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Toyota, one of the world's largest automakers, has been integrating built-in dashcam technology into select models of its vehicles. Dashcams, also known as car cameras, are becoming increasingly popular features that can provide valuable footage in the event of an accident or other incident on the road.Toyota Models with Built-in DashcamsAccording to Toyota's official website and various automotive news sources, the following Toyota models currently offer built-in dashcam technology: Toyota Supra - The latest generation of the iconic Toyota Supra sports car, introduced in 2019, comes equipped with a built-in dashcam as a standard feature. Toyota Mirai - Toyota's hydrogen-powered Mirai sedan, first launched in 2014 and redesigned in 2020, includes a built-in dashcam as part of its advanced safety features. Toyota Sienna - The 2021 and newer models of the Toyota Sienna minivan offer an available built-in dashcam as part of the vehicle's technology package.These Toyota models with built-in dashcams provide drivers with the ability to capture important footage in the event of an accident or other incident, which can be valuable for insurance claims, law enforcement investigations, or personal records.Benefits of Built-in Dashcams in Toyota VehiclesThe integration of dashcam technology into select Toyota models offers several benefits to drivers: Improved Safety and Accountability - Dashcam footage can provide objective evidence in the event of an accident, helping to determine fault and protect drivers from false claims. Convenient Recording - Built-in dashcams eliminate the need for a separate, aftermarket device, providing a seamless and integrated solution. Continuous Recording - Many Toyota dashcams are designed to continuously record while the vehicle is in use, ensuring that important footage is captured even in unexpected situations.As the demand for in-vehicle safety and security features continues to grow, the inclusion of built-in dashcams in Toyota models is a testament to the company's commitment to providing its customers with advanced technology and enhanced driving experiences. Do Toyota dashcams record audio?Yes, Audio in the cabin is being recorded while Dash cam is powered on, however a Toyota Rear Facing camera does not have built-in microphones, audio is only recorded from the Front Facing Dash Cam. On the app Audio is applied to recordings from both the front and rear cameras.The first production automobile to incorporate a backup camera was the 1991 Toyota Soarer Limited (UZZ31 and UZZ32), which was only available in Japan. The Toyota system used a color EMV screen with a rear-spoiler-mounted CCD camera.Disadvantages of dash camsThey can be considered one-sided. Although dash cams can be very beneficial for providing evidence in the event of an incident they may not be able to tell you the whole story of what happened. For example, if a cat or other hazard wasn't picked up in the footage due to the camera angle.Discover the new built-in dash cam feature of the 2025 Toyota Camry with a microphone for enhanced quality.For a clear view when reversing, all Camry's come equipped with a standard backup camera. Combine it with available Panoramic View Monitor for 360 views.When powered by a standard accessory outlet in your car, your dash camera will typically not work when the car is off. Dash cams require a constant power source to function while the car is off. That said, there are models and configurations that are designed to work when the car is not turned on.Toyota Integrated DashcamEligible with the 2022-2023 Toyota Camry, 2022-2023 Toyota Highlander, 2023 Toyota Prius, 2023 Toyota RAV4, 2023 Toyota RAV4 Prime, 2023 Toyota Sequoia Hybrid, 2021-2023 Toyota Sienna Hybrid, 2022-2023 Toyota Tacoma, 2022-2023 Toyota Tundra, 2021-2023 Toyota Venza.Do Cars Have Built-in Dashcams?Tesla Every new Tesla model provides a dashcam function.Mercedes-Benz Certain new Mercedes-Benz models offer a dashcam system, providing front and behind views.BMW To gain the dashcam system available in some new BMW models, the car or SUV must have the surround-view function.First, carefully inspect the front and rear windshields of your vehicle for any signs of a camera installation. video car dvr dash cam are typically placed at the top or bottom of the front windshield to ensure they capture the view of the road ahead.If you spot a small camera lens or housing on the windshield, it's likely that your car is equipped with a DVR dash cam. Additionally, some vehicles may have visible cables or wires on the windshield, which are typically connected to the 360 car dash cam for power supply and data transmission. AHG Auto Service Make Toyota Does Toyota have built in dashcam? Does Toyota have a built-in dashcam? Yes, Toyota offers a built-in dashcam known as the Toyota Genuine Dash Camera. This dashcam is available for select models and is not a standard feature but can be added as an optional accessory at the dealership. The dashcam is designed to record continuously in 1080p, with the oldest files being automatically overwritten when the SD card is full. It can automatically preserve footage of the 12 seconds before and the 8 seconds following an abnormal shock while driving, and it can record up to 60 seconds following an impact while the car is parked.The Toyota Genuine Dash Camera starts recording video, audio (if the microphone is turned on), and location data when the vehicles ignition is turned on. It has special video event recording modes to capture and protect important videos, and footage can be reviewed and saved to a smartphone or computer with the free app or accompanying software. The dashcam also features infinite loop recording, incident recording, parking surveillance, audio switch, interesting event recording, and adventure mode.The dashcam is discreet and fits neatly at the top of the windscreen to record the road ahead in FULL 1080p HD and incorporates a unique lens with 90-degree vertical adjustment. It also has inbuilt Wi-Fi, allowing users to download footage to a smartphone, super-fast GPS for tracking the