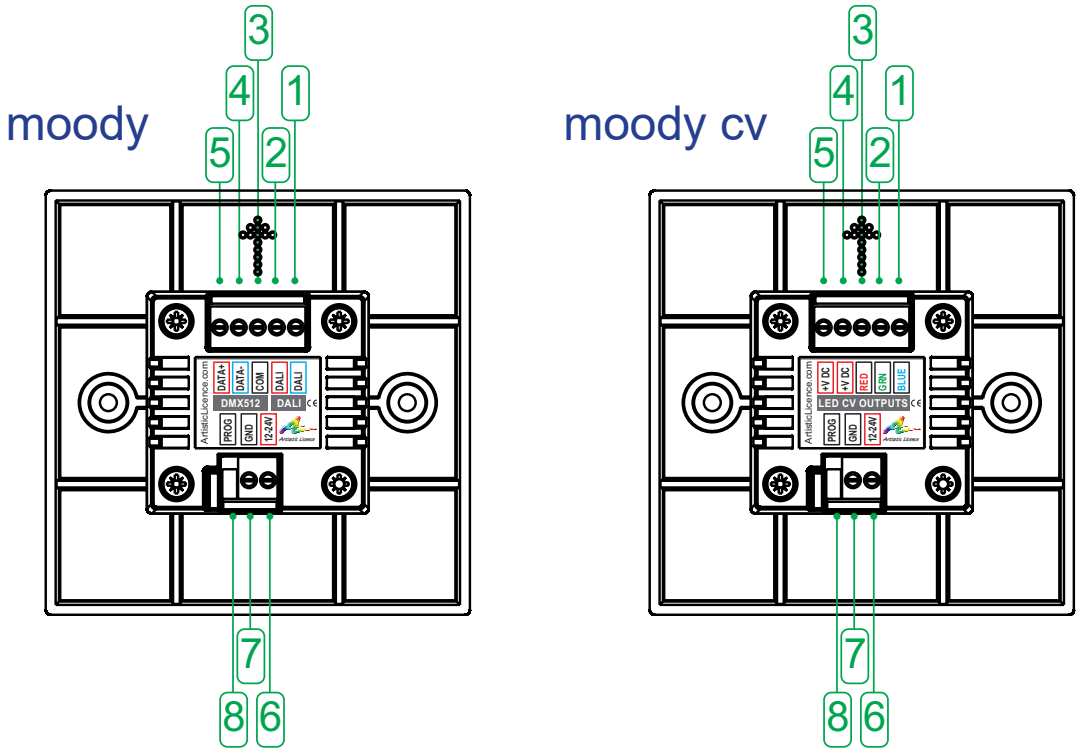
Artistic Licence

moody & moody cv

User Guide

Download the user guide by scanning the following QR code:

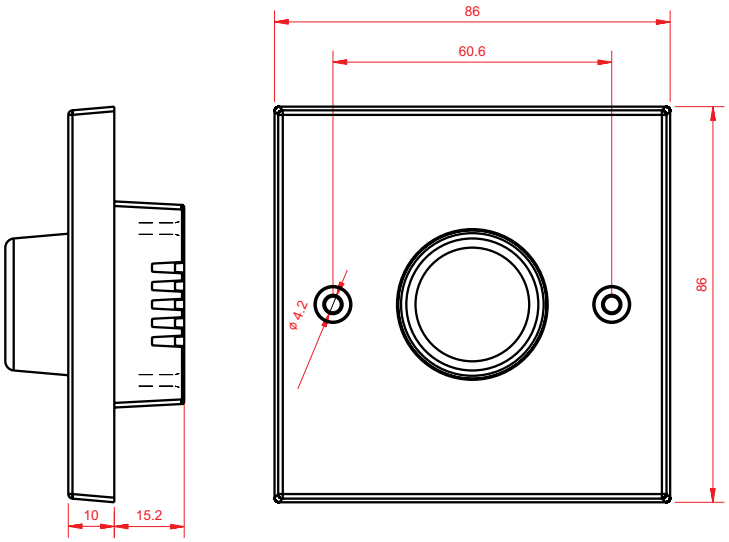
Connections



	moody		moody cv	
Ref.	**Connection Type**	**Description**	**Connection Type**	**Description**
1	DALI O/P	DALI connection	LED O/P	Blue- O/P
2				Green- O/P
3	DMX O/P	DMX COM (Pin 1)		Red- O/P
4		DMX- (Pin 2)		Common+
5		DMX+ (Pin 3)		Common+
6	Power Input	9 - 24 VDC	Power Input	12 - 24 VDC
7		GND		GND
8	Switch*	Programme enable	Switch*	Programme enable

* Remove the programming header (small plastic device) to disable programming

Mounting Diagram



Overview

moody encompasses a range of wall panel controllers with a simple rotary dial form factor, providing control over white lights or colour changers. Outputs are DMX512, DALI or constant voltage (CV) dimming. The standard product is supplied in a UK single-gang wall panel with a dry-line back box. moody requires a (separately purchased) fascia plate which is simply clicked onto the front of the product. The 'Scolmore definity click' cover plates are compatible.

