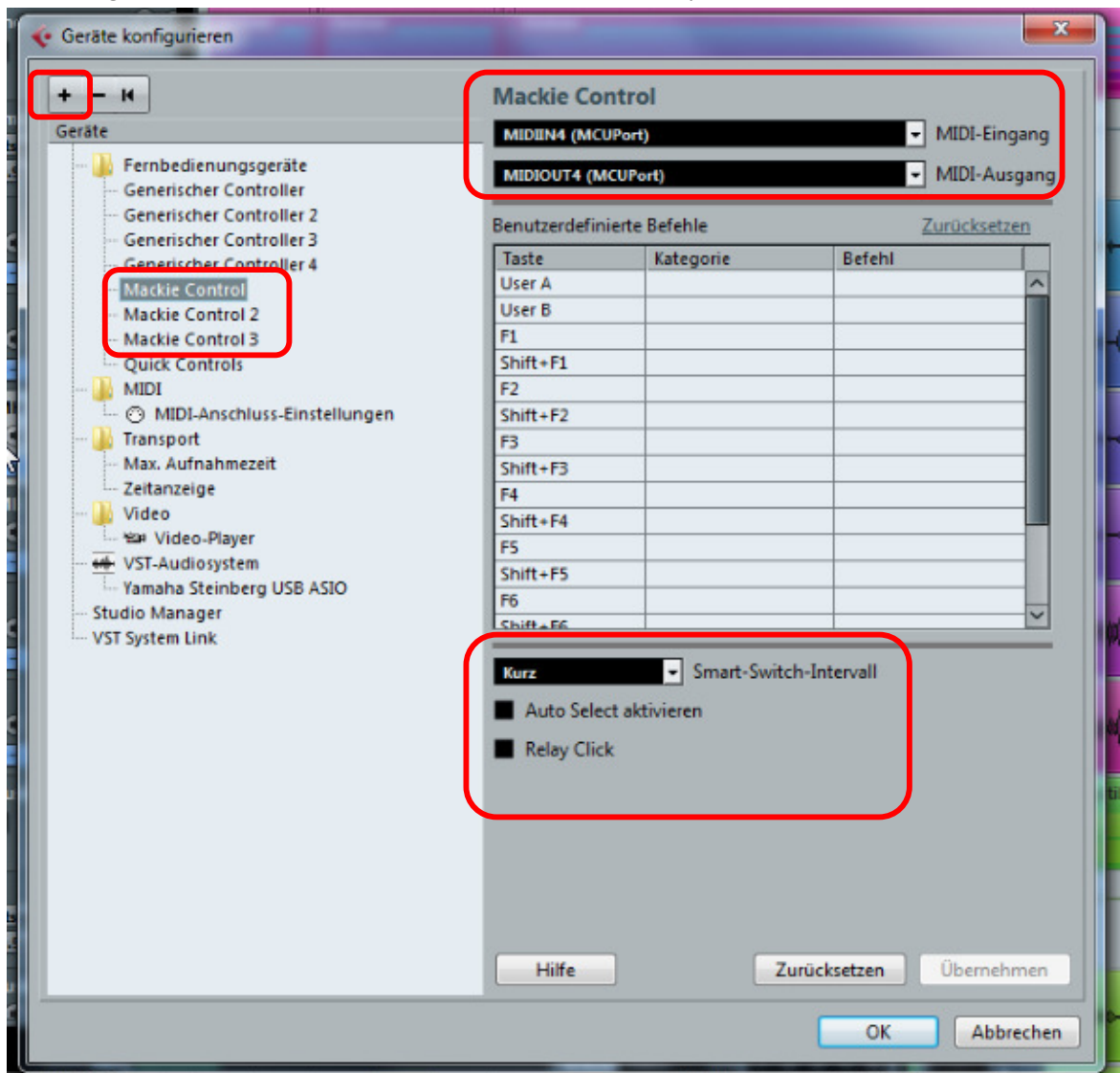
6.1 Setting up Cubase for your ProBox

This describes the setup for your Cubase/Nuendo. The probox has to be connected and recognized by Windows. D8b should be booted up and working.

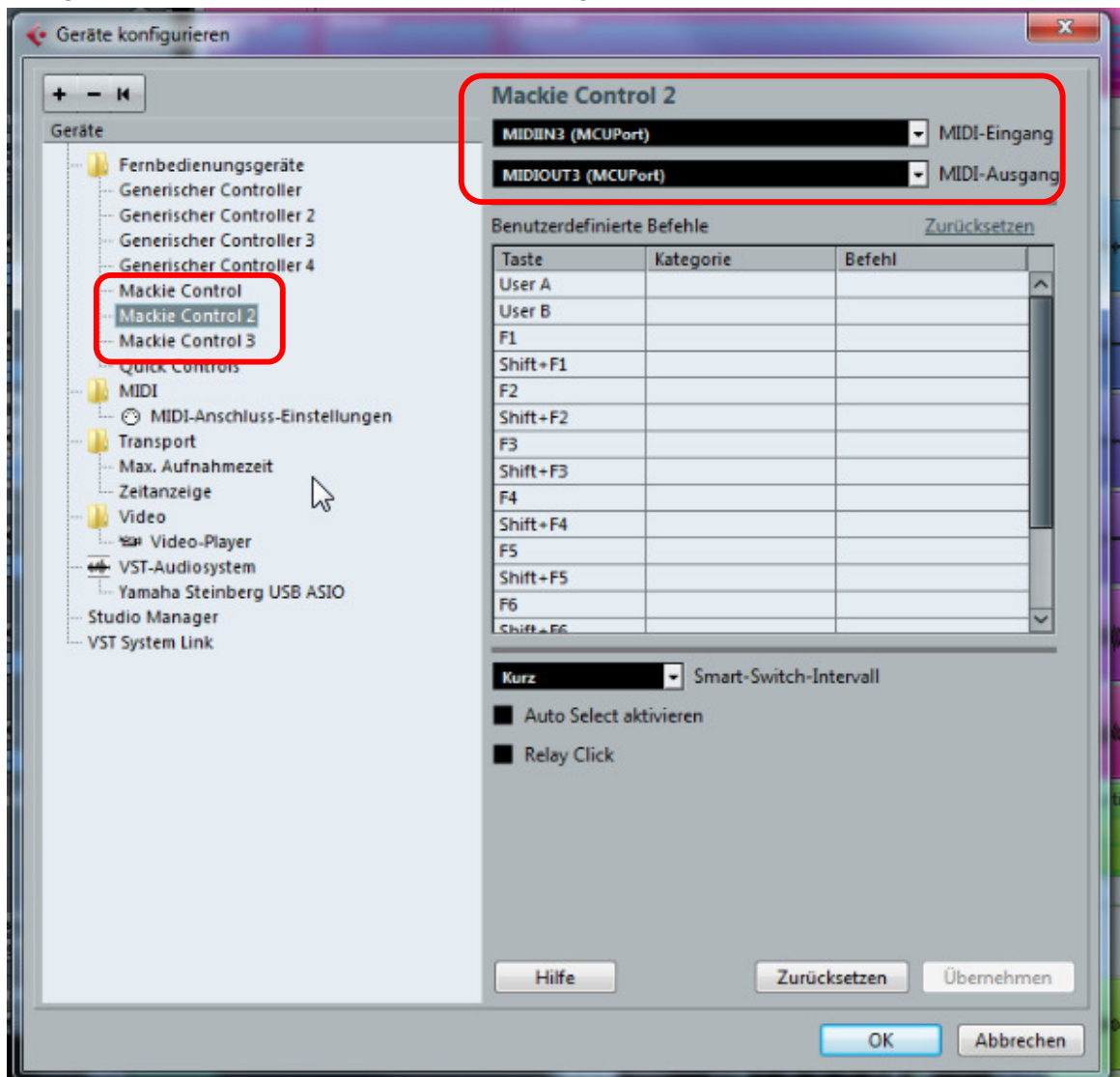
- Select “**Geräte/Devices**” and “**config Devices**” .

