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› [CLEAR CL-BC100W Wireless Backup Camera Instruction Manual for Kenwood MDV-D204 and Compatible Car Navigation Systems](#)

## CLEAR CL-BC100W

# CLEAR CL-BC100W Wireless Backup Camera Instruction Manual

For Kenwood MDV-D204 and Compatible Car Navigation Systems

## PRODUCT OVERVIEW

The CLEAR CL-BC100W is a wireless backup camera system designed for seamless integration with specific car navigation systems, including the Kenwood MDV-D204. This system eliminates the need for complex wiring from the navigation unit to the camera, simplifying installation. It features a high-quality CCD lens for clear rear view imaging, enhancing safety and convenience during reversing maneuvers.



*Front view of the CLEAR CL-BC100W wireless backup camera, showing the lens and mounting bracket.*

## IMPORTANT SAFETY PRECAUTIONS

Before installation and operation, please read the following safety instructions carefully to prevent accidents or damage to the product and vehicle.

- Installation must be performed by a qualified dealer or specialist to ensure safety and proper function.
- Using parts other than those specified or incorrect installation may lead to malfunction or damage. The manufacturer is not responsible for any issues arising from such actions.
- This unit is designed for DC12V vehicles only. Do not use with DC24V vehicles, as it may cause fire or malfunction.
- Before starting any work, always disconnect the vehicle's battery terminal. Failure to do so may result in short circuits or electric shock.
- Ensure all cables are routed securely and do not interfere with the steering wheel, brake pedal, or accelerator pedal during driving, as this can cause serious accidents.
- After installation, confirm proper operation of all electrical components in the vehicle. Improper operation may lead to fire, electric shock, or traffic accidents.
- After installation, confirm the camera's operation. If operation cannot be confirmed due to environmental conditions, perform the operation check in a suitable environment.
- When installing, if the power cable for the backup camera is thin, it is recommended to use solder or crimp terminals for secure connection.

## PACKAGE CONTENTS

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Please verify that all the following components are included in your package:

- Camera Main Unit
- Power Cable (1m)
- Wireless Kit (Transmitter and Receiver)
- Fixing Screws
- Camera Connection Adapter (may be included depending on the set)



## CL-BC100W

### 取扱説明書

バックカメラユニット

ご使用前に、「使用上のご注意」を必ずお読み下さい。

車への取り付けは、安全のために必ず販売店や専門業者へ依頼してください。  
専用業者以外での取付、誤った使用、指定以外の部品を使用すると、故障の原因となります。  
弊社では責任の一切を負いかねます。



本機器はDC12V-アース専用です  
DC24V車には仕様できません。火災や故障の原因となります。

作業前に、必ずバッテリー端子を外してください  
外せずに作業を行うと、ショートによるケガの原因となります。

コード類は、運転の妨げにならないように取り回す  
ステアリング、ブレーキペダルなどに巻きつくと、交通事故の原因となります。

作業後は、車の電装品の動作確認  
正常に動作しないと、火災や感電、交通事故の原因となります。

取付後の動作確認  
動作確認を行ってから取付してください。また、動作確認を行う環境がない場合  
仮配線の状態で動作確認を行ってください。

取付時の注意  
バックカメラ本体の電源配線が細いため、ハンダや圧着端子で結線を推奨しております。

#### 接続・取付部品を確認する

バックカメラ本体	ワイヤレス部	カメラ接続アダプタ	取付けビス
		 ※セット品のみ付属	

#### 仕様

出力電力	DC12V -アース
映像素子	高性能カラーCCDセンサー
画素数	42万画素
画角	広角170度
外形寸法	横30mm×高さ24mm×奥行き34mm
質量	54g (カメラ本体)

Overview of the CLEAR CL-BC100W wireless backup camera components, including the camera, wireless units, and accessories.

Follow these steps for proper installation of your CLEAR CL-BC100W wireless backup camera. Refer to the diagrams for visual guidance.

