Technical Data

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arcol

1. eMirror system

1.1. eMirror SET II / IV

Article number   **30 00 000**

System Description

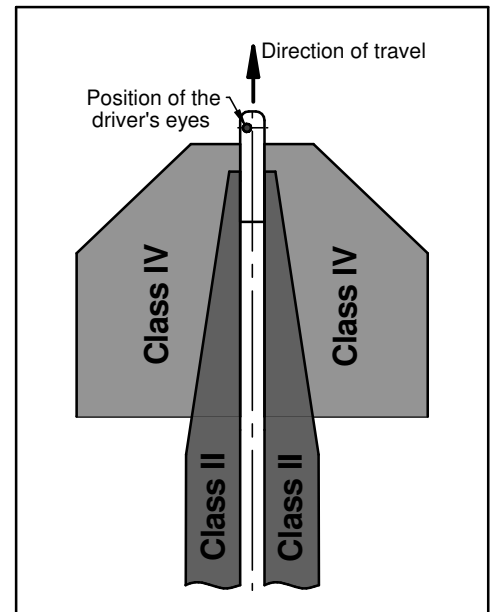Camera Monitor System according to regulation R46 for vehicles of categories M and N.

eMirror system has two camera-monitor units including:

-Exterior support with two heated cameras to meet specification of vision categories II and IV
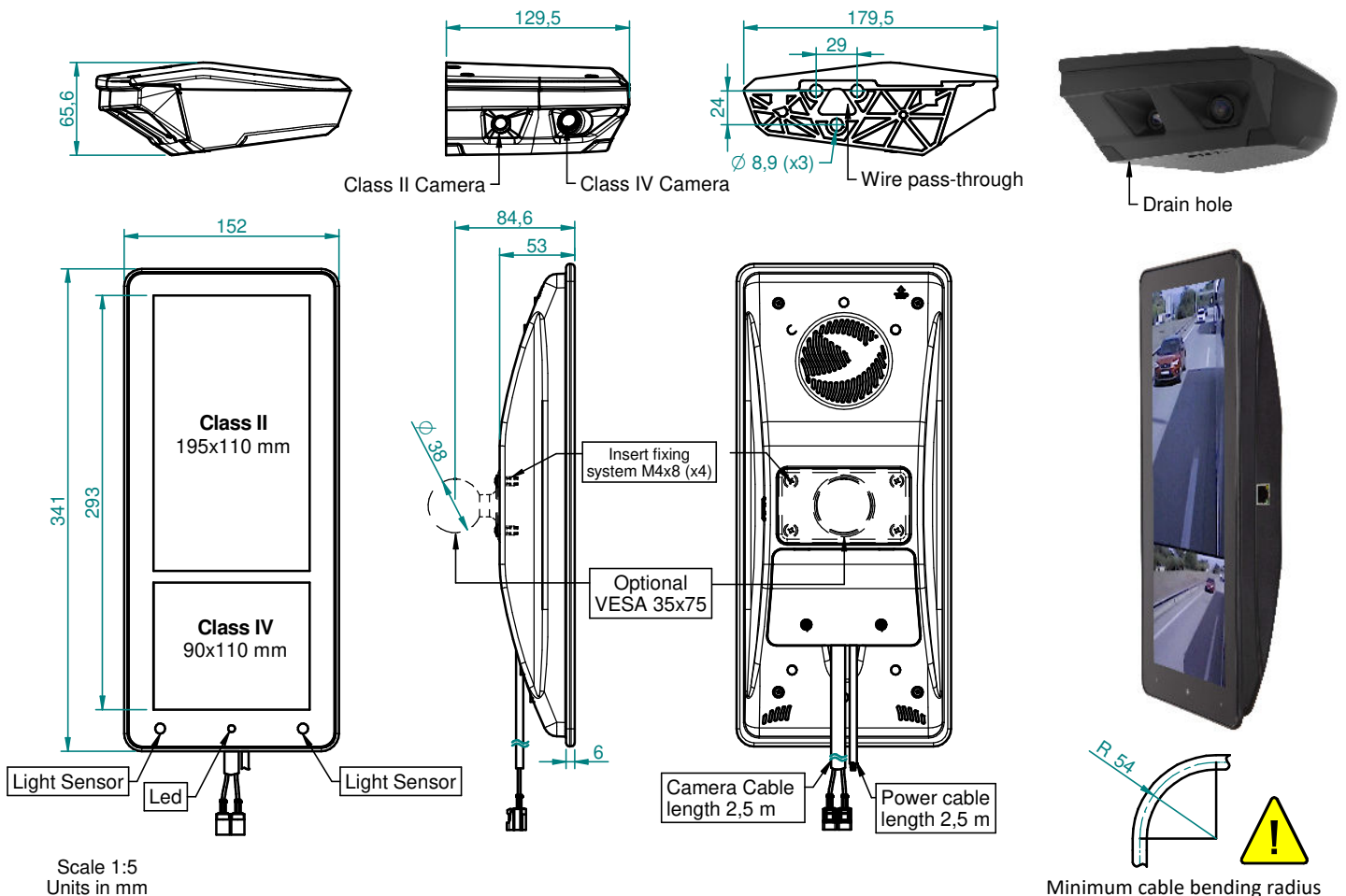-ECU unit
-Monitor 12,3"
-Wiring

