

Instruction Manual WSR-DMX

Wired DMX Controller

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2024 Version 2.0.0



For programming system programming information: Wired system setup guide.

For a general overview: Wired RAK application sheet.

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1 What is the WSR-DMX?

The WSR-DMX is a 15-Channel DMX controller used on a Rako Wired network and can interface with DMX controllable devices such as RGBW lights and Fibre Optics.

2 Inputs

The WSR-DMX has two input options for the DMX input connection, either an RJ45 cable can be used, or a suitable 2-core and shield cable.

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The Rako Wired network also has two connection options, either the RJ11 socket can be used with the supplied RJ11 cable, or a CAT5/CAT6 cable can be used on the daughterboard.

<u>NB</u>

It is essential to set the correct termination on the daughterboard if it is used, for more information, see Terminations.



<u>3 Installation</u>

Installation should only be carried out by a competent electrician.



STEP 4	Replace the cover and replace the screws.

4 Terminations

It is important to terminate WSR-DMX correctly otherwise the wired system will not function. The termination that is required depends on the nature of the installation and the position of the RAK-LINK within the system.

No Term - Both Jumpers removed

Used when the WSR-DMX is not at the end of line. This is usually identifiable by two cables being punched down to the WSR-DMX.

Term - Jumper fitted across 1+2 & 4+5

Used when the WSR-DMX is "end of line" in a daisy chain configuration.

Star Term - Jumper fitted across 2+3 & 5+6

Used when the WSR-DMX is "end of line" in a STAR wire configuration.

5 Programming the WSR-DMX

The following steps assume:

- A Project File has been created
- Rooms have been added
- Channels have been added
- A HUB or a RAMPI has been set up as a communications device



If any of the above are still required, see the <u>Wired system setup guide.</u>

- In Rasoft Pro, go to File > New Device



- A Device menu will pop up, select the WSR-DMX and select 'Next'

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- Give the WSR-DMX device a name and select 'Next'

Name Device
Device Name uss-ows Device Name Well Feature
Help clack Next an Finish Cancel

- Assign a Room and Channel and select 'Next'

Assign to room	
01	ptions
W3	R-DMX: Wall Peakare
Asi	lociate to room
	Uving Room (Rm: 21)
	prints to channel
	the second se
	Nali reature (C.F. 1
Help	< Back Next > Finish Cancel

<u>NB</u>

For more than one Channel, select the first Channel, subsequent Channels will automatically be assigned.

- To put the device into setup mode, press and hold the button on the top right of the WSR-DMX, and the LED will begin to flash. Release the button; the LED should continue to flash, and the setup wizard will show 'Device Found'

Device F	ound				
	Help	< Back	Next >	Finish	Cancel

- Select 'Finish', the device is now paired and in the project file.

5 Setting DMX Driver Addresses

DMX drivers require an address in order to be controlled by the WSR-DMX, the number which is set on the DMX driver will relate to the starting address in the Room the WSR-DMX is programmed in, for example:

DMX Driver Address	Rako Channel Number
001	1
002	2
003	2
004	3
005	4

<u>NB</u>

Although the addressing structure above is the most common, DMX drivers vary in their configuration, read the manufacturer's instruction manual for specific instructions.

<u>6 Colour Wheel</u>

If the WSR-DMX is used for colour control, the outputs on the WSR-DMX can be controlled using a colour wheel in the Rako App, where selecting a colour will automatically mix the Channels without needing to do it individually.

The colour wheel is not enabled by default, for a colour wheel to show in the Rako App, the Channels need to be labelled as below:

Example:

A colour wheel in the App called "Feature" would have the following channel names:

0% 😌 Red Feature	
0% 😌 Blue Feature	
0% 😌 Green Feature	

Thank you for choosing Rako Controls; we hope that you are pleased with your system. Should you require further assistance, please contact us via our website, <u>www.rakocontrols.com</u>, or by calling our customer support helpline on 01634 226666.