#### 1. **Step 1: Prepare for Camera Installation**

- Confirm the desired mounting location for the camera and mark the screw positions.
- Clean the mounting surface thoroughly with a suitable cleaner to remove any oil, wax, or dirt.
- Mount the backup camera using the provided screws and adjust its angle for optimal viewing.

#### 2. **Step 2: Connect Wireless Transmitter Power**

- Connect the **red wire** of the wireless transmitter's power cord to the vehicle's 12V power supply that activates when the vehicle is in reverse (e.g., the backup lamp power line).
- Connect the **black wire** (ground) of the wireless transmitter's power cord to the vehicle's chassis.
- Connect the **yellow video cable** from the wireless transmitter to the camera's video output cable.
- **Guideline Display:** If the camera cable has a **green wire**, cut it to disable the parking guidelines. If it does not have a green wire, guidelines are not displayed.
- **Image Orientation:** If the camera cable has a **white wire**, cut it to switch the image orientation (e.g., for front view or specific backup applications). If it does not have a white wire, the image is set for standard backup use.
- **Note:** The wireless transmitter must be installed inside the vehicle. Installation outside the vehicle may cause malfunction due to exposure to elements.

#### 3. **Step 3: Connect Wireless Receiver Video**

- Connect the **yellow video cable** from the wireless receiver to the car navigation system's backup camera input terminal.

#### 4. **Step 4: Connect Wireless Receiver Power**

- Connect the **red wire** of the wireless receiver's power cord to the vehicle's 12V power supply that activates when the vehicle is in reverse (e.g., the backup lamp power line).
- Connect the **black wire** (ground) of the wireless receiver's power cord to the vehicle's chassis.

#### 5. **Step 5: Connect Camera Connection Adapter (if applicable)**

- If an adapter is provided, connect it to the dedicated connector on the back of your car navigation system. Then, connect the **yellow video cable** from the wireless receiver to this adapter.
- The connection method may vary depending on the manufacturer and model of your car navigation system. Refer to your car navigation system's instruction manual for details on its rear connectors.
- If an adapter is not included, connect the RCA cable from the wireless receiver directly to the designated backup camera input on the car navigation system.

#### 6. **Step 6: Final Operation Check**

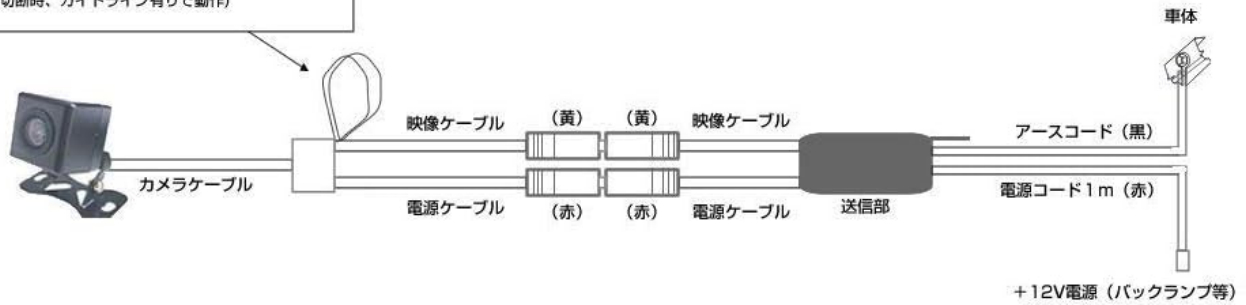
- After completing all connections, always perform an operation check by engaging reverse gear to ensure the camera displays correctly on your car navigation screen.
- If the camera does not display or displays incorrectly, refer to the [Troubleshooting](#) section.

