## PowerMate<sup>3</sup>/CMS<sup>3</sup> Application Note 1

# Recording using Cubase LE 6

This document describes how to record a live event using the DIGITAL AUDIO INTERFACE of the PowerMate<sup>3</sup>/ CMS<sup>3</sup>. In preparation for the recording VST connection presets (for live and studio mode) are created in Cubase LE 6.

HINT: In the following it is assumed that the PowerMate<sup>3</sup>/CMS<sup>3</sup> is on, configured for the live event, connected with the PC/Mac using an USB 2.0 port (+ USB 2.0 cable) and the USB driver was successfully installed.

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## 1. Preparations

•Start the Cubase LE 6 application on your PC/Mac. The "Projekt Assistent" dialog appears. •Click on the "More" button.

Illustration 1: Cubase LE 6 Startup-Optionen



•Select the "Empty" template from the Templates list an click on the "Create" button. A new empty project appears in the main window.

- •Open menu Devices > Device Setup...
- •The "Device Setup" dialog appears.

Illustration 2: Device Setup...

Cubase LE 6 - [Cubase LE 6 Project - Untitled1]		_O×
< File Edit Project Audio MIDI Media Transport	Devices Window Help	_8×
♥ IE (®) II K X D □ > ( No Object Selected	MOD Device Manager Maxer Maxer Information Record Time Max VST Connections VST Connections VS	
	VST Performance F12	
	Video Player F8	×
	Virtual Keyboard Alt+K	T I
	Show Panel	
	Device Setup	
	L 0:00:00.000 € CLCK 0FF II¥	
	New/Mix = R 0:00:00.000 12/51 22 55 57 120.000 120.000	
-		**

•Select the entry "VST Audio System" in the Devices section of the dialog.

