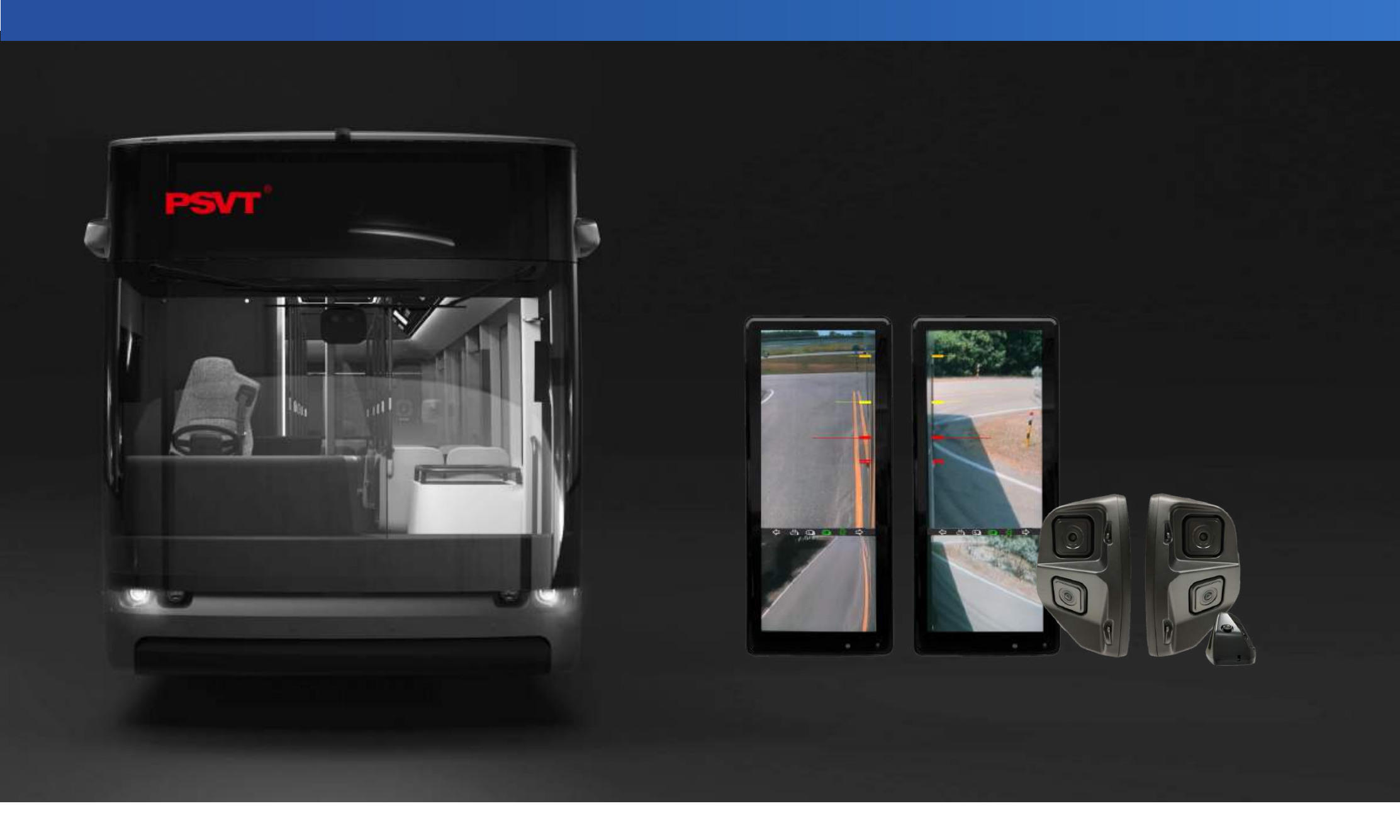
BlindVue® 12.3” HD Electronic Camera Monitoring System