Programming mode is entered and exited by holding down the rotary dial for 3 seconds. The desired parameters are programmed using simple sequences that involve turning the dial to the desired colour or intensity (as shown by the LED colour mimic at the centre of the dial), then pressing it to move on to the next setting. Settings are retained in a non-volatile memory, so power loss will not erase programming.

- moody i1, i6 & i16 – Intensity (denoted by i) controllers for white light with programmable scenes. The number defines the number of channels controlled. O/Ps are DMX or DALI.
- moody x1, x3 & x10 and moody z1, z3 & z10 – RGB (denoted by x/z) zone controller with programmable scenes (both hue and saturation levels can be set). The number defines the number of zones controlled. The wheel rotation is used to adjust the overall intensity (x series) or colour of zone 1 (z series). O/Ps are DMX or DALI.
- moody y1, y3 & y10 – RGBW (denoted by y) zone controller with programmable scenes. The number defines the number of zones controlled. O/Ps are DMX or DALI.
- moody f1, f3 & f10 – Dynamic RGB colour effects (denoted by f) zone controller with programmable colours and fade rate. The number defines the number of zones controlled. O/Ps are DMX or DALI.
- moody cvi1, cvx1, cvz1 & cvf1 – As i1, x1, z1 & f1 but with built-in 12 - 24 VDC constant voltage dimming output instead of DMX & DALI.

moody variant	DMX output	DALI output	CV dimming output	Autofade	Wheel LED mimic	Overall Control	No. of Fixtures	No. of DMX channels
i1	Y	Y*	N	N	Intensity	Intensity	1	1
i6	Y	Y	N	N	Intensity	Intensity	6	6
i16	Y	Y	N	N	Intensity	Intensity	16	16
x1	Y	Y	N	N	Intensity	RGB	1	3
x3	Y	Y	N	N	Intensity	RGB	3	9
x10	Y	Y**	N	N	Intensity	RGB	10	30
y1	Y	Y	N	N	Intensity	RGBW	1	4
y3	Y	Y	N	N	Intensity	RGBW	3	12
y10	Y	Y**	N	N	Intensity	RGBW	10	40
z1	Y	Y	N	N	Colour	RGB	1	3
z3	Y	Y	N	N	Colour	RGB	3	9
z10	Y	Y**	N	N	Colour	RGB	10	30
f1	Y	Y	N	Y	Intensity	RGB	1	3
f3	Y	Y	N	Y	Intensity	RGB	3	9
f10	Y	Y**	N	Y	Intensity	RGB	10	30
cvx1	N	N	Y	N	Intensity	RGB	1	n/a
cvz1	N	N	Y	N	Colour	RGB	1	n/a
cvf1	N	N	Y	Y	Intensity	RGB	1	n/a
cvi1	N	N	Y	N	Intensity	Intensity	1	n/a

* Uses DALI broadcast ** Uses DALI channel addressing rather than groups

The moody i series

- *moody i1*
  - Controls a single intensity channel of DMX or DALI
  - DMX uses 1 channel for intensity
  - DALI uses broadcast for intensity
- *moody i6*
  - Controls 6 intensity channels of DMX or DALI
  - DMX uses 6 channels for intensity
  - DALI uses 6 groups for intensity
- *moody i16*
  - Controls 16 intensity channels of DMX or DALI
  - DMX uses 16 channels for intensity
  - DALI uses all 16 groups for intensity

Operation (moody i series)

From factory, all scene channels are programmed to full. At power on, moody i will automatically fade the master level to full over 5 seconds.

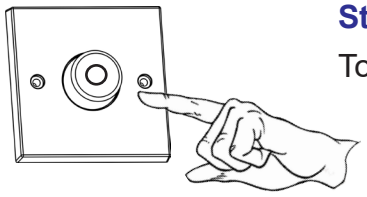
If the lights are on, briefly press the control: moody fades the master level to zero over 5 seconds.

If lights are off, briefly press the control: moody fades the master level to the previously used setting over 5 seconds.

Rotate control clockwise to increase master level. Rotate control counter-clockwise to reduce master level. The LED indictor shows the master level.

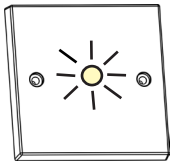
To programme a scene, please see instructions below on how to set the intensity of each channel.