journey and pinpointing the exact location and speed of an incident, and is accepted as proof by major insurers.In summary, Toyota does offer a built-in dashcam, the Toyota Genuine Dash Camera, as an optional accessory for select models, providing continuous recording, incident recording, parking surveillance, and other features to enhance safety and security. Is there a dash cam that sits on the dashboard?Traffic Stop and Other Ring Car Cam Recording ModesWhile the Ring Car Cam sits on your dashboard like a dash cam, its more accurate to call it a car security camera. The Car Cam offers a few recording modes.Do Toyotas come with dash cam?Toyota Integrated DashcamEligible with the 2022-2023 Toyota Camry, 2022-2023 Toyota Highlander, 2023 Toyota Prius, 2023 Toyota RAV4, 2023 Toyota RAV4 Prime, 2023 Toyota Sequoia Hybrid, 2021-2023 Toyota Sienna Hybrid, 2022- 2023 Toyota Tacoma, 2022-2023 Toyota Tundra, 2021-2023 Toyota Venza.Does Toyota dash cam record audio?Once activated, video and audio are continuously recorded until the ignition is turned off and the footage is saved on the micro SD card. When the micro SD card is full, the oldest video files are then overwritten.Does Toyota Camry have cameras?Camrys available Panoramic View Monitor * uses front-, side- and rear-mounted cameras to display a panoramic overhead view. It helps you get in and out of the tightest spots with confidence.What is the password for Toyota dash cam?Cam. App and the password is one two three four five six seven eight nine zero.Does Toyota dash cam work when car is off?Conclusion. Dashcams can still provide valuable surveillance even when your car is off. With the ability to operate in standby mode, these cameras can continue recording and safeguard your vehicle, capturing any incidents or suspicious activities while parked.Do all cars come with dash cam?While plenty of new vehicles have various sensors and camera systems, to enable advanced safety system features, only a handful of manufacturers build dash cams into their cars.Does Camry have built in dash cam?Toyota Dashcam: This is offered as an available option on the Toyota Sienna Hybrid, Venza, Prius, RAV4, Sequoia Hybrid, Camry, Highlander, Tundra, and Tacoma models.How do I connect my Toyota dash cam to my phone?For Android phones, connection must be made using the Wi-Fi DIRECT connection method, (not normal Wi-Fi network connection). Consult your smartphones instruction manual for the appropriate Wi-Fi/Wi-Fi DIRECT connection procedure.You can download and share footage with the complimentary Toyota Integrated Dashcam App for your Apple or Android smartphone. The companion PC tool software, available for your Windows or Mac, lets you review additional information such as vehicle speed, location, and G-forces, all synchronized with the footage. What is Covered Toyota* warrants that it will either provide a replacement part or repair any Toyota part or accessory that is defective in material or workmanship. This warranty applies to new or remanufactured parts which are Toyota Genuine Parts. Toyota Genuine Parts are defined as all Toyota parts and accessories that are either manufactured or specifically approved by Toyota Motor Corporation and sold by TMS or its authorized Private Distributors to authorized Dealers. Parts Purchases - With the exception of 12V batteries, Toyota Genuine Parts purchased over-the-counter or online from an authorized Toyota Dealer, but installed by a third party on the applicable Toyota or Lexus model vehicle, carry a 12-month parts only warranty from the date of purchase. Service Part Warranty - The warranty for Toyota Genuine Parts purchased and installed by an authorized Dealer on the applicable Toyota or Lexus model vehicle, is 12 months, regardless of mileage, from the install date or the remainder of any applicable New Vehicle Limited Warranty, whichever provides greater coverage. 12 Volt Battery Limited Warranty TrueStart batteries are warranted as free exchange from the date of purchase for 24 months, regardless of mileage, or the remainder of the New Vehicle Limited Warranty, whichever provides greater coverage, and on a prorated basis thereafter for up to 84 months. Proration is for the battery only (based on MSRP) and excludes applicable taxes, labor for installation and towing. True-2 batteries are warranted as free exchange from the date of purchase for 18 months, regardless of mileage, and on a prorated basis thereafter for up to 60 months. Free exchange excludes labor for installation and towing. Proration is for the battery only (based on MSRP) and excludes applicable taxes, labor for installation and towing. Hybrid System High Voltage Battery Limited Warranty Hybrid system high-voltage (HV) batteries installed by an authorized Toyota Dealer (excluding commercial, fleet or livery vehicles) are warranted for 36 months, regardless of mileage, from the date the part(s) was installed on the vehicle or the remainder of the New Vehicle Limited Warranty, whichever provides greater coverage. HV batteries not installed by an authorized Toyota Dealer, and/or installed on commercial, fleet or livery vehicles, will be covered under the 12-month Toyota Service Parts Limited Warranty. Tires Limited Warranty Tires are warranted independently by the tire manufacturer. See manufacturers statement for details. What is Not Covered This Limited Warranty does not apply where the vehicle mileage cannot be determined or has been altered. Damage to a Toyota part or accessory caused by a non- genuine or unauthorized part or component is not covered. Labor for removal from vehicle and reinstallation of a part or accessory sold over-the-counter is not covered. Labor, parts, and other costs (such as all lubricants) connected with recommended maintenance service are not covered. Service adjustments, such as calibration or alignments are not covered. Failures or damages resulting from improper installation, removal, repair, misuse, negligence, accidents, or modification of the part or the accessory are not covered. Incidental or consequential damages resulting from breach of this written warranty or any implied warranty (such as telephone calls, loss of time, lost opportunities, inconvenience, or commercial loss) are not covered. Any implied warranties, including those of merchantability or fitness for a particular purpose, are limited to the applicable duration of this written warranty. Some states do not allow limitation on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This is the only warranty authorized by Toyota. The performance of repairs or the replacement of the part are the exclusive remedies under this warranty or any implied warranty. Toyota does not authorize any person to create for it any other obligation or liability in connection with Toyota Parts or Accessories. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Owner's Responsibilities To obtain this warranty coverage, return the part or accessory, or vehicle to which it is attached, to any authorized Toyota or Lexus Dealer (depending on the type of part and vehicle at issue). Proof of original purchase is required to qualify for this warranty. For More Information regarding this limited warranty, please contact your dealership or call Toyota toll-free at (800) 331-4331// Lexus toll-free (800) 255-3987. Requests in writing should be sent to: Brand Engagement Center P.O. Box 259001, Plano, TX 75025-9001 Choosing the right dash cam for your vehicle is an important decision. Its an investment in your safety and peace of mind, offering potential evidence in the event of an accident or other incident. Toyota, like many automakers, offers its own branded dash cams. But are they any good? This in-depth review will explore the features, performance, pros, cons, and overall value of Toyota dash cams, helping you determine if theyre the right choice for your needs. Understanding the Toyota Dash Cam EcosystemToyota doesnt offer a single Toyota Dash Cam. Instead, they typically provide a range of dash cam options, varying based on the vehicle model and trim level. These cameras are often designed to integrate seamlessly with the vehicles existing systems. Its crucial to understand which specific Toyota dash cam model youre considering, as features and performance can differ significantly.These dash cams are designed with ease of integration in mind. They often plug directly into existing vehicle ports, minimizing the need for complex wiring or professional installation. This ease of use is a major selling point for many Toyota owners.Integration with Toyota Safety SenseOne key advantage of some Toyota dash cams is their potential integration with the Toyota Safety Sense (TSS) suite of safety features. Some models can utilize the same sensors and cameras used for features like lane departure alert and pre-collision systems, potentially offering a more comprehensive view of the road and surroundings. This integration is a significant differentiating factor, making Toyota dash cams appealing to those already invested in the TSS ecosystem.However, its essential to verify the extent of this integration for the specific model youre considering. Not all Toyota dash cams offer full integration with TSS features, and the level of integration can vary.OEM vs. Aftermarket OptionsWhen evaluating Toyota dash cams, its important to consider the alternative: aftermarket dash cams. Aftermarket options are often more readily available, offer a wider range of features, and may be more affordable. Weighing the benefits of OEM (Original Equipment Manufacturer) integration against the flexibility and cost-effectiveness of aftermarket solutions is a crucial step in the decision-making process.Aftermarket dash cams often boast superior image quality, more advanced features, and broader compatibility. However, they may require professional installation and might not integrate as seamlessly with your Toyotas existing systems.Evaluating Key Features and PerformanceTo determine if a Toyota dash cam is good, we need to assess its key features and performance metrics. These include video quality, recording capabilities, storage capacity, ease of use, and reliability.Video Quality and ResolutionVideo quality is paramount in a dash cam. A clear, detailed image is essential for capturing crucial details like license plates and street signs. Most Toyota dash cams offer Full HD (1080p) resolution, which is generally sufficient for everyday use. However, some aftermarket cameras offer higher resolutions like 2K or 4K, providing even greater clarity.Evaluate sample footage from the specific Toyota dash cam model youre considering. Pay attention to image sharpness, color accuracy, and performance in various lighting conditions, including bright sunlight and low light.Recording Modes and CapabilitiesDash cams typically offer various recording modes, including continuous loop recording, event recording, and parking mode.Continuous loop recording automatically overwrites older footage when the storage card is full, ensuring you always have the most recent recordings.Event recording is triggered by an impact or sudden braking, saving the footage before, during, and after the event. This is critical for capturing evidence in the event of an accident.Parking mode records when the vehicle is parked and unattended, potentially capturing incidents like hit-and-runs or vandalism. Parking mode often requires a hardwiring kit to provide continuous power to the dash cam.Check if the Toyota dash cam offers all the recording modes you need. Also, inquire about the sensitivity of the event recording trigger and the reliability of parking mode.Storage and Memory Card CompatibilityThe storage capacity of a dash cam determines how much footage it can store before overwriting. Most Toyota dash cams use microSD cards for storage. Check the maximum supported storage capacity for the specific model youre considering. A larger storage capacity allows you to record more footage before its overwritten, which can be beneficial for longer drives.Also, ensure the dash cam is compatible with high-endurance microSD cards designed for continuous recording. These cards are more durable and reliable than standard microSD cards.Ease of Use and InstallationEase of use is an important factor, especially