**LED SIGNS
GOBOS PROJECTORS**

DMR SRL

LED ILLUMINATED SIGNS

Illuminated devices for safety in the workplace. This panel can be single-sided or double-sided, it is possible to manufacture it for Dibond outdoors or in plexiglass backlit version. Possibility to customize its graphics, letters and led lights. It is possible to light the Led sign by means of a proximity sensor (not included), and to be provided with others sensors in order to achieve a larger functioning area. Light can be flashing, even with different colour lights (ex. red/green). DMR manufactures its signs in Italy, offers warranty and gives its customers the possibility to 100% personalize its products, providing complete assistance.
Everything is made in Italy.

- Item code : DMR-DSVLED
- Item name : Led sign
- Fuction : Signalling and indicating
- Power supply : 220 Vac (sensor) - 24 Vdc (panel)
- Led colour : White, red, green, blue, amber Ex: fixed green light that becomes red flashing when motion is detected:
- Size : 60 x 60 cm /40 x 40 cm /30 x 30 cm
- Composition : Forex (3 or 5 mm) with lighting leds and power supply cable, aluminium edges
- Thickness : 2 - 3 cm
- Weight for packaging : 4 Kg

LED SIGNS
for indoor and outdoor

NEWS
BACKLIT SIGNS
FOR INDOOR AND OUTDOOR

Code	Size	Material	Use characteristics	Lighting
DMR-DSVLED3030	30 x 30 cm	Forex	Indoor	frame
DMR-DSVLED3030EST	30 x 30 cm	Dibond	Indoor+outdoor IP65	frame
DMR-DSVLED3030PXG	30 x 30 cm	Plexiglass	Indoor+outdoor IP65	backlit

Code	Size	Material	Use characteristics	Lighting
DMR-DSVLED4040	40 x 40 cm	Forex	Indoor	frame
DMR-DSVLED4040EST	40 x 40 cm	Dibond	Indoor+outdoor IP65	frame
DMR-DSVLED4040PXG	40 x 40 cm	Plexiglass	Indoor+outdoor IP65	backlit

Code	Size	Material	Use characteristics	Lighting
DMR-DSVLED6060	60 x 60 cm	Forex	Indoor	frame
DMR-DSVLED6060EST	60 x 60 cm	Dibond	Indoor+outdoor IP65	frame
DMR-DSVLED6060PXG	60 x 60 cm	Plexiglass	Indoor+outdoor IP65	backlit

Some DMR applications

Sensors are independent from the sign and are connected through simple and fast-to-install connections.
Slave sensor is a infrared detector compatible with DMR Hi-tech Motion Sensor control system.

MASTER SENSOR

HI TECH Motion sensor is a motion detection sensor, designed for applications in industrial environments and in places mainly dedicated to safety.
It is composed of a multifunction main board capable of managing differents inputs and outputs.

The card is capable of managing inputs:
4 Infrared detection sensors, one Master and three slave type, manageable at a maximum distance of 10 metres.
2 Ultrasonic sensors for measuring distances that can be managed at 10 metres.

The card is capable of managing outputs:
Up to 4 with 24V Led panels (connected in parallel on 2 terminals)*.
3 outputs with Relay for connecting LED10 - LED40 projectors and for traffic-light functions (for ex. fixed red light, flashing green light)*.
The card is equipped with a minidip selector from which it is possible to enable or disable functions (buzzer, flashing and Relay) and change the time to take action.

The sensor must be supplied with 220V 50Hz.
*depending on the use of the product and of its configuration, some input/output functions may differ from the information mentioned above.
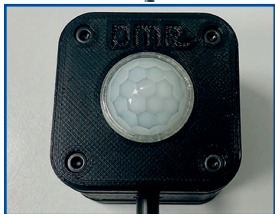PIR technical specifications (Infrared sensors):
detection range: <140°
maximum detection distance: 7mt

SLAVE SENSOR

This sensor is designed to be hung by means of magnets in order to avoid the perforation of metal shelving, and is equipped with plug-in support for wall fastening with screws and plugs. Optional motion sensor added to MASTER sensor in order to synchronize the switch-on of our LED devices from more areas.
It requires to be connected to Master sensor .

Code	Master/Slave description
DMR-SENSLEDSIN	Indoor Master sensor
DMR-SENSLEDMEST	Outdoor Master sensor
DMR-SENSLEDSINSL	Indoor and outdoor IP65 Slave sensor

Code	Accessories description
DMR-SEGNLEDA	Additional buzzer for Master sensor
DMR-DSVLEDSTAP	Pair of brackets for flag-like hanging of led panel
DMR-INTMAG	Additional magnetic switch for Master sensor

DMR-INTMAG

TEMPERATURE MONITOR LED PANEL

Led Panel for body temperature check station. It alerts a client when is his own turn to acces to temperature check station in order to let him then entering to the target structure. It can be manufactured as a single-side or double-sided backlit plexiglass panel, also for outdoor use.