Programming (moody i series)



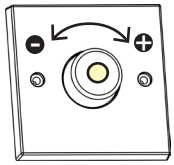
Step 1

To enter programming mode, press and hold control for 3 seconds.



Step 2

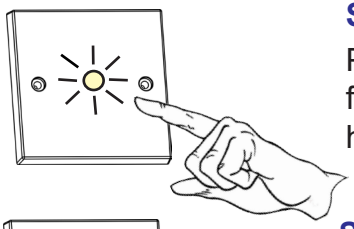
moody's indicator LED flashes white to acknowledge it has entered intensity programming mode, then shows the intensity of the first channel.



Step 3 - set the intensity

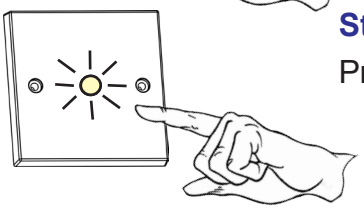
Rotate clockwise to increase intensity.

Rotate counter-clockwise to decrease intensity.



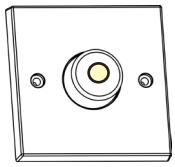
Step 4

Press once to move onto the next channel. moody's indicator LED flashes white to acknowledge. Repeat steps 3 & 4 until all channels have been programmed.



Step 5 - exit programming mode

Press and hold control for 3 seconds to exit programming mode.



Step 6 (end)

moody displays the master level and is now in normal operating mode.

The moody x & z series

- *moody x1, z1*
  - Controls a single RGB zone of DMX or DALI
  - Wheel controls master level (x series) or zone 1 colour (z series)
  - DMX uses 3 channels for colour
  - DALI uses 3 groups for RGB
- *moody x3, z3*
  - Controls 3 RGB zones of DMX or DALI
  - Wheel controls master level (x series) or zone 1 colour (z series)
  - DMX uses 9 channels for colour
  - DALI uses 9 groups (RGB X 3)
- *moody x10, z10*
  - Controls 10 RGB zones of DMX or DALI
  - Wheel controls master level (x series) or zone 1 colour (z series)
  - DMX uses 30 channels for colour
  - DALI uses 30 consecutive short addresses (RGB X 10)

The moody y series

- *moody y1*
  - Controls a single RGBW zone of DMX or DALI
  - Wheel controls master level
  - DMX uses 4 channels for colour
  - DALI uses 4 groups for RGBW
- *moody y3*
  - Controls 3 RGBW zones of DMX or DALI
  - Wheel controls overall intensity
  - DMX uses 12 channels for colour
  - DALI uses 12 groups (RGBW X 3)
- *moody y10*
  - Controls 10 RGBW zones of DMX or DALI
  - Wheel controls overall intensity
  - DMX uses 40 channels for colour
  - DALI uses 40 consecutive short addresses (RGBW X 10)

Operation (moody x & y series)

From factory, all scene channels are programmed to cyan. At power on, moody will automatically fade the master level to full over 5 seconds.

If lights are on, briefly press the control: moody fades the master level to zero over 5 seconds.

If lights are off, briefly press the control: moody fades the master level to the previously used setting over 5 seconds.

Rotate control clockwise to increase master level. Rotate control counter-clockwise to reduce master level. The LED indictor shows the master level and colour of zone 1.

To programme a scene: please see instructions below on how to set the intensity and colour of each zone.

Operation (moody z series)

From factory, all scene channels are programmed to cyan. At power on, moody will automatically fade the master level to full over 5 seconds.

If lights are on, briefly press the control: moody fades the master level to zero over 5 seconds.

If lights are off, briefly press the control: moody fades the master level to full over 5 seconds.

Rotate control clockwise or counter-clockwise to change the colour of Zone 1. The LED indictor shows the master level (always 100%) and colour of zone 1.

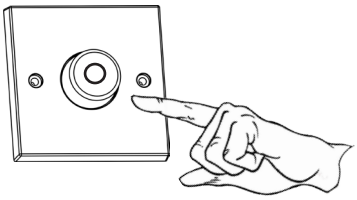
To programme a scene: please see instructions below on how to set the intensity and colour of each zone.

Note on the differences between the moody x, y and z series

A detailed comparison between the variants may be found in the table on page 4. However, in summary, the moody x & z series control RGB fixtures, whereas moody y controls RGBW fixtures.

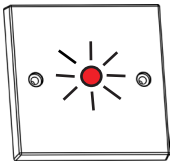
The operation of the z series is the same as the x series, with one important difference: the wheel rotation is used to adjust the colour of zone 1 in the z series, as opposed to master level in the x series. The colour is not stored and will revert to the programmed colour when power is cycled. This makes the z series useful in preserving the intended colour scheme in e.g. a hotel room, while giving guests temporary colour control over one area.

