

# Backup Camera with Night Vision

Are you struggling to find the **best backup camera with night vision capabilities**? Do you have an older model car without a built-in backup night vision camera? Well, we've spent hours wading through specifications and customer reviews, comparing prices and assessing features, and what we've discovered will surprise you.

Before we get into the details, though, it helps to have a little background information on night vision backup cameras. After all, how else will you know what to look for as you review our roundup of the best backup cameras? Here are six questions to ask while you shop.

## Backup Camera Buying Guide

### Does the Camera Have a High Definition (HD) Image?

When it comes to trusting a camera to ensure you're not backing into anything, just a visual isn't enough. You need a crystal-clear wide-angle image, free of distortion or interference. Good advertised HD quality in a backup camera is not a guarantee of clear images when mounted on your vehicle, but it is an excellent place to start.

Displaying contrasting areas of bright and dark is especially critical at night. This allows you to identify what is behind you more easily.

### Is the Camera Installation Weatherproof and Waterproof?

The lifespan of reverse cameras for cars is a common customer query, and the answer is that it depends on how protected the camera is from the elements. Even the best

rearview camera becomes useless if it fills with water after it rains or you wash your vehicle. A waterproof camera is a must.

## **Are You Getting the Best Field of Vision?**

Mounting the camera for the widest field of vision should provide a clear view behind and to the side of your bumpers. Some cameras don't give a wide-enough view, resulting in blind spots. Avoiding blind spots is one of the most critical aspects of testing a night vision backup camera. We excluded several cameras from our review for this very reason.

Better quality cameras have adjustments for positioning the image. The opposite, too wide a view, is also a problem. This gives the image a "fisheye lens" appearance. You can't judge the distance in a distorted image, and objects in view are not identifiable, which impairs safety. We excluded these from our top ten list too.

## **Does It Have Parking Guidelines?**

The inclusion of parking guidelines in backup cameras is a contentious issue for some. Most customers want the option of guides as they can be a great help when maneuvering or parking in reverse. The problem is that fixed guidelines can hurt more than help if the camera is misaligned.

If you're in the pro-guideline camp, it's ideal to choose a rear view backup camera that offers guideline adjustability. You also want to make sure that, especially on license plate mounts, the rearview camera is mounted securely and properly.

If you're not interested in guidelines, keep in mind that the majority of modern backup cameras have an option to turn them off. That way, you can use them if you want and turn them off if they bother you.

## **How Is It Installed?**

Backup cameras are available in both wired and wireless models. In wired models, a cable connects the camera to the dashboard display. This cable runs through your vehicle and is easy to install.

A wireless backup camera is an easier option. Yet, the camera still needs to draw power from somewhere. It still needs to be wired to your vehicle. It just doesn't require a wire to your dash. With both options, if you're not familiar with your vehicle's wiring, it may be best to opt for professional installation. An improperly installed backup camera can damage your electrical system.

Beyond installation concerns, the biggest differences between the two come down to cost and quality. Wireless cameras can suffer from interference, which may result in a poor picture or no picture at all. On the other hand, wired cameras tend to cost more both to purchase and install.

You can also get a camera that links to your cell phone. These models include phone dashboard mounts, are wireless, and usually less expensive.

## **Is It Compatible with Your Dash Display, or Does It Include a Display?**

If your vehicle already has a dash display, make sure to check its compatibility with the rearview backup camera you're considering. Most cameras come with a standard video connection cable. To get the best quality image, match the resolution of the display to the camera.

Remember that not all cameras come with a dashboard display, if your vehicle doesn't have one, you may have to order one separately. We particularly like the rearview

mirror display. It acts as a camera display when you engage reverse. When traveling forward, it acts as a rearview mirror.

Another issue is whether the format is PAL or NTSC. Some cameras have both formats available, but many do not. To be on the safe side, check your dash display. Before fitting, ensure you ordered a camera with a compatible format.

# The 10 Best Rearview Backup Cameras Available in 2019

## 1. **EskyCP-018 Rear View Camera 2-LED -Our Top Pick**

This camera ticks all the boxes. Rated at 717 x 669 pixels, it outperforms most other cameras by quite a large margin. Clarity and unsurpassed nighttime vision are further selling points. Two powerful LEDs provide ample illumination for low-light viewing.

There is no need to worry about blind spots with this license plate mounted camera's 170-degree viewing gradient. Nothing impedes your view and makes this one of the safest options.

