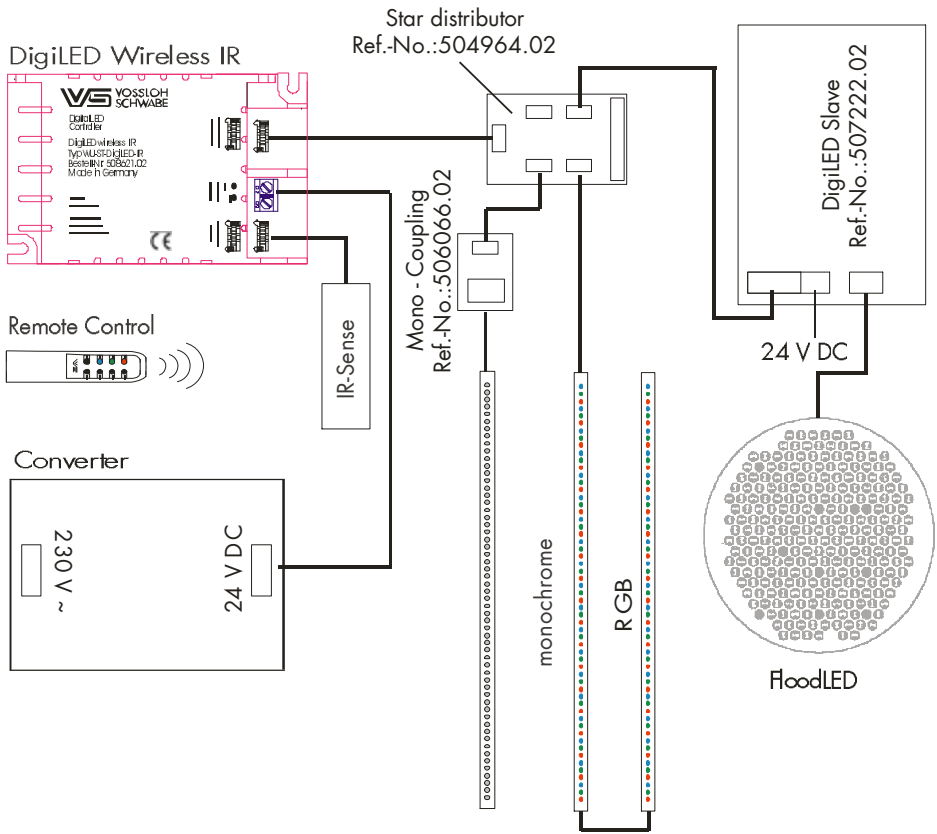


## Example of a System Design



The packing of several cable lengths is possible upon request.  
The cable is also available as a shielded wire!



## Operating Instructions Digiled Wireless IR

### 1 Introduction

#### 1.1 Product Description

The system control device Digiled Wireless IR has been designed for the individual or pre-programmed colour and brightness control of LED modules. The control is carried out by an infrared remote control.

#### 1.2 Scope of Delivery

Please check the delivery for completeness and transport damage when you unpack the device. You should have received the following items:

- 1 WU-ST-Digiled-Wireless IR
- 1 IR sensor circuit board with a connecting lead of approx. 30 cm
- 1 IR remote control
- 1 Short Instructions

#### 1.3 Safety Instructions

Please ensure a good electrical connection of all cables and plugs and the compliance with the ESD regulations!

- + this product serves exclusively for the operation of the LEDLine, FloodLED and MarkerLED module family
- + the Digiled Wireless IR may only be used indoors
- + install all components in de-energized state only
- + only qualified personnel may open the casing
- + immediately contact your distributor in case of damage or failure
- + pay particular attention to the maximum demand of supply and select the respective connection cables, if appropriate
- + ensure the correct polarity when you connect the supply voltage

### 2 Functional Description

#### 2.1 Functions

The Digiled Wireless IR has been designed for the control of lighting elements of the series LEDLine, FloodLED and MarkerLED. These can be equipped with COB (Chip on Board), SMD or wired LED. The following functions can be set at the Digiled Wireless IR using the IR remote control:

- + Independent brightness control of all colours
- + Retrieving of a pre-set colour value
- + Saving of an individual colour value
- + Three different colour gradients (2 soft colour gradients and one random colour change)
- + Velocity change of the colour gradients
- + The colour selected last or the colour gradient set last will be re-called with every new start

## 2.2 Malfunctions

When problems or malfunctions occur during the operation of the device, please check if all wires and plugs are connected as described in chapter 2. If you are unable to find any obvious defects, please contact your distributor. Do not attempt to repair the device yourself, under any circumstance.

