

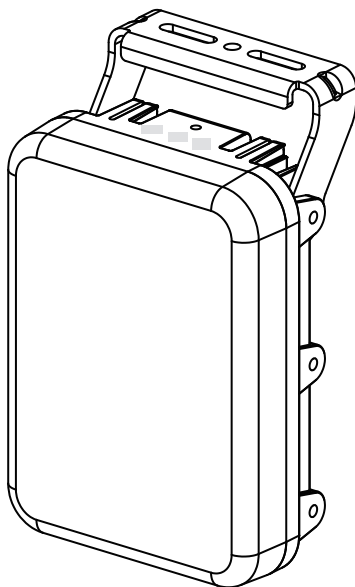


# LIDI!ght

LM48/LA80 Series

## Vari-Angle Illuminator

Wiring Guide



## Cable Pinouts (IR Illuminator)

Name	Color	Gauge	Description
V+	Red	(20AWG)	Power input
V-	Black	(20AWG)	24V DC±10% 24V AC±10% (50~60Hz)
DI+	Green	(26AWG)	LED ON/OFF control * Dry contact Logic level 1(Open) = LED off Logic level 0(Close to GND) = LED on * Wet contact Logic level 1: 4V~40 V = LED off Logic level 0: 0.8V MAX = LED on
DI-	Yellow	(26AWG)	Ground
DO+	Purple	(26AWG)	Light sensor status output 1. Open = Day 2. Short = Night (20 lux for IR ON)
DO-	Blue	(26AWG)	Ground (LM48)/ Diagnostic status output (LA80)
RS485+	Orange	(26AWG)	RS485 interface control
RS485-	Brown	(26AWG)	

### IR LED ON/OFF control (Green & Yellow wires)

This mode means that illuminator On/Off control is triggered by camera or other alarm system. User can decide using the appropriate dry/wet contacts depending on wiring condition.

DI+: Green = TTL + voltage

DI-: Yellow = TTL – voltage (GND)

\* Dry contact

Logic level 1 (Open) = LED off

Logic level 0 (Close to GND) = LED on

\* Wet contact

Logic level 1: 4V~40 V = LED off

Logic level 0: 0.8V MAX = LED on

### Light sensor status output (Purple & Blue wires)

This mode means that camera Day/Night mode switching is coordinated with and is triggered by the illuminator's light sensor via the DO(Digital output) connection (connected to the camera's DI pins). Users can configure the camera configuration to control the corresponding illuminator On/Off status.

DO+: Purple= Open drain output, 45V Max. (current must be under 100mA)

DO-: Blue = GND

Light sensor status output

1. Open = Day

2. Short = Night (lower than 300 lux for IR to turn ON)

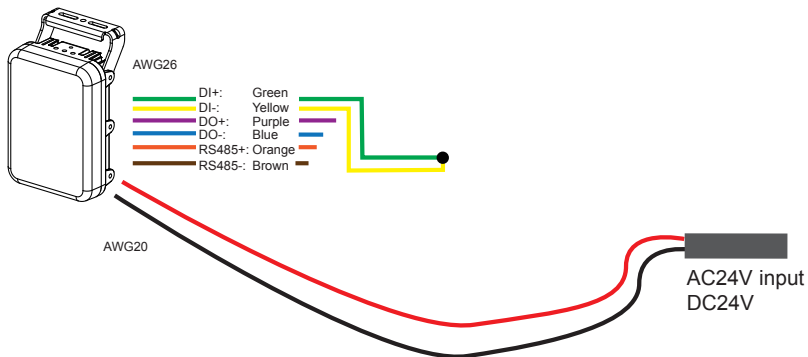
### Stand-alone illuminator mode

This mode means that the illuminator's On/Off control is triggered by its light sensor, in the case, the default wiring is connecting the green wire with purple wire.

## LM48/LA80 stand-alone wiring

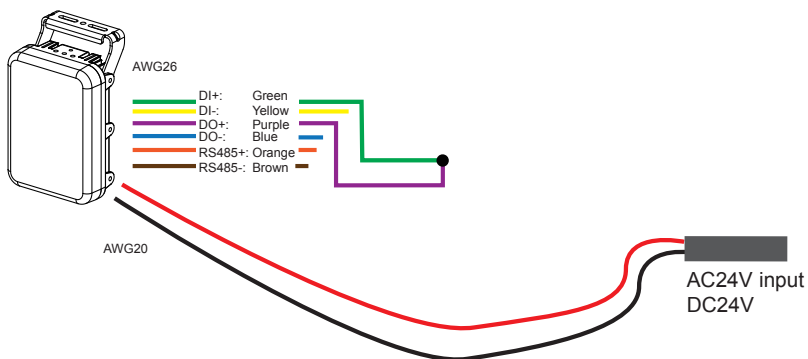
### Illuminator always on:

User can use this to check the function of illuminator



### Illuminator stand-alone:

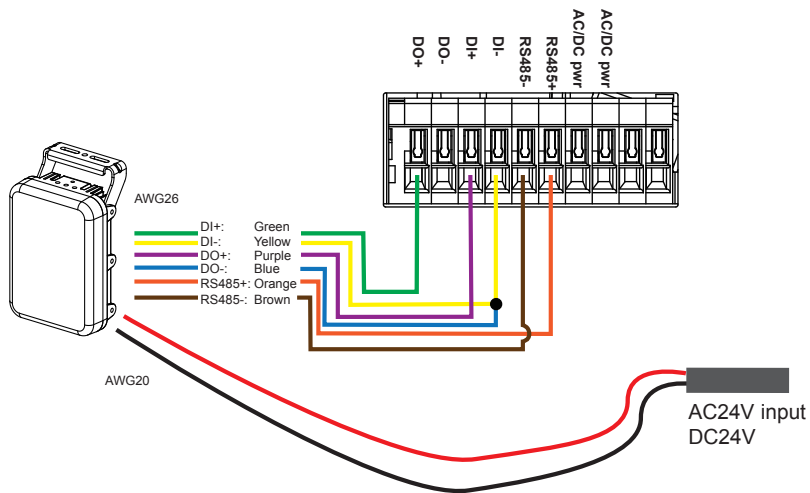
Illuminator light sensor trigger illuminator ON/OFF



# LM48/LA80 general wiring to camera

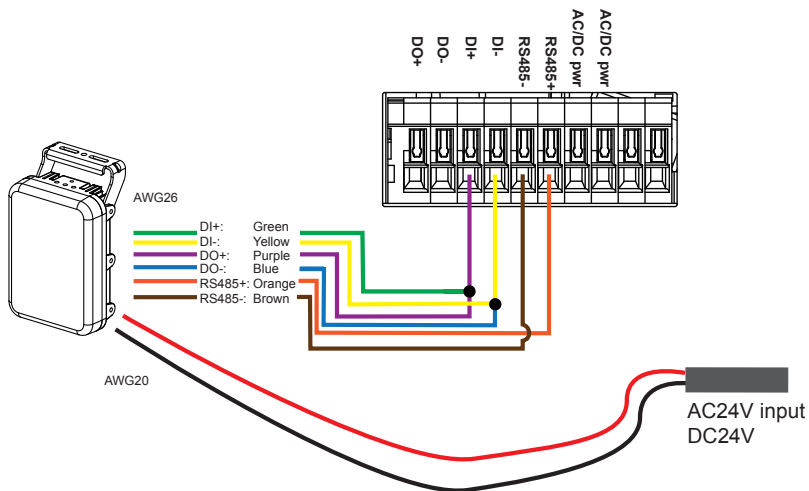
## Illuminator light sensor control:

Illuminator trigger camera Day/Night, then camera trigger illuminator ON/OFF



## Illuminator light sensor control:

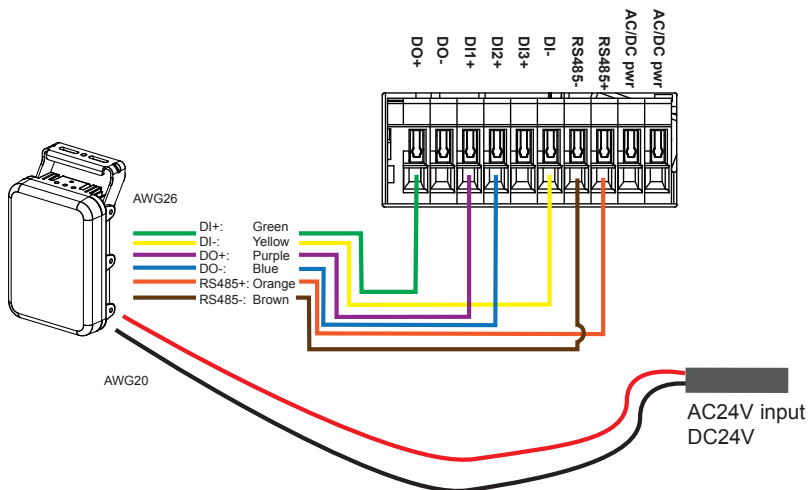
light sensor trigger illuminator ON/OFF, then illuminator trigger camera Day/Night



# LA80 with diagnostic feedback wiring: DO- to camera other DI+

## Illuminator light sensor control:

Illuminator trigger camera Day/Night, then camera trigger illuminator ON/OFF



## Illuminator light sensor control:

light sensor trigger illuminator ON/OFF, then illuminator trigger camera Day/Night