for those who are not tech-savvy. A user-friendly interface, intuitive controls, and straightforward installation process are highly desirable. Toyota dash cams generally excel in this area, thanks to their seamless integration with the vehicle.However, some users may prefer the greater customization options offered by aftermarket dash cams, even if they require a slightly more complex setup.Reliability and Build QualityReliability is crucial for any dash cam. A dash cam that malfunctions or fails to record critical footage is essentially useless. Toyota is generally known for its reliable vehicles, and their dash cams tend to reflect this reputation. However, its always a good idea to research user reviews and look for any reported issues or common problems.Build quality is also important, especially considering the harsh environment inside a vehicle. A dash cam should be able to withstand high temperatures, vibrations, and other environmental factors.Pros and Cons of Toyota Dash CamsHeres a summary of the pros and cons of choosing a Toyota dash cam:Pros:Seamless integration with Toyota vehicles.Potential integration with Toyota Safety Sense features.Easy installation.User-friendly interface.Generally reliable.Cons:Potentially higher cost compared to aftermarket options.Limited features compared to some aftermarket dash cams.May not offer the highest video quality.Limited customization options.Availability may be restricted to specific vehicle models and trims.Comparing Toyota Dash Cams to Aftermarket AlternativesThe best way to determine if a Toyota dash cam is the right choice for you is to compare it to aftermarket alternatives. Aftermarket dash cams offer a wide range of features, price points, and performance levels.Consider these factors when comparing Toyota dash cams to aftermarket options:Video Quality: Compare the resolution, frame rate, and image sensor of the Toyota dash cam to those of aftermarket options.Features: Evaluate the features offered by each option, such as GPS tracking, Wi-Fi connectivity, mobile app support, and advanced driver-assistance systems (ADAS).Price: Compare the price of the Toyota dash cam to those of comparable aftermarket options.Installation: Consider the ease of installation for each option. Toyota dash cams typically offer easier installation, but some aftermarket options are also relatively straightforward to install.Reliability: Research user reviews and look for any reported issues with either the Toyota dash cam or the aftermarket options youre considering.Warranty: Check the warranty offered by Toyota and by the manufacturers of aftermarket dash cams.Here are some popular aftermarket dash cam brands to consider:GarminBlackVueThinkwareVantrueNextbaseMaking the Right Choice for Your NeedsUltimately, the decision of whether to purchase a Toyota dash cam depends on your individual needs and preferences. If you prioritize seamless integration with your Toyota vehicle, ease of use, and a reliable brand, a Toyota dash cam may be a good choice.However, if youre looking for the highest video quality, the most advanced features, or the best value for your money, you may be better off considering aftermarket options. Thoroughly research the available options and compare their features, performance, and price before making a final decision.Remember to check if the dashcam will be compatible with your cars year and model.Consider what you want from a dashcam. Do you need parking mode? GPS tracking? Excellent night vision? These requirements will drastically affect your choice.Before buying, read reviews from verified purchasers to get a better understanding of the dashcams pros and cons from the perspective of real-world users. Their experiences can offer valuable insights into the dashcams performance, reliability, and user-friendliness.By carefully considering these factors, you can choose the dash cam that best meets your needs and provides you with the peace of mind you deserve. A dashcam is meant to protect you, so the right choice will be an investment in your safety.What are the main advantages of using a Toyota Dash Cam compared to aftermarket options?Toyota Dash Cams offer seamless integration with your vehicles electrical system and computer. This eliminates the need for messy wiring and potential compatibility issues that can arise with aftermarket dash cams. Additionally, Toyota dash cams are designed to meet Toyotas rigorous safety standards, ensuring they wont interfere with other vehicle systems or compromise safety features.Beyond integration and safety, Toyota dash cams often come with a warranty thats backed by Toyota, providing peace of mind. They are often designed to aesthetically match the vehicles interior, offering a more cohesive and factory-installed look compared to many aftermarket options. This can be a significant advantage for drivers who prioritize both functionality and vehicle aesthetics.What recording quality can I expect from a Toyota Dash Cam?The recording quality of a Toyota Dash Cam generally ranges from 1080p Full HD to sometimes 1440p Quad HD depending on the specific model and year. This provides clear and detailed video footage suitable for capturing important details such as license plates and road signs. Image sensors and lens quality play a large role, so research specifications of your particular model.Higher-end Toyota Dash Cams may incorporate wide dynamic range (WDR) technology to improve video quality in challenging lighting conditions. This is particularly useful in bright sunlight or at night when headlights can cause glare. Remember to check the specifications of your specific model to confirm its video resolution and features.Does a Toyota Dash Cam offer parking mode, and how does it function?Yes, many Toyota Dash Cams do offer parking mode, which allows the camera to continue recording even when the vehicle is parked and the ignition is off. This can be useful for capturing incidents such as hit-and-runs or vandalism. Parking mode typically operates by detecting motion or impact and automatically activating recording.The functionality of parking mode can vary between different