Illustration 3: VST Audio System

WIDI       MIDI         Or MDI Pot Setup       Jund         ASIO for DYNACORD USB-AUDIt       ASIO Driver         Ound       ASIO for DYNACORD USB-AUDIt         Ound       ASIO for DYNACORD USB-AUDIt         Output       ASIO for DYNACORD USB-AUDIC         VST System Lnk       Output         Advanced Options       Set to Defaults         Boost       Audo Promy         Adjust for Record Latency       Osamples         Adjust for Record Latency       Samples         Adjust for Record Shift       Help         Help       Reset	👉 Device Setup	×
Devices       ASIO for DYNACORD USB-AUDIC       ASIO Driver         MIDI       Month Mitter       No Driver       Jund         Transport       ASIO DirectX Full Duplex Driver       Jund         Work       ASIO for DYNACORD USB-AUDIC       Output Latency:       S.805 ms         W Sample Rate:       44.100 kHz       HW Pull Up/Down:       Off         VST System Link       Advanced Options       Set to Defaults         Boost       Audio Promy       Audio Promy         Activate Steinberg Audio Power Scheme       2 Seconds       Disk Preload         Adjust for Record Latency       Samples       Record Shift         Help       Reset       Apply	+ - K	VST Audio System
MIDI MIDI Port Setup Protoof Time Max Mobile Protocol Time Max Max Max Max Max Mobile Protocol Time Max Mobile Proto	Devices	ASIO for DYNACORD USB-AUDI ASIO Driver
ASIO DirectX Full Duplex Driver Record Time Max ASIO DirectX Full Duplex Driver ASIO OF DIVALCORD USB-AUDIO Option Service ASIO For DYNACORD USB-AUDIO VST System Link Advanced Options Set to Defaults Boost Audio Priority Multi Processing Activate Steinberg Audio Power Scheme Seconds Adjust for Record Latency Samples Record Shift Help Record Shift Help Record Shift	- Can MIDI	No Driver ound
Asto for OWNACORD USB-AUDIO     Vor Machine Max     Asto for OWNACORD USB-AUDIO     Vor Machine Max     Vor Machine     Vor Vor Machine     Vor Vor Machine     Vor Machine     Vor Machine	- C Transport	ASIO DirectX Full Duplex Driver
Wdee       Output Latency:       5.805 ms         W Wdee Player       HW Sample Rate:       44.100 kHz         HW Sample Rate:       44.100 kHz         HW Full Up/Down:       Off         VST System Link       HW Full Up/Down:       Off         Advanced Options       Set to Defaults         Boost       Audio Priority         Multi Processing       Activate Steriberg Audio Power Scheme         2 Seconds       Disk Preload         Adjust for Record Latency       0 Samples         Help       Reset       Apply	Record Time Max	✓ ASIO for DYNACORD USB-AUDIO
HW Sample Rate: 44.100 kHz HW Sample Rate: 44.100 kHz HW Pull Up/Down: Off Advanced Options Set to Defaults Reost Audio Phonty Multi Processing Activate Steinberg Audio Phonty Seconds Disk Preload Adjust for Record Latency Samples Charles Apply	Video	Output Latency: 5.805 ms
L ASIO for DYNACORD USB-AUDIO - VST System Link Advanced Options <u>Set to Defaults</u> Boost Multi Processing Activate Steinberg Audio Power Scheme 2 Seconds C Adjust for Record Latency Samples Help Reset Apply	VST Audio System	HW Sample Rate: 44.100 kHz
VS1 System Link     Advanced Options <u>Set to Defaults</u> Boost     Audio Priority     Multi Processing     Activate Steinberg Audio Power Scheme     Seconds	ASIO for DYNACORD USB-AUDIO	HW Pull Up/Down: Off
Advanced Options     Set to Defaults       Boost     Audio Priority       Multi Processing       Activate Steinberg Audio Power Scheme       2 Seconds       C Adjust for Record Latency       O Samples       Record Shift       Help       Reset	VST System Link	
Boost     Audio Priority       Multi Processing     Activate Steinberg Audio Power Scheme       Activate Steinberg Audio Power Scheme     Boost Preload       Seconds     Disk Preload       Activation for Record Latency     Becord Shift       Help     Reset     Activity		Advanced Options Set to Defaults
✓ Multi Processing         ▲ Activate Steinberg Audio Power Scheme         2 Seconds       Disk Preload         ✓ Adjust for Record Latency         O Samples       Record Shift         Help       Reset       Apply		Boost   Audio Priority
Activate Steinberg Audio Power Scheme  Seconds  Adjust for Record Latency  Samples  Help Record Shift  Help Reset Apply		Multi Processing
2 Seconds <sup>2</sup> Disk Preload        ✓ Adjust for Record Latency       O Samples <sup>2</sup> Record Shift       Help     Reset     Apply		Activate Steinberg Audio Power Scheme
<ul> <li>✓ Adjust for Record Latency</li> <li>● Samples</li> <li>← Record Shift</li> <li>← Help</li> <li>Reset</li> <li>▲ Apply</li> </ul>		2 Seconds Disk Preload
O Samples     Becord Shift       Help     Reset     Apply		Adjust for Record Latency
Help Reset Apply		0 Samples Record Shift
Heip Reset Apply		Uthe Durt Law
		Reset Apply

•Select "ASIO for DYNACORD USB-AUDIO" from the "ASIO Driver" dropdown menu. •Select "MIDI Port Setup" in the Devices section.

Illustration 4: MIDI Port Setup

			Vicible	State	In ALMIDUR
	DYNACOBD SystemCtd	DYNACOBD SystemCtrl	VIDIDIO	Active	X
In	DYNACORD USB-MIDI	DYNACORD USB-MIDI	×	Active	×
Out	DYNACORD SystemCtrl	DYNACORD SystemCtrl		Inactive	
Out	DYNACORD USB-MIDI	DYNACORD USB-MIDI	×	Inactive	
Out	Microsoft GS Wavetable SW Synth	Microsoft GS Wavetable SW S	×	Inactive	
					>
	Out Out Out	Out DYNACORD SystemCM Out DYNACORD USB-MIDI Out Microsoft GS Wavetable SW Synth	Out         DYNACORD SystemCht         DYNACORD SystemCht           Out         DYNACORD USB-MIDI         DYNACORD USB-MIDI           Out         Microsoft GS Wavetable SW Synth         Microsoft GS Wavetable SW Synth	Out         DYNACORD SystemCht         DYNACORD SystemCht           Out         DYNACORD USB-MIDI         DYNACORD USB-MIDI         [X]           Out         Microsoft GS Wavetable SW Synth         Microsoft GS Wavetable SW §         [X]	Out         DYNACORD SystemCht         Inactive           Out         DYNACORD USB-MIDI         DYNACORD USB-MIDI         Inactive           Out         Microsoft GS Wavetable SW Synth         Microsoft GS Wavetable SW S         Inactive

1.Unselect the checkboxes "Visible" and "In ,All MIDI Inputs'" of the "DYNACORD SystemCtrl" Input and the Checkbox "Visible" of the "DYNACORD SystemCtrl" Output.

