

# R46



Camera installation heights for Class V and Class VI areas.

## VBV-770M monitor with VBV-300C/VBV-320C camera

UNECE R46 certification S-E9-04.11321

VBV-770M monitor with VBV-300C or VBV-320C camera					
<b>Class V area</b> Camera installation heights Allowing for vehicle lowering due to maximum loading	Viewing distance (Distance between eye and monitor)				
	500mm	1000mm	1500mm	2000mm	2500mm
Minimum mounting height (mm)	1150	1150	1150	1150	1150
Maximum mounting height (mm)	>4900	4900	4100	3200	2550
Minimum mounting height (mm) (larger field of vision)	1970	1970	1970	-	-
Maximum mounting height (mm) (larger field of vision)	>4700	3800	1970	-	-
<b>Class VI area</b> Camera installation heights Allowing for vehicle lowering due to maximum loading	Viewing distance (Distance between eye and monitor)				
	500mm	1000mm	1500mm	2000mm	2500mm
Minimum mounting height (mm)	1970	1970	1970	1970	-
Maximum mounting height (mm)	>4700	4230	3160	2420	-
<b>Combined Class V and VI areas (corner view)</b> Camera installation heights Allowing for vehicle lowering due to maximum loading	Viewing distance (Distance between eye and monitor)				
	500mm	1000mm	1500mm	2000mm	2500mm
Minimum mounting height (mm)	2700	2700	2700	-	-
Maximum mounting height (mm)	>4700	4300	3200	-	-
Minimum mounting height (mm) (larger field of vision)	3300	-	-	-	-
Maximum mounting height (mm) (larger field of vision)	4700	-	-	-	-

It is the responsibility of the installer/driver to ensure camera views are not obstructed by vehicle bodywork or other fixtures.



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Camera installation heights for Class V and Class VI areas.

## VBV-770M monitor with VBV-300C/VBV-320C camera and SS-002

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VBV-770M monitor with VBV-300C or VBV-320C camera. Full screen image with SS-002					
Class V area Camera installation heights Allowing for vehicle lowering due to maximum loading	Viewing distance (Distance between eye and monitor)				
	500mm	1000mm	1500mm	2000mm	2500mm
Minimum mounting height (mm)	1160	1160	1160	1160	1160
Maximum mounting height (mm)	>4900	4900	3900	3000	2400
Minimum mounting height. Larger field of vision (mm)	1980	1980	1980	-	-
Maximum mounting height. Larger field of vision (mm)	>4700	3230	1980	-	-
Class VI area Camera installation heights Allowing for vehicle lowering due to maximum loading	Viewing distance (Distance between eye and monitor)				
	500mm	1000mm	1500mm	2000mm	2500mm
Minimum mounting height (mm)	1980	1980	1980	1980	-
Maximum mounting height (mm)	>4700	3990	3050	1980	-

VBV-770M monitor with VBV-300C or VBV-320C camera. Half screen image with SS-002					
Class V area Camera installation heights Allowing for vehicle lowering due to maximum loading	Viewing distance (Distance between eye and monitor)				
	500mm	1000mm	1500mm	2000mm	2500mm
Minimum mounting height (mm)	1140	1140	1140	1140	-
Maximum mounting height (mm)	>4700	3420	2330	1520	-
Minimum mounting height. Larger field of vision (mm)	1980	-	-	-	-
Maximum mounting height. Larger field of vision (mm)	3560	-	-	-	-
Class VI area Camera installation heights Allowing for vehicle lowering due to maximum loading	Viewing distance (Distance between eye and monitor)				
	500mm	1000mm	1500mm	2000mm	2500mm
Minimum mounting height (mm)	1980	1980	-	-	-
Maximum mounting height (mm)	>4700	2380	-	-	-

It is the responsibility of the installer/driver to ensure camera views are not obstructed by vehicle bodywork or other fixtures.



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Camera installation heights for Class V and Class VI areas.

## VBV-770M monitor with BN-360-000 360° camera system

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VBV-770M monitor with BN-360-000. Full screen					
<b>Class V area</b> Camera installation heights Allowing for vehicle lowering due to maximum loading	Viewing distance (Distance between eye and monitor)				
	500mm	1000mm	1500mm	2000mm	2500mm
Minimum mounting height (mm)	1500	1500	-	-	-
Maximum mounting height (mm)	>4000	4000	-	-	-
Minimum mounting height. Larger field of vision (mm)	1500	1500	-	-	-
Maximum mounting height. Larger field of vision (mm)	>4000	4000	-	-	-
<b>Class VI area</b> Camera installation heights Allowing for vehicle lowering due to maximum loading					
	Viewing distance (Distance between eye and monitor)				
	500mm	1000mm	1500mm	2000mm	2500mm
Minimum mounting height (mm)	1500	1500	-	-	-
Maximum mounting height (mm)	>4000	4000	-	-	-