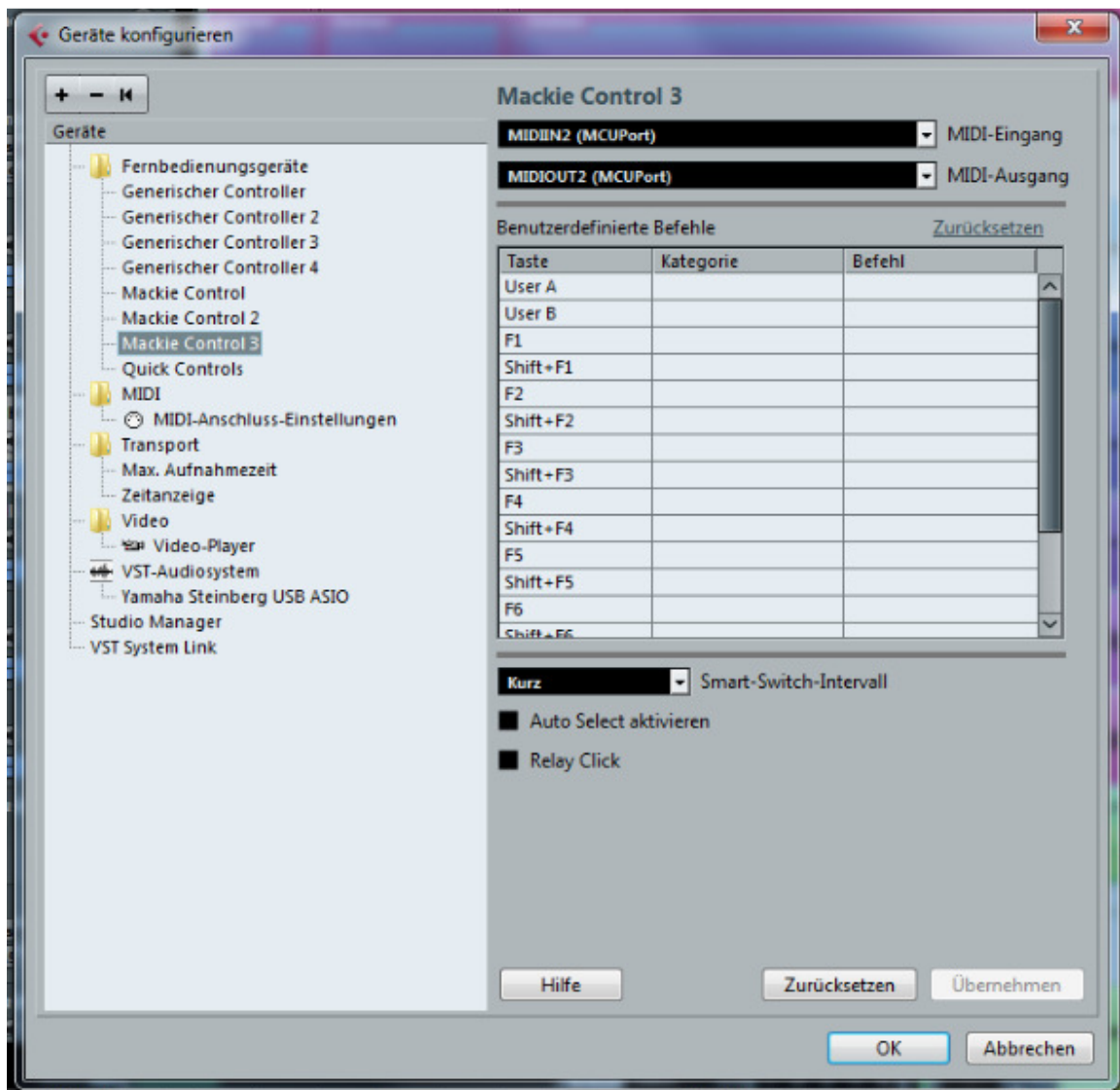


- Add 3 Mackie Controls by pressing the “+” Button. Then you should get three Mackie control in your list. Configure the first to the USB Midi Port 4. Leave the setup as it is. “Kurz” means short.



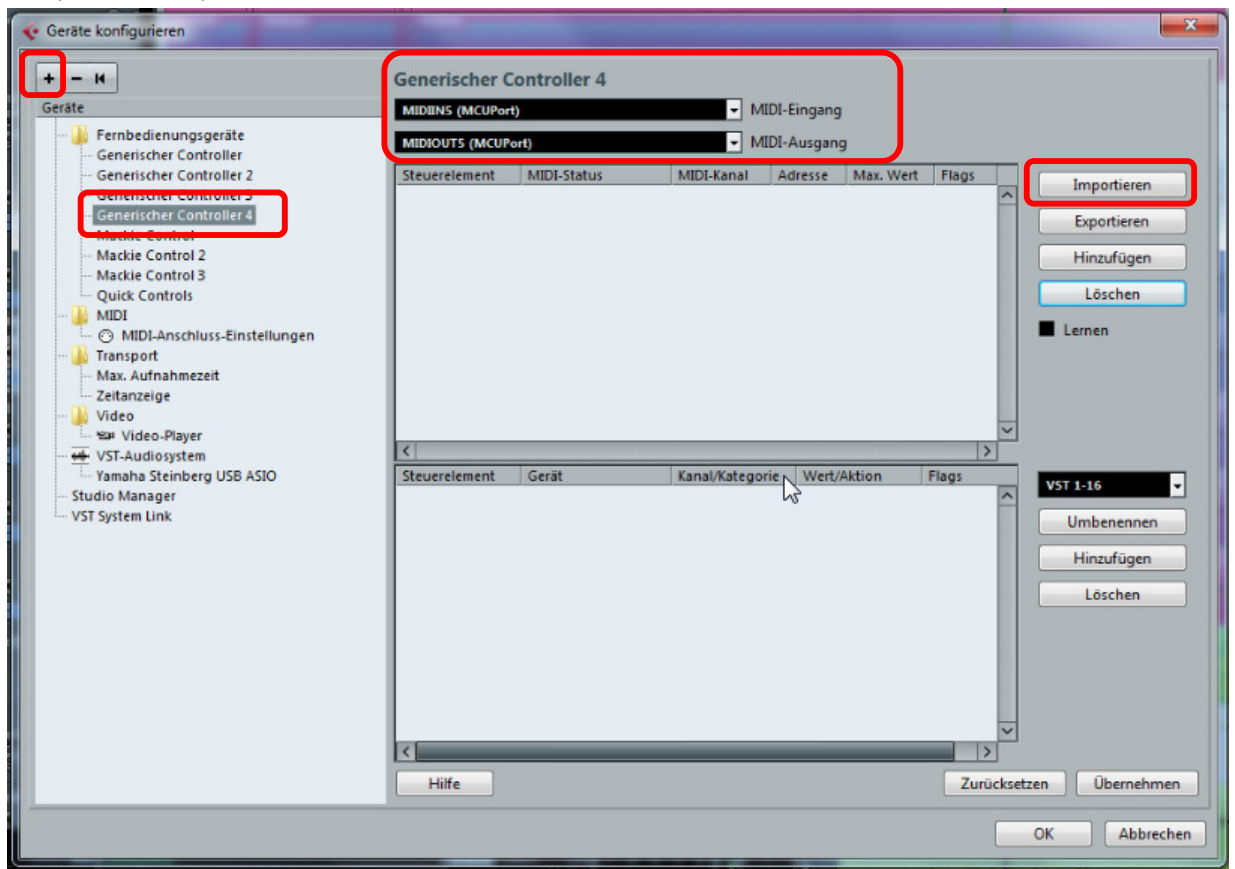
- Configure the next two Mackie Controls as following: Select Port **3**





As this is the MCU and the others are the XTs you can make here your user defined setup for the F1-F9 keys (shown in blue).