2.Close the "Device Setup" dialog by clicking the "OK" button.

## 2. Creating the presets for the live mode

#### HINT: Live mode is available for PowerMate/CMS 1000<sup>3</sup>, 1600<sup>3</sup> and 2200<sup>3</sup> only.

#### 1. Adding outputs

•Open menu Devices > VST Connections (or press the F4 button). The "VST Connections" dialog appears.

Cubase LE 6			-     ×
File Edit Project Audio MIDI Media Transport	Devices Window Help		
🞸 Cubase LE 6 Project - Untitled1	MIDI Device Manager Mixer E3		
	Plug-in Information	. X Ø ∕ Ф 🗞 🕞 🔆 💥 ₩ 🗟 େ T - 🗰 1000 ms Q 1/16 ,	
No Object Selected	VST Connections F4		
	VST Performance F12 Video Player E8		
	Virtual Keyboard Alt+K	5 10 15	
	Show Panel		
	Device Setup		
			₹.
	Keep History	story D 0:00:00.000 + 0:00:00.000 C	
	New/Mix		
	AUTO & OFF		
			×

Illustration 5: Cubase LE 6

### $\bullet \mbox{Open the "Outputs" tab in the "VST Connections" dialog.$

🔶 VST Conne	ections - Outpu	ıts			
Inputs	Outputs				
🕀 🖃 All	Add Bu	s Presets	₽ <b>₽</b>		
Bus Name	Speakers	Audio Device	Device Port	Click	
🖃 🌓 Stere	o Out Stereo	ASIO for DYNACORD USB-AUDIO		Click	<u>^</u>
	eft		USB 1		
R	light		USB 2		
					$\sim$
<					

Illustration 6: VST Connections - Outputs

•If there is already a bus in the "Bus Name" column listed, open the context menu (for Mac: ctrl + click) of the bus and select the entry "Remove Bus". Repeat for all busses listed.

VST Connections - Outputs			_
Inputs Outputs			
🕀 🖃 All 📃 Add Bus Presets 💶 💽 💌	8		
Bus Name Speakers Audio Device	Device Port	Click	
Image: Stereo C Always on Top     ORD USB-AUDIO		Click	
-o Left	USB 1		
	USB 2		
✓ Set "Stereo Out" as Main Mix			
Remove Bus "Stereo Out"			

•Select the entry "2 x Stereo" from the "Presets" dropdown menu. The two busses "Stereo 1" and "Stereo 2" are added.

VST Conn	ections - Outputs					]_
⊞ ⊟ All	Add Bus	Presets	- + +			
Bus Name	Speakers	Audio Device	Stereo 1 x Stereo + 2 x Mono 2 x Stereo 4 x Mono	Device Port	Click	

•Double click on a Bus Name to match the bus names in Cubase and on the PowerMates<sup>3</sup>/CMS<sup>3</sup>. Change the name of bus "Stereo1" to "USB 1-2" and of bus "Stereo 2" to "USB 3-4".

🔆 VST Connectio	ons - Outputs				<u>_   ×</u>
Inputs Ou	Itputs				
⊞ AI	Add Bus	Presets 💶 💌 🖽	-		
Bus Name	Speakers	Audio Device	Device Port	Click	
🖃 🌓 USB 1-2	Stereo	ASIO for DYNACORD USB-AUDIO			<u>^</u>
o Left			USB 1		
o Right			USB 2		
USB 3-4	Stereo	ASIO for DYNACORD USB-AUDIO			
-o Left			USB 3		
····-o Right			USB 4		
					~
1					

Illustration 9: Renaming of outputs for the Live Preset

•Create a new preset including the output configuration by pressing the "+" icon. The "Type In Preset Name" dialog appears. Enter the preset name "Live" in the text field and close the dialog by clicking the "OK" button.