Check related documentation to know technical specifications and assembly instructions.

Features

Heated cameras to improve performance at low temperature, flickering effect of LED optimized, flatted image and low visual latency.

1.1.1 Dimensions

Class II Camera   Class IV Camera   ⌀ 8,9 (x3)   Wire pass-through   Drain hole

Class II 195x110 mm

Class IV 90x110 mm

Light Sensor   Led   Light Sensor

Insert fixing system M4x8 (x4)

Optional VESA 35x75

Camera Cable length 2,5 m   Power cable length 2,5 m

R 54   Minimum cable bending radius

Scale 1:5
Units in mm

1.2. eMirror SET LH II / IV RH II / IV / V

Article number   **30 00 002**

System Description

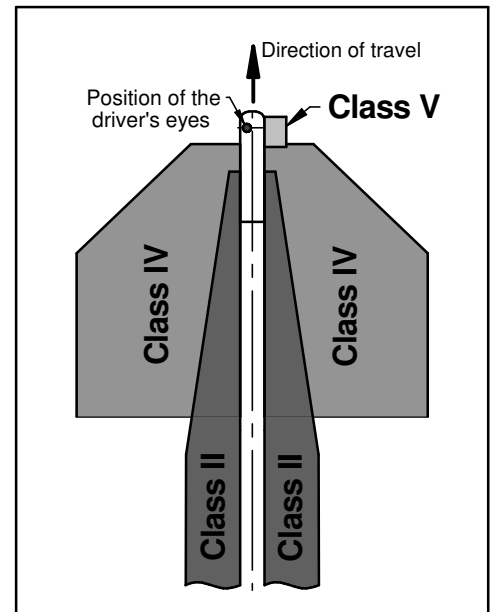Camera Monitor System according to regulation R46 for vehicles of categories M and N.

eMirror system has two camera-monitor units including:

-Exterior support with two heated cameras to meet specification of vision categories II and IV on the left side and three heated cameras to meet specification of vision categories II, IV and V on the right side
-ECU unit
-Monitor 12,3"
-Wiring

