QFX®

WHERE THE PARTY BEGINS™

Car Rear View Camera User Manual

Thank you for purchasing the CAM-1. Installation of this rear view backup camera system should be performed by an automotive equipment installation specialist.

Safety:

1. In order to maintain optimal operation, the camera should be cleaned regularly. Remove any dirt, water droplets, snow, etc. in order to ensure best image quality.
2. Although the camera is an IPX-rated device, it should not be washed with a jet of water under high pressure as it may damage the camera lens.
3. Keep the camera cables away from the vehicle's exhaust system, engine or heat-generating components.
4. The camera is designed to operate on 12V DC voltage. Do not use attempt to connect it to vehicles that supply 24V DC as it may permanently damage the unit.
5. Specification are subject to change without prior notice.

Box Contents:

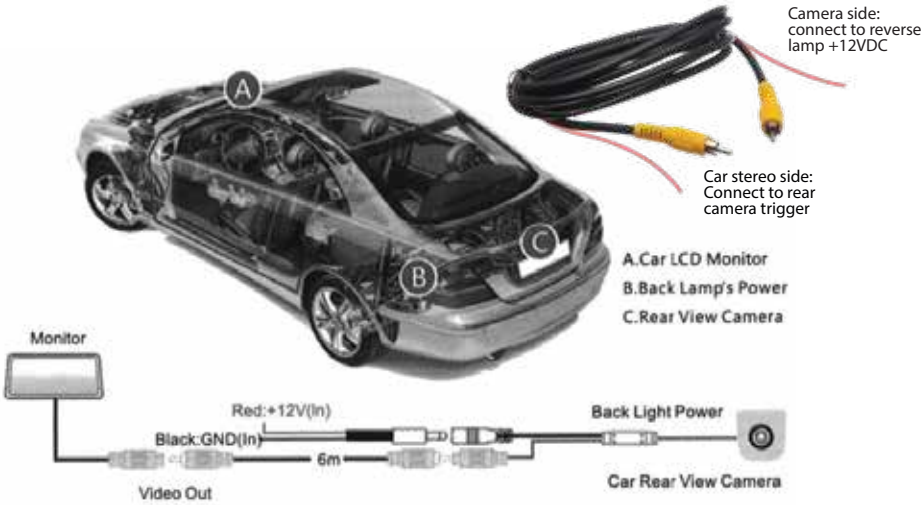
CAM-1 Installation

Installation and Operation Guidelines: (may vary depending on your specific vehicle)
Recommended tools that you may need to complete this installation include a flathead and Phillips screwdrivers, digital multi-meter, wire strippers/cutters, electrical tape, cable ties, double-stick tape and more depending on your vehicle.

- Make sure your vehicle is turned off and that the parking brake is engaged
- Safely disconnect the vehicle positive (+) and negative (-) battery terminals
- Remove the license plate (if necessary).
- Connect the power cable to the camera power input connector (red).
- Connect the power cable to the reverse light of the vehicle. NOTE: As an alternative, some aftermarket stereo wiring harnesses have a direct connection to reverse power (+12VDC).
- Connect the video cable to the camera video connector (yellow).
- Extend the video cable to the front of the vehicle and connect it to the video monitor or backup mirror display.
- After checking all connection, safely reconnect the battery terminals.
- Start the vehicle.
- Put the car in reverse and with brake engaged check if the monitor turns on and displays the rear video feed.
    - o If it works, turn the car off.
    - o If it doesn't work, recheck all connections and retry. Please note that in order for the display to show the video feed, it needs a signal to alert the system that the car is in reverse.
- Once proper operation and alignment has been confirmed, affix the camera (or license plate camera) to the vehicle's frame or license plate, protect and neatly organize wiring/cables using electrical tape, cable ties, double-stick tape, etc.

Wiring Diagram:

Regarding the red wires on the yellow video cable (RCA male to RCA male):
D. Connect the camera side red wire to the reverse lamp 12VDC power.
E. Connect the other end red wire to the car stereo rear camera trigger wire



Specification:

Image sensor	CCD
Signal System	NTSC/PAL
Effective Pixel	728 x 500
Sync System	Internal
Horizontal Resolution	500TVL

Min. Illumination	0.01lux/F1.2
Diagonal Angle	120°
Waterproof Rating	IP69K
Power Supply	12VDC
Working Temp.	-22F to 176°F (-30°C to 80°C)

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Hours of Operation: Monday - Friday, 9am - 5pm PST

All prices and details below are for US Destinations excluding, Hawaii, Alaska and Puerto Rico. For excluded destinations and NON US destinations, please contact The QFX Customer Support Department directly for additional shipping fees and return instructions.

If you do not find your Product below, your Product model conflicts with multiple categories, and/or are unsure of which category the Product you have purchased will fall under, please contact our Customer Support Department for further instruction.

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Please make sure to follow all directions prior to shipping back your item. If you are not sure what the shipping cost for your item is, or if your item category conflicts in the table below, please feel free to contact the QFX Support Department for further assistance.