Toyota Dash Cam models. Some may require professional installation to properly connect to the vehicles battery, ensuring continuous power supply while the vehicle is parked. Power consumption is also something to consider, as continuous recording in parking mode can drain the vehicles battery over time.How easy is it to install a Toyota Dash Cam?The ease of installation for a Toyota Dash Cam varies depending on the model and your comfort level with vehicle electronics. Some models are designed for relatively simple plug-and-play installation, often connecting to the vehicles power outlet or existing wiring harnesses. This makes it a user-friendly option for many drivers.Other Toyota Dash Cam models, especially those with advanced features like parking mode that require continuous power, may necessitate professional installation. Improper installation can potentially damage the vehicles electrical system or void the warranty, so its crucial to follow the manufacturers instructions carefully or seek professional help if needed.What type of storage media does a Toyota Dash Cam use, and what is the maximum storage capacity?Toyota Dash Cams typically utilize microSD cards as their storage media. This allows for easy transfer of video footage to a computer or other devices for review. The specific type of microSD card supported, such as SDHC or SDXC, and the maximum storage capacity can vary depending on the dash cam model.The maximum supported storage capacity is crucial to consider, as it determines the amount of video footage the dash cam can record before overwriting older files. It is recommended to consult the dash cams specifications or user manual to determine the appropriate type and maximum capacity of the microSD card to ensure proper functionality and avoid compatibility issues.What are some common issues reported by users of Toyota Dash Cams?Some users have reported issues related to the sensitivity of the G-sensor in Toyota Dash Cams. In certain cases, the G-sensor may be overly sensitive, triggering event recording even with minor bumps or vibrations. This can result in a large number of unnecessary files being saved, filling up the storage card quickly and making it difficult to find relevant footage.Another issue reported by some users is related to the dash cams performance in extreme temperatures. Some models may experience overheating or malfunction in very hot environments, leading to video quality degradation or complete failure. Its advisable to research user reviews and specifications to understand the dash cams performance in various weather conditions.How does the Toyota Dash Cam integrate with other Toyota vehicle features, like Toyota Safety Sense?Toyota Dash Cams are designed to integrate seamlessly with Toyotas vehicle systems but do not directly interact with Toyota Safety Sense (TSS). The dash cam operates independently as a recording device, capturing events as they happen. It does not receive data from TSS sensors or contribute to the functionality of those safety features.While the dash cam doesnt actively integrate with TSS, its recordings can be invaluable in situations where TSS is activated or when assessing events leading up to a potential collision. The video footage can provide crucial context and evidence for insurance claims or legal proceedings, complementing the information provided by TSS. Yes, some Toyota models come equipped with a built-in dash cam feature. Toyota's dash cam, known as the "Integrated Backup Camera with Panoramic View Monitor," is available as an optional feature on select Toyota vehicles.What is a Dash Cam?A dash cam, or dashboard camera, is a small video recording device that is mounted on the dashboard or windshield of a vehicle. Dash cams continuously record the view in front of the vehicle, providing a video record of any incidents or accidents that may occur while driving.Toyota's Dash Cam FeatureToyota's Integrated Backup Camera with Panoramic View Monitor is a multi-functional camera system that includes a dash cam feature. This system uses multiple cameras around the vehicle to provide a 360-degree view, as well as a forward-facing dash cam. The dash cam feature continuously records the view in front of the vehicle, allowing drivers to have a video record in case of an incident.The dash cam feature is available as an optional add-on on select Toyota models, such as the Camry, Corolla, RAV4, and Highlander. It is typically part of a larger technology package that includes other advanced safety and convenience features.Benefits of a Toyota Dash Cam Accident Documentation: The dash cam can provide valuable video evidence in the event of an accident or incident, helping to determine fault and protect the driver. Improved Safety: The 360-degree camera system can enhance the driver's awareness and visibility, improving overall safety on the road. Convenience: The dash cam feature can be useful for recording memorable drives or capturing unexpected events while on the road.Overall, the availability of a built-in dash cam feature on select Toyota models can be a valuable addition for drivers who want an extra layer of protection and documentation while on the road. Where is the dash cam located?windshieldThe windshield is the most commonly chosen spot for mounting a dash cam. It's important to ensure the camera's view remains unobstructed by the sunshade and within the windshield wipers' range. For optimal placement, aim for a broad field of view rather than an elongated one.If you spot a small camera lens or housing on the windshield, it's likely that your car is equipped with a DVR dash cam. Additionally, some vehicles may have visible cables or wires on the windshield, which are typically connected to the 360 car dash cam for power supply and data transmission.Once you connect the Dashcam to the Toyota Dashcam App on your phone via wifi (follow instructions above and supplied), the videos will show on the App and you can download them to your phone or protect them to avoid them being overwritten with new videos once the SD Card is full.For a complete hard-wired style installation, the typical cost would be $100-$150 depending on complexity and whether hardwiring is needed for constant power supply or parking mode. Why should you avoid cheap dash cams?Do Cars Have Built-in Dashcams?Tesla Every new Tesla model provides a dashcam function.Mercedes-Benz Certain new Mercedes-Benz models offer a dashcam system, providing front and behind views.BMW To gain the dashcam system available in some new BMW models, the car or SUV must have the surround-view function.Toyota Genuine Dash Camera - Toyota's Genuine AccessoriesIt has special video event recording modes to capture and protect important videos, and footage can be reviewed and saved to your smartphone or computer with the free app or accompanying software.Check the car interiorListening devices can be installed on the interior of your car, particularly the data port that is located beneath the driver's side dashboard. Check this area if there is a small black box that is plugged into the data port. If you do locate one, you can easily unplug it to disable tracking.Yes, it is permissible for law enforcement to access your vehicle's dash cam recordings if they have a valid reason to do so. This may include investigating a crime, responding to an accident, or conducting an internal investigation.Disadvantages of dash camsThey can be considered one-sided. Although dash cams can be very beneficial for providing evidence in the event of an incident they may not be able to tell you the whole story of what happened. For example, if a cat or other hazard wasn't picked up in the footage due to the camera angle.And do okay then do okay on that. And if it just stays a long time on this connecting just do it cancel. And continue select wi-fi now that's connected. Go back and go back to the app. For many recent Toyota vehicles (see list below), Toyota offers the option for a factory-installed dashcam. (Note: these instructions do not apply to the 2019-2022 4Runner, which uses a completely different camera model and connection.) Toyota also offers this camera as a dealer-installed option if you didn't purchase it initially.However, Toyota's dashcam can only record 1080p video and only records the view out the front windshield. In contrast, cameras are readily available on the market that record up to 4K resolution and/or can record inside the vehicle or out the rear window.While most dashcams can be installed with a hardwiring kit, this usually involves running the wire down the A-pillar which can interfere with the side curtain airbags, and also requires "add-a-fuse" kits (more than one if your dashcam has "parking mode") or splicing into wires under the dash.In this Instructable, you will learn how to easily use the vehicle's built-in dashcam connector to plug in your dashcam without going near the airbags or needing to contort yourself into the footwell to run wires under the dashboard.UPDATED 2023-06-19 - The following vehicles are listed on Toyota's website as being compatible. See step 2 to confirm that your vehicle has the connector.2022-2023 Camry2022-2023 Highlander2023 Prius2023 RAV42023 RAV4 Prime2023 Sequoia Hybrid2021-2023 Sienna Hybrid2022-2023 Tacoma2022-2023 Tundra2021-2023 VenzaThere are only a few parts you will need for this project:A dashcam. It can be any model, but I'm using a Thinkware U1000 4K front with 2K rear camera.A hard-wire cable. Many dashcams (like mine) include such a cable, but some might not. Specifically, you need a cable that has one end that plugs into your dashcam and the other end that has bare wires. (This should be three wires if your camera has parking mode; two wires if it doesn't.)The Toyota dashcam connector. I used Subaru part H501SSG010, which has the same connector that Toyota uses for the dashcam connector. Toyota's part number for this connector is 90980-12366, but that doesn't include the pins and wires that go into the connector (because this same shaped plug can be used in multiple locations with different wire colors and numbers). Instead of having to buy the connector, pins, and wires, and then assemble the connector ourselves, we can take a shortcut and use the Subaru part listed above.Some type of cable connection. I used butt splice connectors, like these, but there are other types of connections that will also work. (See Step 3 for more details.)ToolsYou will definitely need:Wire connection tool. Whatever tool is necessary for the type of wire connection you plan to use (see Step 3). Possible examples include: a mechanical crimping tool, a soldering iron, or a heat gun.It can also be helpful to have:Plastic trim removal tools. Many trim parts can be removed by hand if you can carefully slide your fingers behind them and pull, but some are more tight-fitting and will need these tools. Even for the ones that are doable by hand, these tools will make it easier and make it less likely that you will break the retaining clips. I have this set.For installing the rear camera (if you have one), you will probably need:Before you go through all the trouble of hardwiring, make sure that your dashcam is functional. This accomplishes several purposes:If any part of the hardware is defective, you will know before you go through all the trouble.If the dashcam doesn't work after the install is complete, you know that you accidentally messed up the installation.You can make sure you are happy with the features and performance of the camera(s).Most dashcams come with a power adapter that plugs into your vehicle's 12v accessory plug (a.k.a. lighter plug). Plug in your dashcam with the provided plug and make sure it works to your satisfaction.Before you try to follow these steps, you should make sure your vehicle has the dashcam connector inside the ceiling.