System Composition

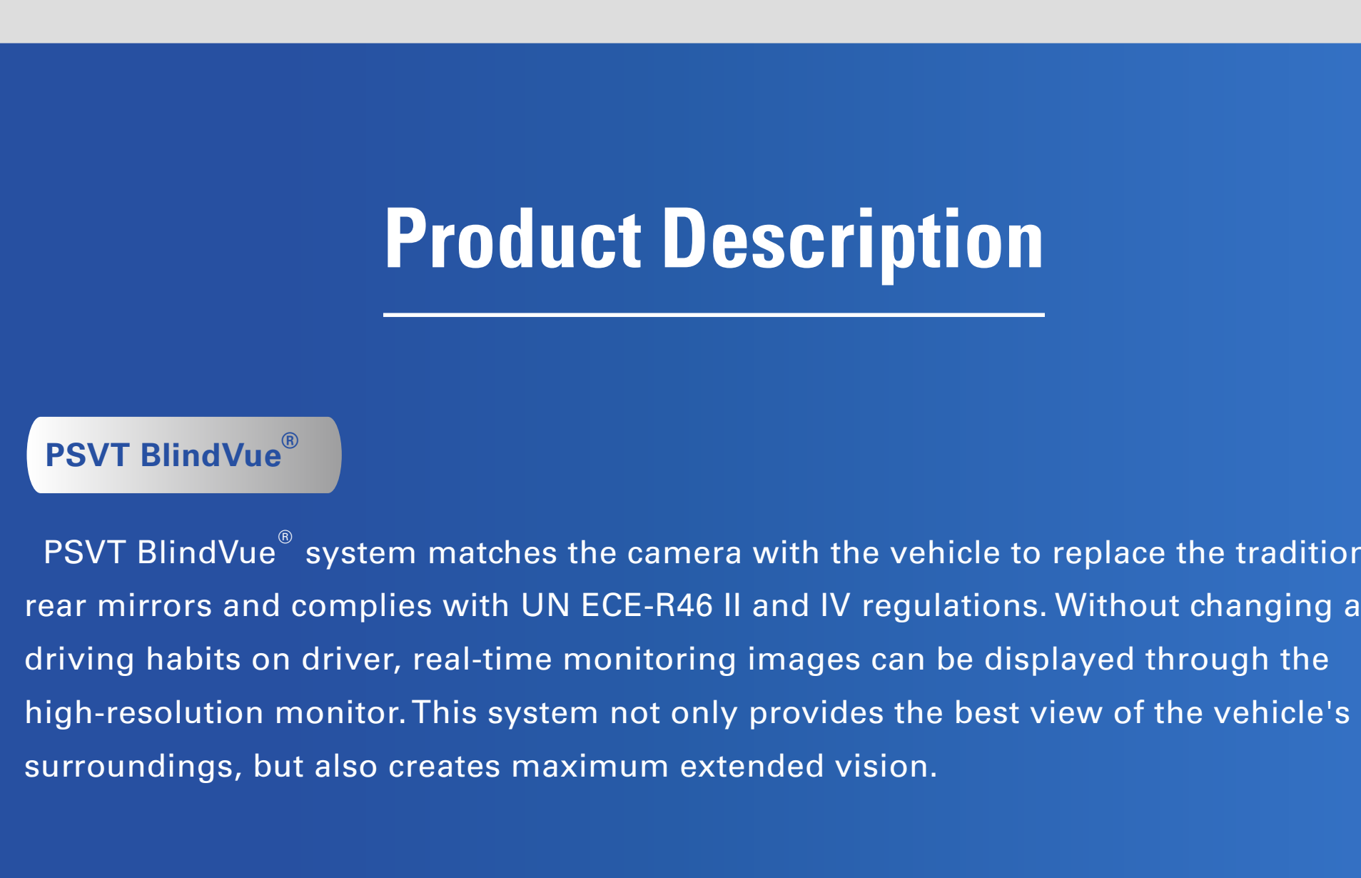
DM12AS*2+CM50EX L2 + CM50EX R2

DM12AS:

- Display Class II and Class IV blind spot vision.
- Built-in image processing chip.
- When the system in abnormal or the image is failed, the monitor will display "System Failure".

CM50EX:

- Blind area surveillance camera.
- Covers Class II and Class IV blind vision.
- Heating function.



Product Description

PSVT BlindVue®

PSVT BlindVue® system matches the camera with the vehicle to replace the traditional rear mirrors and complies with UN ECE-R46 II and IV regulations. Without changing any driving habits on driver, real-time monitoring images can be displayed through the high-resolution monitor. This system not only provides the best view of the vehicle's surroundings, but also creates maximum extended vision.

