

One Year Limited Warranty

RYDEEN MOBILE (a manufacturer of "RYDEEN" products) warrants the product only To the original purchaser as described following:

Warranty Period

RYDEEN warrants this product for a period of one (1) year from the original purchase date.

Warranty Coverage

This warranty covers all defects in material and workmanship except as specified below.

1. Any products distributed outside of the USA by RYDEEN MOBILE or which is not purchased in the USA or Canada unless the product is purchased through the USA Military Exchange Service.
2. Any product(s) which are purchased from an unauthorized retailer (in store or online).
3. Any products in which the serial number label or the model number label are removed, torn, modified or replicated.
4. Any damage defects or malfunctions resulting from any of following:
 - A) When defect occurs during shipment of product (freight carrier's responsibility).
 - B) Installation or removal of product.
 - C) Accidents, act of nature, misuse, abuse, neglect, unauthorized product modification or failure to follow product owner's manual instructions.
 - D) Any repair or attempt to repair without RYDEEN authorization.
 - E) Any other cause which is not related to product defect.
 - F) Any cosmetic damages due to normal wear and tear.
 - G) Any consumable items (such as fuse or batteries).

If any problems develop with your RYDEEN products during or after the Limited Warranty Period, or if you have any questions regarding the operation or installation of the product, you should contact your RYDEEN retailer. If the problem or your question is not handled to your satisfaction, please contact RYDEEN Customer Service Department at 1-877-777-8811 (within the USA only) Monday to Friday Between 9:00 AM to 4:00 PM Pacific Standard Time or visit www.rydeenmobile.com.