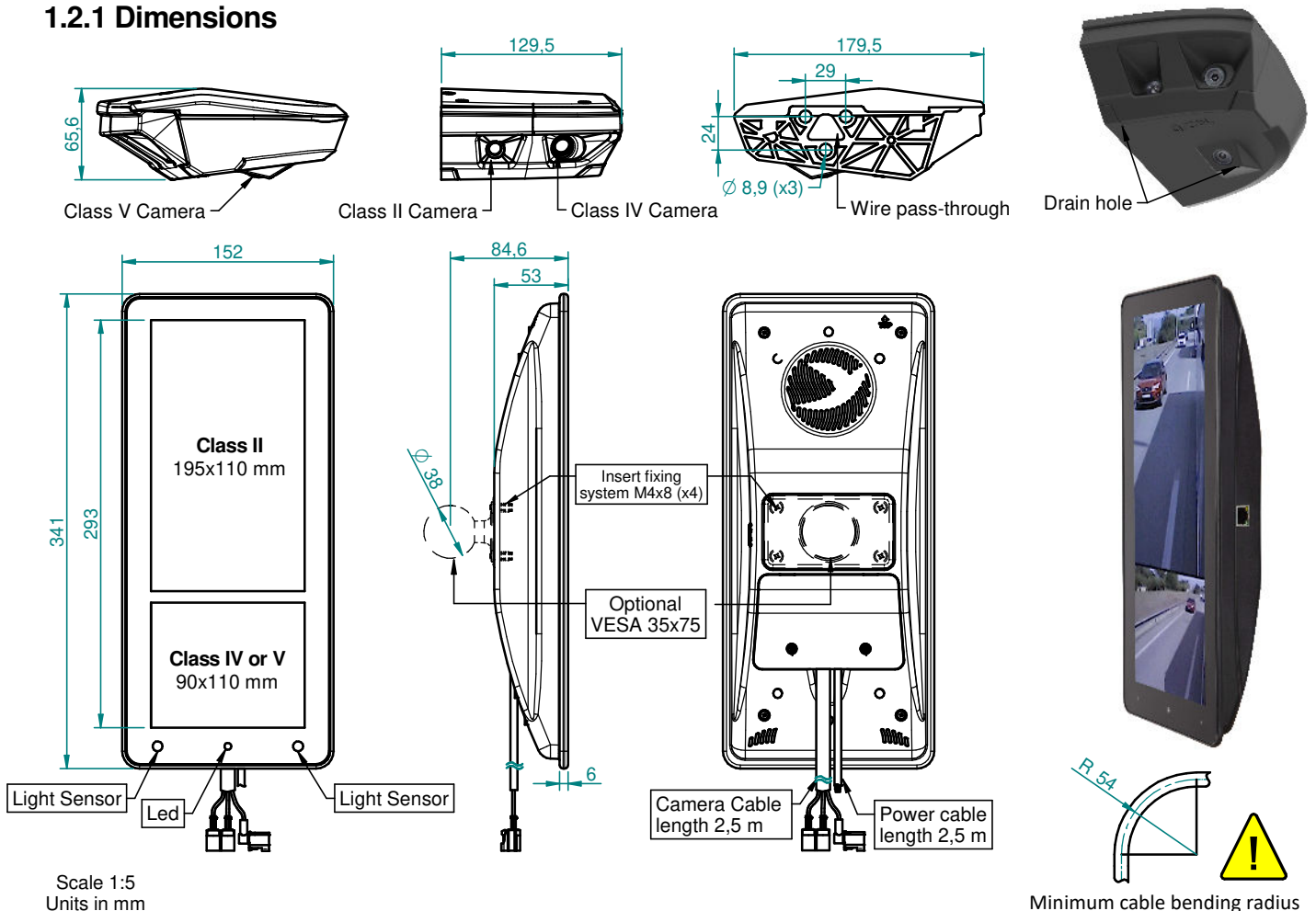Check related documentation to know technical specifications and assembly instructions.

Features

Heated cameras to improve performance at low temperature, flickering effect of LED optimized, flatted image and low visual latency.

Direction of travel

Position of the driver's eyes

Class V

Class IV   **Class IV**

Class II   **Class II**

Consult Industrial Arcol for the UK version of the eMirror system.

1.2.1 Dimensions

65,6

129,5

179,5

29

24

Ø 8,9 (x3)

Class V Camera   Class II Camera   Class IV Camera   Wire pass-through   Drain hole

152

84,6

53

Ø 38

Class II
195x110 mm

341

293

Insert fixing system M4x8 (x4)

Optional VESA 35x75

Class IV or V
90x110 mm

6

Light Sensor   Led   Light Sensor

Camera Cable length 2,5 m   Power cable length 2,5 m

R 54

Scale 1:5
Units in mm

Minimum cable bending radius

1.3. eMirror SET LH II / IV RH II / V

Article number   30 00 004

System Description

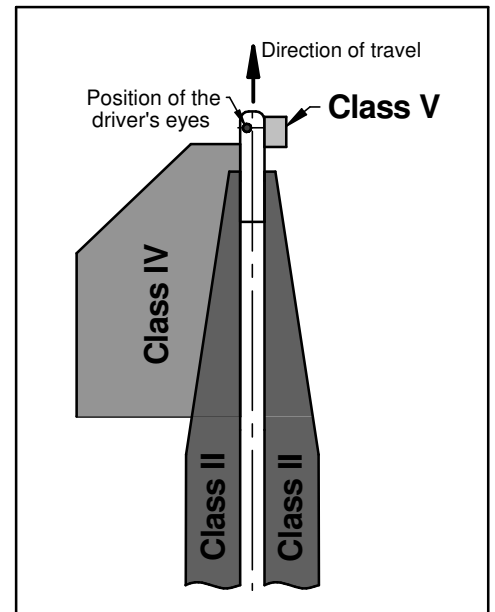Camera Monitor System according to regulation R46 for vehicles of categories M and N.