## 2.3 Assembly

The Digiled Wireless IR can be mounted on a firm base using 4 mm bolts in the two recesses which are diagonally located.

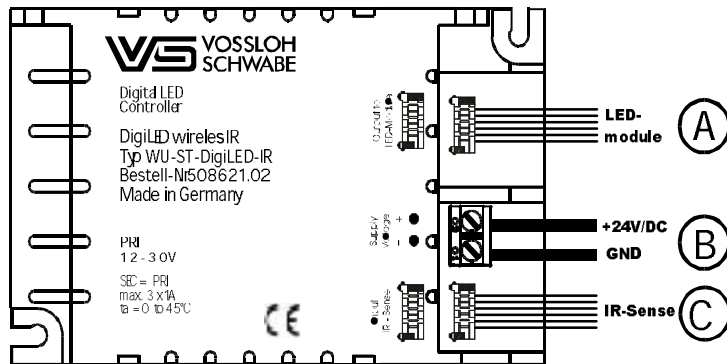


Figure 1: Digiled Wireless IR

## 2.4 Technical Data

Operating voltage	12 to 30 V DC
Current consumption	max. 3,1 A
Fuse protection	T 3.15 A; internally
Inputs	2-pole terminal for supply voltage
Outputs	1 system plug for the connection of the IR sensor 1 system plug for 3 controllable PWM <sup>1</sup> outputs (voltage same as output voltage of power supply connected in series)
Output current	max. 3 x 1,0 A
Operation	Operation by a remote control
Ambient temperature	0 °C to +45 °C
Humidity	0 to 95 % (not condensing)
Casing	Plastics, PVC white
Dimension (LxWxH) in mm	60 x 95 x 30
Weight	70 gr

PWM<sup>1</sup> = pulse-width modulation

## 2.5 EMC & CE

The Digiled Wireless IR complies with the lighting standards regarding electromagnetic compatibility (EMC) and is certified according to CE.

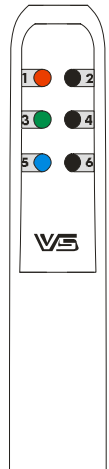
## 3 Operation

### 3.1 Functional Defaults

For an optimum use of the remote control, the distance to the Digiled Wireless IR sensor should be min. 30 cm and not exceed approx. 15 m under optimum conditions. Please note that the remote control might malfunction in case of direct solar radiation to the IR sensor. Two batteries of the type "AA" are required for the operation of the IR remote control. These are not included in the scope of delivery. To insert the batteries, open the lower side of the case shell by pressing slightly on the grooved part and sliding it in direction of the arrow. You may insert both batteries when the lower part has been slid until the stop.

### 3.2 Keys 1, 3 and 5 (Colour Control)

You can set the light intensity of the relevant colour channels (1 = red, 3 = green, 5 = blue) using the keys 1, 3 and 5. Switch on the device and increase the brightness by pressing and holding the respective key. The set brightness value will remain when you stop pressing the key until the key is pressed again. Then, the control of the brightness level is reversed. The reduction will be shown by short flashing of the selected colour. This reversal of the direction is repeated whenever you press these keys. When an end value has been reached (min. or max. brightness value), the connected module will flash shortly.



### 3.3 Key 2 (Program Velocity)

You can increase the velocity with which the colour gradients are carried out by pressing the key "Program Velocity". The velocity will be decreased when you press the key again. This is indicated by a short flash of the contended modules.

### 3.4 Key 4 (Program Mode)

Different program types can be set by using the key 4, where a "random" and two "soft" colour gradients are pre-programmed by the factory. The two soft colour gradients differ due to a defined "off state" between the respective "loops". You can toggle between the colour change programs by pressing the key 4. The respective program will be shown by a single, double or triple flashing of the connected module. You can switch the program off by pressing key 6.

### 3.5 Key 6 (On/Off and Memory)

The key 6 occupies the functions "switch on" and "switch off" of the connected LED modules as well as the memory for the current setting. You may save an individual colour value which will be active upon the next start of the Digiled Wireless IR by pressing and holding (> 3 sec.) of key 6.

### 3.6 IR Sensor

The IR sensor included in the scope of delivery is mounted on a support circuit board and equipped with a 6-wire flat ribbon cable with a length of approx. 30 cm including a system plug. This system plug connects the IR sensor with the Digiled Wireless IR. The connection is realised by the system plug "C" (see chapter 2). The separate assembly of the IR sensor ensures the possibility to place the sensor independently from the Digiled.