Red "STOP" remains switched-on and pressing the button on remote-controller, the green light strip "AVANTI" turns on for the time you have set, and returns then to red fixed light "STOP". Fixed or flashing light function is programmable from the control system. Graphics and functioning mode are customizable on request.

Item name	TEMPERATURE MONITOR LED PANEL
Item code	DMR-DSVLEDCT
Function	Signalling and indicating
Power supply	220 Vac (sensor) - 24 Vdc (panel)
Led colour	White (Backlit: red and green)
Sizes	30 x 30 cm
Composition	Forex/Plexiglass (3 or 5 mm) with led and power supply cable, aluminium frame
Thickness	2,5 cm (variable)
Weight for packaging	4 Kg (variable)

PEOPLE COUNTING DEVICE

Governements all around the world are imposing restrictions and limitations to the number of people who may stay in the same place, such as supermarkets, shops, casinos, restaurants and other public facilities. Our monitoring system detects the occupancy of structures and it automatically scans the incoming and outgoing traffic, in order to count people in real-time, respecting the rules.

LED DISPLAY Capacity Counter: The sensor enables the counting on the high-visibility Display LED. The colour of the number indicated on LED Display changes from green to yellow when the maximum capacity is getting closer and becomes red when the programmed occupancy limit is achieved.

PERSONNEL PROTECTION: Keeps everybody safe and guarantess that people have enough space for social distancing.

PLUG & PLAY: Easy and quick installation thanks to wireless synchronization of sensor and display.

WIRELESS: The sensor sends a wireless signal to the display updating the counting in real-time.

Code DMR-COPBOX

Including: (1) Passage detection sensor
(1) LED Display size 60x42 cm
(2) Power supply 5Vdc (display) and 12Vdc (sensor)
Detection range: Pedestrian passage detection sensor has a 1,8 m detection range from the place it's assembled (adjustable). This sensor sends a wireless signal to Led Display up to 60 m distance.
Use: For indoor use and covered areas.

How does safety signage projection work:

1. In industrial working environments, it is essential to equip the production systems with a proper safety signage and signs concerning the production line. For this purpose, experience in this field has led **DMR** to create an innovative project regarding the projection of this information signage.
2. This type of signage is characterized by a lot of advantages, for both its visibility, given that it is not subjected to deterioration and it is visible in illuminated and in very dark environments, and also for time-saving since it's easy to install and long-lasting.
3. Projected signage only requires an image projector *(called gobo projector)* and an image support *(called gobo)*.
4. Gobo is positioned inside the projector, completely customizable and included in the supply of projector, it is comparable to a slide, but more resistant and graphically defined because it is manufactured on a laser-marked borosilicate support, for this reason colours won't be subjected to deterioration over time.
5. The projector is installed in a confortable space that is adjacent to projection area, such as ceiling, while the selected safety message is projected on the working surface, also allowing to act on different parameters, such as: focal, inclination, rotation and distance; the system guarantees a good margin of modification, even after installation has already been carried out.

PROJECTORS advantages

- long-lasting
- no wear because of walking
- inexpensive use
- no need to repaint
- fast installation
- they never fade
- high-visibility
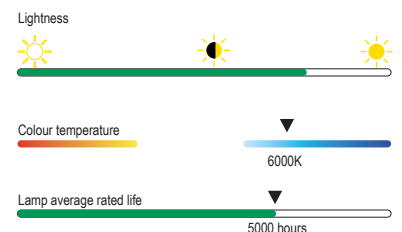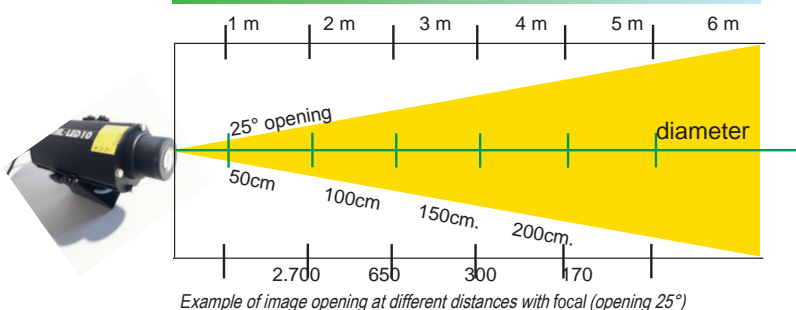- they attract more attention
- simple update