Programming (moody x, y & z series)



Step 1

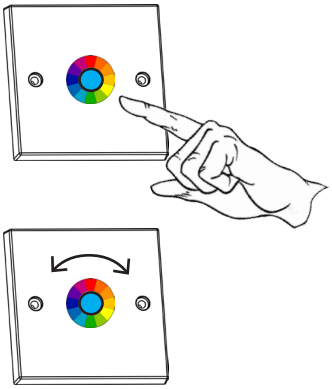
To enter programming mode, press and hold control for 3 seconds.



Step 2 - programme the colour (hue)

moody's indicator LED flashes red to acknowledge it has entered colour programming mode, then shows the colour of the zone.

Step 2 (continued)

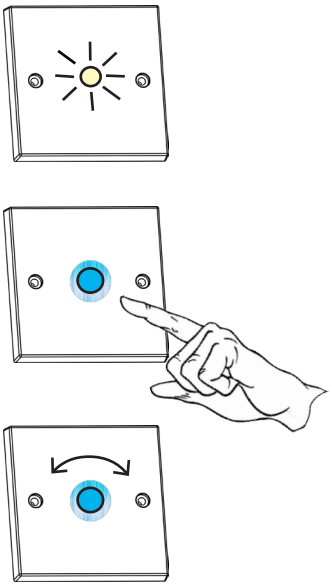


a) Wait 5 seconds; moody will start slowly cycling through the colour palette. When you see the colour you want, briefly press the control.

b) Alternatively, rotate the control clockwise or counter-clockwise to move forwards or backwards through the colour palette. When you see the colour you want, briefly press the control.

N.B. During the programming process, the relevant lights will change to show the effect of your zone programming.

Step 3 - programme the white level / saturation



moody's indicator LED flashes white to acknowledge it has entered white level programming mode, then displays the white level of the zone.

a) Wait 5 seconds; moody will start slowly cycling through the white levels. When you see the white level you want, briefly press the control.

b) Alternatively, rotate the control clockwise or counter-clockwise to increase or decrease the white level. When you see the white level you want, briefly press the control.

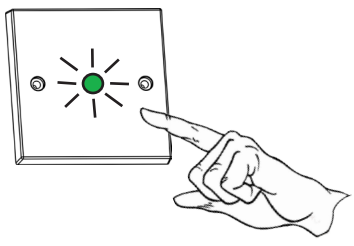
N.B. In moody x or z, the white level is really saturation - it controls the amount of white that is mixed in with the colour and allows shades to be created.

In moody y, the white level is the W output of the RGBW fixture.

Step 4 - programme the other zones

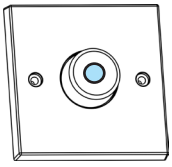
Programming of zone 1 is now complete. moody's indicator LED flashes red to acknowledge that it is ready to accept colour programming for zone 2. Repeat steps **2** & **3** for each zone.

Step 5 - exit programming mode



When programming of all zones is complete, press and hold the control for 3 seconds to exit programming mode. moody acknowledges by flashing green.

Step 6 (end)



moody displays the master level (always 100% for the z series) and colour of zone 1. It is now in normal operating mode.

The moody f series

- *moody f1*
  - Dynamic effects control over a single RGB zone of DMX or DALI
  - Programmable colours and fade rate: choose the start and end colour, and specify the fade rate between them
  - DMX uses 3 channels for colour
  - DALI uses 3 groups for RGB
- *moody f3*
  - Dynamic effects control over three RGB zones of DMX or DALI
  - Programmable colours and fade rate: choose the start and end colour (can be different for each zone), and specify the fade rate between them (same for all zones)
  - DMX uses 9 channels for colour
  - DALI uses 9 groups (RGB X 3)
- *moody f10*
  - Dynamic effects control over ten RGB zones of DMX or DALI
  - Programmable colours and fade rate: choose the start and end colour (can be different for each zone), and specify the fade rate between them (same for all zones)
  - DMX uses 30 channels for colour
  - DALI uses 30 consecutive short addresses (RGB X 10)

Operation (moody f series)

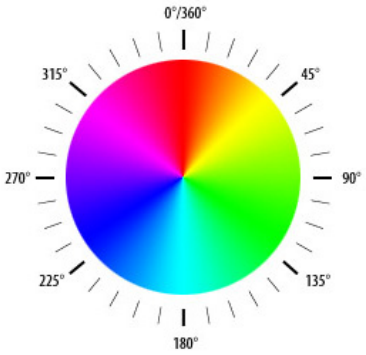
From factory, the default fade time is set to 4 minutes between start and end colour. The end colour(s) are all set to magenta. The start colour(s) begin at red and increase 10 degrees per zone, as shown in the Colour Wheel below

If lights are on, briefly press the control: moody fades the master level to zero over 5 seconds. If lights are off, briefly press the control: moody fades the master level to the previously used setting over 5 seconds.