- If you want you can add the generic controller. Press “+” and add a generic controller. Change the Midiports to the port MCU Port 5.



- Here you can program the additional generic functions of the probox.

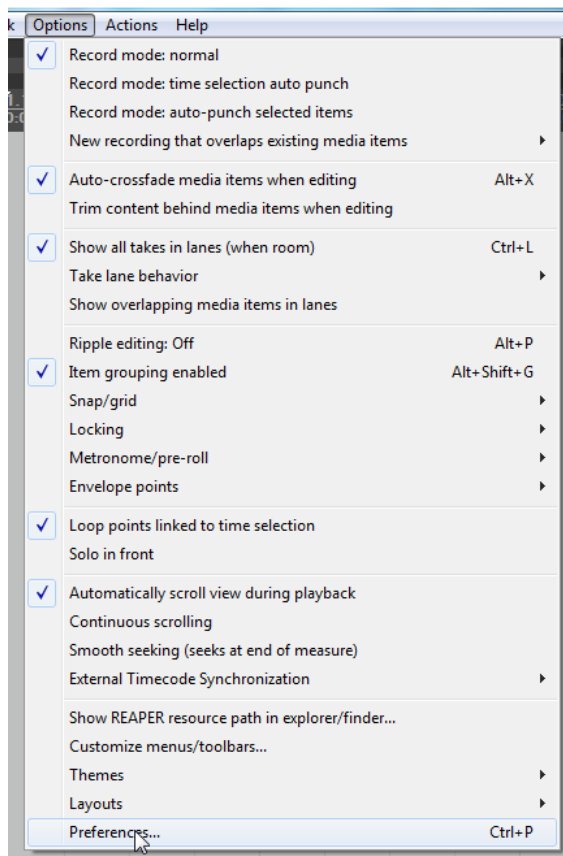
6.2 Setting up for reaper 4

For reaper 4 you have to do the following setup

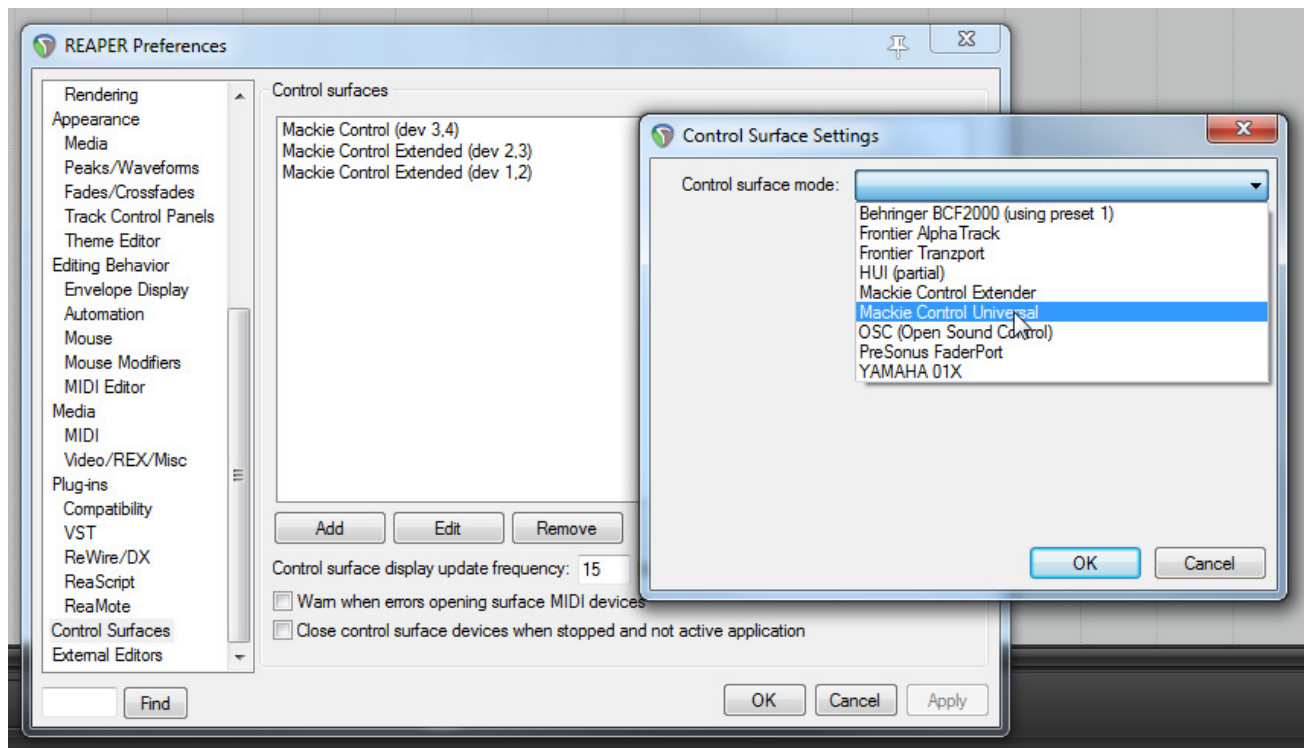
Mackie MCU --> **MIDIIN4 (MCU Port) In and out** Fader Offset = 16