eMirror system has 2 camera-monitor units including:

-Exterior support with two heated cameras to meet specification of vision categories II and IV on the left side and two heated cameras to meet specification of vision categories II and V on the right side
-ECU unit
-Monitor 12,3"
-Wiring

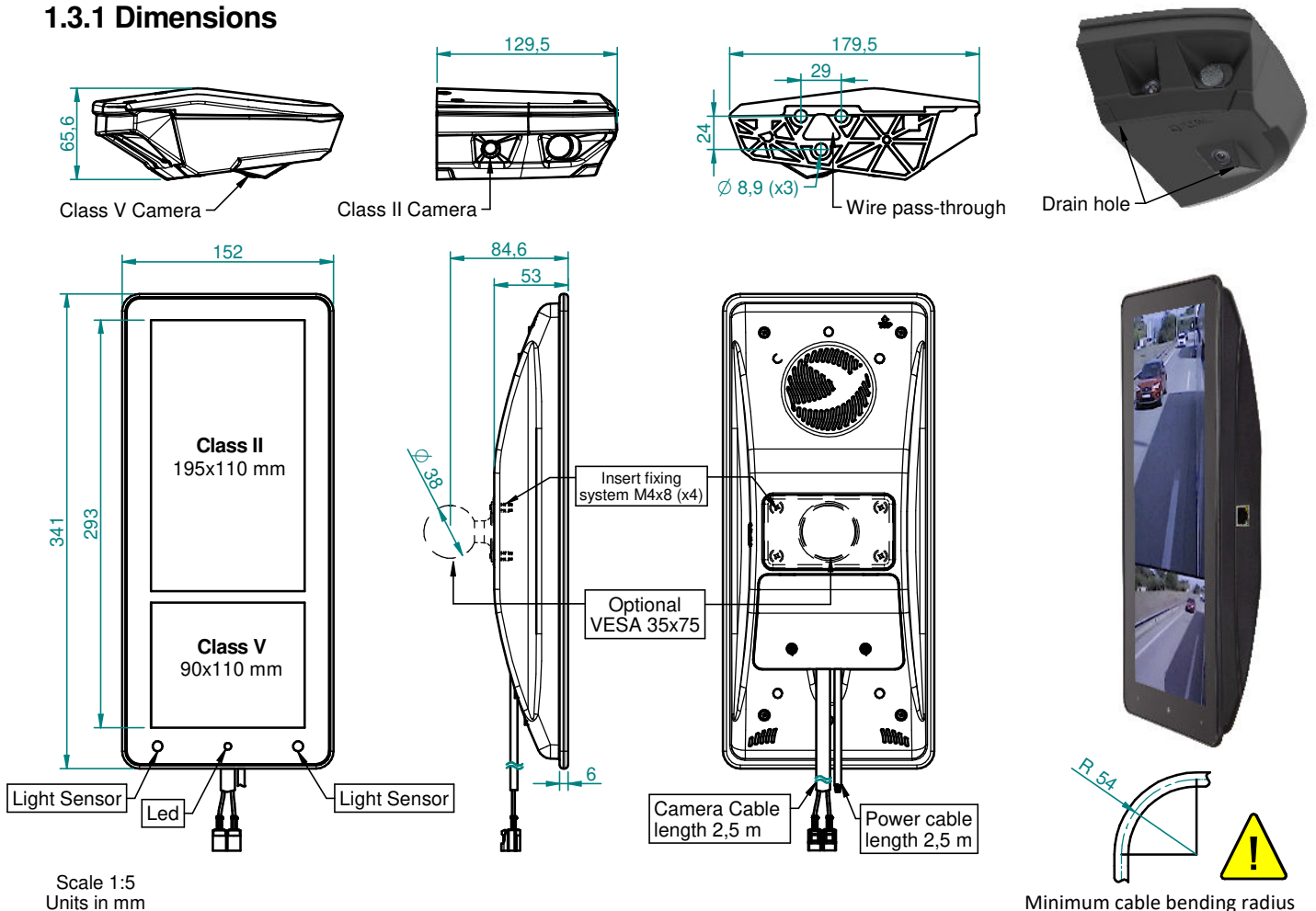Check related documentation to know technical specifications and assembly instructions.