(If you already have the Toyota Integrated Dashcam and want to replace it with a better one, you can skip this step because you definitely have the connector.)You can go to Toyota's Get a Toyota Dashcam website and look for your vehicle model and year. If it shows that you can get the "Toyota Integrated Dashcam", then these steps should work for you. If it shows you can get the older "Toyota Dashcam" or does not show your model at all, then these instructions will probably NOT work for you.If you want to be completely sure that your vehicle is compatible, remove the overhead console to verify that you can reach the connector - on my Sienna, it is the blue connector at the front right of the opening (see image). If you have already ordered the H501SSG010 connector, you can test-fit it at this point to make sure you got the correct part. See Step 4 for console removal instructions, and Step 10 for reinstallation instructions.Before you cut any wires, make sure you are leaving a little extra so that you can cut the wire again and still have enough to redo the connection if you've made a mistake in the process. A little foresight now can save you from having to buy another set of cables if you haven't left enough to work with.Cut the 12-pin connector off the H501SSG010, as it is not used for this project. If you have some other project that you might want it for, or you keep odd connectors around "just in case", you may want to cut the cable in half so both connectors have some wire left. Otherwise, cutting near the 12-pin end means you'll have extra length on the 5-pin end in case you make a mistake and need to start again.If your camera's hardwire cable is extremely long (as mine is), you will need to decide whether to leave the full length coiled up inside the ceiling or to cut it shorter. If you do choose to cut it shorter, make sure to leave at least 2-3 feet so you have room to maneuver the parts while installing the camera and you can ensure optimal placement of the camera on your windshield. Space above the headliner is limited, so I highly recommend shortening the cable.While most hard-wire kits come with fuse holders or add-a-fuse adapters, you do not need to install these dedicated fuses for the dashcam because these wires are already protected by fuses in the fuse block. (On my Sienna, these fuses are 10A ECU-B NO. 2 for the always-on wire and 10A ECU-IGR No. 3 for the ignition-switched wire. Other models may use different fuses.)Prepping the 5-pin cableFrom the 5-pin connector, you will need pins 1 (battery +), 2 (ignition =), and 4 (ground). You can cut the wires for pins 3 and 5 to keep them out of the way, or just put tape over the ends for safety. With the 5-pin connector facing you, wires facing away, and the release lever pointing up, pin #1 is on the left (see first image).I don't know if they are all identical, but the H501SSG010 cable that I got also had another convenient way to identify the wires. Coming off the plug, the wires are bundled into a group of three and a group of two. In each group, one of the wires has a colored stripe, while the other wires are completely black:Group 1, Wire 1 - Edge black-only wire - always-onGroup 1, Wire 2 - Middle black-only wire - ignition-switchedGroup 1, Wire 3 - Black with white stripe - unusedGroup 2, Wire 1 - Black-only - groundGroup 2, Wire 2 - Black with red stripe - unusedPrepping the dashcam cableIf your dashcam has parking mode, the hardwire kit will probably have three wires. If your dashcam does not have parking mode, you will only have two wires, so you will not use the always-on (pin 1) wire. (Note: some dashcams might try to implement parking mode with only two wires by monitoring the incoming voltage - ~12v on battery and ~14v when the engine is running. If you have one of these, you will not use the ignition-switched (pin 2) wire.)You will need to identify which wire is which. Typically the wires will be labeled or have some other way of differentiating them. Check the installation instructions that came with your camera for details (see second image):Typically the ground wire will have a spade terminal or ring terminal crimped onto it. By convention, ground wires are often black.On my cable, the always-on wire is yellow, and has a band around it that says "battery"On my cable, the ignition-switched wired is red, and has a band around it that says "ACC" (short for "accessory")Connecting the cablesOnce you have identified the correct wires to use on both cables, you will need to join them together. There are a number of possible ways to make this joint.The most secure but hardest to get right is soldering the wires together and covering the joints with heat-shrink tubing. If you do this incorrectly, it is extremely likely to break later, so only do this if you are experienced at soldering.Another option is a heat-shrink based solder connection. One name brand for these connectors is SolderSeal, but there are many companies that make them now. To use these connectors, you position the wires inside and then apply heat with a heat gun. The heat shrink closes around the wires, then the solder inside melts to fill the space.The least expensive way to do it is a mechanical crimp. There are a wide variety of crimp connectors on the market, and not all of them are reliable, so choose carefully. The best mechanical crimp for automotive work is a simple butt splice connector, like these. It is very important to use the correct tool to crimp these. Do not just squeeze the splice with a pair of pliers because it will not close tightly enough and will loosen over time.For my installation, I used butt splices because I already had a box of them that I've used for other projects in the past (see images). After doing each crimp, I tugged on the wires on both sides to make sure they were secure.After the crimp was done, I used electrical tape to hold the cable in a loop so that the splices would not have any strain on them. This is optional, but if you left enough slack it can't hurt to do it.Use a trim removal tool or your fingers to pull down on the front edge of the overhead console. This will pop out the two fasteners that hold the front of the panel in place. After the fasteners have been disengaged, pull forward and down to disengage the hooks at the rear of the panel, being careful not to pull too hard so you do not break the cable. (Note: These fasteners can break sometimes, but you can buy replacements at most auto parts stores.)It should be safe to leave the overhead console hanging by its cable, as long as you do not pull on it (which could cause