

THE NETHERLANDS
(N E D E R L A N D)EC COMPONENT TYPE-APPROVAL CERTIFICATE FOR A DEVICE FOR INDIRECT
VISION

Notification concerning the grant, ~~refusal, withdrawal or extension~~ of EC component
type-approval for a type of device for indirect vision.

EC component type-approval number : e4*2003/97*2005/27*3560*00

1. Trade name or mark : Brigade Electronics Plc
2. Identification of the devices : camera/monitor ⁽¹⁾
 - in the case of a mirror Class : I, II, III, IV, V, VI ⁽¹⁾
 - in the case of a camera/monitor or other device for indirect vision : S ⁽¹⁾
3. Name and address of manufacturer : Brigade Electronics Plc,
Brigade House,
The Mills, Station Road
South Darenth,
Kent DA4 9BD
4. If applicable, name and address of manufacturer's authorised representative : N.A.
5. Symbol \triangle_m defined in item 4.1.1 of part A of Annex II : yes/no/N.A. ⁽¹⁾
6. Submitted for type-approval on : 30 August 2011
7. Test laboratory : RDW
P.O. Box 777
2700 AT Zoetermeer
The Netherlands



Type-approval number: e4*2003/97*2005/27*3560*00

8. Date and number of laboratory report : 14 October 2011
RDW-2003/97-0152
9. Date of grant/~~refusal/withdrawal/~~
~~extension~~ of EC component type-
approval : 14 October 2011
10. Place : Zoetermeer
11. Date : 14 October 2011
12. The following documents, bearing the type-approval number shown above, are annexed to this type-approval certificate (descriptive notes, drawings, diagrams and plans):

See attached documentation 61 pages

These documents must be supplied to the competent authorities of the other Member States at their express request.

Remarks, if any, particularly as regards restrictions on use and/or conditions for fitting:

For details concerning the fitting of the camera and monitor system check the data mentioned in the information document

This certificate covers the following camera and monitor combinations:

VBV-750DM Monitor in combination with one the following cameras:
VBV-7XXC (Including VBV-700C, VBV-790C)
BE-50XXC (Including BE-500HC, BE-500VC)
BE-30XC (Including BE-300C, BE-301C, BE-302C, BE-303C, BE-304C, BE-305C,
BE-306C)
VBV-48XC (Including VBV-485C)
VBV-0X0C (Including VBV-010C, VBV-020C, VBV-030C, VBV-040C, VBV-060C)

Signature :


A.A.M. van der Burg

⁽¹⁾ Delete where inapplicable

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	INDIRECT VISION DEVICES	JOB. NO. :	
	2003/97 as amended by 2005/27/EC	PAGE NO. :	1/3
		ISSUE :	02
	INFORMATION DOCUMENT	DATE :	

0. GENERAL

0.1. Make (trade name of manufacturer):

Brigade Electronics Plc

0.2. Type:

VBV-750DM-xxxxxx

0.3. Means of identification of the type, if indicated on the device:

VBV-750DM Monitor in combination with one the following cameras:

- **VBV-7XXC (Including VBV-700C, VBV-790C)**
- **BE-50XXC (Including BE-500HC, BE-500VC)**
- **BE-30XC (Including BE-300C, BE-301C, BE-302C, BE-303C, BE-304C, BE-305C, BE-306C)**
- **VBV-48XC (Including VBV-485C)**
- **VBV-0X0C (Including VBV-010C, VBV-020C, VBV-030C, VBV-040C, VBV-060C)**

NB: All cameras listed above are compatible with the VBV-L Series Cables & associated adapter cables.

0.4. Category of vehicle for which the device is intended:

M2,

M3,

N2 > 7,5t and

N3 (having a special bodywork for refuse collection))

0.5. Name and address of manufacturer:

**Brigade Electronics Plc,
Brigade House,
The Mills, Station Road
South Darenth,
Kent DA4 9BD**

0.7. Location of and method of affixing the EC and ECE type-approval mark:

Adhesive label affixed to rear of monitor-housing see attached label drawing.



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0.8. Address(es) of the production plant(s):

**5/F, #3 Building,
Huangzhou Industrial Park,
Chebei Road,
Tianhe District,
Guangzhou,
Guangdong,
China**

1. DEVICE FOR INDIRECT VISION

1.1. Mirrors (state for each mirror)

1.1.3. Variant:

NOT APPLICABLE..

1.1.4. Drawing(s) for the identification of the mirror:

NOT APPLICABLE..

1.1.5. Details of the method of attachment:

NOT APPLICABLE..

1.2. Devices for indirect vision other than mirrors:

1.2.1. Type and characteristics (such as a complete description of the device):

A camera monitor device

1.2.1.1. In the case of camera-monitor device, the detection distance (mm), contrast, luminance range, glare correction, display performance (black and white/colour), image repetition frequency, luminance reach of the monitor:

- **Smallest detail (arcmin):**
VBV-750DM with BE-500XC camera : 14,4
VBV-750DM with BE-30XC camera : 9,4
VBV-750DM with VBV-700XC camera : 11,7
- **The detection distance (m):**
VBV-750DM with BE-500XC camera : 9,1
VBV-750DM with BE-30XC camera : 14,0
VBV-750DM with VBV-700XC camera : 11,2



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- The smallest detail (mm):
VBV-750DM with BE-500XC camera : 0,19
VBV-750DM with BE-30XC camera : 0,22
VBV-750DM with VBV-700XC camera : 0,24
- The critical viewing distance (cm):
VBV-750DM with BE-500XC camera : 64
VBV-750DM with BE-30XC camera : 77
VBV-750DM with VBV-700XC camera : 82
- The maximum viewing distance (cm):
VBV-750DM with BE-500XC camera : 132
VBV-750DM with BE-30XC camera : 247
VBV-750DM with VBV-700XC camera : 209
- Contrast: 500:1
- Luminance range: min 150cd/m² – max 200cd/m²
- Glare correction: Anti-Glare Coating applied to LCD Panel (Blue coating)
- Display performance (black and white/colour): Colour display
- Image repetition: NTSC 30 Frames/second – PAL 25 Frames/second
- Frequency: 50-Hz (PAL) / 60 Hz (NTSC)

1.2.1.2. Sufficiently detailed drawings to identify the complete device including the installation instructions; the position for the EC type-approval mark has to be indicated on the drawings:

System overview for all camera-monitor combinations:

“BE-001763-00-11 - VBV-750DM TNO TEST 2.pdf”

Fitting instructions for all camera-monitor combinations:

“VBV-750DM Instruction Set.pdf”

LCD Panel Specification:

“VBV-750DM Panel Spec.pdf”

Product Drawings including label location:

“VBV-750DM Drawing Set.pdf”

Product Label Drawing:

“VBV-750DM(R46) (3981) PD-LBL.pdf”