PSVT BlindVue® is suitable for any commercial bus

PSVT BlindVue® system can offers much more clear driving information than the traditional rear mirror does. It improves traffic safety on the road, and allows the driver to choose a Class V camera in the same housing. The driver can grasp the real-time blind spot on the co-pilot’s side from the optional high-resolution screen, and reduce accidents effectively. BlindVue® is specially designed for buses and passenger vehicles.

BlindVue® can provide the best image whether it is in strong light during the daytime or night. At the same time, the camera's heating function ensures that high-quality images can be obtained even in bad weather conditions. With better visibility, bus drivers can drive more comfortably and easily in all traffic situations, thereby it improves the driver's safety situation, the passengers and other people on the road.

Camera monitoring system will be is an extremely fantastic product in the future, because it ensures that the driver has a good rear-view vision. The electronic rear-view mirrors replace the traditional side-view mirrors. The aerodynamic design can reduce fuel consumption by up to 2-3%. At the same time, the system significantly improves the driver's all-round vision and reduces blind spots.

PSVT BlindVue® system is committed to Zero visibility and be one of part safety guard on the road.

- Use advanced camera monitoring systems to replace traditional rear-view mirrors. The camera provides Class II and Class IV blind spots for optimal size for split monitor. The expanded field vision can almost eliminate blind spots.
- Expanded the driver's visibility and improved visual experience, it also reduce aerodynamic drag generated by traditional rearview mirrors.
- The 12.3” monitor is installed in the A-pillar of the cockpit according to the design of the vehicle.
- The monitor adopts high dynamic range technology, ideal anti-reflection and glare technology, which provides clear and detailed images in any environment.
- Eliminate the glaring problem caused by the rear vehicle headlights, and provide a better visibility at dusk.
- The system complied with ISO16505 design and passed ECE R46-CMS Test, including Field of Vision, Systems latency, Resolution (MTF), etc.
- The electromagnetic system is compatible with UN ECE-R10, CE, FCC and VSCC 56-3 certification.

PSVT will continue to optimize the BlindVue® CMS system. Our goal is not only to improve the field of vision and clarity, but also meet the requirements of R151 (Blind Spot Information Systems, BSIS) and MOIS in the future.

CMS system will not only provide real-time images, but also detect the mvoing targets around the vehicle. When the system detects a nearby moving target approaching the vehicle, it will remind the driver to pay attention and be awared the different forms of signals when the risk of collision is increased.

Product Function

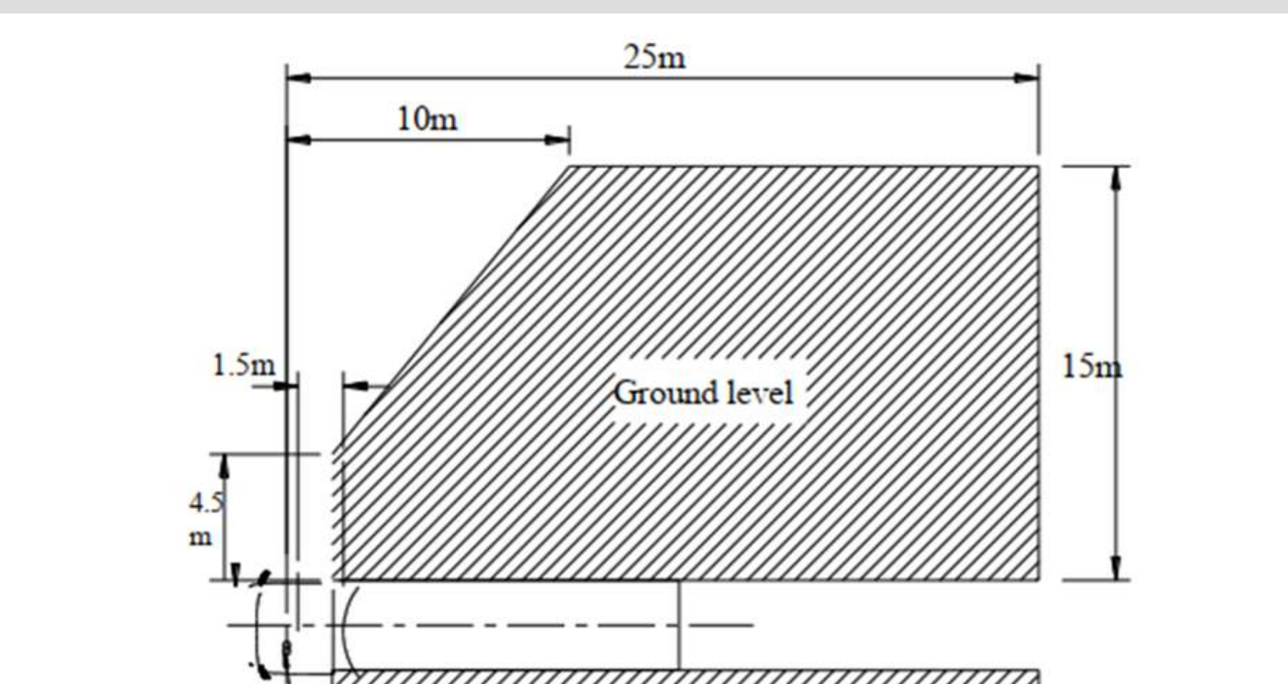
- UN ECE-R46
- 2CH 720P
- Failure mode
- Night vision
- IP69K
- WDR
- Heating
- Backlight