Rotate control clockwise to increase master level. Rotate control counter-clockwise to reduce master level. The LED indictor shows the master level and real-time colour of zone 1. To programme a dynamic effect, please refer to instructions on the next page.

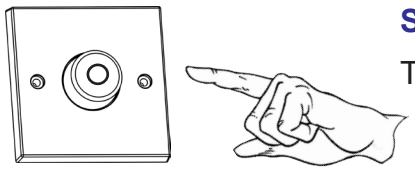
Colour Wheel

Operation of the moody f series is based on a fade from one colour to another. The hue is expressed as an angle as shown in the diagram opposite. moody is designed such that, during programming, the fade goes clockwise in the direction of increasing angle. For example, programming a start colour of red and an end colour of yellow will result in a fade that passes through orange. Contrastingly, programming a start colour of yellow and an end colour of red will result in a fade that passes through green, blue and magenta.



During operation, once the end colour is reached, the colour sequence is reversed to avoid a sudden discontinuity of colour.

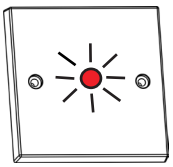
Programming (moody f series)



Step 1

To enter programming mode, press and hold control for 3 seconds.

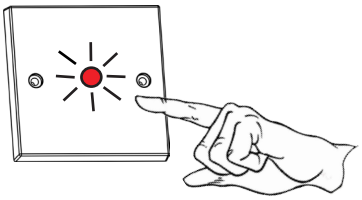
Step 2 - programme the fade time



moody acknowledges by flashing a colour that indicates the currently programmed fade rate (as shown in chart opposite).

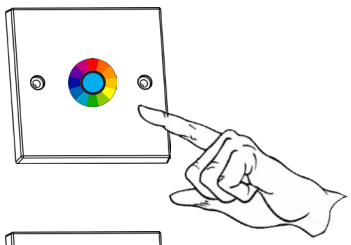
Rotate control clockwise or counter-clockwise to increase or decrease the fade rate (colour will change accordingy). When you attain the desired the fade rate, briefly press the control.

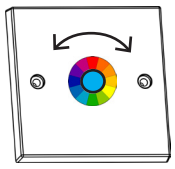
Colour	Start-to-end time (min)
Red	0.5 - 15
Orange	15 - 30
Yellow	30 - 45
Green	45 - 60
Cyan	60 - 75
Blue	75 - 90
Pink	90 - 105
Magenta	105 - 120



Step 3 - programme the start colour (hue)

moody's indicator LED flashes red to acknowledge it has entered start colour programming mode, then shows the start colour of the zone. (Please read 'Colour Wheel' note on page 8 before programming colour).

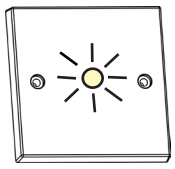




a) Wait 5 seconds; moody will start slowly cycling through the colour palette. When you see the colour you want, briefly press the control.

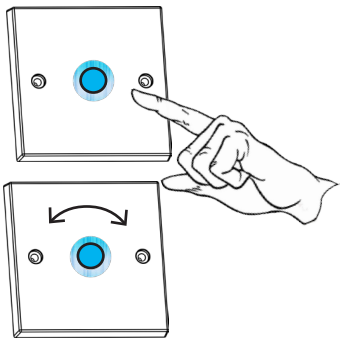
b) Alternatively, rotate the control clockwise or counter-clockwise to move forwards or backwards through the colour palette. When you see the colour you want, briefly press the control.

N.B. When programming a zone, the relevant light will change to show the effect of your programming (the other lights will not be illuminated to make it easier to see the zone you are programming).



Step 4 - programme the start white level (saturation)

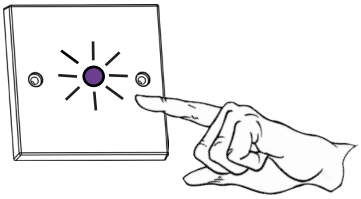
moody's indicator LED flashes white to acknowledge it has entered white level programming mode, then shows the start white level of the zone.



a) Wait 5 seconds; moody will start slowly cycling through the white levels. When you see the white level you want, briefly press the control.

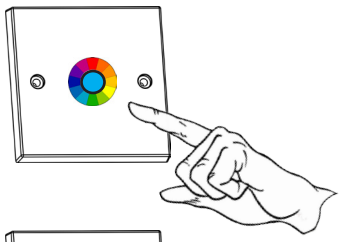
b) Alternatively, rotate the control clockwise or counter-clockwise to increase or decrease the white level. When you see the white level you want, briefly press the control.