VBV-770M monitor with BN-360-000. Standard split screen					
<b>Class V area</b> Camera installation heights Allowing for vehicle lowering due to maximum loading	Viewing distance (Distance between eye and monitor)				
	500mm	1000mm	1500mm	2000mm	2500mm
Minimum mounting height (mm)	1500	-	-	-	-
Maximum mounting height (mm)	4000	-	-	-	-
Minimum mounting height. Larger field of vision (mm)	1500	-	-	-	-
Maximum mounting height. Larger field of vision (mm)	4000	-	-	-	-
<b>Class VI area</b> Camera installation heights Allowing for vehicle lowering due to maximum loading					
	Viewing distance (Distance between eye and monitor)				
	500mm	1000mm	1500mm	2000mm	2500mm
Minimum mounting height (mm)	1500	-	-	-	-
Maximum mounting height (mm)	4000	-	-	-	-

### Additional installation information for BN-360-000

- Nearside camera must be positioned at a maximum distance of 7.5m from the front of the vehicle.
- Front camera to be located centrally. If not possible, position off-centre towards the nearside.
- Ensure views are not obstructed by objects or bodywork.
- Calibration must ensure areas V and VI are completely covered and visible.
- The distance outwardly visible at ground level from the nearside of the vehicle must be 5m ± 0.2m

It is the responsibility of the installer/driver to ensure camera views are not obstructed by vehicle bodywork or other fixtures.



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## VBV-770M monitor with VBV-700C/VBV-790C camera

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VBV-770M monitor with VBV-700C or VBV-790C camera					
<b>Class V area</b> Camera installation heights Allowing for vehicle lowering due to maximum loading	Viewing distance (Distance between eye and monitor)				
	500mm	1000mm	1500mm	2000mm	2500mm
Minimum mounting height (mm)	1530	1530	1530	1530	1530
Maximum mounting height (mm)	>4900	>4900	4470	3680	2900
Minimum mounting height. Larger field of vision (mm)	2590	2590	2590	-	-
Maximum mounting height. Larger field of vision (mm)	4630	4050	2590	-	-
<b>Class VI area</b> Camera installation heights Allowing for vehicle lowering due to maximum loading	Viewing distance (Distance between eye and monitor)				
	500mm	1000mm	1500mm	2000mm	2500mm
Minimum mounting height (mm)	2590	2590	2590	2590	-
Maximum mounting height (mm)	>4700	4630	3470	2590	-

It is the responsibility of the installer/driver to ensure camera views are not obstructed by vehicle bodywork or other fixtures.



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## VBV-770M monitor with VBV-700C/VBV-790C camera and SS-002

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VBV-770M monitor with VBV-700C or VBV-790C camera. Full screen image with SS-002					
<b>Class V area</b> Camera installation heights Allowing for vehicle lowering due to maximum loading	Viewing distance (Distance between eye and monitor)				
	500mm	1000mm	1500mm	2000mm	2500mm
Minimum mounting height (mm)	1530	1530	1530	1530	1530
Maximum mounting height (mm)	>4900	>4900	4700	3960	3210
Minimum mounting height. Larger field of vision (mm)	2590	2590	2590	-	-
Maximum mounting height. Larger field of vision (mm)	>4700	4200	2590	-	-
<b>Class VI area</b> Camera installation heights Allowing for vehicle lowering due to maximum loading	Viewing distance (Distance between eye and monitor)				
	500mm	1000mm	1500mm	2000mm	2500mm
Minimum mounting height (mm)	2590	2590	2590	2590	-
Maximum mounting height (mm)	>4700	4540	3600	2600	-

VBV-770M monitor with VBV-700C or VBV-790C camera. Half screen image with SS-002					
<b>Class V area</b> Camera installation heights Allowing for vehicle lowering due to maximum loading	Viewing distance (Distance between eye and monitor)				
	500mm	1000mm	1500mm	2000mm	2500mm
Minimum mounting height (mm)	1490	1490	1490	1490	1490
Maximum mounting height (mm)	4480	3150	2030	1490	-
Minimum mounting height. Larger field of vision (mm)	-	-	-	-	-
Maximum mounting height. Larger field of vision (mm)	-	-	-	-	-
<b>Class VI area</b> Camera installation heights Allowing for vehicle lowering due to maximum loading	Viewing distance (Distance between eye and monitor)				
	500mm	1000mm	1500mm	2000mm	2500mm
Minimum mounting height (mm)	2580	-	-	-	-
Maximum mounting height (mm)	3980	-	-	-	-

It is the responsibility of the installer/driver to ensure camera views are not obstructed by vehicle bodywork or other fixtures.