## Wiring Diagram

## 配線図

### ◆正像・鏡像、ガイドラインの切替

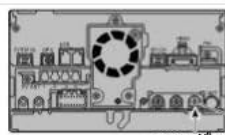
白の配線  
→正像・鏡像を切替(切断時、鏡像動作)  
※バックカメラは「鏡像」  
緑の配線  
→ガイドライン表示の切替  
(切断時、ガイドライン有り動作)



### ◆カーナビ本体の接続について

接続アダプタセットの場合  
→ワイヤレス映像ケーブルとカーナビ側の  
中継して接続してください。

接続アダプタがついていない場合  
→ワイヤレス映像ケーブルをカーナビ側の  
所定の位置に接続してください。



バックカメラ入力

映像ケーブル

カメラ接続アダプタ

(黄) (黄)

(赤) (赤)

受信部

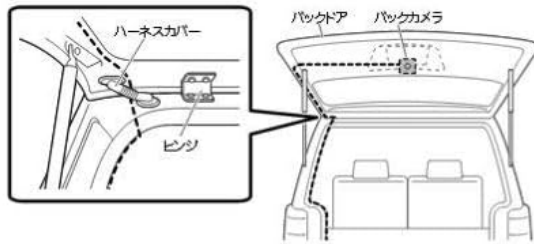
アースコード (黒)

電源コード 1m (赤)

+12V電源 (バック信号線等)

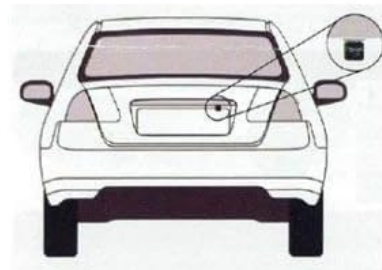
### ◆コード処理のポイント

バックドアのハーネスカバーとヒンジの外側を引き回してください。



### ◆バックカメラの取付位置

ナンバープレートのナンバーがカメラで隠れないよう取付下さい。



Detailed wiring diagram illustrating the connections for the CLEAR CL-BC100W wireless backup camera system to the vehicle's power and car navigation unit. The top diagram shows a direct connection, while the bottom diagram shows connection via an adapter.

## Installation Tips

**Cable Management Tip:** When routing cables, ensure they are neatly tucked away and secured. For cables passing through the back door, carefully pull the exterior of the harness cover and pins to prevent damage.

**Backup Camera Mounting Tip:** Install the backup camera in a location where it does not obscure the license plate number or any other legally required markings on your vehicle.

## PRODUCT SPECIFICATIONS

CLEAR CL-BC100W Wireless Backup Camera

Sensor	Wide-angle 170° High-quality CCD Lens (420,000 pixels)
Angle Adjustment	120° adjustable
Guideline	On/Off switchable
Other Features	Waterproof/Dustproof compatible
Main Unit Size	Width 30mm × Height 24mm × Depth 34mm
Weight	Approx. 54g
Power Input	DC12V
Optical Sensor Technology	CCD
Actual Angle of View	170 degrees

COMPATIBLE CAR NAVIGATION SYSTEMS

This wireless backup camera is designed for specific car navigation systems. Please refer to the lists below to confirm compatibility with your unit. If your model is not listed, compatibility is not guaranteed.

Panasonic Compatibility List

適合リスト 年式別 パナソニック対応				
2020年				
CN-E320D				
2019年				
CN-RX06D	CN-RX06WD	CN-RE06D	CN-RE06WD	CN-RA06D
CN-RA06WD	CN-E310D	CN-F1D9D	CN-F1X10D	CN-F1X10BD
2018年				
CN-RX05D	CN-RX05WD	CN-RE05D	CN-RE05WD	CN-RA05D
CN-RA05WD	CN-F1XVD	CN-F1DVD		
2017年				
CN-RX04D	CN-RX04WD	CN-RE04D	CN-RE04WD	CN-RA04D
CN-RA04WD	CN-E300D	CN-B300B	CN-BR300B	CN-F1XD
CN-F1SD				
2016年				
CN-RX03D	CN-RX03WD	CN-RE03D	CN-RE03WD	CN-RA03D
CN-RA03WD	CN-F1D			
2015年				
CN-RS02D	CN-RS02WD	CN-RX02D	CN-RX02WD	CN-R330D