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#### 2. Adding inputs

•Open the "Inputs" tab in the "VST Connections" dialog.

Abbildung 11: Wechsel zu VST-Verbindungen - Eingänge

ĩ	1				
Inputs Ou	tputs				
I 🗆 Al	Add Bus	Presets Live 💌 🖽	3		
us Name	Speakers	Audio Device	Device Port	Click	
🗉 🕼 USB 1-2	Stereo	ASIO for DYNACORD USB-AUDIO			
Left			USB 1		
-o Right			USB 2		
USB 3-4	Stereo	ASIO for DYNACORD USB-AUDIO			
Left			USB 3		
-o Right			USB 4		

•If there is already a bus in the "Bus Name" column listed, open the context menu (for Mac: ctrl + click) of the bus and select the entry "Remove Bus". Repeat for all busses listed.

<i>v</i>				
Inputs	Outputs			
∃⊟ Ali	Add Bus	Presets _	- 🖻 🖻	
us Name	Speakers	Audio Device	Device Port	
∃•∎) <u>Stere</u> o L( o R	Always on Top Add Bus	•	JSE MAS-L MAS-R	
_	✓ Set "Stereo In" as Remove Bus "Ster	: Default Input Bus reo In"		

•Select the entry "1 x Stereo + 2 x Mono" from the "Presets" dropdown menu. One stereo bus "S 1" and two mono busses "M 1" and "M 2" are added.

VST Connect	tions - Inputs				
Inputs	Outputs				
E AI	Add Bus	Presets		]	
			Stereo 1 x Stereo + 2 x Mon 2 x Stereo 4 x Mono		

•Double click on a Bus Name to match the bus names in Cubase and on the PowerMate. Change the name of bus "Stereo 1" to "MAS L/R", of bus "Mono 1" to "AUX 1" and of bus "Mono 2" to "AUX 2".

Illustration 14: Renaming of i	inputs for the Live Preset
--------------------------------	----------------------------

	toute			
∃⊟AI	Add Bus	Presets _	# <b>-</b>	
us Name	Speakers	Audio Device	Device Port	
🗝 🌓 Stereo 1	Stereo	ASIO for DYNACORD USB-AUDIO		
Left			MAS-L / MON 1	
-o Right			MAS-R / MON 2	
Mono 1	Mono	ASIO for DYNACORD USB-AUDIO		
-o Mono			AUX 1	
Mono 2	Mono	ASIO for DYNACORD USB-AUDIO		
Mono			AUX 2	

•Create a new preset including the input configuration by pressing the "+" icon. The "Type In Preset Name" dialog appears. Enter the preset name "Live" in the text field and close the dialog by clicking the "OK" button.

## 3. Creating the preset for the studio mode

#### HINT: Studio mode is available for PowerMate/CMS 1000<sup>3</sup>, 1600<sup>3</sup> and 2200<sup>3</sup> only.

1. Adding inputs

•Open the "Inputs" tab in the "VST Connections" dialog.

•If there is already a bus in the "Bus Name" column listed, open the context menu (for Mac: ctrl + click) of the bus and select the entry "Remove Bus". Repeat for all busses.

VST Connec	ctions - Inputs			
Inputs	Outputs			
E AI	Add Bus	Presets _	- 🖽 🖻	
us Name	Speakers	Audio Device	Device Port	
	Always on Top Add Bus Set "Stereo In" as Remove Bus "Ster	Default Input Bus	MAS-L MAS-R	

•Select the entry "4 x Mono" from the "Presets" Dropdown menu. Four mono busses "Mono 1", "Mono 2", "Mono 3" and "Mono 4" are added.

VST Connections	s - Inputs			
Inputs Outp	outs			
± ⊟ All	Add Bus	Presets	- # #	
sus name	<u>Speakers</u> A		Stereo 1 x Stereo + 2 x Mono 2 x Stereo 4 x Mono	

•Double click on a Bus Name to match the bus names in Cubase and on the PowerMates<sup>3</sup>/CMS<sup>3</sup>. Change the name of bus "Mono 1" to "MON 1", of bus "Mono 2" to "MON 2", ob bus "Mono 3" to "AUX 1" and of bus "Mono 4" to "AUX 2".

