# Installation Instructions





# DM KONTROL and DM801 Software



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## **Getting Started with DM KONTROL and DM801**

DM KONTROL is a software application that can be used to create customised control screens for a DM8000 DSP using DM801 as the bridge. After the programmer completes the DM KONTROL design and downloads to a DM801, then a user can reopen this design and, through DM801, control a DM8000 DSP across an Ethernet connection, wired or wireless, using a Windows PC.

## DM KONTROL and DM801 Setup

Devices and Components List:

- DM8000
- DM801
- PC with DM KONTROL and DM DESIGNER applications (Windows® 7 or later)
- PoE-equipped Ethernet switch
- Ethernet and RS232 cables

Connect as below:

### **Ethernet and serieal connections**



**NOTE:** RS232 3rd Party Control connection is only required for 3rd party systems using this method. Be sure to connect the DM8000 to RS232 Port 2 on the DM801. 3rd Party Control connection using IP should address port 10000 at the DM801's IP address.

#### **Setup Procedure**

To set up your DM801 with DM KONTROL, follow these steps:

- 1. Open DM DESIGNER software to see the IP address of the DM801, and to connect with DM8000 device.
- 2. Upgrade the DM8000 device firmware to the current release to ensure operation with the DM801.
- 3. Set up the DM8000 serial port to accept commands from the DM801 in the DSP Designer software by going to View>Devices>Serial port settings and applying the settings shown below:

Serial Port Settings										
Device Name: DK_003										
<ul> <li>Use DM8000 Serial Port</li> <li>Use DM801 Serial Port</li> </ul>										
Baud Rate	115200	-								
Usage	None	-								
0	K Cancel									

4. Open DM KONTROL software and start the network service by clicking the icon. The Device Connect window will open. Here you can check if the DM8000 is connected to the DM801- if the indicator is red- check your serial connection between the DM801 and the DM8000. You can also see if both the DM801 and DM8000 are running compatible firmware versions- if there's no green check mark shown, a firmware update is required. If a DM KONTROL surface has previously been sent to this DM801, that surface can be opened from this window.

Devi	ice Cor	nnect							
Devi	ice List								
	ID	System Type	System Name	System IP	Protected	d Compatible	DM8000	Оре	n Control Surface
		DM801	Davids DM801	10.0.1.4				Sen	d Control Surface
								Us	e Local Surface
								Save	e Control Surface
								Clea	r Control Surface
De	tail				_		_		
	D	M801 Firmware Versi	on : 3.1.0.2	DM801 /	App Version :	3.1.0.1			
			on : 2.9.9.0			Davids DM8k			Rescan
			SN : S170300237817	DM8000 Device ID : DMS170300237817					
		DM8000 IP Addre	ss : 0.0.0.0	DM8000 M	ac Address :	10-3F-3F			Close

5. To design a new control surface, click the icon for 'Take back all device's', and select "Take back all devices" button from the pop up window:

Take back all devices									
D	evice List								
ſ	ID	System Type	System Name	System IP	Protected	Compatible	DM8000	Take back all devices	
		DM801	Davids DM801	10.0.1.4	<b></b>	$\checkmark$	9		
								Rescan	
								Close	

- 4 DM KONTROL and DM801 Software
- 6. The left window, 'Device Modules' will display all available DM8000 design modules:



7. Design a control surface by dragging and dropping the modules you want to operate using DM KONTROL and arrange the modules as desired on the control screen. Your control surface can include module from several DM8000 devices:



8. After your control surface design is complete, send the DM KONTROL design to the DM801 device by clicking 'Start Service' if from the toolbar, and then select 'Send Control Surface' from the Device Connect display that opens up:

Device C	onnect						×		
Device Lis									
	System Type	System Name	System IP	Protected	Compatible	DM8000	Open Control Surface		
	DM801	Davids DM801	10.0.1.4	<b>_</b>		۲			
							Send Control Surface		
							Use Local Surface		
							Save Control Surface		
							Clear Control Surface		
Detail									
					1.0.1				
1					vids DM8k		Rescan		
					DMS170300237817				
	DM8000 IP Addre	ss : 0.0.0.0	DM8000 M	lac Address : 10	-3F-3F		Close		

9. After sending the control surface to the DM801, you can open the control surface from your computer by clicking the 'Start Service' 🕍 icon and selecting 'Open Control Surface':