CN-R330WD	CN-AS300D	CN-AS300WD	CN-E205D	
2014年				
CN-RX01D	CN-RX01WD	CN-RS01D	CN-RS01WD	
2013年				
CN-R300D	CN-R300WD	CN-R500D	CN-R500D1	CN-R500WD
CN-R500WD1	CN-E200D			
2012年				
CN-S310D	CN-S310WD	CN-H510D	CN-H510WD	CN-L800Ftd
CN-L800SED	CN-L800Std	CN-Z500D		
2011年				
CN-S300D	CN-S300WD	CN-H500D	CN-H500WD	
2010年				
CN-MW150D	CN-MW250D	CN-HW851D	CN-HW860D	CN-HW890D
CN-HX910D				
2009年				
CN-MW100D	CN-MW200D	CN-HW850D	CN-HW880D	CN-HX900D
CN-HX3000D				
2008年				
CN-HW800D	CN-HW830D	CN-HW1000D	CN-HX1000D	
2007年				
CN-HDS915td	CN-HDS945td	CN-HDS965td		
2006年				
CN-HDS910td	CN-HDS940td	CN-HDS960td		
備考				
※1 バックカメラの接続先は、地上デジタルチューナー本体となります。 ※2 バックカメラの接続先は、AV拡張ボックスとなります。 ※1及び※2 地デジチューナーの取付を行っていない場合は、取付不可となります。 ※表に記載の機種以外の適合につきましては当方では解り兼ねます。				

Table detailing compatible Panasonic car navigation models, organized by year.

- Note 1: The backup camera connection is directly to the tuner unit.
- Note 2: If connecting to a second tuner, a separate AV expansion box may be required.
- Note 3: If connecting to a second tuner, the connection may not be removable.
- Note 4: Compatibility for models not explicitly listed in this table is not guaranteed by our company.

## Carrozzeria Compatibility List

適合リスト 年式別 カロッツェリア対応				
2019年				
AVIC-RZ103	AVIC-RZ303	AVIC-RW303	AVIC-RZ503	AVIC-RW503

AVIC-RQ903	AVIC-RL710※1	AVIC-RW710※1	AVIC-RZ710※1	AVIC-RL810-D※1
AVIC-RZ810-D※1	AVIC-RW810-D※1	AVIC-RL910※1	AVIC-RW910※1	AVIC-RZ910※1
AVIC-CQ910※1	AVIC-CL910※1	AVIC-CZ910※1	AVIC-CW910※1	AVIC-CQ910-DC※1
AVIC-CL910-DC※1	AVIC-CZ910-DC※1	AVIC-CW910-DC※1		
2018年				
AVIC-RZ102	AVIC-RZ502	AVIC-RW502	AVIC-RZ302	AVIC-RW302
AVIC-RQ902	AVIC-RL902	AVIC-RW902	AVIC-RZ902	AVIC-RZ702
AVIC-RL802-D	AVIC-RW802-D	AVIC-RZ802-D		
2017年				
AVIC-RW301	AVIC-RZ301	AVIC-RZ201-D	AVIC-RW501	AVIC-RZ501
AVIC-RL901	AVIC-RW901	AVIC-RZ901	AVIC-RL801-D	AVIC-RW801-D
AVIC-RZ801-D	AVIC-RZ701			
2016年				
AVIC-RZ06II	AVIC-RZ200	AVIC-RZ300	AVIC-RW300	AVIC-RZ500
AVIC-RZ700	AVIC-RZ800	AVIC-RW800	AVIC-RZ900	AVIC-RW900
AVIC-RL900				
2015年				
AVIC-RZ22	AVIC-RZ33	AVIC-RW33	AVIC-RZ55	AVIC-RZ66
AVIC-RZ77	AVIC-RZ99	AVIC-RW99	AVIC-RL99	
2014年				
AVIC-RZ03	AVIC-RW03	AVIC-RZ05	AVIC-RL05	AVIC-RZ06
AVIC-RZ07	AVIC-RZ09	AVIC-RL09	AVIC-RW09	AVIC-MRZ02II
2013年				
AVIC-MRZ02	AVIC-MRZ04	AVIC-MRZ066	AVIC-MRZ077	AVIC-MRZ099
AVIC-MRZ099W				
2012年				
AVIC-MRZ03	AVIC-MRZ03II	AVIC-MRZ05II		
2011年				
AVIC-MRZ05				
2007年				
AVIC-VH099	AVIC-VH099G	AVIC-VH099MDG	AVIC-VH099MD	
2006年				
AVIC-VH009	AVIC-VH009MD			
2005年				
AVIC-ZH990	AVIC-ZH990MD			
2004年				
AVIC-ZH900	AVIC-ZH900MD			
備考				
※1 カーナビ購入時に付属のリアカメラ用変換ケーブルが必要となります。 ※表に記載の2007年以前の機種は、ハイダウェイユニットへの接続となります。 ※表に記載の機種以外の適合につきましては当方では解り兼ねます。				