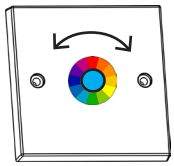
N.B. In moody f, the white level is really saturation - it controls the amount of white that is mixed in with the colour and allows shades to be created.



Step 5 - programme the end colour (hue)

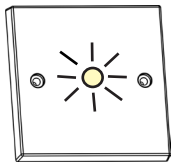
moody's indicator LED flashes purple to acknowledge it has entered end colour programming mode, then shows the end colour of the zone.





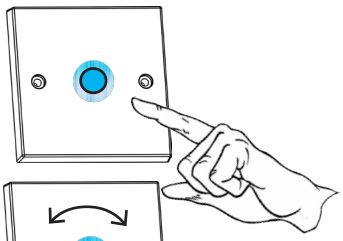
a) Wait 5 seconds; moody will start slowly cycling through the colour palette. When you see the colour you want, briefly press the control.

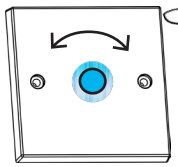
b) Alternatively, rotate the control clockwise or counter-clockwise to move forwards or backwards through the colour palette. When you see the colour you want, briefly press the control.



Step 6 - programme the end white level (saturation)

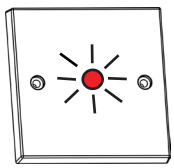
moody's indicator LED flashes white to acknowledge it has entered white level programming mode, then shows the end white level of the zone.





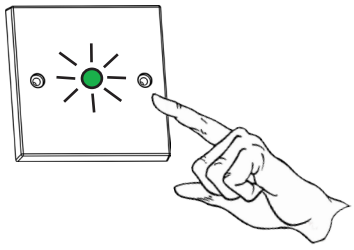
a) Wait 5 seconds; moody will start slowly cycling through the white levels. When you see the white level you want, briefly press the control.

b) Alternatively, rotate the control clockwise or counter-clockwise to increase or decrease the white level. When you see the white level you want, briefly press the control.



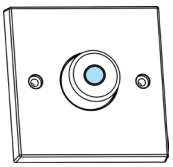
Step 7 - programme the other zones

Programming of zone 1 is now complete. moody is ready to accept programming for zone 2 and indicates this by flashing red. Repeat steps **3** - **6** for each zone.



Step 8 - exit programming mode

When programming of all zones is complete, moody will revert to step 2. If you are happy with all the settings, press and hold the control for 3 seconds to exit programming mode. moody acknowledges by flashing green.



Step 9 (end)

moody displays the master level and real-time colour of zone 1. It is now in normal operating mode.

The moody cv series

- *moody cvx1 and cvz1*
  - Controls a single RGB zone with CV dimmer output at 12 - 24V
  - Wheel controls intensity (*cvx1*) or colour (*cvz1*)
- *moody cvi1*
  - Controls a single intensity channel with CV dimmer output at 12 - 24V
  - Wheel controls intensity
- *moody cvf1*
  - Dynamic effects control over a single RGB zone with CV dimmer output at 12 - 24V
  - Programmable colours and fade rate: choose the start and end colour, and specify the fade rate betwen them
  - Wheel controls intensity

Operation (moody cv series)

moody 'cv' products have a built in constant voltage dimmer rated at 12-24 VDC and LED drive current 5A. The output is RGB common anode.

Operation and programming of moody cvi1, cvx1, cvz1 and cvf1 follow moody i1, x1, z1 and f1 respectively.

Note on DMX channel usage

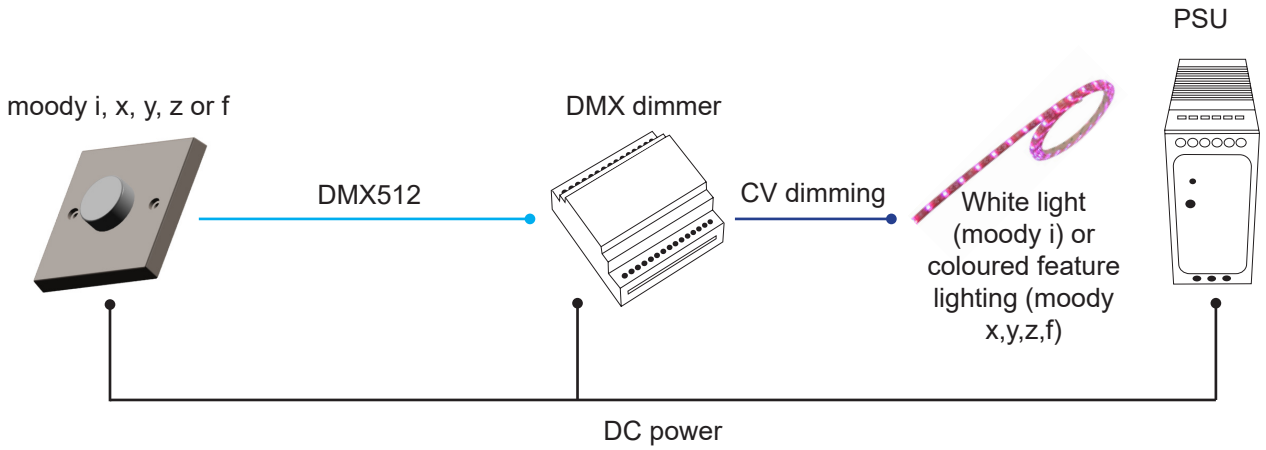
moody outputs 42 DMX channels (although only moody y10 uses all of them). The refresh rate is approximately 100 Hz.