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rydeenmobile.com

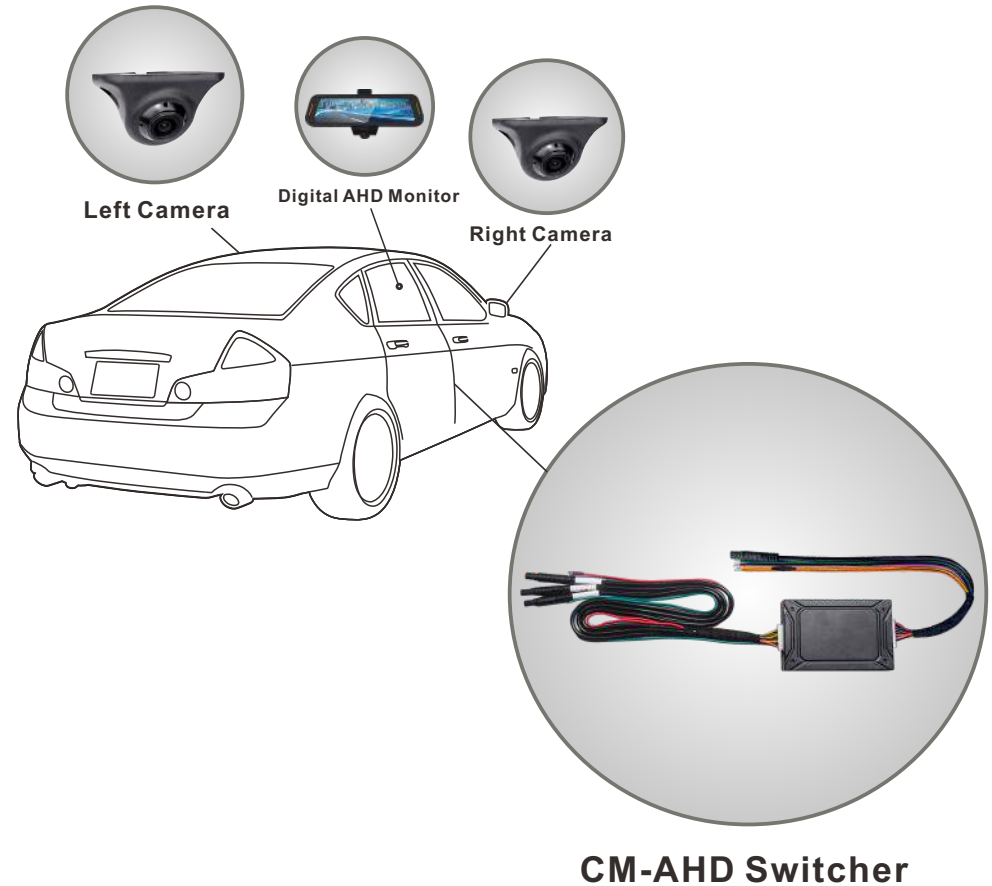
Rydeen Mobile Electronics

Phone: 1-877-777-8811 Fax: 1-310-943-3778

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RYDEEN®



Owner's Manual

CM-D700 AHD
AHD Video Switcher
& SIDE AHD Camera

⚠ WARNINGS ⚠

- **PROFESSIONAL INSTALLATION REQUIRED**
THE FOLLOWING INSTRUCTIONS ARE INTENDED FOR RYDEEN PROFESSIONAL
- **DAMAGE FROM IMPROPER INSTALLATION WILL VOID THE WARRANTY**
- **DO NOT DROP ANY COMPONENTS OF THIS PRODUCT. EXCESSIVE SHOCK DUE TO DROPPING ANY COMPONENTS IN THE SYSTEM OR SUBJECTING IT TO EXCESSIVE SHOCK AND VIBRATIONS MAY CAUSE MALFUNCTION AND IS NOT COVERED BY WARRANTY**
- **WATER DAMAGE IS NOT COVERED UNDER THE WARRANTY**

1. Specification

● CM-AHD Switcher

TX IC // NVP7151

RX IC // NVP6124B

Resolution // 1920 x 1080 P30

Voltage Range // DC: 9V~16V

Video Format // NTSC

Screen Display On // < 2s

Video Signal Input // AHD / N System / 1080P

Video Signal Output // AHD / N System / 1080P

Working Current // 200mA @DC12V

Operation Temp // -20°C~+65°C

Storage Temp // -30°C~+85°C

Video Signal Input Channel // 3CH

● CM-SIDE AHD

Sensor // SONY IMX307-LQR

Frame // 30fps

Resolution // 1945 x 1097

Min Illumination // < 0.1 lux

Video System // NTSC(Color)

Image // Standard Image

Waterproof // IP67-IP68

Angle // D170°, H130°, V72°(±3°)

Body Color // Black (B)

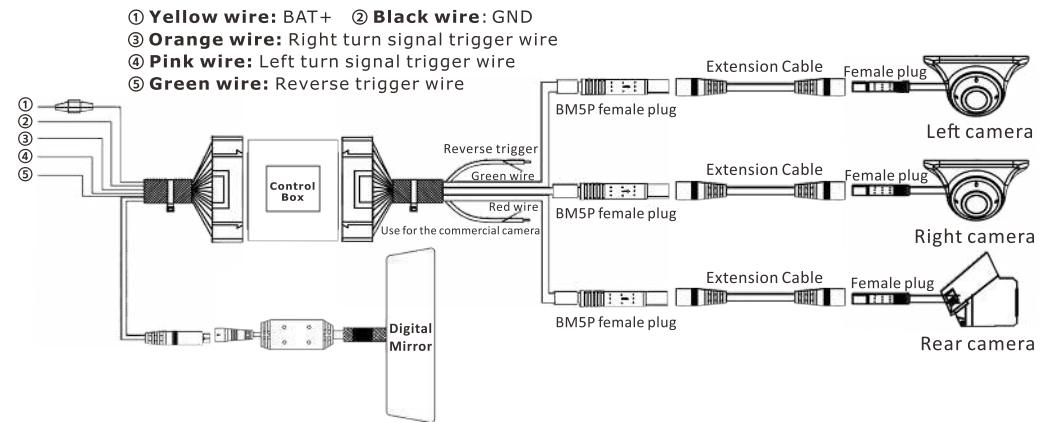
Camera Lens Construction // 2G+2P+1IR

Operation Temp // -20°C~+65°C

Storage Temp // -30°C~+85°C

Voltage & Max Current // 9~16V, 200mA

2. Wiring Diagram



3. Main Functions

This product includes a CM-AHD Switcher and two CM-SIDE AHD.

● CM-AHD Switcher

1. It is a vehicle-mounted video switching system that supports 3-way video switching.
2. Through the left, right and rear trigger wires, the left, right and rear view real-time images can be switched.
3. It can be used with our AHD digital monitors to assist in improving driving safety.