UNECE R46 Regulation Design

BlindVue® system complies with R46 regulations, and provides the Class II and Class IV effective visual range for the driver.

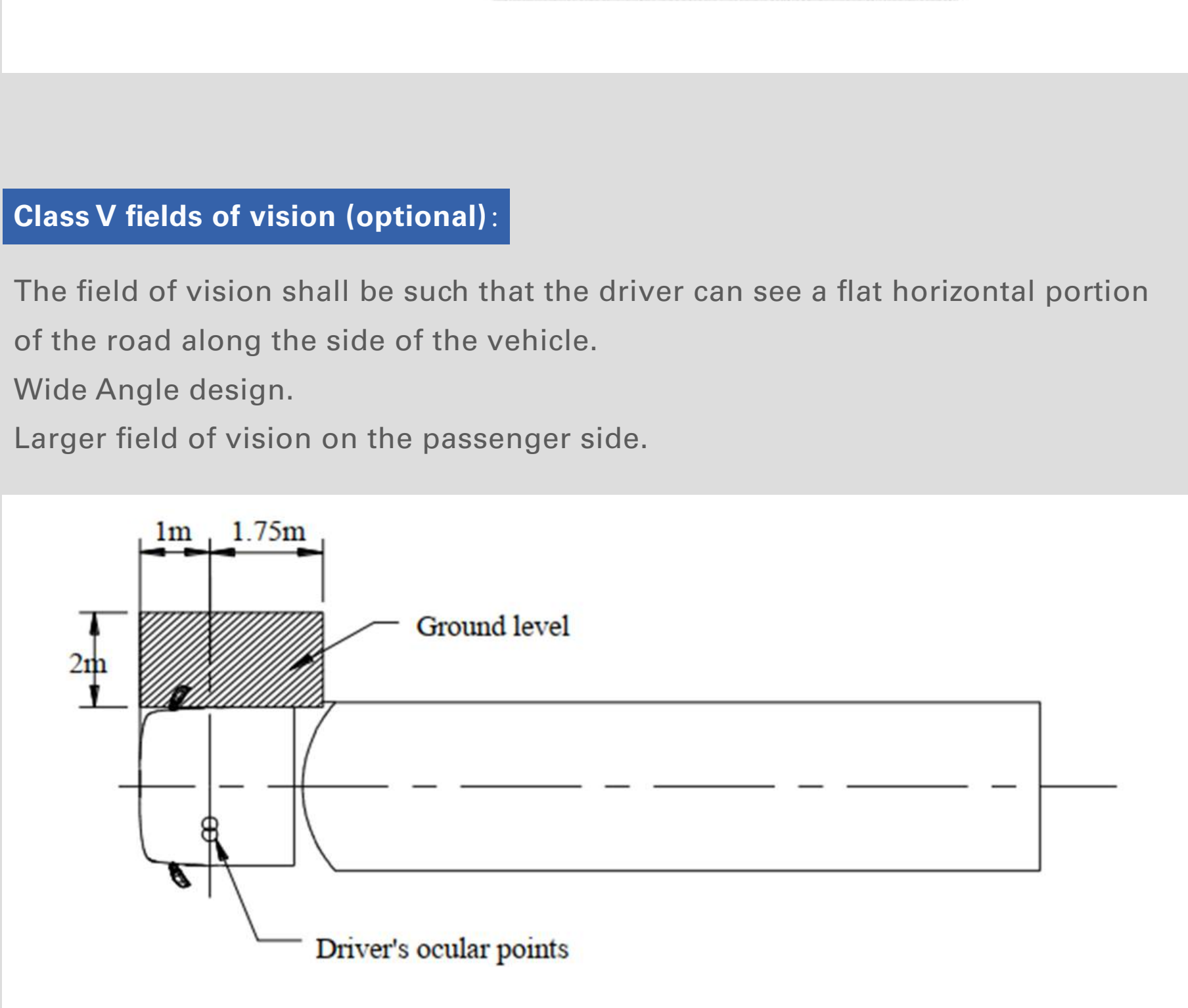
Class II fields of vision:

