

Continental 
The Future in Motion



RightViu





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Use and storage of this manual

This operating manual makes the safe and efficient use of the RightViu® Turn Assist system possible.

This operating manual is part of the product. The driver must be provided with the operating manual after commissioning.

The operating manual must be stored in the direct vicinity of RightViu® and must be accessible to the driver at all times.

The driver must read through and understand this manual before starting driving. A pre-requisite for safe application is compliance with all the safety information and

instructions provided in this manual.

Images in this manual are for general understanding and may deviate from the actual version used.

Limitation of liability

Continental shall not be liable for the improper installation or use of the Turn Assist system or for malfunctions caused by the purchaser's other systems. In particular, Continental shall not be liable for assembly or connection errors and for damage caused by mechanical influences or overvoltage. If not otherwise agreed, in particular in individual contractual agreements, the following applies to

Continental's liability:

Continental shall be liable for claims for damages - for any legal reason - under fault-based liability for intentional actions and gross negligence.

In case of simple negligence, Continental shall be liable, conditional upon statutory limitations of liability (e.g. due diligence in

its own affairs; copyright violations), only – for damages resulting from injuries to life, body or health – for damages resulting from violation of a significant contractual violation (violation of an obligation necessary to ensure the contract can be properly carried out and which the contractual partner should regularly expect will be fulfilled); in this case, however, Continental's liability shall be limited to reimbursing foreseeable, typical damages. These limitations of liability shall also apply to breaches of duty or in favour of personnel for whose violations Continental is liable under the law. They shall not apply if anyone intentionally conceals a defect or expressly provides a guarantee of a particular characteristic, and shall not apply to any claims under the Product Liability Law.





BMVI

[The Federal Ministry of Traffic and Digital Infrastructure Bundesministerium für Verkehr und digitale Infrastruktur]

The Continental Turn Assist system RightViu® is a radar-based system that fulfils BMVI recommendations (volume 19 - 2018).

Symbols used in this manual

Safety information in this manual is marked using symbols. Safety information is introduced by a signal word that expresses the severity of the hazard involved.

	DANGER!	This combination of symbol and signal word indicates a directly hazardous situation that will result in severe injury or death if it is not avoided.
	WARNING!	This combination of symbol and signal word indicates a potentially hazardous situation that can result in severe injury or death or severe injuries if it is not avoided.
	CAUTION!	This combination of symbol and signal word indicates a potentially hazardous situation that can result in minor or slight injuries if it is not avoided.
	NOTE!	This combination of symbol and signal word indicates a potentially hazardous situation that can result in property and environmental damage if it is not avoided.

This manual uses the following markings to highlight instructions, results, lists, references and other elements:

- ⇒ Results of action steps
- › Listed in no particular order

1 2 Instructions

Proper use and misuse

RightViu® monitors the area next to the vehicle stipulated by the BMVI (indicated in the image) and serves to avoid accidents during right turns.

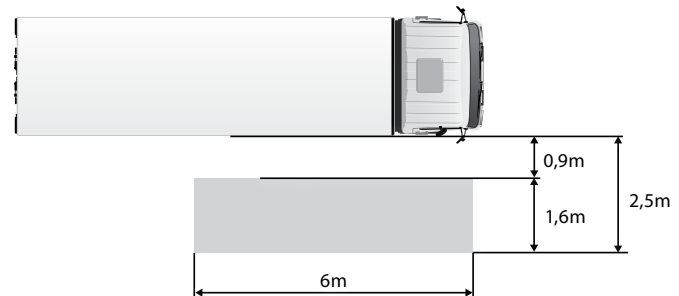
RightViu® can be retrofit to the following vehicle classes:

- › N2 and N3 (trucks)
- › M2 and M3 (buses)

The system can be operated under all vehicle load conditions.

Proper use also includes compliance with all information provided in the installation and operating manuals.

Any use other than or beyond the proper use shall be considered misuse.



**WARNING!**

Danger in case of improper use!

Misusing RightViu® may result in hazardous situations, and may cause slight or severe injuries, death, or property or environmental damage.

In addition to the safety instructions provided in this manual, the safety, accident prevention and environmental protection regulations valid for the area of application of the vehicle must also be heeded.

RightViu® is an assistant system and does not exempt the driver from using the vehicle mirrors.

Personnel qualifications (trained personnel)

Only trained personnel who can be expected to carry out their work reliably may install the system. Personnel whose response capabilities are influenced, for instance by drugs, alcohol or medication, may not carry out the said work.