● CM-SIDE AHD

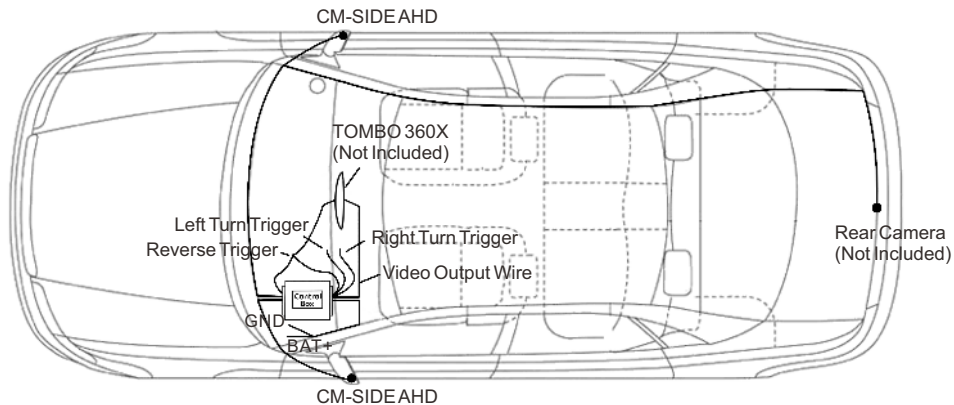
1. MINY Camera with SONY Sensor.
2. Automatic Sensitivity Compensation.
3. Waterproof: IP67-IP68 approved.
4. Support HDR function, which balances the lights and provides clear visibility at night.
5. Adjustable eyeball lens, 170 degrees wide viewing angle (Horizontal: 130° Vertical: 72°)
6. Side view cameras can be compatible with Rydeen AHD digital monitors.

4. Installation Introduction

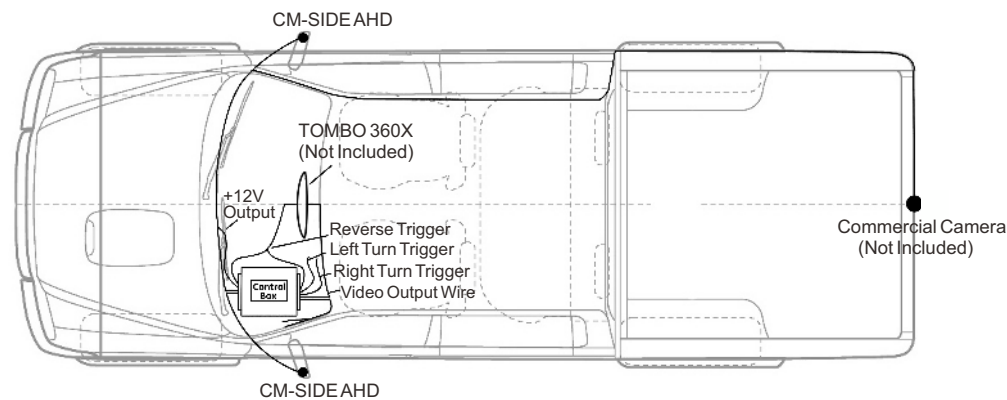
● CM-D700 AHD Installation Introduction

Follow the wiring diagram, install the CM-AHD Switcher and CM-SIDE AHD.

For Car

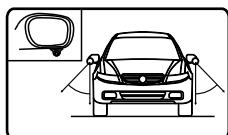


For Truck

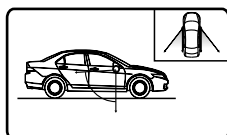


● CM-SIDE AHD Installation Introduction

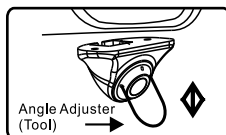
CM-SIDE AHD is used in conjunction with CM-AHD Switcher, and it is usually installed on the left or right side mirrors. (See Image 1&2) Installer can adjust the actual camera using the supplied "U-Shape" tool. (See Image 3&4)



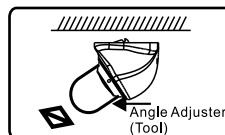
Image(1)



Image(2)



Image(3)



Image(4)

⚠ AVERTISSEMENTS ⚠

- LES INSTRUCTIONS SUIVANTES SONT PRÉVUES POUR LES INSTALLATEURS.
- L'INSTALLATION PROFESSIONNELLE PAR UN MARCHAND AGRÉÉ RYDEEN EST REQUISE POUR HONORER LA GARANTIE.
- NE JETEZ AUCUN COMPOSANT DE CE PRODUIT. LES CHOCS EXCESSIFS DUS À LA CHUTE DE COMPOSANTS DU SYSTÈME OU À LA SOUMISSION À DES CHOCS ET VIBRATIONS EXCESSIFS PEUVENT PROVOQUER UN DYSFONCTIONNEMENT ET NE SONT PAS COUVERTS PAR LA GARANTIE.
- LES DÉGÂTS D'EAU NE SONT PAS COUVERTS PAR LA GARANTIE.