PRODUCT CATEGORY	HANDLING	LABOR	PARTS
Earphones, Headphones, Pocket Radios, & Small Bluetooth vSpeakers	$5.00	1 Year	1 Year
Personal Stereos	$10.00	1 Year	1 Year
Portable Radio/Cassette	$15.00	1 Year	1 Year
Large Portable Radio Cassette	$20.00	1 Year	1 Year
Mobile Audio	$10.00	1 Year	1 Year
Pro Audio SBX Systems	$75.00	1 Year	1 Year
Pro Audio PBX Systems	$75.00	1 Year	1 Year
Televisions	$25.00	1 Year	1 Year
Telephones	$10.00	1 Year	1 Year

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Manual de usuario de la cámara de visión trasera del coche
Gracias por comprar la CAM-1. La instalación de este sistema de cámara retrovisora de visión trasera debe ser realizada por un especialista en instalación de equipos automotrices.

La seguridad:
1. Para mantener un funcionamiento óptimo, la cámara debe limpiarse regularmente. Elimine la suciedad, las gotas de agua, la nieve, etc. para garantizar la mejor calidad de imagen.
2. Aunque la cámara es un dispositivo con clasificación IPX, no debe lavarse con un chorro de agua a alta presión, ya que podría dañar la lente de la cámara.
3. Mantenga los cables de la cámara alejados del sistema de escape del vehículo, el motor o los componentes que generan calor.
4. La cámara está diseñada para funcionar con un voltaje de 12 V CC. No intente conectarlo a vehículos que suministren 24 V CC, ya que puede dañar permanentemente la unidad.
5. Las especificaciones están sujetas a cambios sin previo aviso.

Contenido de la caja:

CAM-1 Installation

Directrices de instalación y funcionamiento: (pueden variar según su vehículo específico)
Las herramientas recomendadas que puede necesitar para completar esta instalación incluyen destornilladores de cabeza plana y Phillips, multímetro digital, pelacables/cortadores, cinta aislante, bridas para cables, cinta adhesiva doble y más, según su vehículo.

- Asegúrese de que su vehículo esté apagado y que el freno de estacionamiento esté puesto
- Desconecte de forma segura los terminales positivo (+) y negativo (-) de la batería del vehículo
- Retire la matrícula (si es necesario).
- Conecte el cable de alimentación al conector de entrada de alimentación de la cámara (rojo).
- Conecte el cable de alimentación a la luz de marcha atrás del vehículo. NOTA: Como alternativa, algunos arneses de cableado estéreo del mercado de accesorios tienen una conexión directa a la potencia inversa (+12 VCC).
- Conecte el cable de video al conector de video de la cámara (amarillo).
- Extienda el cable de video al frente del vehículo y conéctelo al monitor de video oa la pantalla del espejo retrovisor.
- Después de comprobar todas las conexiones, vuelva a conectar de forma segura los terminales de la batería.
- Arrancar el vehículo.
- Ponga el automóvil en reversa y con el freno accionado verifique si el monitor se enciende y muestra la señal de video trasera.
    - o Si funciona, apague el coche.
    - o Si no funciona, vuelva a verificar todas las conexiones y vuelva a intentarlo. Tenga en cuenta que para que la pantalla muestre la transmisión de video, necesita una señal para alertar al sistema de que el automóvil está en reversa.
- Una vez que se haya confirmado el funcionamiento y la alineación correctos, fije la cámara (o la cámara de la placa de matrícula) al marco del vehículo o a la placa de matrícula, proteja y organice ordenadamente el cableado/los cables con cinta aisladora, bridas para cables, cinta adhesiva doble, etc.

Conexiones:

Con respecto a los cables rojos del cable de video amarillo (RCA macho a RCA macho):
D. Conecte el cable rojo del lado de la cámara a la alimentación de 12 V CC de la luz de marcha atrás.
E. Conecte el cable rojo del otro extremo al cable disparador de la cámara trasera del estéreo del

Specification:

Sensor de Imagen	CCD
Sistema de Señal	NTSC/PAL
Píxel Efectivo	728 x 500
Sistema de Sincronización	Internal
Resolucion Horizontal	500TVL

Mín. Iluminación	0.01lux/F1.2
Ángulo diagonal	120°
Clasificación impermeable	IP69K
Fuente de Alimentación	12VDC
Temperatura de Trabajo.	-22F to 176°F (-30°C to 80°C)

Manuel d'utilisation de la caméra de recul de voiture
Merci d'avoir acheté le CAM-1. L'installation de ce système de caméra de recul doit être effectuée par un spécialiste de l'installation d'équipements automobiles.