DMRLED10

- DMR LED10 is a projector with a compact and rugged design, small and lightweight , capable to adapt to any working environment (even dusty), and thanks to the absolute brightness of its led source, it can counteract the normal lighting in industrial infrastructures.
- We reccomend you to use it for signage projection having size from 30 to 120 cm and variable height from 2 to 4 metres.
- The possibility to use interchangeable optics makes the use of this projector versatile, in both very high environments and in environments where mezzanine structures force to use it at maximum 2,5 m height.
- Available optics are: 10° , 15° , 20° , 25°

25° FOCAL OPENING PHOTOMETRIC VALUES

1 m	2 m	3 m	4 m	5 m	6 m

25° opening

50cm 100cm 150cm. 200cm. diameter

2.700	650	300	170

Example of image opening at different distances with focal (opening 25°)

Lightness

Colour temperature — 6000K

Lamp average rated life — 5000 hours

Our projector is equipped with one optics to be chosen among 4 available versions, together with first gobos included in the supply. The type of projection may be also controlled by means of a sensor, for vehicle or operator passage detection.

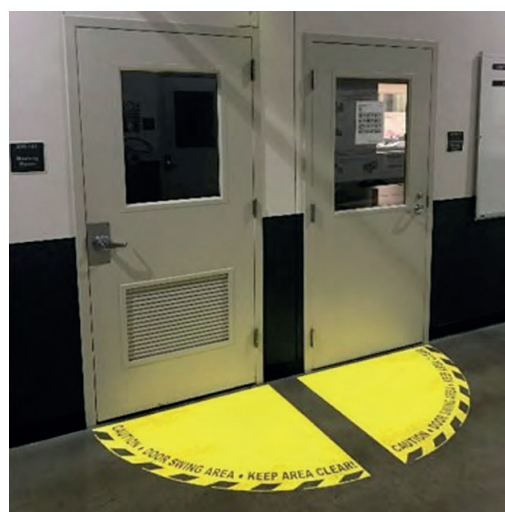# LED ILLUMINATED SIGNS PROJECTOR

DMRLED40

Lightness

Colour temperature
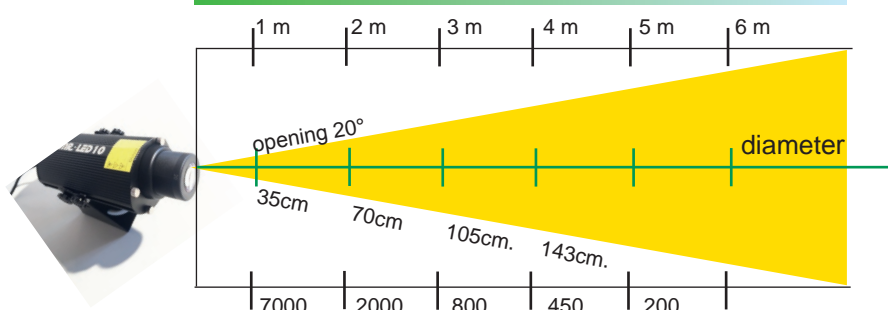
6000K

Lamp average rated life

5000 hours

- **DMR-LED40** is a projector with a compact and rugged design, small and lightweight , capable to adapt to any working environment (even dusty), and thanks to the absolute brightness of its led source, it can counteract the normal lighting in industrial infrastructures.
- We reccomend you to use it for signage projection having size from 30 to 180 cm and variable height from 2 to 8 metres.
- The possibility to use interchangeable optics makes the use of this projector versatile, in both very high environments and in environments where mezzanine structures force to use it at maximum 2,5 m height.
- Available optics are: 10°, 15°, 20°, 25°
- Our projector is equipped with one optics among the available ones and the first two-filters GOBO.
- It is provided with an image rotation mechanism usable to allow the projection to have a greater visual impact, and also to give more indications about rotation.
- The type of projection may be also controlled by means of a sensor, for vehicle or operator passage detection.

Projection of DMR-LED40 towards door opening with sensor

20° FOCAL OPENING PHOTOMETRIC VALUES

1 m	2 m	3 m	4 m	5 m	6 m
35cm	70cm	105cm.	143cm.		diameter
7000	2000	800	450	200	

opening 20°

Example of image opening at different distances with focal (opening 20°)
*PRODUCT CODE **DMRLED** compatible with 10,15,20,25° objectives*

Projection example of signalling the doors opening direction. This projection is activated by a detection sensor, that every time detects the presence of a pedestrian in the proximity of doors, gives consent to turn on the projector, that will remain activated for a pre-set time.
The possibility to use the accessory presence sensor is useful, since it makes the projection more dynamic, and as a result, it will have a greater visual impact; at the same time, it guarantees a longer durability of the illuminated source over time, as well as it ensures energy saving.