The field of vision shall be such that the driver can see at least a 5m wide, flat, and extends from 30m behind the driver's ocular points to the horizon.



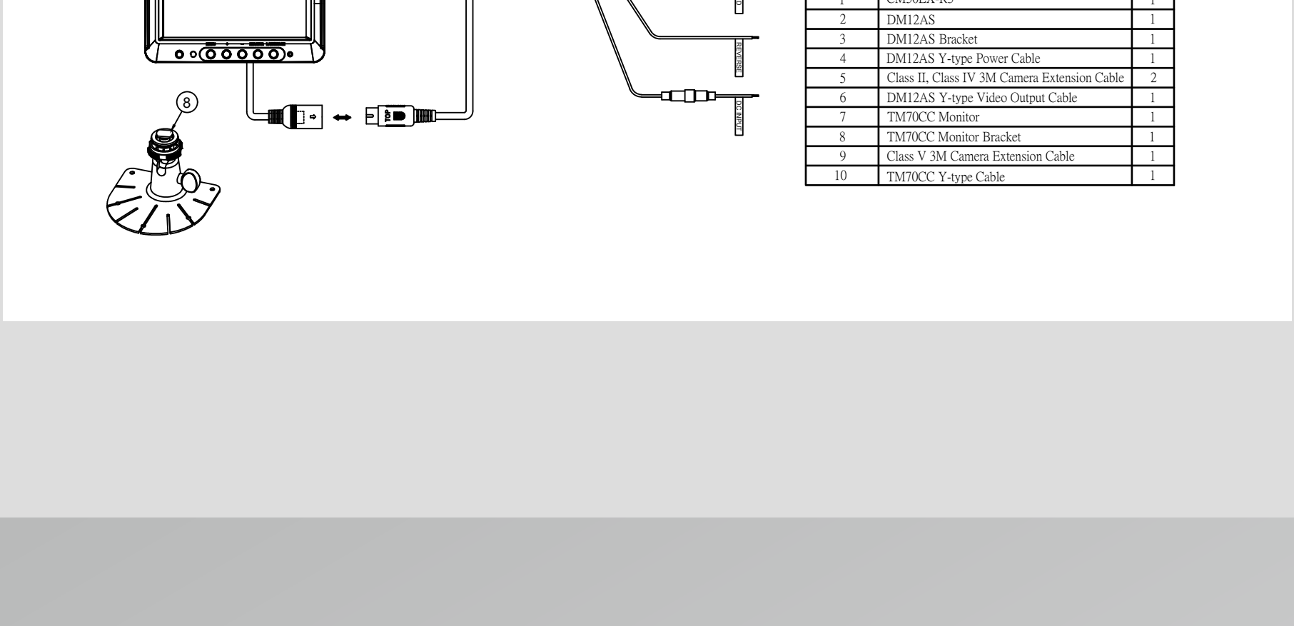
Class IV fields of vision:

The field of vision shall be such that the driver can see at least a 15m wide, flat, horizontal portion of the road, and extends from at least 10m to 25m behind the driver's ocular points.