Mackie XT --> **MIDIIN3 (MCU Port) In and out** Fader Offset = 8

Mackie XT --> **MIDIIN2 (MCU Port) In and out** Fader Offset = 0

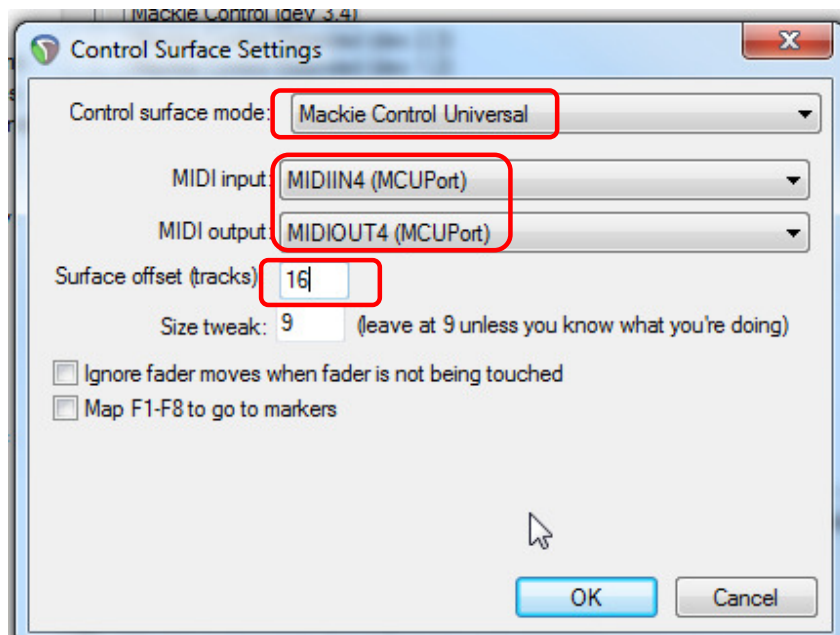


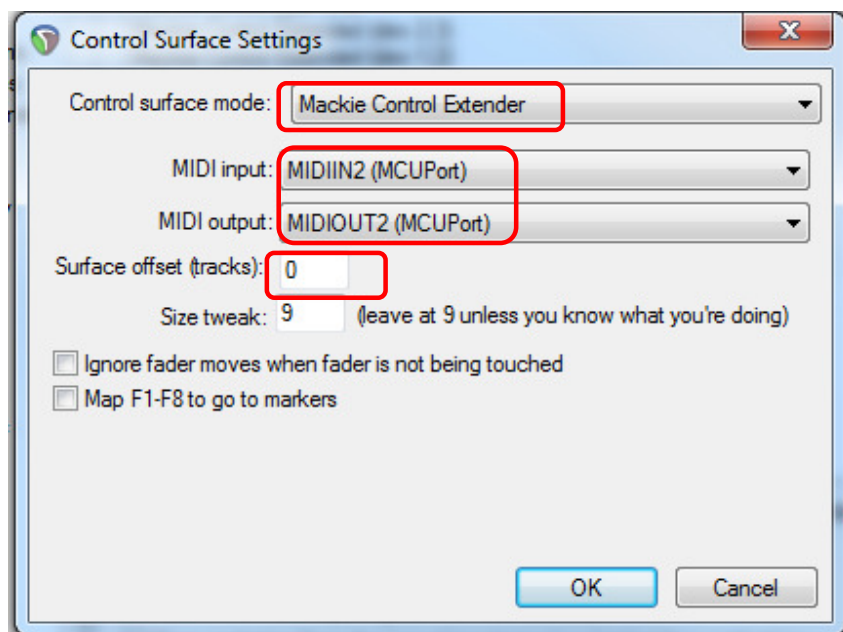
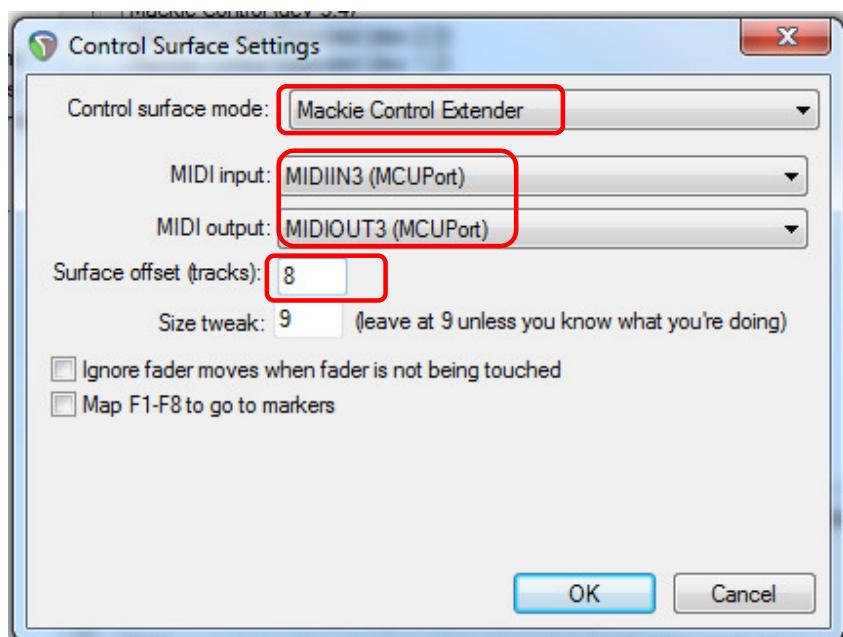
Select Options → preferences



Select **Control Surfaces** and press Add to add **one Mackie Control Universal** and **two Mackie Control Extender**

Set the 3 controllers to the following options





7 Description

This chapter describes how you setup and use your ProBox.

NOTE: To use the function of the ProBox it is necessary to wait till the firmware is transmitted to the console. This is a Mackie design problem and cannot be improved by the proBox Solution.

7.1 Startup

To startup use the following order

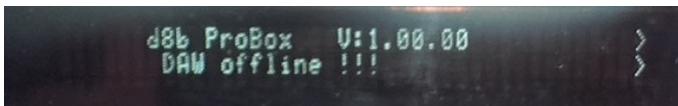
- Power on the d8b
- Power on the probox (as this is done via PC, switch on PC)
 - The welcome screen should appear “**ProBox Version 1.01.17**”
“**waiting for d8b console**”



- Wait till the ProBox starts to transmit the firmware to the console
 - The display should show “**ProBox Version 1.01.07**”
“**loading firmware**”



- When Firmware is transmitted the d8b faders will go to 0 and the display will show “**!!! DAW offline !!!**”. At this point it is possible to configure your ProBox or use the Monitor section.



- Start your DAW application

NOTE:

After transmitting the firmware the Probox is switched to the high datarate of 230.400 Baud instead of the usual 115200 baud. If the Probox doesn't receive the heartbeat within 5 seconds of the console it switches back to 115200 Baud ensure a retransmission of the firmware.

That means, if you have problems with your d8b console you can power the console off and on again. The Probox will ensure a working system again, but it will take some seconds.

7.2 Configure your Probox

You can make some small configuration for your Probox/d8b. This is done via the config menu on the d8b. There are three configuration pages available, you can select them by pressing the “NEXT” or “PREVIOUS” button.

PAGE 1/3: You can select three parameters:

M-Faders	Ctl-Room	Protocol
normal	generic	Mackie
fast	d8b	Logic
		HUI N.A.

Faders: The motor faders will react normal or fast. It’s recommended to use the normal operation, as it seems so that the d8b has a strange algorithm on the fast fader routine (drives fast near the transmitted position and then after a short delay drives slow to the dedicated point). Often the Faders jump above the dedicated position and drive back again

Monitor control: use the Audio Monitor section or use the buttons and Vpots as generic controller

Protocol: use Logic for Logic, in all other cases use Mackie. HUI is not available at the moment. **NOTE:** Also there is no difference at the moment between logic and Mackie (as both implementations uses both initializations). The separation is on the meterbridge. If you have clipping Logic only sends the Meter command Clip, not the full meter command anymore. This ends up in a way the the meterbridge is not updated as long you have clipping. If you select the Logic format, all LEDs of the meterbridge will be set on a clip command. So if you have Logic please select here Logic to get a proper meterbridge working. Also set the Meterbridge settings to **DAW/prob**

PAGE 2/3: You can select three parameters:

Metermode	Fadercal	useFcalib
DAW/prob	start	no
full DAW	-30dB	Yes
Meter off	-10dB	
	U	

Metermode: If you select “full DAW” then the DAW sets and clears the Meters of the d8b. If you select “DAW/prob”, then the meter is set by the DAW and cleared by the probox (no meter artifacts if meter commands are not send correctly by DAW). **I’ve observed that for Cubase the Full DAW mode seems to be better and for logic the DAW/prob is more usefull.**

If you want to use the audio part via the d8b, the dsp board may send meterbridge commands that influence your visual meterbridge. Therefore it is possible to switch that off.

Fadercal: here you can calibrate your faders. Press the button above the third vpot “**SELECT**” to start the calibration. The faders will go near the -30dB position, now move the faders manually to the -30dB. Then press

the button again. The faders will go near -10dB. Proceed as you did with the -30dB on the -10dB position and also for the U position. Fader Calibration values will be stored when you leave the config setup.

NOTE: The fadercalibration will scale the fader areas to the dB marks (for Logic). If you want to use the faders without matching scaling, then set the “useFcalib” to “no” otherwise set it to “yes” if you want to use the calibration.

PAGE 3/3: You can select three parameters:

Emulation		
MCU2XT_1		
MCU2XT_2		
3XT		

MCU2XT_1 emulates one MCU and 2 XT with a dedicated serialnumber.

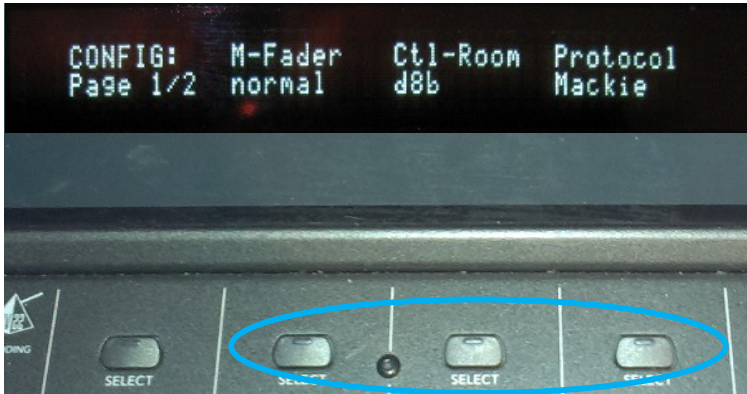
MCU2XT_2 emulates one MCU and 2 XT with a different dedicated serialnumber than MCU2XT_1. This is used if you want to use two d8bs with two proboxes in parallel.