the cable to break). If you would like to have the console out of the way, you can carefully disconnect this connector and set the overhead console aside.Once the panel is removed, find the 5-pin connector above the ceiling next to where the console was. Note that some models have the connector on the left and others have it on the right, so make sure you check both sides. The connector is clipped to the headliner to prevent it from rattling against the roof.Before finishing the installation (i.e. before spending time running wires through the headliner), make sure your newly made cable works properly. Plug the 5-pin end of the cable into the vehicle connector and the other end of the cable into your dashcam. Follow your dashcam's manual to set up parking mode, then verify that both parking mode and driving mode are working by watching for lights/sounds from the dashcam and/or reviewing the recordings from the test. Make sure you test with the ignition both on and off.Once you have verified that the cable is working, tuck the splices up into the headliner, followed by the rest of the cable. Make sure nothing else above the headliner is pulling on the splices.Push the plug end of the power wire down from the center console area to the windshield. Your headliner may already have a small cutout in the proper place for this wire (designed for the official Toyota Integrated Dashcam to use it). If you don't already have a hole in the headliner, the easiest way to install the wire is to exit the headliner above the plastic cover around the Toyota Safety Sense (TSS) camera, alongside the wires for the TSS camera and rearview mirror dimming/homelink (if equipped). From there you can run the wire to the side of the cover to where you are mounting your camera.(If you'd like, you can remove the TSS camera cover for extra space while running the wires, but it's not strictly necessary. To remove the cover, push it towards the front of the vehicle until it disengages from its retaining clips. The cover then splits into two parts so it can be removed from around the mirror stem.)(If you are not installing a rear camera, you can skip this step.)WARNING: This is the hardest step of the entire process.Determine the route the cable will take from the front to the rear of the vehicle. Different types of vehicles will require different cable routing.One of the most common ways to route the cable is along the left edge of the roof, just above the doors.Remove the trimStart by pulling the rubber weather seal down from around the top of the driver's door frame and the left rear door frame (image 1). (It's usually held in place only by friction, so a gentle pull is all that's needed. However, note that rubber has some natural stickiness, so you may need to pull with a bit more force to get the first bit started.) Do not remove it completely, because keeping the bottom half in place will ensure it is properly lined up when it is time to replace it.For the driver's door, the easiest spot to start from is the top rear corner of the door (top right as you face the vehicle, next to the "B" pillar).For sedan back doors and minivan sliding doors, the easiest spot to start from is the top front corner (top left as you face the vehicle, next to the "B" pillar).For SUV back doors, the easiest spot is also the top rear corner of the door (next to the "C" pillar).CAUTION: The metal edges of the roof can be very sharp, so be careful not to cut your fingers. (I learned this the hard way).If you are installing the the Sienna or one of the SUV models, you will want to open the liftgate and remove the trim at the back of the ceiling (image 2). Depending on your model, you may also have to remove the center brake light (image 3). For both of these, you can use a trim removal tool to gently pop the retaining clips out of their sockets. Make sure you do this gently so you do not break the wires inside. While the ceiling trim can probably be popped loose with your fingers because the headliner is soft, the brake light does not have anywhere to put your fingers because it is mounted on hard plastic trim.If your model has a light mounted on the trim, carefully disconnect the cable so the trim is not hanging from it.On the Sienna (and possibly some SUV models), the rear center seatbelt passes through a hole in the trim. You do not need to remove the seatbelt, just let the trim fall over it (image 4).Fish the wire - center to driver's doorWARNING: All modern vehicles are equipped with side curtain airbags that cover the windows in the event of a side collision. Make sure your wire is running above the airbag guides so that it does not interfere with airbag deployment. (see notes on image 5.)The simplest way to get the wire from the center console to the driver's door frame is using a flexible nylon fish tape. Push the fish tape into the gap above the side curtain airbag housing (image 5), aiming the end toward the center console. Different models have different ceiling configurations, but on the Sienna you want to be running through the area above where the sun visor is stowed. There are bundles of other cables that run through this area, so there is a small tunnel between the headliner and the roof to allow these wires through. If you feel the fish tape snag on anything, try wiggling it to see if it can push past, or pull it out and try a slightly different path.It is unlikely that you will be able to get the fish tape to come all the way to center just by pushing from the outside. If you listen carefully as you wiggle the fish tape, you should be able to hear it scraping against the headliner. When it sounds like it's pretty close to the center, you can carefully reach your fingers into the space between the headliner and roof to try to find the end and pull it through (images 6-7).If you are having trouble and you want to try to see where the fish tape is, you can experiment with using the selfie camera of your phone. Stick the top of your phone into the hole where the center console goes, and you should be able to see what is up there. (I've tested this with a few

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