Features

Heated cameras to improve performance at low temperature, flickering effect of LED optimized, flatted image and low visual latency.

Direction of travel

Position of the driver's eyes

Class V

Class IV

Class II   **Class II**

Consult Industrial Arcol for the UK version of the eMirror system.

1.3.1 Dimensions

129,5 | 65,6

Class V Camera ─

Class II Camera ─

179,5 | 29 | 24 | Ø 8,9 (x3) ─ Wire pass-through

Drain hole

152 | 341 | 293

Class II
195x110 mm

Class V
90x110 mm

Light Sensor | Led | Light Sensor

84,6 | 53 | Ø 38 | 6

Insert fixing system M4x8 (x4)

Optional VESA 35x75

Camera Cable length 2,5 m | Power cable length 2,5 m

R 54

Scale 1:5
Units in mm

Minimum cable bending radius

2. Technical Data

2.1. Camera Unit

Article number	**30 00 201 II / IV LH** **30 00 200 II / IV RH** **30 00 204 II / IV / V RH** **30 00 207 II / V RH**

Camera module	Two heated cameras with performance to meet II, IV and V vision categories.
Video stream	Without compression through coaxial cable.
Power	Supply through coaxial cable.

Protection	Camera IP69K
	Lens: Waterproof
	      Salt fog protection (IEC 60068-2-11)
	      Anti-dust (ISO 20653)
	      UV Anti-aging (ISO 4893-2-2013)

Optic	Class II H / V: 20,5º / 36º / Class IV and V H / V: 69º / 62º
Weight	0,6 Kg
Operating temperature range	Between -40ºC and 85ºC
Storage	Storage temperature -40ºC to 85ºC
Maintenance	Clean the camera lenses with a damp cloth periodically to ensure a sharp and clear image. Preferably, use specific cleaning products for lenses. Periodically check drain hole is not blocked to avoid damage to the camera unit.

2.2. Monitor 12,3 "

Article number	**30 00 101 II / IV LH** **30 00 100 II / IV RH** **30 00 103 II / V RH** **30 00 104 II / IV / V RH**
Backlight	TFT LED
Luminance	Typ. 850cd/m2
Contrast	1500
Surface Treatment	Anti-Reflective / Anti-Glare
Display module	12,3" (diagonal) 720 x 1296 pixels for Cat. II 720 x 604 pixels for Cat. IV and V
Bracket	Optional:VESA Support 35x75 Check the different models of arms and lengths compatible with support.
Communication	High speed bi-derectional over Coax cable, operational with active video channel.
Aspect ratio	Portrait 3:8
Frame rate	Monitor: 60 fps max. System auto-adjust until 45 fps max.
Weight	1,1 Kg
Operating temperature range	Between -40ºC and 85ºC
Storage	Storage Temperature -40ºC to 85ºC
Maintenance	Turn off the device prior cleaning. Use a damp cloth or non-abrasive wipe to avoid scratching the screen. Do not allow liquids to enter the unit. Avoid non-diluted bleach or ammonia solutions as these may cause discoloration.

Technical Data

2.3. Wiring system

Item number for each **Camera-Monitor Unit:**	**30 00 400 II / IV** **30 00 401 II / V** **30 00 402 II / IV / V**
Electrical connections	Connection of the system to the vehicle with power and ground cables. It consists of two cables connecting the chamber, one for the heating system and one for the power supply.
Weight	0,48 kg
Lenght	2,5 m

2.4. General Data

Color	Black
Voltage	DC 12V/24V
Operate Voltage	10-28V
StandBy Mode Current	100 µA
Power consumption (without heating)	Max. 40W
Power consumption (with heating)	Max. 56W
Inrush Current	3200mA
Operating temperature range	Between -40ºC and 85ºC
Storage	Storage temperature -40ºC to 85ºC
Approval number	R46 : II E2*46R04*21278 ; IV E2*46R04*21279 ; V E2*46R04*22213 R10 : E9*10R06*22854 R118 : E9*118R03*1339 ; E9118R03*1237
Product Warranty Period	2 years limited warranty
RoHS compliance	Yes
REACH compliance	Yes

V 01/2024:

- Add system consumption in content 2.4 General Data.

V 04/2024:

- Document update with eMirror version 1.2.
- Include information on the monitor fixing system if the VESA system is not included.
- Update camera maintenance recommendations.

V 07/2024:
- Add camera unit maintenance recommendations