Drivecam Manual

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Book Descriptions:

Drivecam Manual

Installation and Testing Instructions. Installation of the event recorder is not complicated, but care must be taken to avoid specific problems. Some vehicles require additional consideration to determine the optimum position for your particularFollow the instructions carefully and reviewCAUTION Do not cut the DriveCam power cord. It has an inline fuse near the end.These will help youThe event recorder needs to be mounted in a location that provides an unobstructed view of the interiorThe rearfacing camera should capture an internal view from theThe forwardfacingSedans, Pickups, and LightDuty Trucks. Smaller vehicles such as these typically have a traditional rear view mirror. The event recorder should beKeep in mind that the mirror typically pivots on two points,Installing and Testing the DriveCam Event RecorderLarger vehicles often have nonstandard windshields and mirrors. In these cases, the event recorder isA common mistake is to mount units tooNOTE This equipment has been tested and found to comply with the limits for a Class B digital device,These limits are designed to provide reasonable protection againstThis equipment generates, uses, and can radiate radioHowever, there is no guarantee that interference will not occur in aIf this equipment does cause harmful interference to radio or television reception,Reorient or locate the receiving antenna. Increase the separation between the equipment and receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver isNOTE The following installation procedures apply directly to most sedans, pickups, andInstalling and Testing the DriveCam Event RecorderUsing the vehicle's defroster can alsoStep 1 Park the vehicle on a flat, level surface. Step 2 Temporarily place the Event Recorder inside the mounting bracket. Step 3 Using the alcohol wipe provided, THOROUGHLY CLEAN AND DRY the areaCAUTION This step is critical to prevent the unit from falling off at a later date.http://nw-line.ru/generic/uploaded/craftsman-21400-manual.xml

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Step 4 Temporarily position the assembly bracket and unit behind the rearview mirror. CAUTION Do not peel the backing from the adhesive strip until instructed to do so. Important Things to Consider. Make sure the unit does not interfere with the driver's primary field of vision. Make sure the lens has a clear view of the interior and exterior of the vehicle. Be aware ofMake sure the driver has a clear view of the status lights on the unit. Position the unit so the lens is as close to the centerline of the vehicle while still leaving roomIf you are performing multiple installations, test the first one before installing the others. ThisLook for potential obstructions to the forward and rearfacing cameras. Once you are certain thatInstalling and Testing the DriveCam Event RecorderStep 6 Remove the unit from the mounting bracket. Step 7 Make sure the guide marks on the glass are level before proceeding. Step 8 Check the fit of the mounting bracket against the windshield. If the windshield is curved, you may have to gently shape bend the bracket so it will lie flushCAUTION The adhesive is very sticky. Once it is on, it will not easily come off. Step 9 Remove the backing from the adhesive side of the mounting bracket. CAUTION Verify the orientation of the mounting bracket. The bracket has a plastic diskInstalling and Testing the DriveCam Event RecorderStep 11 When you are sure that the mounting bracket is positioned correctly, press it firmlyCAUTION Do not apply

excessive pressure as the windshield may break. Step 12 Check from outside the vehicle to make sure there are no large air bubbles under theIf necessary, use a screwdriver handle to carefully apply additional pressure to the mountingUse a small pin to create an escape path for the air ifInstalling and Testing the DriveCam Event RecorderYou will need toA few suggestions are listed below. The event recorder MUST be connected toDo not cut the power cord. It has an inline fuse near the end.http://www.ises.ca/phpsites/vertical_living/uploads/craftsman-21154-manual.xml