Table detailing compatible Carrozzeria car navigation models, organized by year.

- Note 1: A camera conversion cable included with the car navigation system is required for connection.
- Note 2: For models manufactured before 2007, connection to the hideaway unit is required.
- Note 3: Compatibility for models not explicitly listed in this table is not guaranteed by our company.

## Mitsubishi Compatibility List

適合リスト 年式別 三菱対応				
2018年				
NR-MZ033-3	NR-MZ077-3			
2017年				
NR-MZ033-2	NR-MZ077-2	NR-MZ20-5	NR-MZ20MA-5	NR-MZ25
NR-MZ25MA				
2016年				
NR-MZ033-1				
2015年				
NR-MZ007	NR-MZ077	NR-MZ03-4	NR-MZ33-3	NR-MZ23
NR-MZ20-3				
2014年				
NR-MZ03-3	NR-MZ33-2			
2013年				
NR-MZ03-2	NR-MZ33	NR-MZ23		
2012年				
NR-MZ03	NR-MZ20			
2010年				
NR-HZ001VDT-2	NR-HZ001SNN-2			
2009年				
NR-HZ001VDT	NR-HZ001001S	NR-HZ001SNN	NR-HZ001DP	NR-HZ001NNN
NR-HZ001				
2008年				
NR-HZ001	NR-HZ001-DTV			
備考				
※表に記載の機種以外の適合につきましては当方では解り兼ねます。				

Table detailing compatible Mitsubishi car navigation models, organized by year.

- Note: Compatibility for models not explicitly listed in this table is not guaranteed by our company.

## Kenwood Compatibility List

適合リスト 年式別 ケンウッド対応				
2019年				
MDV-D306	MDV-D306W	MDV-D306BTW	MDV-D406BT	MDV-D406BTW
MDV-D706BT※2	MDV-D706BTW※2			
2018年				
MDV-D305	MDV-D305W	MDV-D305BT	MDV-D405BT	MDV-D405BTW
MDV-D505BT※2	MDV-D505BTW※2			
2016～2017年				
MDV-D204	MDV-D204BT	MDV-D304	MDV-D304W	MDV-D304BT
MDV-D404BT	MDV-D404BTW	MDV-D504BT※2	MDV-D504BTW※2	
2015年				
MDV-D303	MDV-D503※2	MDV-X702	MDV-X702W	MDV-Z702
MDV-Z702W	MDV-X802L※1			
2014年				
MDV-D502BTW	MDV-D502BT	MDV-L502	MDV-L502W	MDV-Z701※1
MDV-Z701W※1	MDV-X701※1	MDV-X701W※1	MDV-L402	MDV-L401
MDV-L301				
2013年				
MDV-Z700W※1	MDV-Z700※1	MDV-R700※1	MDV-X500※1	MDV-L500※1
MDV-L300※1	MDV-737HUD※1			
2012年				
MDV-737DT※1	MDV-535DT※1	MDV-434DT※1	MDV-333※1	
2011年				
MDV-727DT※1	MDV-626DT※1	MDV-525DT※1	MDV-323※1	
2010年				
MDV-313※1				
2009年				
HDV-909DT				
2008年				
HDV-790F4※1	HDV-990※1	HDV-790※1		
備考				
※1 カーナビ購入時に標準装備のRCA入出力ケーブルへ接続する機種となります。				
※2 カーナビ購入時に付属のリアカメラ用変換ケーブルが必要となります。				
※表に記載の機種以外の適合につきましては当方では解り兼ねます。				

Table detailing compatible Kenwood car navigation models, organized by year, including the MDV-D204.