Inputs Ou	tputs			
⊞ ⊟ Al	Add Bus	Presets	₽] (P)	
Bus Name	Speakers	Audio Device	Device Port	
🗄 🜓 MON 1	Mono	ASIO for DYNACORD USB-AUDIO		
Mono			MAS-L / MON 1	
MON 2	Mono	ASIO for DYNACORD USB-AUDIO		
Mono			MAS-R / MON 2	
AUX 1	Mono	ASIO for DYNACORD USB-AUDIO		
-o Mono			AUX 1	
AUX 2	Mono	ASIO for DYNACORD USB-AUDIO		
Mono			AUX 2	

Illustration 17: Renaming of inputs for the Studio Preset

•Create a new preset including the input configuration by pressing the "+" icon. The "Type In Preset Name" dialog appears. Enter the preset name "Studio" in the text field and close the dialog by clicking the "OK" button.

## 4. Creating the presets for PowerMate 600<sup>3</sup>/CMS 600<sup>3</sup>

#### 1. Adding outputs

•Open menu Devices > VST Connections (or press the F4 button). The "VST Connections" dialog appears.

Illustration 18:								
Cubase LE 6 File Edit Project Audio MIDI Med	ia Transport Devices Window Help							- 0
No Object Selected	MUL Device Nandger Nord Pug-in Information Record Time Naix VGT Connections VGT Connec	F3 X F4 F12 F8 Alt+K	ℓ / Φ &	× #	1000 ms	- Q 1/16		
		p History / /Mix = 10 OFF	00.000 00	+   	0:00:00.000 ©	CLICK OFF TEMPO TRACK 12/ SYNE INT. O	198 474 0000 (fline	1 <   <

•Open the "Outputs" tab in the "VST Connections" dialog.



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•If there is already a bus in the "Bus Name" column listed, open the context menu (for Mac: ctrl + click) of the bus and select the entry "Remove Bus".

-					_
Inputs Outp	outs				
⊞ AII	Add Bus	Presets 💶 🗨 🛛	88		
Bus Name	Speakers A	udio Device	Device Port	Click	
🗄 🏚 Stereo C	Always on Top	ORD USB-AUDIO		Click	
-o Left	Add Rug		USB 1		
	Autobus		058.2		
~	Set "Stereo Out" as	s Main Mix			
_	Remove Bus "Stere	o Out"			

•Select the entry "2 x Stereo" from the "Presets" dropdown menu. The two busses "Stereo 1" and "Stereo 2" are added.

Inputs Outp	outs				
⊞ AI	Add Bus	Presets			
ous rvame	opeakers	Audio Device	Stereo 1 x Stereo + 2 x Mono 2 x Stereo 4 x Mono	UICK	

•Double click on a Bus Name to match the bus names in Cubase and on the PowerMates 600<sup>3</sup> / CMS 600<sup>3</sup> Change the name of bus "Stereo 1" to "USB 1-2" and of bus "Stereo 2" to "USB 3-4".

Inputs   Ou	tputs				
E E Al	Add Bus	Presets	9		
Bus Name	Speakers	Audio Device	Device Port	Click	
🗄 🐗 USB 1-2	Stereo	ASIO for DYNACORD USB-AUDIO			/
…–o Left			USB 1		
o Right			USB 2		
😑 USB 3-4	Stereo	ASIO for DYNACORD USB-AUDIO			
Left			USB 3		
o Right			USB 4		

•Create a new preset including the output configuration by pressing the "+" icon. The "Type In Preset Name" dialog appears. Enter the preset name "CMS600/PM600" in the text field and close the dialog by clicking the "OK" button.

Inputs Out	puts					
E 🗆 Al	Add Bus	Presets 💶 💌 💌	9			
Bus Name	Speakers	Audio Device	Device Port	Click		
🖻 🌓 Stereo Out	Stereo	ASIO for DYNACORD USB-AUDIO		Click		1
o Left			USB 1			
			USB 2			
Stereo Out 2	Stereo	ASIO for DYNACORD USB-AUDIO				
-o Left			USB 3			
			USB 4			
		CMS800/PM	set Name		Cancel	

#### 2. Adding inputs

•Open the "Inputs" tab in the "VST Connections" dialog.