Step 1 Leaving enough length to connect to the camera, route the DriveCam power cable acrossStep 2 Connect the DriveCam power cord to a continuous 12 volt or 24 volt power source. Wire Splice Option. The wire splice clips provided allow you to easily tap into existing wiring. Use a voltmeter orRoute the wiring through the clips,Fuse Tap Option. Connect the unit's red lead to the positive continuous power source and the black lead toCustom Wiring Options. Connect power and ground via methods that best fit your requirements. Customers occasionallyPower connections in motor coaches are usuallyIf your vehicle has interior lights near the rearview mirror or visors, you can connect to that powerStep 3 Coil any excess cord and secure it with plastic ties or tape in a safe location under theInstalling and Testing the DriveCam Event RecorderStep 2 Place the unit in the mounting bracket so that it hangs vertically. Step 3 Fasten the unit using the two Torx screws and the Torx wrench provided. Step 4 Check that the unit has continuous power by making sure the top LED status light on theIf not, recheck the wiring connections, polarity, and fuses to make sure continuous power is beingInstalling and Testing the DriveCam Event RecorderThis requires access to HindSight software. Refer to the. Step 1 Press one of the buttons on the bottom of the unit to record a test event. The upper status light on the event recorder will begin to flash green slowly as the event isThe status light on the event recorder will begin to flash red rapidly as the event is beingWhen complete, the light will return to solid green. Step 3 Review the test event in HindSight software, looking for the following. Verify that the forwardfacing camera captures an unobstructed view out the front windshield.

Can you see far into the distance including enough height to see traffic signals Can you see the area immediately in front of the vehicle Are the side views even Verify that the rearfacing camera captures an unobstructed view of the interior of the vehicle. Can you see from the outside shoulder of the driver to the outside shoulder of a person inCan you see into the rear of the vehicle if applicable Are there any objects that might block the view of the camera e.g. the rearview mirrorVerify that you can hear audio in the recording. Installation and testing is complete for this vehicle. If you are performing multiple installations,Installing and Testing the DriveCam Event RecorderYou'll need the TorxRemoval Tool or a thin putty knife to remove the bracket from the windshield. These items can beCAUTION Do not try to pull or pry the bracket off the windshield. It will destroy theTo remove the event recorder. Step 1 Remove the left Torx screw completely. Step 2 Gently pull down on the left side of the unit try not to trigger the unit to access the powerStep 3 Unplug the power cable only when a solid red or solid green light is showingNOTE A warning file or log entry will be created when the unit is unplugged. This is a standard security feature. Step 4 Remove the right Torx screw and the unit. To remove the mounting bracket from the windshield. Step 5 Use the 3M Tape Removal Tool or a broad, very thin putty knife. Step 6 Apply a small amount of lubricant e.g. WD40 to both sides of the blade. Step 7 Slide the blade between the bracket and the window and gently rock the blade back andInstalling and Testing the DriveCam Event RecorderThese limits are designed to provide reasonable protectionThis equipment generates, uses, and can radiateHowever, there is no guarantee that interference will notIf this equipment does cause harmful interference to radio or televisionReorient or relocate receiving antenna.

http://stroyzona.com.ua/companynews/e1061-hmi-manual

Connect the equipment into an outlet on a circuit different from that to which the receiver isThis device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions.

This device may not cause harmful interference. This device must accept any interference received including interference that may causeCAUTION Changes or modifications not expressly approved by the party responsible for complianceThe FCC with its action in ET Docket 968 has adopted a safety standard for human exposure to radioThis device meets theFCC's recommended limits.Installing and Testing the DriveCam Event RecorderIt is recommended that the antennaNOTE The radiated output power of this wireless device is far below the FCC radio frequency exposureCanada. This Class B digital apparatus complies with Canadian ICES003. Cet appareil numerique de la classe B est conforme a la norme NMB003 du CanadaEnglish. Hereby, DriveCam, Inc., declares that this DriveCamIII is in compliance with the. Finnish. DriveCam, Inc. vakuuttaa taten etta DriveCamIII tyyppinen laite on direktiivinDutch. Hierbij verklaart DriveCam, Inc.Bij deze verklaart DriveCam, Inc.French. Par la presente DriveCam, Inc.Installing and Testing the DriveCam Event RecorderSwedish. Harmed intygar DriveCam, Inc.Danish. Undertegnede DriveCam, Inc.German. Ubereinstimmung mit den grundlegenden Anforderungen und den anderen. Hiermit erklart DriveCam, Inc.GreekCon la presente DriveCam, Inc.Spanish. Por medio de la presente DriveCam, Inc.Portuguese DriveCam, Inc.Installing and Testing the DriveCam Event RecorderPDF Version 1.4. Linearized No. XMP Toolkit 3.1701. Producer Acrobat Distiller 7.0.5 Windows. Create Date 20061130 1104240800. Creator Tool PScript5.dll Version 5.2. Modify Date 20061130 1104240800. Title Microsoft Word Installation Instructions.doc. Creator rcandelas. Document ID uuide46dff7366db4ed7866384aa7ff3aa2d. Instance ID uuidb3b19d645c1b47de9a11722fe720df17. Page Count 12. Author rcandelas.