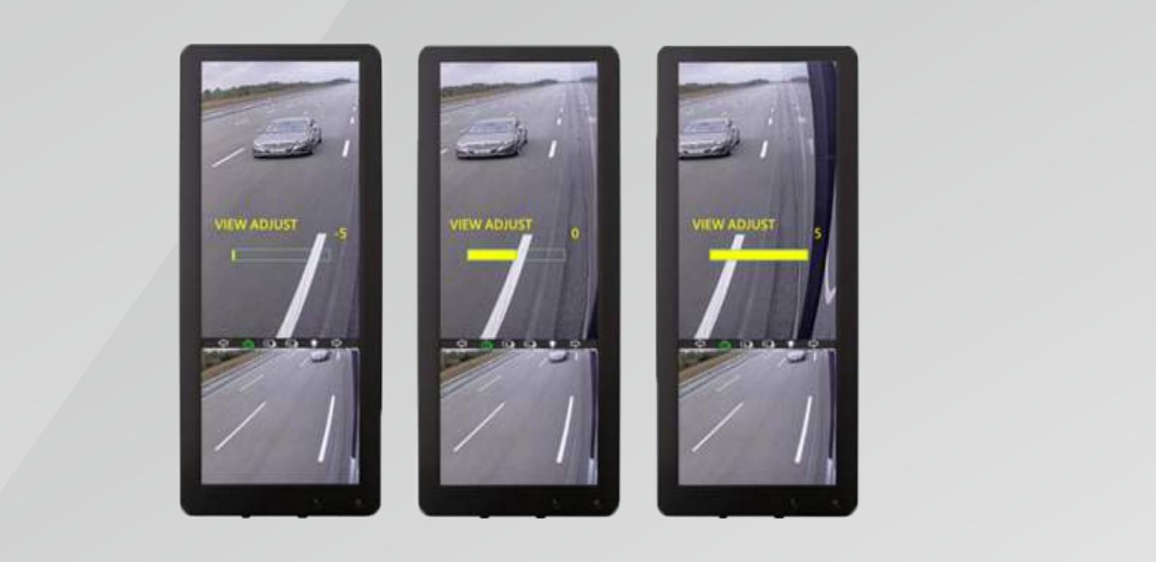
Class V fields of vision (optional):

- The field of vision shall be such that the driver can see a flat horizontal portion of the road along the side of the vehicle.
- Wide Angle design.
- Larger field of vision on the passenger side.



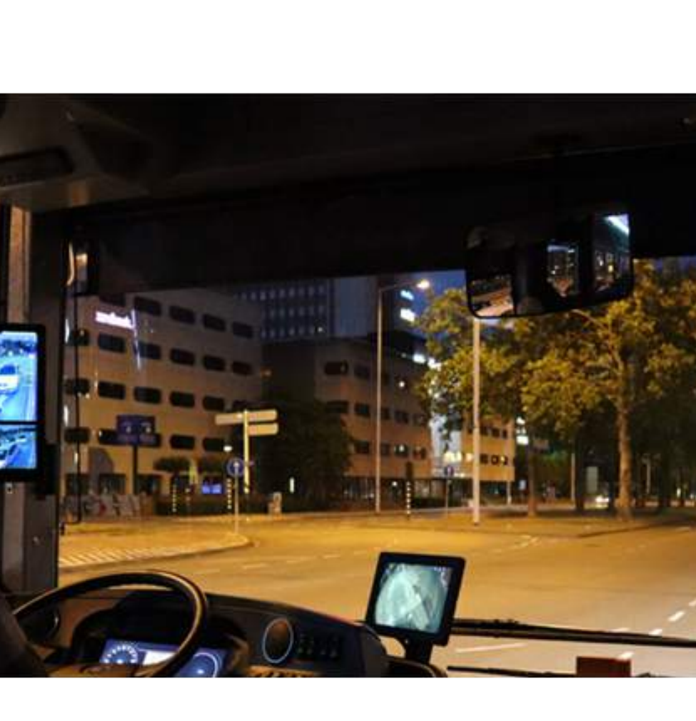
Item number	Name	Quantity
1	CM50EX-R3	1
2	DM12AS	1
3	DM12AS Bracket	1
4	DM12AS Y-type Power Cable	1
5	Class II, Class IV 3M Camera Extension Cable	2
6	DM12AS Y-type Video Output Cable	1
7	TM70CC Monitor	1
8	TM70CC Monitor Bracket	1
9	Class V 3M Camera Extension Cable	1
10	TM70CC Y-type Cable	1