Abbildung 24:

•If there is already a bus in the "Bus Name" column listed, open the context menu (for Mac: ctrl + click) of the bus and select the entry "Remove Bus".

vsi connec	ctions - Inputs	_	_	
Inputs	Outputs			
⊞ E All	Add Bus	Presets _		
Bus Name	Speakers	Audio Device	Device Port	
	Always on Top Add Bus Set "Stereo In" as Remove Bus "Ster	Default Input Bus	MAS-L MAS-R	
-				

•Select the entry "1 x Stereo + 2 x Mono" from the "Presets" Dropdown menu. One stereo bus "Stereo 1" and two mono busses "Mono 1" and "Mono 2" are added.

llustration	26:			
VST Connect	ions - Inputs Dutputs Add Bus Speakers	Presets Audio Device	Stero 1 x Stero + 2 x Mono 2 x Stero 4 x Mono	
<				

•Double click on a Bus Name to match the bus names in Cubase and on the PowerMate 600<sup>3</sup> / CMS 600<sup>3</sup>. Change the name of bus "Stereo 1" to "MAS L/R", of bus "Mono 1" to "AUX" and of bus "Mono 2" to "MON".

	Add Bue	Presets		
Bus Name	Speakers	Audio Device	Device Port	
AS L/R	Stereo	ASIO for DYNACORD USB-AUDIO		
o Left			MAS-L	
o Right			MAS-R	
🖻 AUX	Mono	ASIO for DYNACORD USB-AUDIO		
Mono			AUX	
E MON	Mono	ASIO for DYNACORD USB-AUDIO		
Mono			MON	

•Create a new preset including the input configuration by pressing the "+" icon. The "Type In Preset Name" dialog appears. Enter the preset name "CMS600/PM600" in the text field and close the dialog by clicking the "OK" button.

## 5. Templates for Cubase LE 6

#### WINDOWS USER

- 1. Click on Start > All Programs > Steinberg Cubase LE 6> Cubase Application Data Folder.
- 2. Create a new subfolder "Project Templates" in the application folder.
- 3. Open the folder on the DVD:
- •"Cubase\_LE/Presets/PowerMate\_1000-3\_1600-3\_2200-3"
- "Cubase\_LE/Presets/PowerMate\_600-3"
- •"Cubase\_LE/Presets/CMS\_1000-3\_1600-3\_2200-3"
- •"Cubase\_LE/Presets/CMS\_600-3"
- 4. Copy the entire folder contents into the folder "Project Templates".
- 5. Start Cubase on the PC.
- 6. Create a new project and select the PM3/CMS3 template.

#### MAC OS X USER

- 1. In Finder click on Go > Home.
- 2. Navigate to Library > Preferences > Cubase LE AI Elements 6 and create a new subfolder "Project Templates".
- 3. Open the folder on the DVD:

•"Cubase LE/Presets/PowerMate 1000-3 1600-3 2200-3"

- "Cubase LE/Presets/PowerMate 600-3"
- •"Cubase\_LE/Presets/CMS\_1000-3\_1600-3\_2200-3"
- •"Cubase\_LE/Presets/CMS\_600-3"
- 4. Copy the entire folder contents into the folder "Project Templates".
- 5. Start Cubase on the Mac.
- 6. Create a new project and select the PM3/CMS3 template.
- 1. Template overview for PowerMate/CMS 1000<sup>3</sup>, 1600<sup>3</sup>, 2200<sup>3</sup>

#### PM<sup>3</sup>/CMS<sup>3</sup> - STEREO

This template allows for easy stereo recording and stereo playback of the device master signal. Please note that "USB Record Routing" of the device must be set to "Live". The "REC SEND & USB OUT" control is used for gain control. For playback of the audio signal the "USB 1-2" input of the device is used.

#### PM<sup>3</sup>/CMS<sup>3</sup> - LIVE

This template allows for easy recording of one stereo and two mono signals for PowerMate/CMS 1000<sup>3</sup>, 1600<sup>3</sup>, 2200<sup>3</sup>. Please note that "USB Record Routing" of the device must be set to "Live". The "REC SEND & USB OUT" control is used for gain control of the stereo signal. The "AUX 1"- and "AUX 2"-faders are used for gain control of the mono signals. For playback of the audio signal the "USB 1-2" input of the PowerMate is used.