NOTE

The assembly and installation of RightViu® may only be carried out by trained personnel.



WARNING!

Risk of death due to insufficient qualifications! If insufficiently qualified personnel carry out work on the vehicle, they may face a risk of death. They may also cause significant property damage.

- Only allow personnel with the qualifications indicated in the individual chapters to complete the work required.
- In case of doubt, instruct personnel to leave the hazard zone and work area.



WORK SAFETY CLOTHING

Work safety clothing is close-fitting clothing with good tear resistance, narrow sleeves and no protruding elements.



PROTECTIVE GLOVES

Protective gloves help protect hands from friction, abrasions, piercing wounds or deeper injuries, as well as from touching hot surfaces.



SAFETY SHOES

Safety shoes protect wearers' feet against crushing, falling parts, and sliding on slippery surfaces.

NOTE

In addition to the safety instructions provided in this manual, the safety, accident prevention and environmental protection regulations valid for the area of application of the vehicle must also be heeded.

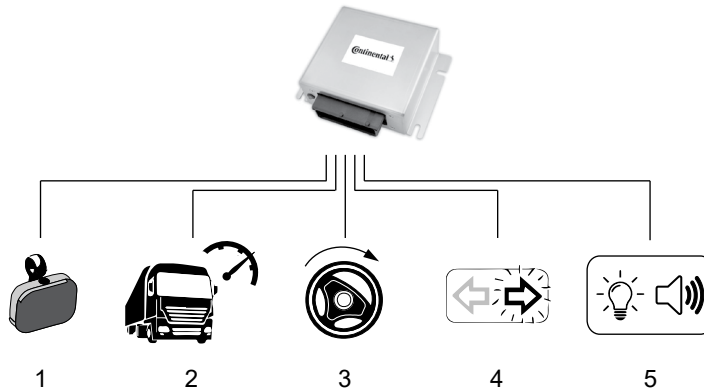
Functional description

RightViu® is made up of a radar sensor with housing and the matching bracket for the vehicle's side mirror. The radar sensor detects the area next to the vehicle and, during the turning process, monitors a range alongside the vehicle that is defined during installation. The controller, also referred to as ECU below, records the data measured by the radar sensor. If the radar sensor detects pedestrians and/or cyclists within the warning area, the control unit triggers a visual and acoustic warning in the vehicle cab.

Detection

RightViu® is designed to detect pedestrians and cyclists. These are described in the following text as valid objects.

System overview



- 1 Radar sensor with housing
- 2 Speed signal
- 3 Steering angle sensor
- 4 Right turn signal
- 5 Signal box with signal light and buzzer

NOTE



If you find damage:

- › Do not operate RightViu®.
- › Please contact your dealer promptly.

Safety instructions

**WARNING!**

RightViu® does not interfere with the vehicle's systems.
RightViu® only warns the driver.
RightViu® serves only to support the driver, and does not release the driver from his obligation to drive carefully. The Turn Assist cannot replace looking into your side view mirrors. It may issue incorrect or false warnings! Drivers must continue to assess their own driving risks and initiate safe driving manoeuvres whenever necessary.

**DANGER!**

Changes or manipulation of RightViu® can have a negative influence on safety. This may result in death, severe or minor injuries (personal injury) to the operator or third parties, property and environmental damages.

NOTE

RightViu® may only be assembled and installed by an authorised workshop.



Before driving

Before driving, check the following...

- › Check the radar housing for external damage or modification
- › Check the angle of the radar housing using the markings
- › After turning on the ignition, check whether the warning light flashes slowly three times.
- › Check the function of the steering angle sensor
 - >> See maintenance / servicing

If it does not do so, there is a fault.

>> See troubleshooting

Activation

RightViu is ready for operation when the vehicle ignition is turned on.

>> The indicator light will flash three times.



NOTE

Reduce the volume of sources of interference if this volume is above 90dB.

Object detection

Driving	Status	
> 30km/h	RightViu® is not active.	No warning is issued.
≤ 30km/h	RightViu® is active when... <ul style="list-style-type: none"> - the right turn signal is activated and/or <ul style="list-style-type: none"> - the steering wheel angle is < 25m to the right of the curve radius. 	Valid objects within the warning area are detected.












NOTE

The system remains inactive for other vehicle conditions, such as the left turn indicator or left steering wheel angle

- › No warnings are given.