3XT emulates 3 XT. This is used if you want to use two d8bs with two proboxes in parallel, but your DAW software doesn’t support 2 MCUs at the same time.

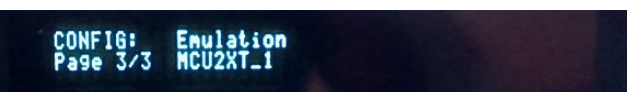
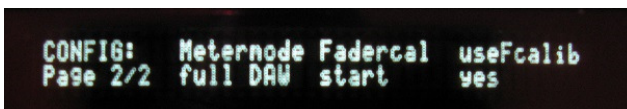
NOTE: I cannot guarantee that this will work, as it depends on the DAW software how many MCUs XTs are supported at the same time.



- Press the button ***"MEMORY B"*** marked green to access the Config Menu



- Use one of the three ***"SELECT"*** buttons (marked blue) to change the setup. You will find it displayed in the second row of the display. E.g. press the left button to change between Fader normal and fader fast, the middle button for generic or d8b and the right one for the protocol. Use the ***"NEXT,PREVIOUS"*** button to access the Page 2 of the Setup or to get back to page 1.



- Press one of the three red marked buttons ***"ON SETUP"*** or ***"MEMORY A"*** to get out of the config menu and store the setup.

IMPORTANT: when you step out the config setup, all changes are stored, also the actual levels of the Monitoring section (if it is enabled) except the Speakers volume. In other words, if you want to boot your probox with a dedicated Monitoring Controller setup 2 Track Input A and as output Nearfiled speaker you have to do this:

- Make your setup on the Monitoring controller section of the d8b, setup your volumes for Talkback, Phones etc..
NOTE: Volume for Speaker out, Talkback, Mono and DIM is not important as it will always be set to 0 or Off on boot (security reasons).
- Press ***"MEMORY B"*** o enter the configuration menu.
- Press one of the three red marked buttons ***"ON SETUP or MEMORY A"*** to leave the setup and store all the settings of the monitor controller.

7.3 MCU and XT emulation

For detailed MCU XT functionality please refer to the dedicated DAW manual for the Mackie MCU/XT.

For Cubase/Nuendo I've attached this manual on the CD. I only support a Button map which button on the d8b covers the buttons on the MCU/XT.

7.3.1 Special Probox Buttons to access MCU and two XTs

As we all know, one MCU and two XTs offer 3 displays with 2x52 characters. As the d8b only has one display with 2x40 characters this display has the offer a function that makes it possible to access these 3 MCU displays.



You can access the XT1 by pressing the button **"ON"**. The XT2 is selected by pressing **"SETUP"**. **"MEMORY A"** select the MCU. As we have too less characters in the display to show all messages, you can scroll the display left and right by using the buttons **"PREVIOUS"** or **"NEXT"**. You will find > or < arrows in the display that shows you where text is hid and can be accessed by the buttons.

Additional the **"PREVIOUS"** and **"NEXT"** button switches between **VPots 1-4** or **5-8**. The select buttons above are the VPot switches. The green channel LEDs will show you the selected MCU/XT in groups of 8.

NOTE: you can access the VPot switches only via this method. The PAN Vpots of the 24 channels are equal to the MCU, XT Vpots, so you can also use them to change parameters, but you will not have any Vpot switch there.

7.3.2 Button Map d8b MCU/XT

You will find the map on the CD under documentation: Filename: ***mackie_vs_d8b_buttons.pdf***

picture	ORB	MCU / Logic	Cubase/Nuendo	Digital Performer	Sonar	Tracktion	VEGAS
	Level to tape	X-	X-	X-	X-	X-	X-
	Digital trim	X+	X+	X+	X+	X+	X+
	AUX 1	Mid Track	Fader Bank 1	Record Click	new audio	fit all tracks	TRACK
	AUX 2	Inputs	Fader Bank 2	Record CountOff	new midi	zoom out	BUS
	AUX 3	Audio Track	Fader Bank 3	Record Overdub	fit tracks	prev marker	MIXER
	AUX 4	Audio Insert	Fader Bank 4	Record patch Thru	fit project	next marker	VIDEO PREVIEW
	AUX 5	Ass	Fader Bank 5	Record clear clip	sk/eniter	insert tempo change	PLUGINS
	AUX 6	Busses	Fader Bank 6	transport Slave to ext sync	cancel	projects	BUS TRACKS
	AUX 7	Outputs	Fader Bank 7	transport memory link	next win		DOCK AREA
	AUX 8	Users	Fader Bank 8	transport Pre/Post Roll	close win		TRACK LIST
	AUX 9-10	Write	Automation Touch	snapshot		Show meters	BYPASS FX
	AUX 11-12	Y-	Y-	Y-	Y-	Y-	Y-
	AUX 9-10 PAN	read/off	Read	Automation read/off	read/off	Show Racks	AUTOMATION
	AUX 11-12 PAN	Y+	Y+	Y+	Y+	Y+	Y+
	MASTER PAN	NC/NE	Slr Over Leds	Slr Over Leds	Slr Over Leds	Slr Over Leds	Slr Over Leds
	MASTER SOLO	Zoom	Zoom	Zoom	Zoom	Zoom	Zoom
	Masters	Channel left	Channel left	Channel left	Channel left	Channel left	Channel left
	Shift	Channel right	Channel right	Channel right	Channel right	Channel right	Channel right
	Bank left	Bank left	Bank left	Bank left	Bank left	Bank left	Bank left
	Bank right	Bank right	Bank right	Bank right	Bank right	Bank right	Bank right
	Effects	Flip	Flip	Flip	Flip	Flip	Flip
	Select	Vbutton 1/5	Vbutton 1/5	Vbutton 1/5	Vbutton 1/5	Vbutton 1/5	Vbutton 1/5
	Select	Vbutton 2/6	Vbutton 2/6	Vbutton 2/6	Vbutton 2/6	Vbutton 2/6	Vbutton 2/6
	Select	Vbutton 3/7	Vbutton 3/7	Vbutton 3/7	Vbutton 3/7	Vbutton 3/7	Vbutton 3/7
	Select	Vbutton 4/8	Vbutton 4/8	Vbutton 4/8	Vbutton 4/8	Vbutton 4/8	Vbutton 4/8
	LOW	Vpot 1/5	Vpot 1/5	Vpot 1/5	Vpot 1/5	Vpot 1/5	Vpot 1/5
	LOW MID	Vpot 2/6	Vpot 2/6	Vpot 2/6	Vpot 2/6	Vpot 2/6	Vpot 2/6
	HI MID	Vpot 3/7	Vpot 3/7	Vpot 3/7	Vpot 3/7	Vpot 3/7	Vpot 3/7
	EQ	Vpot 4/8	Vpot 4/8	Vpot 4/8	Vpot 4/8	Vpot 4/8	Vpot 4/8
	EQ	edit track / IO	First or Up LCD pages	Mode	TRACK BUS	PAN	OUTPUT/COMPOSING
	GATE	edit sends	Last or Down LCD pages	Send	SEND	AUX	INPUT/MOTIONBLUR
	COMPRESSOR	PAN	PAN	Pan	PAN	PAN/FADE TO COLOR	SENDS
	Plugin	Plugin	not used	Effect	PLUG-IN	Marker	INSERTS
	Load patch	EQ	Channel EQ	not used	EQ	Page L	SETTINGS
	Save Patch	Instrument/Dyn	Channel FX Sends	Preset	COMPRESSOR	Page R	
	Bypass	Trim	Sends	automation Trim Touch	TRACK	Show filters	METRONOME
	Faders	Save	Instruments	Project Save	AUX	Auto rec	SAVE
	Mutes	Undo	master	project Audible mode	MAIN	Auto play	UNDO/REDO
	Auto touch	touch	Project	automation Overwrite	DISARM	Save	SURROUND/TEXT MONITOR
	Faders Motors off	Group	Motors	automation trim latch	OFFSET	Undo	DOWN/MIX/SPLIT SCREEN
	Pan	Latch	Mixer	automation latch	SAVE	Redo	DIM/OVERLAYS
	All	cancel	Solo Defeat	project undo	UNDO	Clear peaks	OK/ENTER
	Trim levels	ENTER	shift	project redo	REDO	Freeze track	CANCEL
	save	shift	undo/edit history	modifiers shift	M1	Shift	SHIFT
	save as	option	Redo	modifiers control	M2	Add marker/insert Pitch change	OPTION TRACK ORDER
	new	control	save	modifiers option	M3	vs Nudge	CONTROL
	load	alt	revert	modifiers command	M4	Nudge >>	ALT
	set time	value	value	display level/meters	name/value	CPU%	METERS/TRACKS BUSES
	smp/pe	Bar/smp/pe	Bar/smp/pe	display time format	SMPTE/BEATS	SMPTE/BAR	TIMEFORMAT /SET ZERO
	enter	cycle	cycle	edit grid	SELECT	CLICK	LOOP/SELECT
	loop	drop	punch	cycle	PUNCH	SNAP	MARK IN/GO TO IN
	store	replace	previous marker	punch	IOG PARAM.	END TO END	MARK OUT / Go TO OUT
	locator	click	Add marker	select	LOOP ON/OFF	SCROLL	EVENT TRIM / CENTER CURSOR
	snapshot	solo	next marker	solo	HOME	MTC CHASE	RTZ/END
	rew	rew	rew	rew	rew	rew	rew
	ffw	ffw	ffw	ffw	ffw	ffw	ffw
	stop	stop	stop	stop	stop	stop	stop
	play	play	play	play	play	play	play
	rec	rec	rec	rec	rec	rec	rec
	log&shuttle	log	log	log	log	log	log
	Paste	marker	left / move location	RTZ	MARKER	LOOP	MARKER / CD INDEX
	Undo	Nudge	right / move location	Marker	LOOP	PUNCH	REGION / CD TRACK

