

# visDIM 1-10V Sub-controller

## Specification sheet

# KKDC



**ORDER CODE** KKDM-05U  
KKDM-05 (Non UL version)

### PRODUCT SPECIFICATION

<b>Dimension</b>	H34/W64/L164mm (H1.34/W2.52/L6.46in)
<b>Weight</b>	160g (0.35lbs)
<b>Operating Temp</b>	$T_a = -10$ to $60^\circ\text{C}$ ( $T_c$ max = $80^\circ\text{C}$ ) $T_a = 14$ to $140^\circ\text{F}$ ( $T_c$ max = $176^\circ\text{F}$ )
<b>Storage Temp</b>	$T_a = -20$ to $70^\circ\text{C}$ (-4 to $158^\circ\text{F}$ )
<b>IP Rating</b>	IP20
<b>Finish</b>	Plastic cover (Black)
<b>Mounting</b>	Surface mount via screws
<b>Cable &amp; Connectors</b>	Input: Terminal type – accepts 26AWG-12AWG Control: Terminal type – accepts 26AWG-12AWG Output: Terminal type – accepts 26AWG-12AWG
<b>Control</b>	1-10V sink or source control inputs (100K $\Omega$ Potentiometer)

### ELECTRICAL DATA

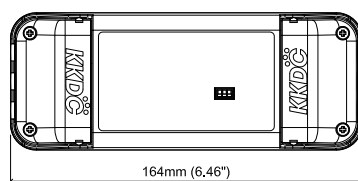
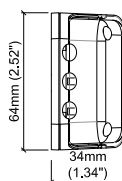
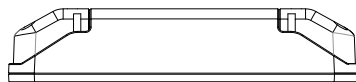
<b>Input Voltage</b>	9-24V DC
<b>Output Voltage</b>	as Input Voltage
<b>Output Current</b>	4A max total output @ 24V, 8A max total output @ 9-12V (2 x 5A max @ 9-24V for Non UL version)
<b>Output Wattage</b>	96W max total output @ 12-24V, 72W max total output @ 9V (2 x 120W @ 24V, 2 x 60W @ 12V, 2 x 45W @ 9V max for Non UL version)
<b>PWM Frequency</b>	3.2-3.4KHz

### PORT DESCRIPTION

<b>DC IN +, DC IN-</b>	From PSU: 9V, 12V or 24V DC to suit LED
<b>1-10VIN DIM1+, DIM2+, 1-10VIN DIM-NC</b>	Input from 1-10V control or 100K $\Omega$ potentiometer No connection
<b>CH1 +, CH1 -</b>	Output to LED – channel 1 (Warm Channel)
<b>CH2 +, CH2 -</b>	Output to LED – channel 2 (Cool Channel)

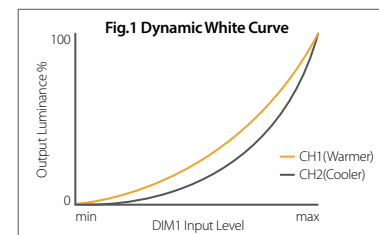
### SAFETY & EMC

<b>EMC Emission</b>	EN 55015, EN 61547
<b>EMC Immunity</b>	EN 61000-4-2, 3, 4, 6
<b>UL Safety</b>	UL8750
<b>CSA Safety</b>	CSA C22.2 No. 250.13



### Dynamic White

Single input (DIM 1) controls both output channels as LEDmix control (Fig.1). When using 2100K mixed with 3500K it produces dimming and CCT curves closely matched to halogen/incandescent.



### Tunable White

Two input channels to control colour and dimming for LEDmix. DIM 1 input controls the channel mixing (cool/warm) between CH1 & CH2 outputs (Fig.3). DIM2 input controls the overall output level, while keeping the colour mix consistent.