A number representing the programmed fade time (moody f series) is output on DMX channel 41. This is relevant only for customers needing to specify an exact fade time. Please refer to the Help Desk article 'moody: Fade time detail' on the Artistic Licence website.

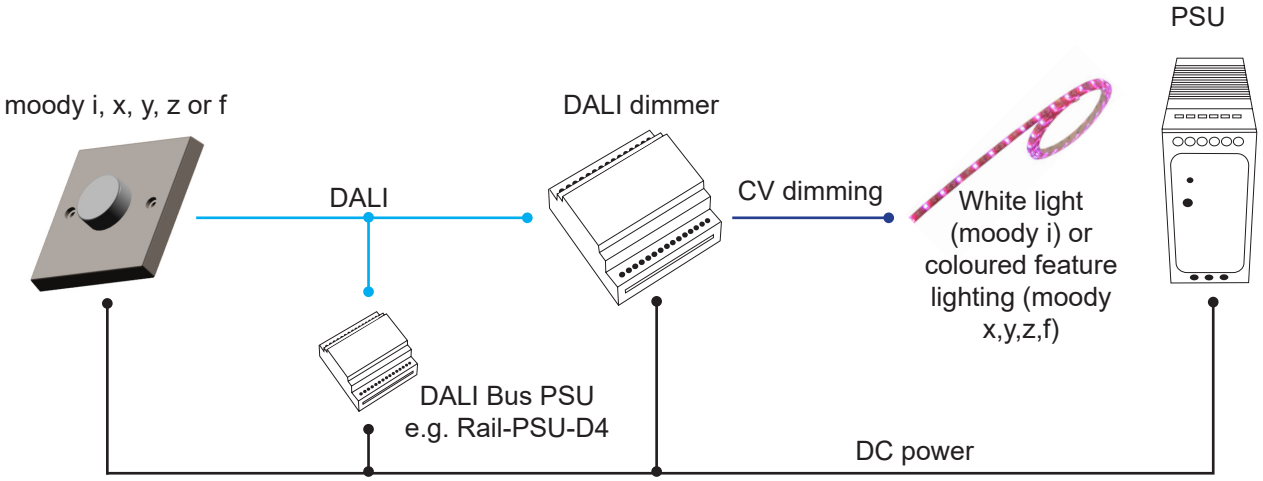
DMX channel 42 contains the firmware revision.

Application diagrams

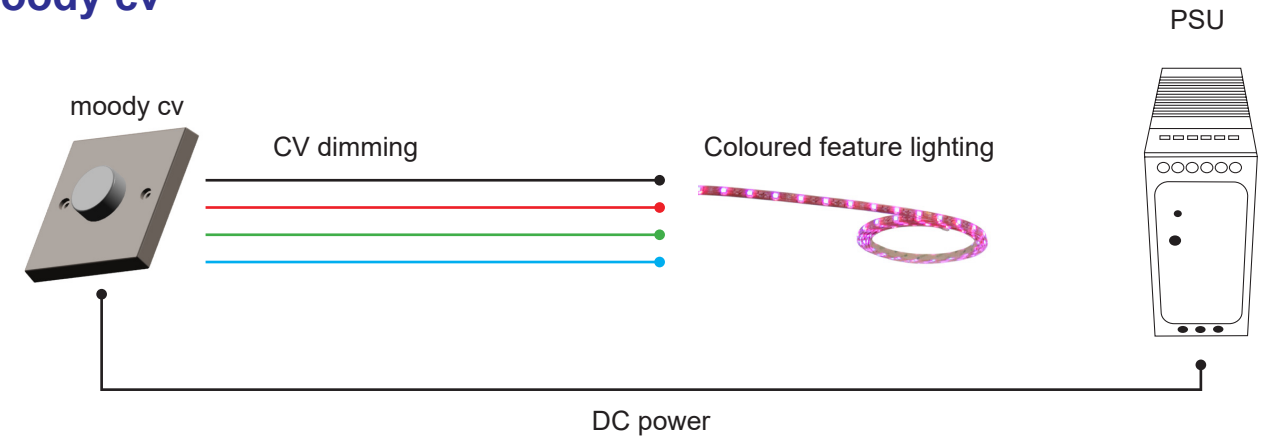
moody (DMX input)



