

**Mounting and Operating Instructions of the  
RP300 Serie  
for mobile video surveillance**



## Foreword

**Dear Customer,**

By selecting a product of Verint Video Solutions GmbH, you have chosen a professional device that ensures the highest quality and reliability. We would like to thank you here again for putting your trust in us and ask that you read carefully the following information prior to operating the device so that you can fully enjoy all the advantages of this product.

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## Contents

Product overview.....	4
Security information.....	4
EPlace of installation.....	5
Scope of delivery.....	5
Accessories / additional devices.....	5
Warranty.....	5
<b>Installation.....</b>	<b>6</b>
System overview.....	6
Detailed view.....	6
Mounting.....	7
Connecting diagram.....	8
<b>Initial Operating.....</b>	<b>8</b>
Settings / configuration.....	8
<b>Appendix.....</b>	<b>9</b>
Technical Specifications.....	9
Cleaning and maintenance / servicing information.....	10
Error search.....	10
Technical support.....	11

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## General information

### Product overview

The mini dome camera housings of the Verint® RP 300 Series provide a reliable solution for mobile vehicles such as buses.

With a housing made of aluminium, the colour cameras of the RP300 series provide high-resolution pictures.

The housing has rounded edges to minimize the risk of injury to passengers. The cameras are designed to operate in very bright but also in dark places. The RP 300 Series meets common mobile transportation standards for Europe.

When combined with our wide range of recorders and monitors, the RP 300 Series provides a comprehensive networked digital video surveillance solution to help transit personnel protect people and property, refute false claims, and reduce frivolous lawsuits.

### Security information

- Please read these instructions carefully before you operate the device. This will avoid possible damages resulting from improper use.
- The device should only be installed by qualified professionals according to existing VDE (Association for Electrical, Electronic & Information Technologies) regulations.
- Operate the cameras exclusively using the normal service voltage indicated.
- Observe any warnings on the device.
- The camera should only be used in a dry, dust-free and non-hazardous environment.
- Never use the device for purposes others than those for which it was intended.
- The device should be repaired only by qualified professionals.
- Should liquids or hard objects enter the housing, disconnect the power supply immediately. Have the device checked by a qualified professional before you use it again (risk of electric shock).
- Operate the device only indoors.
- To avoid internal heat build-up in the device:
  - the device should not be subjected to direct sunlight
  - should have adequate distance from direct heat sources. For cleaning and maintaining the camera, follow the directions given in these instructions.

## General information

### Place of installation

The camera is specially designed for video surveillance in busses and fulfills the required European standards for public transport.

### Scope of delivery

- High resolution vandalism-proof dome camera with 4.3 mm pinhole – fixed lens
- connection cable
- Mounting materials
- Mounting instructions

### Accessories / additional devices

- Video cable 75 Ohm (e.g., RG-59)
- BNC connector

### Warranty

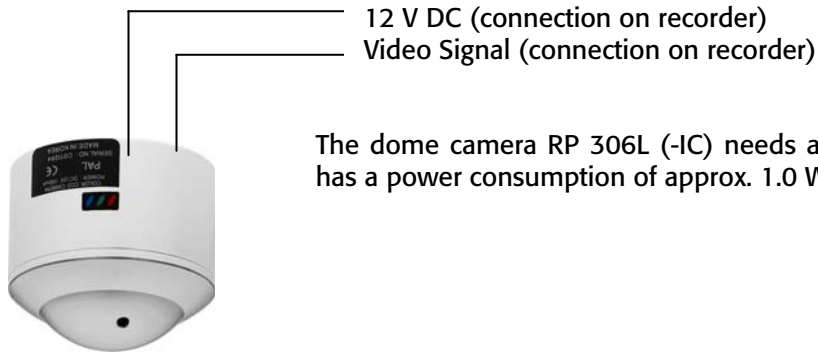
The warranty is valid for 24 months and begins on the date of delivery. Any defects must be reported within 10 working days following delivery of the product. Hidden defects must be reported immediately when they are discovered.

The warranty does not include damages to the products caused by accidents, unsuitable or improper usage, non-authorized or incorrect mounting or startup, incorrect or improper handling, damages during transport or improper maintenance. The warranty does not include costs you incur from installation or initial operation as part of a warranty claim.

In response to a warranty claim we can choose to provide a replacement or repairs within an appropriate period of time. If the defect is not successfully remedied we have the option of rescission or reduction, in case of a negligible defect of reduction only.