#### PM<sup>3</sup>/CMS<sup>3</sup> - STUDIO

This template allows for easy recording of four mono signals for PM/CMS 1000, 1600 und 2200. Please note that "USB Record Routing" on your PowerMate must be set to "Studio". The "AUX 1"-, "AUX 2", "MON 1"- and "MON 2"-faders are used for gain control of the mono signals. For playback of the audio signal the "USB 1-2" input of the device is used.

#### PM<sup>3</sup>/CMS<sup>3</sup> - MIDI

This template serves as a demonstration for the use of virtual instruments. Connect your master keyboard to the MIDI IN jack of the device. The computer-generated sounds are transmitted back to the device over the "USB 1-2" input.

#### PM<sup>3</sup>/CMS<sup>3</sup> - EFFECT

This template serves as a demonstration for the use of virtual effect units. Here, two additional effect units are generated in Cubase, which can be used independently of the integrated effect units of the device. The "AUX1"- and "AUX2"-faders are used as send control of the virtual effect units. For playback of the first effect unit the "USB 1-2" input of the device is used. For playback of the second effect unit the "USB 3-4" input of the device is used.

#### 2. Template overview for PowerMate/CMS 600<sup>3</sup>

#### PM 600<sup>3</sup> / CMS 600<sup>3</sup> - STEREO

This template allows for easy stereo recording and stereo playback of the PowerMate / CMS master signal. The "REC SEND & USB OUT" control is used for gain control. For playback of the audio signal the "USB 1-2" input of the PowerMate is used.

#### PM 600<sup>3</sup> / CMS 600<sup>3</sup> - ALL CHANNELS

This template allows the recording and playback of two mono and one stereo track. The "AUX" and "MON" faders and the "REC SEND OUT & USB" control are used for gain control. The recording is send back via the "USB 1-2" and "USB 3-4" input of the device.

#### PM 600<sup>3</sup> / CMS 600<sup>3</sup> - MIDI

This template serves as a demonstration for the use of virtual instruments. Connect your master-/midi- keyboard to the MIDI IN jack of the device. The computer-generated sounds are transmitted back to the PowerMate over the "USB 1-2" input.

#### PM 600<sup>3</sup> / CMS 600<sup>3</sup> - EFFECT

This template serves as a demonstration for the use of virtual effect units. Here, two additional effect units are generated in Cubase, which can be used independently of the integrated effect units of the device. The "AUX"- and "MON"-faders are used as send control of the virtual effect units. For playback of the first effect unit the "USB 1-2" input and for playback of the second effect unit the "USB 3-4" input of the device is used.

### 6. Recording in Live mode

#### HINT: Live mode is available for PowerMate/CMS 1000<sup>3</sup>, 1600<sup>3</sup> and 2200<sup>3</sup> only.

#### 1. Loading the live presets

•Select the Live setting in the "USB Record Routing" dialog of the PowerMate/CMS. Please refer to the Power-Mate/CMS Owner's manual for details.



•Open menu Devices > VST Connections (or press the F4 button). The "VST Connections" dialog appears.

Cubase LE 6		
File Edit Project Audio MIDI Media Transport	Devices Window Help	
👉 Cubase LE 6 Project - Untitled1	MIDI Device Manager	
	Plug in Information	
	Record Time Max	
No Object Selected	VST Connections F4	
no object science	VST Performance F12	
ms (	Video Player F8	
	Virtual Keyboard Alt+K	
	Show Panel	
	Device Setup	
	_ Keep History	
	New/Mix	
	HUTO & OFF	

Illustration 29: Cubase LE 6

#### •Open the "Outputs" tab in the "VST Connections" dialog.

Illustration 30: VST Connections - Outputs

🞸 VST Conne	ections - Outputs				
Inputs	Outputs				
⊞ ⊟ All	Add Bus	Presets 💶 🐨	-		
Bus Name	Speakers	Audio Device	Device Port	Click	
🖻 🔹 USB	1-2 Stereo	ASIO for DYNACORD USB-AUDIO			~
	.eft		USB 1		
	Right		USB 2		

•Select the entry "Live" from the "Presets" dropdown menu.

ustration 31	: Preset	"Live"			
📀 Cubase LE 6 - [VS	T-Verbindunge	n - Ausgänge]	ن م ال		
📀 Datei Bearbeit	ten Projekt /	Audio MIDI Me	dien Transport Geräte Fe	nster Hilfe	- 8
Eingänge Ause	<b>jänge</b>   is hinzufügen	Presets -	- # #		
Bus-Name	Lautsprecher	Audiogerät	Live	ort	Click
- • • Stereo 	Stereo	ASIO for DYNA(	Stereo 1 x Stereo + 2 x Mono 2 x Stereo 4 x Mono		
<					>

•Open the "Inputs" tab in the "VST Connections" dialog.