ASSIST LINE



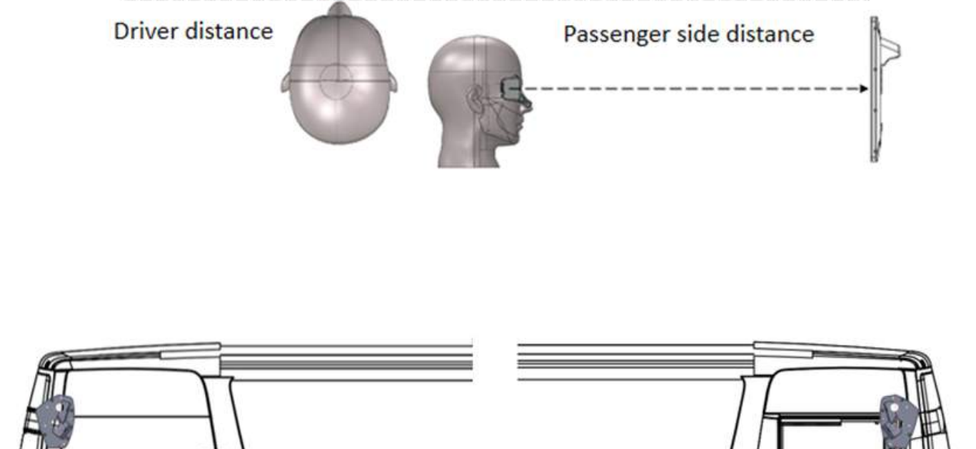
When turning left or right, the system will automatically appear to assist line if it turn on the function, so the driver can understand the distance between the car and another.