## Installation

### System overview



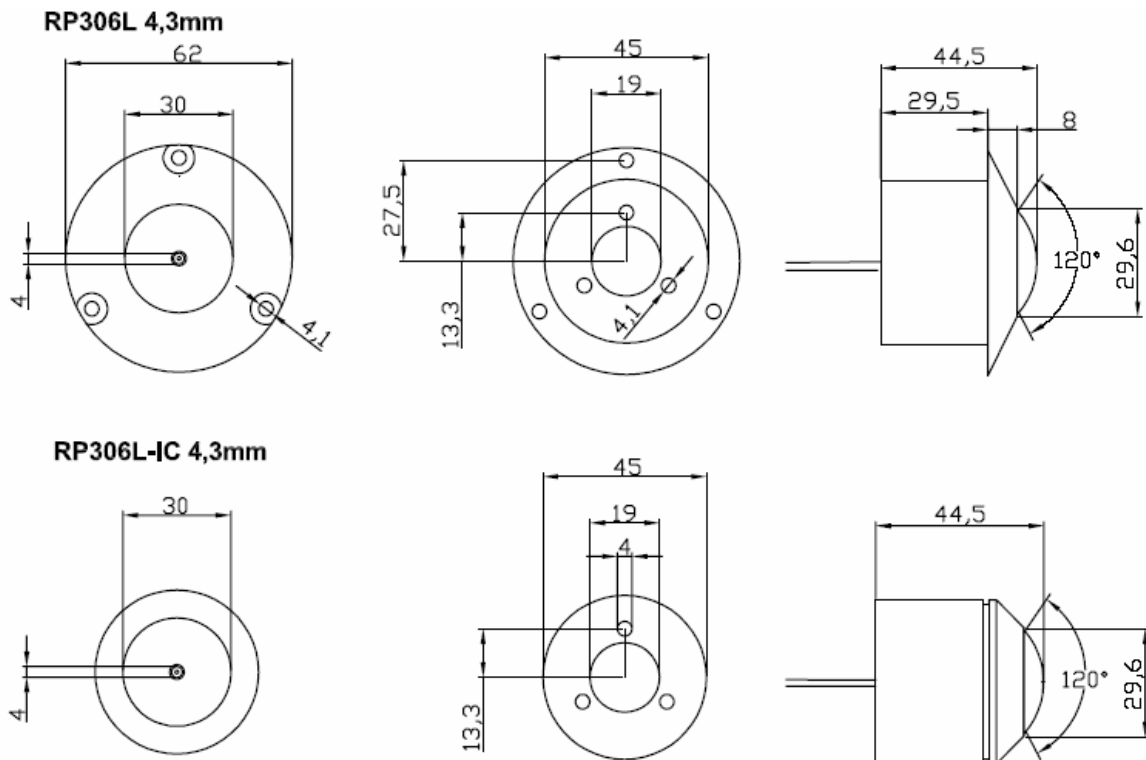
The dome camera RP 306L (-IC) needs a stabilised power supply 12 V DC and has a power consumption of approx. 1.0 W.

### Cable connections

It is possible to lay separate cables for all connections.

Video = coaxial cable 75 Ω, (F)BAS, 1 Vss/75 Ω  
Power supply = Operating Voltage: 12 V DC / GND

### Detailed view



All specifications in mm!

## Installation

### Mounting

#### Information on camera mounting location

- Keep an adequate distance to direct heat sources.
- Do not point the camera towards artificial lighting, the sun, the sky or in the direction of a window. The best image quality will be achieved if both camera and lighting point to the area you want to record.
- Reduce the picture section to the essential area and install the camera as close to the object as possible.
- Avoid head lights as back light in the video picture (also caused by reflections, e.g. on window panes).

#### Mounting the mini dome camera

Attach the camera along with the accompanying mounting materials to the position you have chosen. The housing of the RP 306L (-IC) can be used for marking the mounting holes.

When mounting the RP-306L-IC (installation version), cut a suitable hole with a diameter of approx. 46 mm. Attach the camera properly.

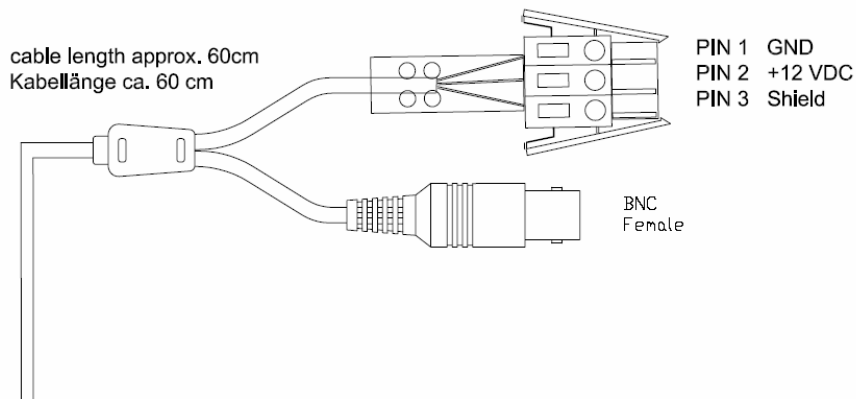
#### Set the angle

After mounting the camera, adjust the correct picture section by rotating the internal dome. First loosen the front retainer ring of the mini dome housing so that the dome can be adjusted freely. After positioning the camera, please attach the retainer ring again.