Abbildung 32: Wechsel zu VST-Verbindungen - Eingänge

Inputs Ou	tputs				
E E AI	Add Bus	Presets Live - E	-9		
Bus Name	Speakers	Audio Device	Device Port	Click	
🕂 🜓 USB 1-2	Stereo	ASIO for DYNACORD USB-AUDIO			^
			USB 1		
o Right			USB 2		
- USB 3-4	Stereo	ASIO for DYNACORD USB-AUDIO			
…–o Left			USB 3		
o Right			USB 4		

•Select the entry "Live" from the "Presets" dropdown menu.

Illustration 33: Auswahl des Live-Presets

T Connection	s - Inputs				
Inputs 0	Dutputs				
E AI	Add Bus	Presets	Live 💌 🕀 🕒		
Bus Name	Speakers	Audio Device	Studio	rt	
🕂 🌒 MAS L/F	R Stereo	ASIO for DYNACO	✓ Live		
o Left			Stores	ON 1	
o Righ	nt		Stereo	ION 2	
AUX 1	Mono	ASIO for DYNACO	1 x Stereo + 2 x Mono		
o Mon	10		2 x Stereo		
- AUX 2	Mono	ASIO for DYNACO	4 x Mono		
o Mon	10		AUX 2		

•Close the "VST Connections" dialog. The inputs and outputs in Cubase LE 6 are now configured for recording in live mode.

2. Adding Tracks

•Select the audio track "Audio 01". •Open the Channel section of the Inspector. The channel fader of the audio track is shown.

Illustration 34: Setting the level

Cubase LE 6 - [Cubase LE 6 Project - Untitled1]     File Edit Project Audio MIDI Media Transport Devices Window Helo	_ 🗆 🗙
♥■ ® ♣• KN ┛ □ > ● N□>>@ X / 4 > □ + ₩ #821- #1000 ms - Q 1/16	
No Object Selected	
♦ No Track Preset Ø 10151 12100 0 5 10 15	. D
	× _
Equalizers	
Sends Q	
Channel	
3 0 0:00:00.000 0 CUKK OFF INK	
	-
Notepad 🗊	

•Activate the loudspeaker icon "Monitor" next to the channel fader.

•Use the REC SEND & USB OUT control of the PowerMate/CMS to set the level of the MAS L/R audio signal sent via the DIGITAL AUDIO INTERFACE to the highest possible level without clipping. If the signal clips, the "USB" indication in the display of the PowerMate<sup>3</sup>/CMS<sup>3</sup> changes to "MASTER".

•Use the channel fader in Cubase LE 6 to set the signal level so it never exceeds the marking in the VU meter.

Illustration 35	: Marking	in VU meter
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•Repeat the last five steps for audio tracks "Audio 02" and "Audio 03". Use the AUX faders of the PowerMate<sup>3</sup>/ CMS<sup>3</sup> to set the level of the AUX 1/2 audio signal sent via the DIGITAL AUDIO INTERFACE. If the signal clips, the "USB" indication in the display of the PowerMate<sup>3</sup>/CMS<sup>3</sup> changes to "AUX 1" or "AUX 2"

#### 3. Recording

•Activate the "Record enable" icon of all audio tracks to be recorded.

Illustration 36: Select the audio tracks to be recorded

•Click the "Record" button in the Transport Panel to start recording. Click the "Stop" button to stop recording.

Illustration 37: Transport Panel



#### 4. Playback

•Click the "Goto Previous Marker / Zero" button in the Transport Panel to set the cursor to the start of the recording.

•Click the "Play" button to start the playback. The signal is available at the stereo input channel USB 1-2 of the PowerMate / CMS.

## HINT: For more details about using Cubase LE 6 please refer to the Cubase documentation, found in Help > Documentation.