7.3.3 Vpots

The VPots are rotate sensitive. That means if your turn the vpot faster, it will react with bigger jumps.

If you need real big value jumps on your vpot, press down the ***“MASTER PAN”*** button and keep it pressed while turning the vpot. You will change the value with a factor of 31.

7.3.4 OL /Led function

The probox has build in an additional function that is not supported by the original MCU/XT.

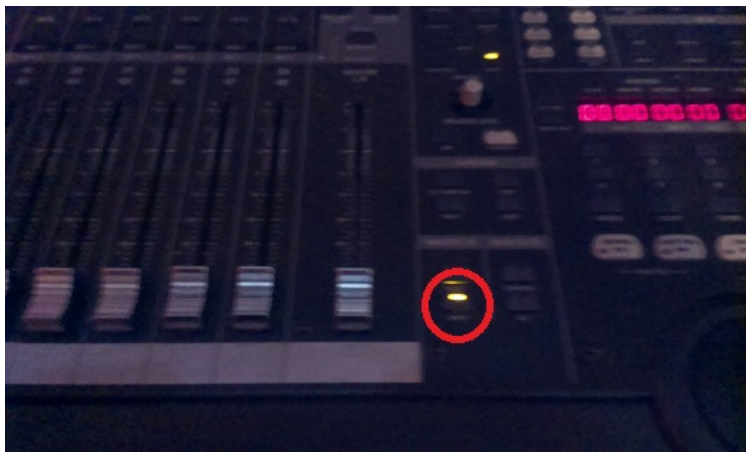
If the probox receives an overload message from the DAW, the red channel LED for the dedicated overloaded channel is blinking. This will be the case till it is cleared by the user by pressing the ***“MASTER PAN”*** button or switches between banks or makes a channel shift.



7.3.5 Faders Off function

As some of you have problems with the faders (small changes every time) the fader send and fader receive messages can be turned on and off. Cubase and Logic has this function “build in” on the Controller, but other DAWs like Ableton do not have it. Therefore this function is implemented in the probox.

To turn off the whole faders press the write button on the left side of the Master fader. It will blink to indicate that the faders are off. If you want to turn them on press the button again.



7.4 Monitor Controller function

This option is only available when it is enabled in the config menu.

7.4.1 Monitor Section



Use the three buttons **“2 TRACK A 2 TRACK B or 2 TRACK C”** to select your Input for the Control Room. This input signal can be switched to mono via the **“MONO”** button or be dimmed via the **“DIM”** button.

It can be sent to either the main output by pressing the **“MAIN”** button or to the Nearfield output by pressing **“NEAR FIELD”**.

7.4.2 Cue Section



On the Phones/Cue Mix 1 /2 area you can select the Inputs Aux9/10, Aux 11/12 or the Signal on your Main/Nearfield Speakers by pressing **“AUX 9-10”**, **“AUX 11-12”** or **“CONTROL ROOM”**. Control the volume of the Phones via the Vpot.