PROJECTORS CONFIGURATION

Since it is about Projection, the size of the projected signage stays within one of those parameters that can be easily managed just acting on one of the three fundamental elements of the system.
This means that in a projection system the projected image size depends on these three factors: FOCAL - GOBOS IMAGE SIZE - PROJECTION DISTANCE.
By varying just one of these three elements, it will be possible to modify the projection size. Naturally, it is important to guarantee some Standards, that can be substitutive or integrative of the signage.
For this reason, as for horizontal self-adhesive and printed signage, DMR suggests some dimensional standards and indicates here below some examples of projectors configuration.
We reccomend you to rely on DMR staff for defining the projector configuration right parameters.
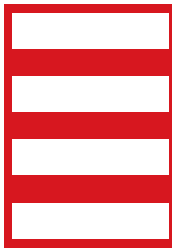
EXAMPLES OF PROJECTORS CONFIGURATION

CIRCULAR SIGN

Available sizes
cm 31
cm 41
cm 51
cm 60
cm 81

Projec. Size	10°	15°	20°	25°
31cm	2 m	1.3 m	0,9 m	0,7 m
41cm	3 m	1.7 m	1,2 m	1 m
51cm	3.5 m	2 m	1,5 m	1,2 m
60cm	4 m	2.5 m	1,8 m	1,4 m
81cm	5,5 m*	3.3 m	2,4 m	1,8 m

RECTANGULAR SIGN

Available sizes
cm 24x34
cm 34x49
cm 49x69
cm 69x99

Projec. Size	10°	15°	20°	25°
24x34 cm	2 m	1.3 m	0,9 m	0,7 m
34x39 cm	3 m	1.7 m	1,2 m	1 m
49x69 cm	3.5 m	2 m	1,5 m	1,2 m
69x99 cm	4 m*	2.5 m	1,8 m	1,4 m

RECTANGULAR SIGN

Available sizes
cm 150x80 cm
cm 200x80 cm
cm 270x80 cm

Projec. Size	25°
150x80 cm	3,5 m
200x80 cm	4,5 m*
270x80 cm	6 m*

*PROJECTOR DISTANCE IN METRES

PROJECTOR DISTANCE means the distance between projector and the surface that must be projected.

*In conditions marked with an asterisk we recommend to use DMR-LED40 projector.

PLEASE NOTE: Sizes indicated in these tables may differ from actual values with a 10% tolerance.

Naturally, these are just some examples concerning most used signage, but obviously the image to project can be completely customizable in both shape and colours.

For images customization, please contact directly DMR.

• **DMR-LED80**	Led power 80W. 2 years warranty. 10% image tolerance.	Aluminium Led projector for indoor projection with high luminous efficacy.
• **DMR-LED100**	Led power 100W. 2 years warranty. 10% image tolerance.	Aluminium Led projector for indoor projection with high luminous efficacy.
• **DMR-LED300**	Led power 300W. 2 years warranty. 10% image tolerance.	Aluminium Led projector for indoor projection with high luminous efficacy.

PLEASE NOTE: For further information, please contact DMR agent in your area

1) Comparison between painted signage, subjected to deterioration because of walking, pallets dragging and dirt, and projected signage not subjected to any wear. In the example have been used 2 LED-40 projectors.
2) Example of horizontal directional signage to manage vehicles traffic. It is also possible to mount the projector on the forklift truck, whose light beam is projected to about 6 m distance from this vehicle, and works as a safety system for pedestrians and also identifies the assembly line to which it belongs.

GOBOS

GOBOS is the name used to indicate a special support on which is printed the image we would like to project.
Our projector is provided with an optics to be chosen among the available ones, the first GOBOS with a colour included in the standard supply (black and/or white are not considered colours).
To demand GOBOS with more colours (maximum 4 different colours with full color photographic resolution), will be applied a special price.

Gobos can be printed with any signage pictogram in the catalog, and also customized with any graphics and textes that you require.

Code 0071/size

SPECIAL GOBOS

Special GOBOS means all gobos that are customized with more than two colours. To these gobos a different price will be applied.

red	orange	yellow
green 1	green 2	blue 1
blue 2	purple	pink
grey	dark grey	black

Colours table is indicative, for further infomation please contact our technicians

REGULATION