1. Spécifications

● CM-AHD Switcher

TX IC // NVPV7151

RX IC // NVP6124B

Résolution // 1920 x 1080 P30

Plage de tension // DC: 9V~16V

Format vidéo // NTSC

Affichage de l'écran activé // < 2s

Entrée de signal vidéo // AHD / N System / 1080P

Sortie de signal vidéo // AHD / N System / 1080P

Courant de travail // 200mA @DC12V

Opération Temp // -20°C~+65°C

Stockage Temp // -30°C~+85°C

Canal d'entrée du signal vidéo // 3CH

● CM-SIDE AHD

Capteur // SONY IMX307-LQR

Cadre // 30fps

Résolution // 1945 x 1097

Min Illumination // < 0.1 lux

Système Vidéo // NTSC(Color)

Image // Image standard

Waterproof // IP67-IP68

Angle de vue // D170°, H130°, V72°(±3°)

Couleur de Corps // Black (B)

Construction des lentilles // 2G+2P+1IR

Opération Temp // -20°C~+65°C

Stockage Temp // -30°C~+85°C

Tension et Maximum Courant // 9~16V, 200mA

⚠ ADVERTENCIAS ⚠

- LAS SIGUIENTES INSTRUCCIONES ESTÁN DISEÑADOS PARA AUTORIZADO.
- INSTALACION PROFESIONAL POR DISTRIBUIDOR AUTORIZADO DE RYDEEN QUE REQUIEREN LAS CUBIERTO POR LA GARANTÍA.
- NO DEJE CAER NINGÚN COMPONENTE DE ESTE PRODUCTO. UN CHOQUE EXCESIVO DEBIDO A LA CAÍDA DE CUALQUIER COMPONENTE DEL SISTEMA O AL SOMETERLO A CHOQUES Y VIBRACIONES EXCESIVOS PUEDE CAUSAR UN MAL FUNCIONAMIENTO Y NO ESTÁ CUBIERTO POR LA GARANTÍA
- LOS DAÑOS POR AGUA NO ESTÁN CUBIERTOS BAJO LA GARANTÍA

1. Especificaciones

● CM-AHD Switcher

TX IC// NVPV7151

RX IC// NVP6124B

Resolución // 1920 x 1080 P30

Rango de voltaje // DC: 9V~16V

Formato de video // NTSC

Habilitar pantalla // < 2s

Entrada de señal de vídeo // AHD / N System / 1080P

Salida de señal de vídeo // AHD / N System / 1080P

Corriente de trabajo // 200mA @DC12V

Operación Temp // -20°C~+65°C

Almacenamiento Temp // -30°C~+85°C

Canal de entrada de señal de vídeo // 3CH

● CM-SIDE AHD

Sensor // SONY IMX307-LQR

Marco // 30fps

Resolución // 1945 x 1097

Iluminación Mínima // < 0.1lux

Sistema de Vídeo // NTSC(Color)

Imagen // Imagen estándar

Resistente al agua // IP67-IP68

Ángulo de Visión // D170°, H130°, V72°(±3°)

Color del cuerpo // Black (B)

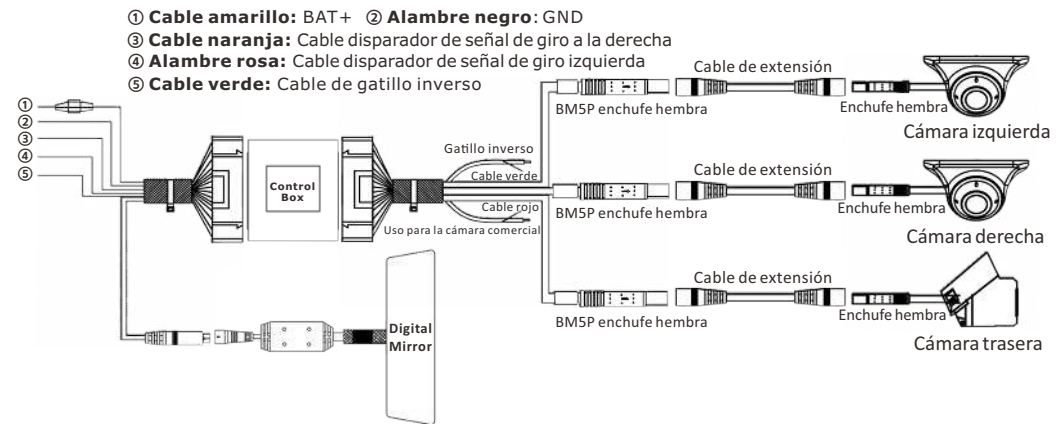
Construction des lentes // 2G+2P+1IR

Operación Temp // -20°C~+65°C

Almacenamiento Temp // -30°C~+85°C

Voltaje & Corriente máxima // 9~16V, 200mA

2. Diagrama de Cables



3. Funciones Principales

Este producto incluye un CM-AHD Switcher y dos CM-SIDE AHD.