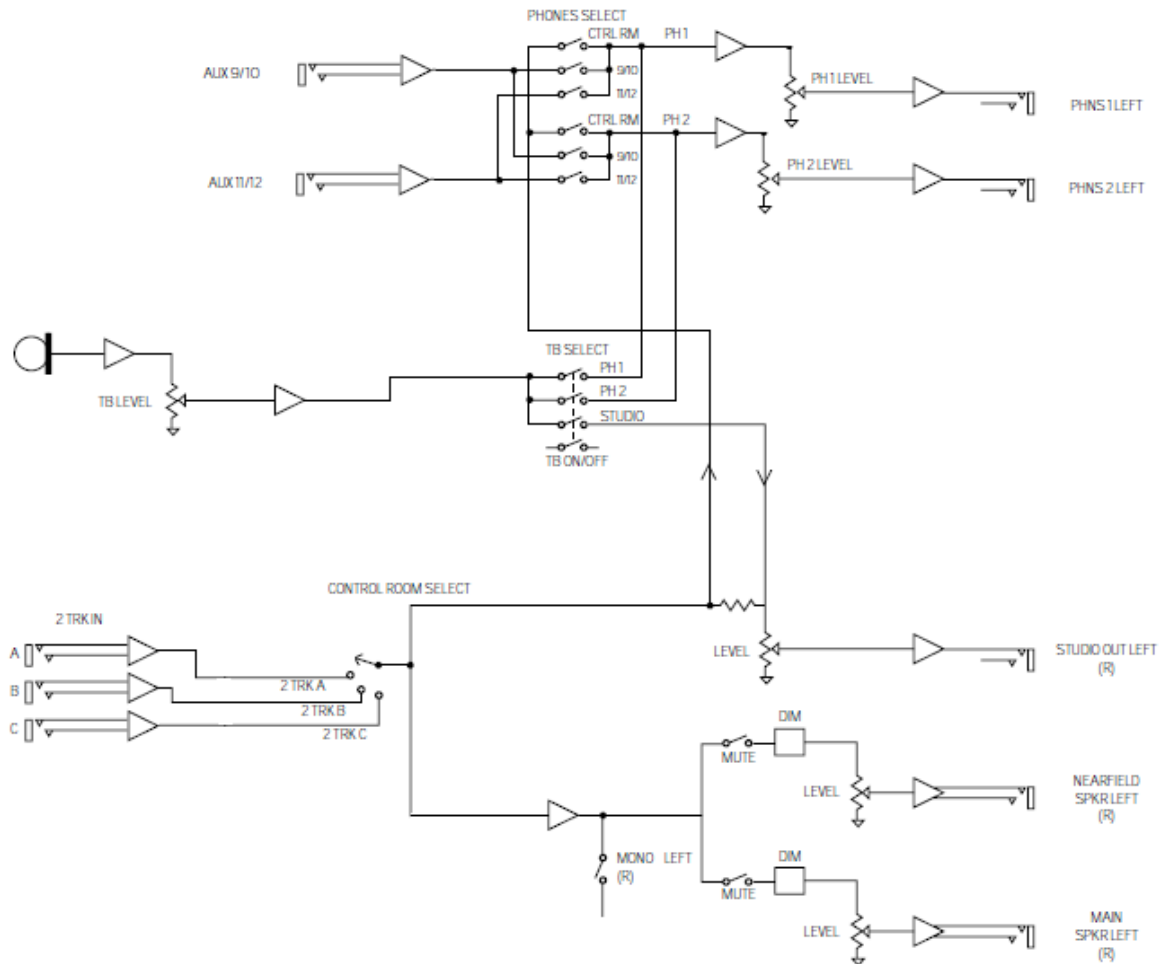


Use the Master Vpot to control the signal on the STUDIO Out jacks. The Signal on the Studio Out will be the same as on the Speakers.

Use the **“TALKBACK”** button on the monitoring section to send the talkback mic signal to Phones/Cue 1 and 2 and the Studio Out. Control your Mic Level with the Vpot **“LEVEL”** in the Solo/Studio area.



7.4.3 Signal path of Monitor controller



7.5 Generic Control functions

The generic controller functions are handled via the 4th USB midi port. To have a match to the MCU Bank Left/right and channel left/right functions these buttons will also send a signal on the generic USB midi port. You have to program your DAW for that.

For Cubase such a setup will be available, as I will do that for my setup.

NOTE: If you disable the Monitor Controller function on the ProBox, you will have these buttons and Vpots as generic controller (marked in green). For the implementation into your DAW please look to the chapter MIDI Implementation table

8 MIDI Implementation Table

Button/Vpot	Midi Ch	Midi			
		Command	(hex)	(dec)	values
Master Vpot Master	1	Control Change (0xB0)	70	112	0-127, 0-0x7F
SOLO/STUDIO Vpot LEVEL	1	Control Change (0xB0)	71	113	0-127, 0-0x7F
PHONES/CUE1 VPOT LEVEL	1	Control Change (0xB0)	72	114	0-127, 0-0x7F
PHONES/CUE2 VPOT LEVEL	1	Control Change (0xB0)	73	115	0-127, 0-0x7F
CONTROL ROOM SPEAKER LEVEL	1	Control Change (0xB0)	74	116	0-127, 0-0x7F
Main-Meterbridge Cubase (logarithmic) L	1	Control Change (0xB0)	75	117	0-127, 0-0x7F
Main-Meterbridge Cubase (logarithmic) R	1	Control Change (0xB0)	76	118	0-127, 0-0x7F
Main-Meterbridge (linear) L	1	Control Change (0xB0)	77	119	0-127, 0-0x7F
Main-Meterbridge (linear) R	1	Control Change (0xB0)	78	120	0-127, 0-0x7F
Assign Ch01[Automation read]	1	NoteOn (0x90)	0	0	127(0x7F) on, 0 off
Assign Ch02[Automation read]	1	NoteOn (0x90)	1	1	127(0x7F) on, 0 off
Assign Ch03[Automation read]	1	NoteOn (0x90)	2	2	127(0x7F) on, 0 off
Assign Ch04[Automation read]	1	NoteOn (0x90)	3	3	127(0x7F) on, 0 off
Assign Ch05[Automation read]	1	NoteOn (0x90)	4	4	127(0x7F) on, 0 off
Assign Ch06[Automation read]	1	NoteOn (0x90)	5	5	127(0x7F) on, 0 off
Assign Ch07[Automation read]	1	NoteOn (0x90)	6	6	127(0x7F) on, 0 off
Assign Ch08[Automation read]	1	NoteOn (0x90)	7	7	127(0x7F) on, 0 off
Assign Ch09[Automation read]	1	NoteOn (0x90)	8	8	127(0x7F) on, 0 off
Assign Ch10[Automation read]	1	NoteOn (0x90)	9	9	127(0x7F) on, 0 off
Assign Ch11[Automation read]	1	NoteOn (0x90)	0A	10	127(0x7F) on, 0 off
Assign Ch12[Automation read]	1	NoteOn (0x90)	0B	11	127(0x7F) on, 0 off
Assign Ch13[Automation read]	1	NoteOn (0x90)	0C	12	127(0x7F) on, 0 off
Assign Ch14[Automation read]	1	NoteOn (0x90)	0D	13	127(0x7F) on, 0 off
Assign Ch15[Automation read]	1	NoteOn (0x90)	0E	14	127(0x7F) on, 0 off
Assign Ch16[Automation read]	1	NoteOn (0x90)	0F	15	127(0x7F) on, 0 off
Assign Ch17[Automation read]	1	NoteOn (0x90)	10	16	127(0x7F) on, 0 off
Assign Ch18[Automation read]	1	NoteOn (0x90)	11	17	127(0x7F) on, 0 off
Assign Ch19[Automation read]	1	NoteOn (0x90)	12	18	127(0x7F) on, 0 off
Assign Ch20[Automation read]	1	NoteOn (0x90)	13	19	127(0x7F) on, 0 off
Assign Ch21[Automation read]	1	NoteOn (0x90)	14	20	127(0x7F) on, 0 off
Assign Ch22[Automation read]	1	NoteOn (0x90)	15	21	127(0x7F) on, 0 off
Assign Ch23[Automation read]	1	NoteOn (0x90)	16	22	127(0x7F) on, 0 off
Assign Ch24[Automation read]	1	NoteOn (0x90)	17	23	127(0x7F) on, 0 off
Write Ch01[Automation Write]	1	NoteOn (0x90)	18	24	127(0x7F) on, 0 off
Write Ch02[Automation Write]	1	NoteOn (0x90)	19	25	127(0x7F) on, 0 off
Write Ch03[Automation Write]	1	NoteOn (0x90)	1A	26	127(0x7F) on, 0 off
Write Ch04[Automation Write]	1	NoteOn (0x90)	1B	27	127(0x7F) on, 0 off
Write Ch05[Automation Write]	1	NoteOn (0x90)	1C	28	127(0x7F) on, 0 off
Write Ch06[Automation Write]	1	NoteOn (0x90)	1D	29	127(0x7F) on, 0 off
Write Ch07[Automation Write]	1	NoteOn (0x90)	1E	30	127(0x7F) on, 0 off
Write Ch08[Automation Write]	1	NoteOn (0x90)	1F	31	127(0x7F) on, 0 off
Write Ch09[Automation Write]	1	NoteOn (0x90)	20	32	127(0x7F) on, 0 off
Write Ch10[Automation Write]	1	NoteOn (0x90)	21	33	127(0x7F) on, 0 off
Write Ch11[Automation Write]	1	NoteOn (0x90)	22	34	127(0x7F) on, 0 off