The EskyCP-018 is one of the easiest backup cameras to install. It mounts using your existing license plate screw holes, so there is no need for drilling or specialist tools. Wiring connects to your reverse lights, and the 19-foot AV cable is more than enough to reach your dashboard.

The camera carries an IP67 waterproof grade to withstand the weather and high-pressure washing. The aluminum alloy camera housing is both robust and durable. Many owners have reported over three years of trouble-free use.

But the lens cover may not stand up to extreme UV radiation for those of you in hotter areas of the country. Leaving your vehicle out in the sun throughout the day exposes it to high levels of UV radiation. The quality of the camera image will deteriorate over time as the lens becomes yellow.

The parking guidelines are also not adjustable. It is essential to ensure that the camera mounts are correctly aligned. That's the only issue we have with this fantastic camera. It can be a little irritating if the guidelines are askew. Turning them off is not an option, either.

One of our favorite features of this camera is its small size. It weighs in at 0.35lbs, which is tiny, making it unobtrusive from the rear. The fitting doesn't cover any part of your license plate. Many other cameras have this problem, which can be a safety hazard.

As this camera does not come with a dashboard display, pair it with a suitable NTSC model. A one-year warranty ensures peace of mind should you not be happy with your camera.

### **Pros**

High Resolution

170-degree viewing angle

Two LED lights for nighttime use

Easy installation

Lightweight

One-year warranty

Affordable

### **Cons**

Guidelines aren't adjustable and can't be turned off

Dashboard display not included

## **2. Xroose HD S2 6-LED -Best Value for Money**

The Xroose GD S2 is hands-down the best value for your money on the market. The HD color camera provides clear images both night and day that make identifying objects quick and easy. Color contrast and quality are excellent. The high definition chipset improves the contrast between dark and very light areas.

The sleek and stylish design suits most vehicles. The upgraded aluminum mounting bracket should extend the life of the camera. The IP69 rating will ensure that the camera will withstand both rain and car washes with ease.

With six LEDs (no infrared), the images produced at night are excellent. You will identify objects with ease, making for safer driving. Owners of this model camera are complimentary about the image quality.

As with most modern backup cameras, the parking guidelines are clear and easy to use. You can switch the guides off if you don't need them. There is an adjustable grid which enhances an already well-thought-out design.

A 149-degree wide-angle of view provides for a complete view and no blind spots — no more worrying about hitting something while backing up.

Installation is simple and straight forward. You will not need to drill holes for the license plate mounting. A 26-foot video cable provides ample length to reach your dashboard. The RCA video cable is compatible with most vehicles.

Some customers noted that the cables are delicate, though. Caution is necessary when fitting them. It's best not to crimp or bend the wires and take care while threading them through grommets or seals. Careless handling damages the connectors and accessories.

This camera is compatible with most dashboard displays. If required, a Pioneer display is the recommended LCD.

### **Pros**

- High-resolution color
- 149-degree viewing angle
- Six LED lights for nighttime use
- Easy installation
- IP69 waterproofing
- Adjustable guidelines that can be turned off
- Great value

### **Cons**

- Installation wires are delicate
- Dashboard display not included

## **3. eRapta ERT01 2nd Gen 8-LED -Most Popular**

The eRapta is by far the most popular backup camera we have reviewed. The combination of price and features will thrill you for sure. The high-resolution image is as good as more expensive cameras, but some customers experienced color variation with their units. It may depend on what display you are linking to.

You can expect this IP69 grade waterproof camera to perform well in most weather. The mountings are solid. The rubber waterproofing ring works well at keeping the elements at bay.

The adjustable lens allows for ideal alignment, so you get the precise image you need. The eight LEDs provide excellent night vision. You can identify all objects behind you, whatever the lighting conditions.

Parking guidelines provide an extra layer of security when reversing. The adjustable grid allows for very precise positioning of your vehicle. The broad, 149-degree view translates into effortless maneuvering with no blind spots.

Installation is simple with a 26-foot RCA cable and 5-foot power cord, provided you have a basic understanding of your motor vehicle and its wiring. The license plate mounting requires no extra screw holes. The connections are quick and easy to make.

The camera is suitable for all makes and models of motor vehicles. A dashboard LCD or cellphone is all you need.

### **Pros**

- High-resolution color
- 149-degree viewing angle
- Eight LED lights for nighttime use
- Easy installation
- IP69 waterproofing
- Adjustable guidelines that
- Great value
- A cellphone can be used for display

### **Cons**

- Some image color variation
- Dashboard display not included

## **4. LeeKooLuu Rearview Camera and Mirror 7-LED**

The LeeKooLuu backup camera system comes highly rated, though, the complexity of installation may require a professional. The camera provides an excellent, high-resolution image. It offers high contrast and accurate color separation.