When adjusting the angle of the RP 306L-IC, first dismount the camera from its mounting location.

## Installation / Initial Operation

### Connecting diagram



- Connect the video output signal of the camera (BNC jack) using a suitable video cable (insulated coaxial cable, 75 Ohm) to the designated video input of the recorder. Make sure that the BNC connector fits correctly and cleanly.
- The recorder provides service voltage to the attached cameras (12 V DC). Use a suitable cable for connecting the power supply and make sure the connector fits correctly and cleanly and has the correct polarity. Operate the camera exclusively using the normal service voltage indicated. The mating component of the system voltage plug (Wago male) is included in the scope of delivery.

### Settings / configuration

Check to see that the camera provides an acceptable video signal and that the picture section was chosen correctly. Correct the angle if necessary.

Please never open the dome camera itself. There are no further setting options on the inside of the camera module.



## Appendix

### Technical Specification RP 306L / RP 306L-IC

CCD Sensor	1/3" Sony Super HAD Interline CCD
Max. pixels (h x v)	768 x 576
Horizontal resolution	460 TV lines
Sensitivity	0.02 lux on sensor / 0.4 lux with F2.0
TV standard	PAL, 625 lines
Enhancer	Yes
Gamma correction	0.45
Electronic Shutter	Automatic, 1/50 -1/100,000 sec.
Signal-to-noise ratio	45 dB (AGC off)
AGC	26 dB
Synchronisation	Internal
Backlight	Automatic
Spectral response	380 – 660 nm
Smear effect	0.01%
Video output signal	FBAS 1V <sub>ss</sub> / 75 Ohm, BNC
Service voltage	12V/DC (DC 8.0 – 18.0 V)
Performance	max. 1 W
Operating temperature	-10° to +55°C
Storage temperature	-25° to +70°C
Humidity	90 % (not condensed)
Protective system according to association German electro technicians (VDE)	IP41, class III
MTBF	80,000 hours
Housing shape	Mini dome camera (silver)
Connections	Connecting cables with open cable ends (12VDC) / BNC plugs (video)
Weight	0.16 kg
Mounting	RP 306L: Surface type ceiling attachment RP 306L-IC: Ceiling installation
Lens	4.3mm semi pinhole F2.5
Dimensions (diameter / height)	RP 306L: 45 mm / 44.5 mm RP 306L-IC: 62 mm / 44.5 mm
Extended product standards	"e" mark

## Appendix

### Cleaning and maintenance / servicing information

Before cleaning or servicing the camera, disconnect it from the power supply.

Clean the camera housing with a dry or slightly moist cloth (add a few drops of dishwashing liquid). Never use organic solutions such as thinners, alcohols, petroleum products etc. for cleaning.

The interior of the device should only be cleaned by customer service or by qualified professionals. To safeguard the electrical components, the interior of the device should never be cleaned with water or other liquids or be immersed in water.

The instructions should be included if giving the device to a third party.

### Error search

Error description	Cause
Camera station does not send a video signal.	<ul style="list-style-type: none"> <li>◆ Check the connection of the service voltage (12 V DC).</li> <li>◆ Check the connection of the video cable at the camera.</li> <li>◆ Check to see that your power supply is functioning (12 V DC)</li> <li>◆ Check the connections to the camera (video / voltage).</li> </ul>
The video picture is too dark	<ul style="list-style-type: none"> <li>◆ There is insufficient lighting</li> </ul>
The video picture is out of focus	<ul style="list-style-type: none"> <li>◆ The focus is not adjusted properly.</li> </ul>
Video picture has double images (ghosts)	<ul style="list-style-type: none"> <li>◆ Incorrect 75 <math>\Omega</math> terminating resistance</li> <li>◆ Video cable shielding is broken</li> </ul>

If there is still no change after following the help measures described above, please contact Technical Support with an exact description of the error.

## Appendix

### Technical support

Should difficulties arise while installing or operating the device, we offer you technical support at +49 (0) 4321 269 81 36 or at [mobilesupport@verint.com](mailto:mobilesupport@verint.com) .

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**Order no.:** RP32000001 (300L)  
**Order no.:** RP32000002 (306L-IC)