moody (DALI input)



moody cv



moody & moody cv Specification

Mechanical

- Housing: UK '1-gang' style panel
- Fascia (buy separately): Compatible with 'Scolmore definity click' range
- Overall dimensions: 86 mm (H) x 86 mm (W) x 40 mm (D)
- Depth behind mounting: 15.2 mm
- Mounting: UK '1-gang' back-box 35mm (supplied)
- Mounting screw centres: 60.6 mm
- Mass: 0.11 kg
- Country of manufacture: UK

Environmental

- Operating temperature: 0°C to 40°C
- Storage temperature: -10°C to +50°C
- Operating relative humidity (max): 80% non-condensing
- IP rating: IP20 indoor use only
- Certification: CE, WEEE, RoHS
- Warranty: 2-year (return to base)

Power & Electrical

- Input voltage: 9-24 VDC (moody i, x, z, y, f)
- Input voltage: 12-24 VDC (moody cv)
- Input connector: 2-pin screw terminal DC voltage input (1 no.)
  - 0.2-1.5mm^2 (30-16AWG) solid conductors
  - 0.2-1.0mm^2 (30-16AWG) solid conductors
- Input power (max): 500 mW (moody i, x, z, y, f)
- Input power (max): 500 mW plus LED load (moody cv series)
- Duty cycle: 100% @ 25°C

User Interface / Indication

- Rotary dial (1 no.) for controlling master level (moody i, x, y, f, cvx1, cvf1, cvi1) with push on/off
- Rotary dial (1 no.) for controlling the colour of zone 1 (moody z, cvz1) with push on/off
- LED indication: Shows master level and:
  - colour of zone 1 (moody x, z, y, cvx1, cvz1)
  - real-time colour of zone 1 (moody f, cvf1)

Programming

- Rotary dial (1 no): push and hold for 3 secs to enter / exit programming mode
- Rear jumper (1 no): Inhibits programming
- Set white light scenes for 1 (moody i, cvi1), 6 (moody i6) or 16 (moody i16) channels
- Set the hue and saturation of 1, 3 or 10 independent RGB zones (moody x and z)
- Set the hue and white level of 1, 3 or 10 independent RGBW zones (moody y)
- Set the start colour, end colour and fade time for 1 (moody f1, cvf1), 3 (moody f3) or 10 (moody f10) RGB zones
- Set the hue and saturation of one RGB zone (moody cvx1, cvz1)

Control/Isolation (moody i, x, z, y & f)

- Output Protocols: DMX512-A, DALI
- DMX Output connector: 3-pin Screw Terminal (1 no.)
  - 0.2-1.5mm^2 (30-16AWG) solid conductors
  - 0.2-1.0mm^2 (30-16AWG) solid conductors
- DMX Output isolation: Ground referenced
- DALI Output connector: 2-pin Screw Terminal (1 no.)
  - 0.2-1.5mm^2 (30-16AWG) solid conductors
  - 0.2-1.0mm^2 (30-16AWG) solid conductors
- DALI Output isolation: 2kV opto-isolated

Control (moody cv series)

- Constant Voltage modulation: Pulse Width Modulation
- Constant Voltage Output connector: 5-pin Screw Terminal (1 no.)
  - 0.2-1.5mm^2 (30-16AWG) solid conductors
  - 0.2-1.0mm^2 (30-16AWG) solid conductors
- Output Voltage: identical to input voltage (12 -24 VDC)
- LED drive Current: 5A

Ordering Info

- Product code: **moody**
- Variant must be specified from the following options: i1, i6, i16, x1, x3, x10, y1, y3, y10, z1, z3, z10, f1, f3, f10, cvx1, cvz1, cvf1, cvi1

Package contents
• moody • Back-box
Accessories (not included)
• PSU

Compliance

All Products manufactured or sold by Artistic Licence Engineering Ltd are fully compliant with the appropriate CE and RoHS regulations. Product specific information is available on request.

Waste Electrical & Electronic Equipment (WEEE)

Artistic Licence is a member of a WEEE compliance scheme and will happily recycle any of our products that you, at your expense, return to us.

CE Compliance CE

moody and moody cv are CE compliant

Warranty

All products are covered from date of purchase by a two-year return to base warranty.

By return to base, we mean that the customer is responsible for all costs of transport to and from Artistic Licence.

Returns will not be accepted without prior authorisation. In order to discuss a request to return goods, please email:

Sales@ArtisticLicence.com

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