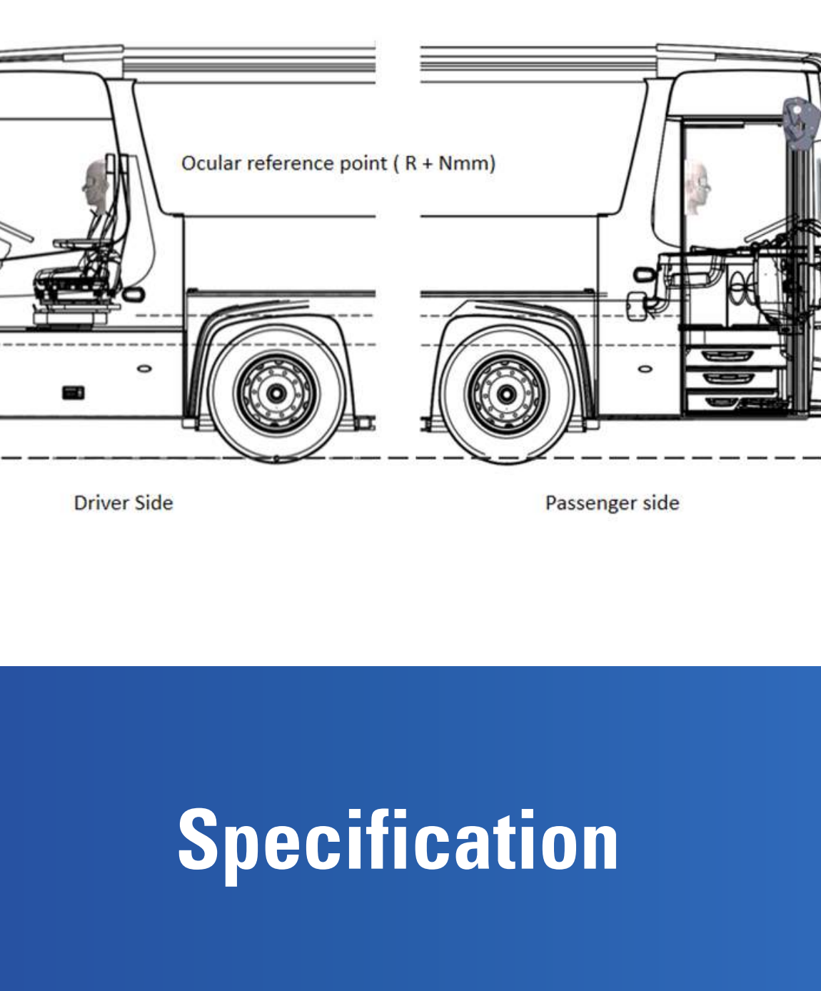
VIEW ADJUST setting

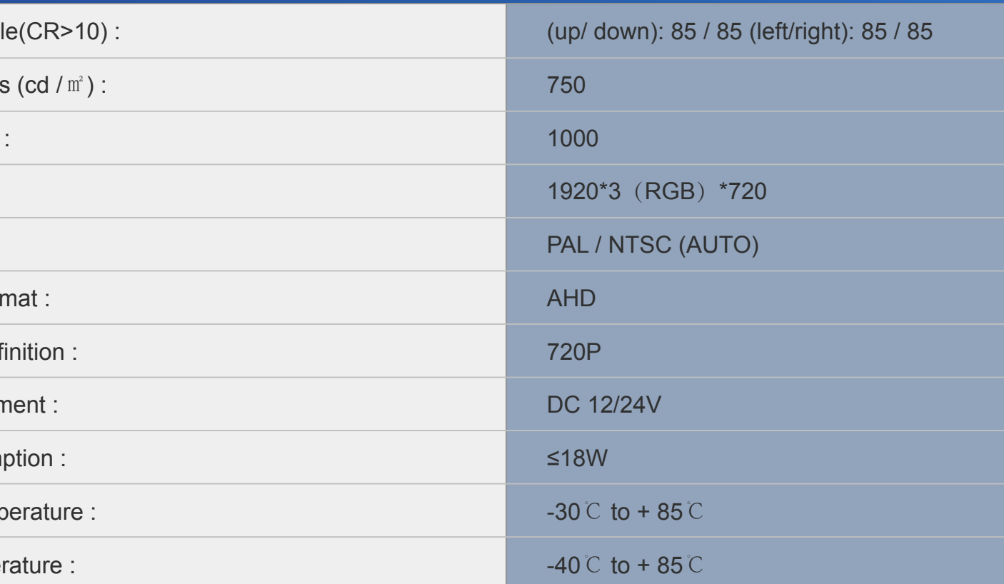


VIEW ADJUST design can be applied to different vehicle models when facing different installation conditions.

Installation Position







Specification

12.3” digital AHD monitor

• Wide view angle(CR>10) :	(up/ down): 85 / 85 (left/right): 85 / 85
• High brightness (cd / ㎡) :	750
• Contrast Ratio :	1000
• Resolution :	1920*3（RGB）*720
• Color system :	PAL / NTSC (AUTO)
• Video input format :	AHD
• Video input definition :	720P
• Power requirement :	DC 12/24V
• Power consumption :	≤18W
• Operating temperature :	-30℃ to + 85℃
• Storage temperature :	-40℃ to + 85℃

Camera: Class II、Class IV

• Image type :	1/3" CMOS image sensor
• Resolution(pixels) :	1280*720
• Color system :	PAL/ NTSC
• FOV :	Based on ECE UN-R46 CMS
• Video output format :	AHD 720P 25/30 FPS
• Waterproof & dust resistance :	IP69K
• Power supply :	DC 12 V
• Minimum illumination :	0.01 lux
• Operating Temperature :	- 40℃ ~ 85℃
• Storage Temperature :	- 40℃ ~ 85℃

Camera: Class V (Blind spot assist)

• Image type :	1/3" CMOS image sensor
• Resolution(pixels) :	1280*720
• Color system :	PAL/ NTSC
• FOV :	190°(H) / 140°(V)
• Video output format :	AHD 720P 25/30 FPS
• Waterproof & dust resistance :	IP69K
• Power supply :	DC 12 V
• Minimum illumination :	0.01 lux
• Operating Temperature :	-40℃ ~ 85℃
• Storage Temperature :	-40℃ ~ 85℃