DriveCam Installation. DriveCam 5Port HUB Installation with Universal ModuleAdditional items you may need not providedVoltmeter. Flat blade screwdriver or panel removal tool. Hardware ordered separately. GPS KitRemote Trigger KitUniversal Module UM05 KitAlternate Mounting BracketsDriveCam Standard Installation Guide DRC 303. DriveCam 5Port HUB Installation Guide DRC 304. DriveCam Fuel Efficiency Display FED Installation Guide DRC 307Safety Information. Read and follow the instructions and precautions in this book when installing components. Refer to the vehicle service manual for proper installation and wiring of aftermarket devices. This equipment is suitable for use in Class I, Division 2, Groups A, B, C and D or nonhazardous locations only. Regulatory Information. Some jurisdictions have adopted, or may in the future adopt, laws that prohibit objects from being mounted on a vehicle's windshield. For example, California, Minnesota, New Jersey and Florida currentlyYou are responsible for complying with any such laws, and DriveCam does not accept responsibility for yourUSA Federal Communications Commission FCC Notice. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions 1 This device may not cause harmful interference, and 2 this device must accept anyCaution Changes or modifications to this product not expressly approved by Lytx, Inc.Note This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protectionThis equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, mayHowever, there is no guarantee that interference will not occur in a particular installation.

The FCC with its action in ET Docket 968 has adopted a safety standard for human exposure to radio frequency RF electromagnetic energy emitted by FCC certified equipment. This device meets theTo comply with the FCC and ANSI C95.1 RF exposure limits, this device has been evaluated for compliance with FCC RF Exposure limits in the typical configuration. It is recommended that the antennaDuring operation, the transmitter shall be separated at least 20cm 8 inches from any human contact. Note The radiated output power of this wireless device is far below the FCC radio frequency exposure limits. Nevertheless, this device should be used in such a manner that the potential for humanThis device complies with Industry Canada RSS210 regulations. Operation is subject to the

following two conditions 1 This device may not cause harmful interference, and 2 this device must acceptTo prevent radio interference to the licensed service, this device must be operated indoors only and should be kept away from windows to provide maximum shielding. Exposure of Humans to RF Fields. The installer of this radio equipment must ensure that the antenna is located or pointed such that it does not emit RF field in excess of Health Canada limits for the general population; consult Safety. Declaration of Conformity. The declaration of conformance is below. Dutch. Hierbij verklaart Lytx, Inc. Danish Undertegnede Lytx Inc. Greek. Italian. Con la presente Lytx, Inc. Spanish Por medio de la presente Lytx, Inc. Portuguese Lytx, Inc. Suppliers Declaration of Conformity. We Lytx hereby declare that the product listed below, to which this Declaration of Conformity relates,Lytx, Inc. 8911 Balboa Ave., San Diego, CA 92123 USA Declares that the following product. Product Name Video Event Recorder. Product Models DC3000256C, DC3000256CA, DC3000256CAP, DC3000256CP. The product specified above carries the marking, by complying with the essential requirementsSafety HERO certification.