Each valid object in the warning area is detected by the system and indicated to the driver by the warning light. The first time the object is indicated, a warning signal sounds three times. If another valid object enters the warning area, the warning signal is activated again briefly three times. (The warning light remains turned on)

Overview of system notifications

Status indicator	Warning light	Warning signal
The system has started up properly	 3x	
The steering angle sensor is functional		 Within 5 minutes of turning the steering wheel to the right
Buzzer is working		 Brief warning signal
Object detection: one or more objects are detected	 Continuous	 The first time an object is detected in the warning area
Vehicle speed over 30 km/h		
System active without detected objects in the warning area		

Status indicator**Warning light****Warning signal**

Check speed signal (upwards of 30km/h the sensor switches off) V_CAN connected Yes/No



Indicator ON/off (fast 1/3 sec., medium 2/3 sec., slow 4/3 sec.)



CAN error, CAN data line interrupted, no power supply to the radar sensor



Fast, continuous flashing

**Flashing frequencies following error message:**

Radar sensor general error:

Fast permanent flashing, 330ms On, 330ms Off.

Radar sensor CAN error:

Medium permanent flashing, 660ms On, 660ms Off.

Vehicle CAN error:

Slow permanent flashing, 1320ms On, 1320ms Off.

Switch off

RightViu® is deactivated when the vehicle ignition is turned off.

Safety instructions



WARNING!

Danger of injury due to improper maintenance!
If maintenance work is carried out improperly, this may result in severe injuries and significant property damage.

Maintenance work

The following sections describe the maintenance work necessary to ensure optimal, fault-free operation. The following table lists maintenance work that must be carried out. The specified intervals must be observed.

INTERVAL	MAINTENANCE WORK	PERSONNEL
Before each trip	Visual inspection	Driver
	Check steering angle sensor	
Annual	Check alignment	Authorised workshop
As needed	Clean	Driver

NOTE



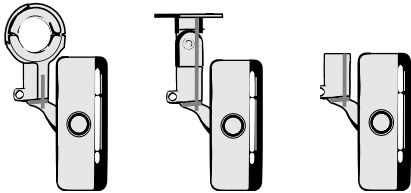
All maintenance work that may not be carried out by the driver is described in the assembly manual, and may only be completed by an authorised workshop or a dealer.

MAINTENANCE/SERVICING

Before each trip

Carry out a visual inspection before each trip:

- 1** Check the radar housing for external damage caused by force
- 2** Check the angle position of the radar housing on the basis of the markings



- 3** After turning on the vehicle ignition, check whether the warning light flashes slowly three times.

=> The radar is working.

Carry out a functional test of the steering angle sensor:

- 1** Turn the steering wheel as far as it will go to the right. A brief warning signal will sound.
- 2** Turn the steering wheel as far as it will go to the left. A brief warning signal will sound.

=> The steering angle sensor is working.

Annual

During the general inspection, check the alignment of the radar housing and the position of the steering angle sensor.

As needed

If the radar housing is heavily soiled, clean the radar housing. During cleaning make sure that the marking is not removed. A visual inspection must be carried out after cleaning.

TROUBLESHOOTING

RightViu® must not be modified or repaired without authorisation.

WARRANTY

The statutory warranty regulations apply under EU Directive 1999/44/EC. In non-EU countries, the minimum warranty claims valid in the specific country apply.

SHUTDOWN AND DISASSEMBLY OF RIGHTVIU

RightViu® may only be shut down or disassembled by trained personnel. RightViu® must be shut down and disassembled in the reverse order used for assembly and installation.

DISPOSAL

Dispose of packaging materials according to applicable statutory provisions and local regulations. Observe local requirements, and do not dispose of old equipment with normal household garbage.

The device must be disposed of in accordance with the Electrical and Electronic Equipment Law (ElektroG2) dated 24.10.2015.





Allgemeine Betriebserlaubnis (ABE) National Type Approval

ausgestellt von:

Kraftfahrt-Bundesamt (KBA)

nach § 22 in Verbindung mit § 20 Straßenverkehrs-Zulassungs-Ordnung (StVZO)
für einen Typ des folgenden Genehmigungsobjektes

Abbiegeassistenzsysteme

issued by:

Kraftfahrt-Bundesamt (KBA)

according to § 22 and 20 Straßenverkehrs-Zulassungs-Ordnung (StVZO) for a type
of the following approval object

Blind Spot Information System for the Detection of Bicycles

Genehmigungsnummer: **91842**
Approval number:

Erweiterung: --
Extension:

1. Genehmigungsinhaber:
Holder of the approval:
**Continental Aftermarket & Services GmbH
DE-65824 Schwalbach am Taunus**
2. Gegebenenfalls Name und Anschrift des Bevollmächtigten:
If applicable, name and address of representative:
**Entfällt
Not applicable**
3. Typbezeichnung:
Type:
RightViu

Genehmigungsnummer: **91842**
Approval number:

Erweiterung: --
Extension:

4. Aufgebrachte Kennzeichnungen:
Identification markings:
**Hersteller oder Herstellerzeichen
Manufacturer or registered manufacturer's trademark**

**Typ
Type**

**Genehmigungszeichen
Approval identification**

5. Anbringungsstelle der Kennzeichnungen:
Position of the identification markings:
**Auf den Außenseiten der Hauptkomponenten des Systems
On the outside of the main components of the system**
6. Zuständiger Technischer Dienst:
Responsible Technical Service:
**Typprüfstelle Fahrzeuge/Fahrzeugteile der TÜV Rheinland Kraftfahrt GmbH
DE-51105 Köln**
7. Datum des Prüfberichts des Technischen Dienstes:
Date of test report issued by the Technical Service:
21.04.2020
8. Nummer des Prüfberichts des Technischen Dienstes:
Number of test report issued by that Technical Service:
205KA0003-00
9. Verwendungsbereich:
Range of application:
**Das Genehmigungsobjekt „Abbiegeassistenzsysteme“ darf nur zur
Verwendung gemäß:
The use of the approval object „Blind Spot Information System for the
Detection of Bicycles“ is restricted to the application listed:**

**Punkt 3. des Prüfberichtes
Point 3. of the test report**

**unter den angegebenen Bedingungen an den dort aufgeführten bzw.
beschriebenen Kraftfahrzeugen feilgeboten werden.
The offer for sale is only allowed on the listed vehicles under the specified
conditions.**



Kraftfahrt-Bundesamt

DE-24932 Flensburg

3

Genehmigungsnummer: **91842**
Approval number:

Erweiterung: --
Extension:

10. Bemerkungen:
Remarks:
**Es gelten die im o.g. Gutachten nebst Anlagen festgehaltenen Angaben.
The indications given in the above mentioned test report including its annexes shall apply.**
- Die Anforderungen des Artikels 31, Absätze 5, 6, 8, 9 und 12 der Richtlinie 2007/46/EG - Verkauf und Inbetriebnahme von Teilen oder Ausrüstungen, von denen ein erhebliches Risiko für das einwandfreie Funktionieren wesentlicher Systeme ausgehen kann - sind sinngemäß erfüllt.
The requirements of Article 31, paragraphs 5, 6, 8, 9 and 12 of directive 2007/46/EC - Sale and entry into service of parts or equipment which are capable of posing a significant risk to the correct functioning of essential systems - are met.**
11. Änderungsabnahme gemäß § 19 (3) StVZO:
Acceptance test of the modification as per § 19 (3) StVZO:
**Notwendig
Required**
12. Die Genehmigung wird **erteilt**
Approval is **granted**
13. Grund (Gründe) für die Erweiterung der Genehmigung (falls zutreffend):
Reason(s) for the extension (if applicable):
**Entfällt
Not applicable**
14. Ort: **DE-24932 Flensburg**
Place:
15. Datum: **23.04.2020**
Date:
16. Unterschrift: **Im Auftrag**
Signature:

F. Maß

Frederik Maß





de Auf diesen Seiten finden Sie Download- und Informationsmaterial zum Produkt RightViu®.
Die aktuelle Bedienungsanleitung können Sie hier in unterschiedlichen Sprachen herunterladen.

en These pages include downloads and information materials related to the product RightViu®.
You can download the current user guide in various languages here.

fr Sur ces pages, vous trouverez des documents informatifs et à télécharger sur le produit RightViu®.
Ici, vous pouvez télécharger l'actuelle notice d'utilisation dans différentes langues.

it Queste pagine contengono materiale da scaricare e materiale d'informazione sul prodotto RightViu®.
La versione attuale delle istruzioni all'uso può essere scaricata qui.

es En estas páginas encontrará material informativo y descargable sobre el producto RightViu®.
Aquí podrá descargar el manual de instrucciones más reciente en varios idiomas.

Continental Aftermarket & Services GmbH
Sodener Straße 9
65824 Schwalbach am Taunus
Germany
Tel. +49 6196 87-0
www.continental-corporation.com



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