Device (	Connect						×
Device Li	st						
	System Type	System Name	System IP	Protected	Compatible	DM8000	Open Control Surface
	DM801	Davids DM801	10.0.1.4	<u></u>			
							Send Control Surface
							Use Local Surface
							Save Control Surface
							Clear Control Surface
Detail							
					ivids DM8k		Rescan
		N : S170300237817			4S170300237B17		
	DM8000 IP Addre	ss : 0.0.0.0	DM8000 M	lac Address : 10	-3F-3F		Close

10. After you open the control surface, DM KONTROL can operate the DM8000 in real time:

DM801-121111								0401-5100												
1 2		4				8	9	10												
• •	•	•	•	•	•	•	•	•		1	2	3	4	5	6					
0.0 0.0	. 0.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0		Mute	Mute	Mute	Mute	Mute	Mute				•	•
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Unmute Unmute	Unmute	Uomute	Mute	Mute	Mute	Unmute	Unmute	Unmute		-30 = =	-30	-30	-30	-30 -40	-30 -40				12	2
12	12	12	12	12	12	12	12	12 .	÷ §		-50 E	-50	-50	-50	-50					
	-10	-10	-10	-10	-10	-10 ===	-10	-10-1-	i i	*==	-80	-80	-80	-60	-80					
	-30 -40				200 1		38 E E			-100	-100	-100	-100	-100	-100					
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-80		-80	-50	-90 = =	-90	-80	-90	-90		Invert	Invert	Invert	Invert	Invert	Invert				-100.0 📮 0	.0
00 - 00		0.0	00	0.0	0.0	0.0	0.0	12.0		24.0	24.0	24.0	24.0	24.0	24.0				Invert I	nvert
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									ě i k	1994	-45 -54	-54	2454	244	2454	9454 -54	244.54			
										-64	-64	-64	-64	-64	-64	-64	-64			
										-04.00	-00.37	-03.43	-67.95	-04.05	-00.00	-03.90	-03.43			

11. If you want to save the control surface while not running the design, you can select 'Save Control Surface'.

### Control hide/unhide, names and colours

If specific controls are not immediately required, or you wish to hide controls, click the padlock to unlock the module container. Once the container is unlocked, you may delete controls you don't want, and reposition and resize the controls you do want to use.

Custom fader caps and colours, plus button names and colours and more can all be set up using the 'Preferences' pane for each selected control.

NOTE: In a single control screen, DM KONTROL can support control of several DM8000s (each DM8000 will need to be connected to its own DM801).

To easily find the control module belonging to each device, add one Container 🔲 for each device as above.

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### DM KONTROL customised design

DM KONTROL supports customised design for different control items. You can select any item directly from the toolbar.

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#### To start a new design

To start a new design, follow these steps:

1. Start new design by clicking

or press 'CTRL+N' and DM KONTROL will create default page as 'Page1':



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2. If multiple pages are desired for separate devices, click 'Open Page Dialog' and press 'Add'. This action creates 'Page 2':



3. In this window you can also 'Delete', arrange page position 'Up' and 'Down' and 'Rename' pages:

Page Selection	×
View Page: Page2	
Page1 Rege2	ОК
	Cancel
	Add
	Delete
	Up
	Down
Name: Page2	Rename

#### To customise controls

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icon

You can add a control item by clicking these icons in the toolbar:

For example, we will add a slider or level control:



You will need to make sure your custom control is mapped to an actual real-world DSP device. To do this, you will need to access the control's Properties and select the 'Target Device' and 'DSP Instance Tag' for each control item.

It's also possible to modify an existing module that is already part of the DM8000 design. First, you must unlock the control's container by clicking the padlock

÷ Chan 1 Label Label Label Label Label Mute Mute Mute Mute 12 --10 -20 -30 -40 -50 -60 -70 --40 -50 -60 -70 -÷ ÷ -56.1 🛓 -36.9 -7.6 -8.1 -32.6 -13.0 ÷

in the top right of the control screen window.

Then, select 'Target Device' & 'DSP Instance Tag' for that control.



You can also customise the look of any control by alerting its colours or type of graphic used for that control in the properties for each control.

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#### **Zhongshan Eurotec Electronics Limited**

No. 10 Wanmei Road, South China Modern Chinese Medicine Park, Nanlang Town, 528451, Zhongshan City, Guangdong Province, China