CFR Title 47 FCC Part 15, Subpart B, Class B Industry Canada ICES003 Issue 4 2004, Class B. Product Models DC3000256G, DC3000256GA, DC3000256GAP, DC3000256GP. The product specified above carries the marking, by complying with the essential requirementsCFR Title 47 FCC Part 15, Subpart B, Class B. Industry Canada ICES003 Issue 4 2004, Class B. ETSI EN 301 4897 v1.3.1 200511. ETSI EN 301 4891 v1.8.1 200804The product specified above carries the marking, by complying with the essential requirementsETSI EN 301 4891 v1.8.1 200804. FCC Part 15 Subpart B. Industry Canada ICES003 Issue 4 February 2004. CISPR 22 2005 Information Technology EquipmentIndustry Canada RSS210 Issue 6 2005. ETSI EN 301 4891 v1.8.1 200804Manufacturer's Contact. Lytx, Inc. 8911 Balboa Ave. San Diego, CA 92123 USA. Phone Number 858 4304000 Fax Number 858 4304001. Lytx strives to provide the most uptodate information, however, products and their applicability may change periodically and, therefore, Lytx makes no representation as to theDriveCam 5Port HUB with Universal Module Connection Diagram. InstallationUniversal Module UM05 KitIf you're NOT installing the Universal Module, use the. GPS Antenna The GPS Cable plugs into the GPS Port on the HUB. See page 16 for installation instructions.Note The GPS Antenna is not required for event recorder models configured with internal GPS receivers page 18. Remote Trigger The Pushbutton Cable plugs into the RT Port on the HUB. See page 17 for installation instructions. Note UM05 installations typically use the UM05 Switch Cable for Remote Triggers instead page 13. See page 18 for additional informationThe following steps describe installation using the Windshield Mounting. Bracket. This is the most common installation method and applies to mostCAUTION This step is critical to prevent the bracket from falling off. A Select a location on the windshield behind the rear view mirror on theB Using the alcohol wipe provided, thoroughly clean the mounting area.

C Using a clean, dry cloth, thoroughly dry the mounting area.The VER needs to be mounted in a location that provides an unobstructed view of the interior and exterior front of theThe exteriorfacing lens should capture a clear view of everything in front of theCAUTION An improperly positioned VER can significantly reduce the effectiveness of the DriveCam Program. A Loosen the Torx screws so the VER can rotate in the bracket. B Adjust or move the mirror down to its lowest position.Mounting Options Refer to the DriveCam Mounting Guidelines DRC 340 if you're installing in a vehicle without aThe document provides additional details and diagrams about VER mounting in various vehicleCAUTION Do not peel the backing from the adhesiveA Hold the assembly in place and trace the outline of theB Remove the VER from the mounting bracket. C Check the fit of the bracket against the windshield. If the windshield is curved, you may gently bend theFinal Location Check. Before attaching the bracket in the next step, take a moment to verify that you have selected a good mounting location. Hold the assembly in place and sit in the driver's seat. Make sure the VER does not block the driver's view of the road. Rotate mirrors, sun visors, wipers, and other objects near the VER to make sure those items do not block or interfereCAUTION The adhesive is very sticky. Once the bracket is attached, it will not easily come off. A Make sure the glass is clean and dry and the air

temperature is at least 50 F 10 C. B Remove the backing from the adhesive side of the bracket. C Make sure the large plastic washer is on the left side of the bracket see image below or next page. D Start by placing the top edge of the bracket against the windshield, aligned with the marks, and make sure it’s level. E Press the bracket firmly against the windshield starting at the top and pressing the sides downward. Do not apply excessive pressure as it may cause the windshield to break.

F Check from outside the vehicle to make sure there are no large air bubbles under the bracket. You may need to carefully apply additional pressure to the bracket and remove any large air bubbles. Use a small pinAdjust the VER so that it hangs vertically plumb. Secure the VER in the bracket using the two TorxWasher Placement. The large plastic washer on the left side of the bracket is designedThe plastic washers can be easily removed from the metal bracketMake sure the larger of the two washers is on the left sideYou may need to remove the window and door trim to route the cable underneath. These typically snap on and off usingWARNING When installing the cable in a vehicle with SIDE OR CURTAIN AIRBAGS, be certain that neither the cable norA Starting just above the rear view mirror, route the cable under the trim or headliner across to the door pillar. If you will be connecting the white wire from the UM05 Switch Cable to the dome light page 11, you may want to route itSecure the Cable. Make sure the cable is secured and cannot come loose. We recommend using cable ties every few inches along the route toThe black, red and brown wires are the three required connections for the VER to function. The red wire provides primaryThe brown wire is an ignitionsense, used by the VER toThe black wire is ground.Connect the wiring to the vehicle as described below. Plug the UM05 cables into the UM05 see diagram on page 3. Test the connections in steps 9 and 10 before finalizing the connections. Connecting the RED WIRE to a 12V24V power source that is ALWAYS ON. The VER requires a power source that is not controlled by the key nor any other device or switch. This connection isUse a voltmeter to make sure theCurrent Draw If you’re tapping into an existing vehicle wire, make sure it can handle the additional current draw of the. VER.