- Note 1: A camera conversion cable included with the car navigation system is required for connection.
- Note 2: If connecting to a second tuner, a separate AV expansion box may be required.
- Note 3: Compatibility for models not explicitly listed in this table is not guaranteed by our company.

## TROUBLESHOOTING

If you encounter issues with your CLEAR CL-BC100W wireless backup camera, please perform the following checks:

- **No Display or Incorrect Display:**
  - Ensure all power connections (red and black wires) are secure and receiving proper 12V power when the vehicle is in reverse.
  - Verify that the video cables (yellow wires) are correctly connected between the camera, wireless units, and the car navigation system.
  - Confirm that your car navigation system is set to the correct input source for the backup camera.
  - Check the compatibility lists to ensure your car navigation model is supported.
- **Image Reversed or Incorrect Guidelines:**
  - Refer to Step 2 of the Installation Guide regarding the **white wire** (for image orientation) and **green wire** (for guidelines) on the camera cable. Ensure they are cut or left intact as desired.
- **Intermittent Signal or Poor Quality:**
  - Ensure the wireless transmitter is installed inside the vehicle and not obstructed by metal objects.
  - Check for any sources of electromagnetic interference near the wireless units.
- If the issue persists after performing these checks, it is recommended to consult a qualified technician.



## CUSTOMER SUPPORT

For further assistance, technical support, or inquiries regarding your CLEAR CL-BC100W Wireless Backup Camera, please contact your point of purchase or visit the official CLEAR website for more information.



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### Related Documents - CL-BC100W

 	<p><a href="#">CLEAR Hub Express User Guide: Setup, Management, and Support</a></p> <p>Comprehensive user guide for the CLEAR Hub Express, detailing setup, 4G network connection, Wi-Fi configuration, advanced settings, and troubleshooting. Learn how to manage your device and access support resources.</p>
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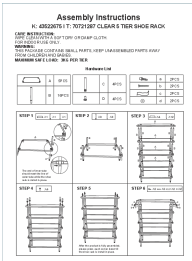


CLEAR Stick Atlas  
USER GUIDE  
Model PXU1960



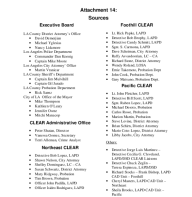
### [CLEAR Stick Atlas User Guide: Setup, Connection, and Troubleshooting](#)

This user guide for the CLEAR Stick Atlas (Model PXU1960) provides essential information on connecting to CLEAR 4G internet, managing device settings, and resolving common issues. Learn about features, troubleshooting steps, and support resources.



### [Assembly Instructions for CLEAR 5 TIER SHOE RACK](#)

Step-by-step assembly guide for the CLEAR 5 TIER SHOE RACK, including hardware list, care instructions, and safety information.



### [Attachment 14: CLEAR Organization Sources and Contacts](#)

This document, 'Attachment 14: Sources,' provides a comprehensive directory of key personnel and their affiliations within the CLEAR organization and related Los Angeles County departments. It lists members of the Executive Board, Foothill CLEAR, Pacific CLEAR, Northeast CLEAR, and CLEAR Administrative Office, along with other important liaisons from various law enforcement and government agencies.



### [Arcflex™ 1617 LED Linear Light | CLEAR - Flexible, High-Performance Lighting](#)

Explore the Arcflex™ 1617 LED Linear Light by CLEAR. Featuring IP68 protection, exceptional bending capabilities, and high energy efficiency, it's ideal for innovative lighting designs. View specifications, profiles, and connectors.



### [Identity Redefined: The Necessity of a Multi-Layered Approach](#)

This whitepaper explores the evolution of identity verification from traditional document-based methods to modern multi-layered approaches, highlighting the challenges posed by evolving threats and the benefits of comprehensive identity assurance for security, efficiency, and customer experience.