Sécurité:
1. Afin de maintenir un fonctionnement optimal, la caméra doit être nettoyée régulièrement. Enlevez toute saleté, gouttelettes d'eau, neige, etc. afin d'assurer la meilleure qualité d'image.
2. Bien que la caméra soit un appareil classé IPX, elle ne doit pas être lavée avec un jet d'eau à haute pression car cela pourrait endommager l'objectif de la caméra.
3. Éloignez les câbles de la caméra du système d'échappement du véhicule, du moteur ou des composants générant de la chaleur.
4. La caméra est conçue pour fonctionner sur une tension continue de 12 V. N'essayez pas de le connecter à des véhicules alimentés en 24 V CC car cela pourrait endommager l'appareil de manière permanente.
5. Les spécifications sont sujettes à modification sans préavis.

Contenu de la boîte :

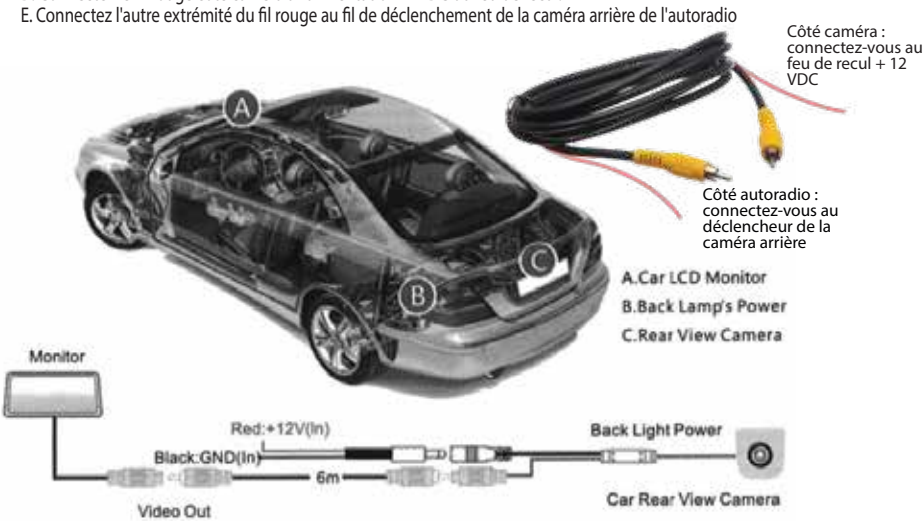
CAM-1 Installation

Directives d'installation et de fonctionnement: (peut varier en fonction de votre véhicule spécifique)
Les outils recommandés dont vous pourriez avoir besoin pour effectuer cette installation comprennent un tournevis à tête plate et cruciforme, un multimètre numérique, des pinces à dénuder/coupe-fil, du ruban électrique, des attaches de câble, du ruban adhésif double face et plus encore selon votre véhicule.

- Assurez-vous que votre véhicule est éteint et que le frein de stationnement est serré
- Débranchez en toute sécurité les bornes positive (+) et négative (-) de la batterie du véhicule
- Retirez la plaque d'immatriculation (si nécessaire).
- Connectez le câble d'alimentation au connecteur d'entrée d'alimentation de la caméra (rouge).
- Connectez le câble d'alimentation au feu de recul du véhicule. REMARQUE : Comme alternative, certains faisceaux de câbles stéréo du marché secondaire ont une connexion directe à l'alimentation inverse (+12 VDC).
- Connectez le câble vidéo au connecteur vidéo de la caméra (jaune).
- Étendez le câble vidéo à l'avant du véhicule et connectez-le au moniteur vidéo ou à l'affichage du rétroviseur de recul.
- Après avoir vérifié toutes les connexions, rebranchez en toute sécurité les bornes de la batterie.
- Démarrez le véhicule.
- Mettez la voiture en marche arrière et avec le frein serré, vérifiez si le moniteur s'allume et affiche le flux vidéo arrière.
    - o Si cela fonctionne, éteignez la voiture.
    - o Si cela ne fonctionne pas, revérifiez toutes les connexions et réessayez. Veuillez noter que pour que l'écran affiche le flux vidéo, il a besoin d'un signal pour alerter le système que la voiture est en marche arrière.
- Une fois le bon fonctionnement et l'alignement confirmés, fixez la caméra (ou la caméra de la plaque d'immatriculation) sur le châssis ou la plaque d'immatriculation du véhicule, protégez et organisez soigneusement le câblage/les câbles à l'aide de ruban électrique, d'attaches de câble, de ruban adhésif double face, etc.

Connexions:

Concernant les fils rouges sur le câble vidéo jaune (RCA mâle vers RCA mâle) :
D. Connectez le fil rouge côté caméra à l'alimentation 12VDC du feu de recul.
E. Connectez l'autre extrémité du fil rouge au fil de déclenchement de la caméra arrière de l'autoradio



Specification:

Capteur d'images	CCD
Système de Signalisation	NTSC/PAL
Pixel Effectif	728 x 500
Système de Synchronisation	Internal
Résolution Horizontale	500TVL

Min. Éclairage	0.01lux/F1.2
Angle diagonal	120°
Indice d'étanchéité	IP69K
Source de Courant	12VDC
Température de travail.	-22F to 176°F (-30°C to 80°C)