The signal provides for PAL and NTSC formats. The rearview mirror display is 4.3-inches. Some customers find it performs poorly in direct sunlight, but for most owners, it is a good value for money. It acts as a rearview mirror when not in reverse mode. Owners have praised its ability to cut down on nighttime glare from drivers behind them.

Most cameras feature IP69 weatherproofing. We were a little unhappy to find that this camera only carries an IP68 grading. What this means is that the ability of the camera to resist dust and water is below standard. IP69 is specific to motor vehicles and jets of pressurized water, so if you have your vehicle pressure cleaned, then this may not be the best buy for you.

We can't fault the quality of its night vision capabilities, though. Owners report that both day and nighttime images are excellent and that the video display allows for accurate parking. Object identification is accurate, so you will feel safer while backing.

You can switch the backup guidelines on or off, depending on your circumstances. It also allows you to adjust the width and height relative to the size of your vehicle.

A two-year warranty on the camera is a welcome extra. Customers who have experienced problems report excellent service from the supplier. They even provide an extra-long video cable, free on request. You can't beat service like that!

### **Pros**

High-resolution color

150-degree viewing angle

Seven LED lights for nighttime use

Adjustable guidelines that can be turned off

Includes a rearview mirror display

Two-year warranty

## **Cons**

Below standard waterproofing

Difficult installation

## **5. Yakry HD Camera and Monitor Kit 6-LED**

This HD 720P rated camera is not true HD, but customer feedback is positive. Those who have purchased the unit report the camera and display are well matched. You get excellent visuals at an affordable price.

The 4.3-inch display that uses both PAL and NTSC formats impressed us. It provides full-color, crisp images. Rated IP69, this installation holds up very well in all weather. Construction is robust, and the adjustable bracket and camera are well waterproofed. The only concern is that the bracket may obscure viewing part of your license plate, depending on how you attach it, and that could land you in some legal trouble.

The six LEDs provide excellent light coverage at night. The parking guidelines can be adjusted using buttons on the bottom of the display—a feature that you will come to appreciate as you can fine-tune them for the size of your vehicle. You have the option of turning the guides on or off, adjusting the width, and moving them up, down, left, or right.

## **Pros**

149-degree viewing angle

Six LED lights for nighttime use

Easy installation

IP69 waterproofing

4.3-inch display included

## **Cons**

Mounting may block your license plate

Not true HD

## **6. Amtifo 720P HD 5-LED**

The technology in the Amtifo 720P will impress you. The image quality produced by the 648 x 488-pixel camera is crisp and clear. An NTSC format and matching 4.3-inch mirror display perfect the view. Rated at 720P, this camera delivers clear images both night and day.

A smart feature allows you to hide the mounting bracket behind your license plate. We know that you will particularly like the camera's size. Its shape and small footprint won't cover your license plate. This is an issue that we find on many cheaper license-plate-mounted cameras.

The well-insulated and weatherproofed camera provides for superb durability. The excellent design prevents water from distorting the images. Five LEDs provide extra illumination at night. The rearview mirror display is well matched to the camera, giving very clear images. Extendable clips allow quick and easy fitment to your rearview mirror.

A button on the back of the rearview mirror display switches the parking guidelines on or off. However, there is no guideline adjustment option. You will need to make sure you adjust the camera during installation to ensure accurate visuals.

This camera achieves a broad view of 150-degrees. The display is distortion-free and optimized for the mirror display resolution. Installation is quick and easy. By using too much force, you may crimp the wires, though, so be careful. There have also been cases where owners have snapped the video cable.

### **Pros**

High resolution

150-degree viewing angle  
Five LED lights for nighttime use  
Guidelines can be turned off  
4.3-inch mirror display included

### **Cons**

Guidelines aren't adjustable  
Installation wires are delicate

## **7. LeeKooLuu Backup Camera and Monitor Kit 720P 6-LED**

This 720P high-resolution camera easily achieves a clear view of the rear of your vehicle. Matching it to the 4.3-inch LCD-display display delivers excellent quality images. The LeeKooLuu backup camera is excellent value for money.

This IP69 rated camera will withstand inclement weather and car washes. However, there have been some reports of water entering the camera housing. This is a rare occurrence and no reason to avoid purchasing this high-quality unit.