Write Ch12[Automation Write]	1	NoteOn (0x90)	23	35	127(0x7F) on, 0 off
Write Ch13[Automation Write]	1	NoteOn (0x90)	24	36	127(0x7F) on, 0 off
Write Ch14[Automation Write]	1	NoteOn (0x90)	25	37	127(0x7F) on, 0 off
Write Ch15[Automation Write]	1	NoteOn (0x90)	26	38	127(0x7F) on, 0 off
Write Ch16[Automation Write]	1	NoteOn (0x90)	27	39	127(0x7F) on, 0 off
Write Ch17[Automation Write]	1	NoteOn (0x90)	28	40	127(0x7F) on, 0 off
Write Ch18[Automation Write]	1	NoteOn (0x90)	29	41	127(0x7F) on, 0 off
Write Ch19[Automation Write]	1	NoteOn (0x90)	2A	42	127(0x7F) on, 0 off
Write Ch20[Automation Write]	1	NoteOn (0x90)	2B	43	127(0x7F) on, 0 off
Write Ch21[Automation Write]	1	NoteOn (0x90)	2C	44	127(0x7F) on, 0 off
Write Ch22[Automation Write]	1	NoteOn (0x90)	2D	45	127(0x7F) on, 0 off
Write Ch23[Automation Write]	1	NoteOn (0x90)	2E	46	127(0x7F) on, 0 off
Write Ch24[Automation Write]	1	NoteOn (0x90)	2F	47	127(0x7F) on, 0 off
TRANSPORT 1	1	NoteOn (0x90)	40	64	127(0x7F) on, 0 off
TRANSPORT 2	1	NoteOn (0x90)	41	65	127(0x7F) on, 0 off
TRANSPORT 3	1	NoteOn (0x90)	42	66	127(0x7F) on, 0 off
TRANSPORT 4	1	NoteOn (0x90)	43	67	127(0x7F) on, 0 off
TRANSPORT 5	1	NoteOn (0x90)	44	68	127(0x7F) on, 0 off
TRANSPORT 6	1	NoteOn (0x90)	45	69	127(0x7F) on, 0 off
TRANSPORT 7	1	NoteOn (0x90)	46	70	127(0x7F) on, 0 off
TRANSPORT 8	1	NoteOn (0x90)	47	71	127(0x7F) on, 0 off
TRANSPORT 9	1	NoteOn (0x90)	48	72	127(0x7F) on, 0 off
TRANSPORT 10	1	NoteOn (0x90)	49	73	127(0x7F) on, 0 off
SOLO/STUDIO MIXDOWN SOLO	1	NoteOn (0x90)	4A	74	127(0x7F) on, 0 off
SOLO/STUDIO PFL SOLO	1	NoteOn (0x90)	4B	75	127(0x7F) on, 0 off
SOLO/STUDIO AFL SOLO	1	NoteOn (0x90)	4C	76	127(0x7F) on, 0 off
SOLO/STUDIO TALKBACK TO STUDIO	1	NoteOn (0x90)	4D	77	127(0x7F) on, 0 off
Master SOLO	1	NoteOn (0x90)	4E	78	127(0x7F) on, 0 off
SOLO/STUDIO CLEAR SOLO	1	NoteOn (0x90)	4F	79	127(0x7F) on, 0 off
SOLO/STUDIO SOLO LEVEL	1	NoteOn (0x90)	50	80	127(0x7F) on, 0 off
SOLO/STUDIO STUDIO LEVEL	1	NoteOn (0x90)	51	81	127(0x7F) on, 0 off
SOLO/STUDIO TALKBACK LEVEL	1	NoteOn (0x90)	52	82	127(0x7F) on, 0 off
PHONES 1 AUX 9-10	1	NoteOn (0x90)	53	83	127(0x7F) on, 0 off
PHONES 1 COPY TO MIX	1	NoteOn (0x90)	54	84	127(0x7F) on, 0 off
PHONES 1 AUX 11-12	1	NoteOn (0x90)	55	85	127(0x7F) on, 0 off
PHONES 1 CONTROL ROOM	1	NoteOn (0x90)	56	86	127(0x7F) on, 0 off
PHONES 2 AUX 9-10	1	NoteOn (0x90)	57	87	127(0x7F) on, 0 off
PHONES 2 COPY TO MIX	1	NoteOn (0x90)	58	88	127(0x7F) on, 0 off
PHONES 2 AUX 11-12	1	NoteOn (0x90)	59	89	127(0x7F) on, 0 off
PHONES 2 CONTROL ROOM	1	NoteOn (0x90)	5A	90	127(0x7F) on, 0 off
CONTROL ROOM 2 TRACK A	1	NoteOn (0x90)	5B	91	127(0x7F) on, 0 off
CONTROL ROOM 2 TRACK B	1	NoteOn (0x90)	5C	92	127(0x7F) on, 0 off
CONTROL ROOM 2 TRACK C	1	NoteOn (0x90)	5D	93	127(0x7F) on, 0 off
CONTROL ROOM DIGITAL IN 1	1	NoteOn (0x90)	5E	94	127(0x7F) on, 0 off
CONTROL ROOM DIGITAL IN 2	1	NoteOn (0x90)	5F	95	127(0x7F) on, 0 off
CONTROL ROOM MASTER L-R	1	NoteOn (0x90)	60	96	127(0x7F) on, 0 off
CONTROL ROOM MONO	1	NoteOn (0x90)	61	97	127(0x7F) on, 0 off
CONTROL ROOM NEARFIELD	1	NoteOn (0x90)	62	98	127(0x7F) on, 0 off
CONTROL ROOM MAIN	1	NoteOn (0x90)	63	99	127(0x7F) on, 0 off
CONTROL ROOM DIM	1	NoteOn (0x90)	64	100	127(0x7F) on, 0 off

CONTROL ROOM TALKBACK	1	NoteOn (0x90)	65	101	127(0x7F) on, 0 off
SETUP GROUP	1	NoteOn (0x90)	66	102	127(0x7F) on, 0 off
SETUP GENERAL	1	NoteOn (0x90)	67	103	127(0x7F) on, 0 off
SETUP PLUGINS	1	NoteOn (0x90)	68	104	127(0x7F) on, 0 off
SETUP DIGITAL I/O	1	NoteOn (0x90)	69	105	127(0x7F) on, 0 off
1-24 LEVEL TO TAPE	1	NoteOn (0x90)	6A	106	127(0x7F) on, 0 off
1-24 DIGITAL TRIM	1	NoteOn (0x90)	6B	107	127(0x7F) on, 0 off
Master Aux 11-12	1	NoteOn (0x90)	6C	108	127(0x7F) on, 0 off
Master Aux 11-12 PAN	1	NoteOn (0x90)	6D	109	127(0x7F) on, 0 off
MASTER	2	NoteOn (0x91)	30	48	127(0x7F) on, 0 off
SHIFT	2	NoteOn (0x91)	31	49	127(0x7F) on, 0 off
1-24	2	NoteOn (0x91)	2E	46	127(0x7F) on, 0 off
25-48	2	NoteOn (0x91)	2F	47	127(0x7F) on, 0 off

9 Support

If you have problems with your probox, please contact me via email.

I need a detailed problem description:

Checklist	Yes/no
Operating system	
DAW Software + version	
used driver version	
Picture/description of connection of the probox	
is the system booting ?	
does the config menu work?	
does the USB Midi ports are available ?	
Controller seen by DAW ?	
Video of the problem would be great	
please describe as detailed as possible the Malfunction of the system	

Support email: probox@weritz.com

10 Warranty

As this is a non commercial product I can give you no warranty. But I will help you with your problems and support firmware updates if necessary.

Every ProBox that is delivered is tested for their 100% functionality. How is this done?

I've developed a testprogram that checks all communication commands on all four USB ports and the serial connection to the d8b console. E.g. if you press a button on your d8b it sends out a command via the serial connection to the probox. The probox translates that to a midi command on USB1-4 and sends this out. All commands that were supported by the ProBox are checked via this testprogram for every single command. So you can be sure that you received a 100% working unit.

11 Changelog

Here you can see the changes of the software updates and manual changes.

From version	To version	changes
V 1.0	V1.01.13	<ul style="list-style-type: none">generic meterbridge commands added <i>8.0 midi implementation table</i>changes for protocol settings <i>7.2 protocol settings (Logic/Mackie)</i>changelog added
V1.01.13	V1.01.17	<ul style="list-style-type: none">Main/Nearfield output swapped (now matching to the buttons)Meterbridge can be switched off (for later d8b Audio use)Menu added (Emulation mode two different MCU+2XT, or 3 XT)Fader Motor Off and fader send off addedReceive and send buffer increased