● CM-AHD Switcher

1. Es un sistema de conmutación de vídeo montado en un vehículo que admite conmutación de vídeo de 3 vías.
2. A través de los cables de disparo izquierdo, derecho y trasero, se pueden cambiar las imágenes en tiempo real de la vista izquierda, derecha y trasera.
3. Se puede utilizar con nuestros monitores digitales AHD para ayudar a mejorar la seguridad en la conducción.

● CM-SIDE AHD

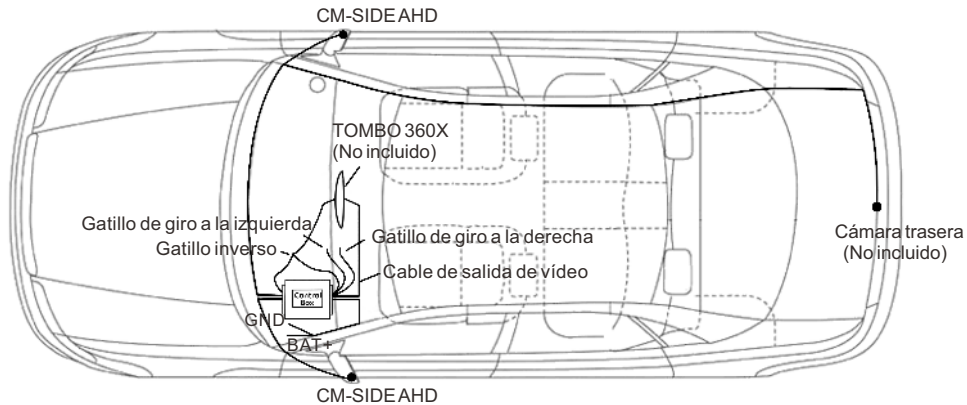
1. Cámara MINy con sensor SONY.
2. Compensación automática de sensibilidad.
3. Resistente al agua: aprobado IP67-IP68.
4. Admite la función HDR, que equilibra las luces y proporciona una visibilidad clara por la noche.
5. Lente de globo ocular ajustable, ángulo de visión amplio de 170 grados (Horizontal: 130° Vertical: 72°)
6. Las cámaras de visión lateral pueden ser compatibles con los monitores digitales Rydeen AHD.

4. Introducción a la instalación

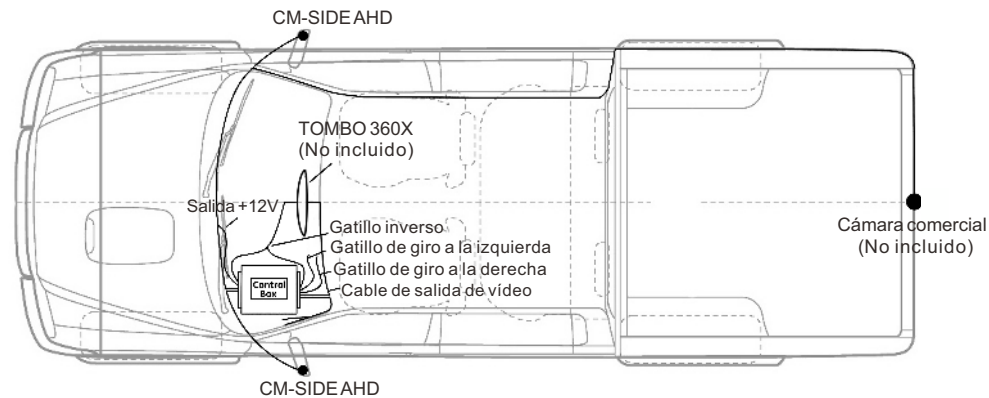
● CM-D700 AHD Introducción a la instalación

Siga el diagrama de cableado, instale el conmutador CM-AHD y CM-SIDE AHD.

Para auto

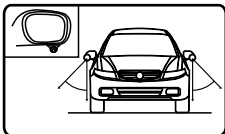


Para camión

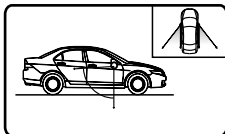


● CM-SIDE AHD Introducción a la instalación

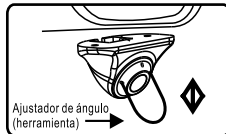
CM-SIDE AHD se utiliza junto con CM-AHD Switcher y generalmente se instala en los espejos laterales izquierdo o derecho. (Consulte las imágenes 1&2) El instalador puede ajustar la cámara real utilizando la herramienta en forma de U suministrada. (Consulte las imágenes 3&4)



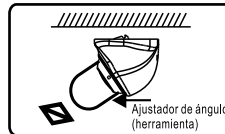
Image(1)



Image(2)



Image(3)



Image(4)