The upgraded camera with six LEDs but no infrared provides clear color images both day and night. You will find that the quality of the display image surpasses more expensive models.

The unit comes standard with a 4.3-inch multifunction LCD and includes adjustable parking guidelines. You can switch the guides off or adjust them for height and width to suit your vehicle. The 149-degree view provides adequate rearward vision, though, some owners report having to change the location of the camera on larger SUVs and pickups.

An instruction manual provides simple installation notes so that DIY enthusiasts can achieve excellent results. This is another model with very delicate cables, though, so handle with care.

The 4.3-inch display comes with a magnetic bracket that can rotate a full 360 degrees. You have the option of mounting on your dashboard or the visor. A full 2-year warranty protects you against any manufacturing faults. Many owners report being impressed with the supplier's service.

### **Pros**

High resolution

149-degree viewing angle

Six LED lights for nighttime use

Adjustable guidelines can be turned off

4.3-inch clip-on display included

### **Cons**

Installation wires are delicate

Some quality control issues with waterproof housing

## **8. Natika Backup Camera**

This little camera provides excellent day and night images. Despite not requiring LEDs to assist in low-light conditions, the clarity is superb. The zinc alloy housing is 100% waterproof. Owners report no issues even after heavy rains and pressure washing. Its IP69 grading is well deserved.

The impressive night vision capabilities of this tiny camera surprised us. We can recommend it if you are looking for an unobtrusive camera. It can be mounted in a variety of directions and angles to improve visibility. We found that it achieves a wide field of view.

The parking guidelines can't be adjusted or switched off. Though some users have found clipping a wire will disable them. If you live in an extreme climate, then this car reverse camera is an excellent choice. We feel you will not be disappointed by its vast capabilities and easy installation.

### **Pros**

170-degree viewing angle

Easy installation

IP69 waterproofing

Double metal construction

Two-year warranty

### **Cons**

Guidelines aren't adjustable and can't be turned off

No display included

## **9. Bir Backup Camera 1080P**

The Bir Backup camera and rearview mirror display provide a 170-degree rear vision at 1080P. Image quality is outstanding. Loop recording is available without the need to buy extra memory cards.

The 10-inch screen is an easy-to-use multifunction LCD unit. It provides all the functionality you could desire. While not cheap, this is an excellent buy if you need a state-of-the-art backup camera system.

The IP69 waterproof rating and high specification level make this a very desirable system. It is packed with features. The night vision capabilities are fantastic, and the park guidelines are adjustable in all orientations.

The wide angle view translates well into an excellent distortion-free image. The 10-inch display is crystal clear. We would recommend that you engage a professional installer to fit the unit, although installation is straightforward for a competent DIY enthusiast.

A front-facing camera is built into the rearview mirror monitor to act as a dashcam. Full multi-functionality technology is available in one compact unit. We consider this one of the finest technology options available if money is no object.

### **Pros**

High-resolution color

170-degree viewing angle

IP69 waterproofing

Includes 10-inch display

Acts as a dashcam as well

### **Cons**

Expense

## **10. AUTO-VOX Solar Wireless Backup Camera Kit -Best Wireless Backup Camera**

If you are in the market for the best wireless backup camera—and a truly wireless model—then the Auto-VOX wireless backup camera is well worth a look. It's the only camera on our list with its own power source—rechargeable solar batteries.

If parked in a sunny location, there's no need to charge this model at all, but it does also have a USB charging option if necessary. A single charge is enough to run the camera several times a day for months. Installation takes 5 minutes and doesn't require accessing your vehicle's wiring at all.

However, the display is not entirely wireless. It doesn't have an internal battery and requires a 12V auxiliary power outlet. It does include a cord for this.

The camera is ruggedly constructed and can withstand extreme temperatures and water with an IP68 rating. You can select the parking guidelines from six different options. They can also be switched off completely.

Customers report being thrilled with this camera. Despite it being a little on the pricey side, it is still very popular.

### **Pros**

- High-resolution color
- Wide viewing angle
- IP68 waterproofing
- Includes display
- Isn't wired into your car

### **Cons**

- Battery slowly loses charge in colder climates
- Dash display requires a 12V auxiliary power outlet

## **Wrapping It Up**

While the best backup camera with night vision capabilities for you will depend on the type of vehicle you drive, your budget, and your preferences, all the options listed here make an excellent choice. If we had to recommend one single camera, however, it would be the EskyCP-018 for its simple installation and affordable price point.

<https://www.tucsonstreetcar.com/backup-camera-with-night-vision/>