A wire that reads 12V on a voltmeter may not necessarily be able to supply enough current to theThe gauge of wire being tapped into provides a good indication. A largerConnecting the BROWN WIRE to a 12V24V power source that is IGNITIONSWITCHED. This connection senses when the ignition is switched on. This requires a power source that is “on” only when the key is turnedIt’s very important that this is connected properly. TestConsult theExtending Wires. If wires need to be extended, extend the ground wire first. If you must extend the red or brown wires, keep them as short asFuses. The red and brown wires should be fused 3 Amp to protect the circuit. If you don’t have inline fuses available, you can cutElectrical Wiring Connectors. Due to the variety of preferred wiring methods ring terminals, splice connectors, fuse taps, pokenwrap, electrical connectorsRefer to the vehicle service manual for information about installation and wiring ofThe 5Port HUB has a silicone shell that covers the portsWe recommend using the shell with all installations. We also recommend applying dielectric grease to all cableA Remove the shell from the HUB. Refer to the connectionHUB Interconnect Cable. UM05 Ignition Sense Cable. The sleeve should fit tightly around each cable to ensure maximum protection from corrosion. The smaller opening,The silicone sleeves will stretch, but you mayC Press both sleeves down through the shell invert them insideout. D Push the HUB Interconnect Cable, UM05 Ignition Sense Cable and UM05 Interconnect Cable through the invertedSee notes below. E Pull both sleeves back up through the shell. F Plug the cables to the HUB. G Proceed to the next page to test the connections.Once the power and ground connections are made and the vehicle ignition is switched on, the status light to the right ofNote VERs are configured for hibernation mode, meaning it will automatically switch off status lights will go dark after.

Switch on the vehicle ignitionSee page 18 for more information. A Wait about 30 seconds after

connecting power red and ground black. The status light to the left of the lens will light solid green forThe status light to the right of the lens shouldOther status light behaviors that are commonly seenC These behaviors may continue for several minutes. All of themGo to step 9. Errors If the status lights did not light at all, check the wiring and fuses. If you see any other status light behaviors, contact DriveCam Technical Support at 866 9100403.Underneath the translucent cover surrounding the interiorfacing lens are six small, infrared lights. These are the VER's. Infrared IR Illuminators, providing infrared light for recording video in low light situations. These lights can only be seenTurn the key to the OFF position. The six red lights should go out. If the test worked as described, the brown wire has been connected properly. Go to the next page. If the test did not work as described, try it again in a darker area or cup your hands around the cover; the lights can beIt may have been connected to a modulated circuit page 8.UM05 Trigger Connections. DriveCam's Universal Module UM05 provides multiple input and output connections, allowing you to configure the VERThe Universal Module is typically used in passenger carryingUM05 Switch Cable White Wire Connections. The Primary Trigger Input White Wire is typically set up to monitor the vehicle's doors. The VER will then recordTip In many cases, the dome light circuit is the best place to make this connection as it is usually connected to all of theRefer to the vehicle wiring schematics for information. If you can find the dome light circuit under the dashboard, youIf not, simply make the connection at the dome light described here.

Before making the connection, you must first determine the type of bulb circuit switched power or switched groundDetermine the circuit type for connections at the dome lightTurn the load OFF close all doors to turn off the dome light. Measure the voltage at either of the bulb terminals. Determine where to make the connection. A Turn the load ON open a door to turn on the dome light. B Measure the voltage at each of the bulb terminals. The white wire must be connected to the terminal that changed voltage.Connecting the White Wire. The best place to keep the UM05 is usually under the dashboard. This requires several feet of the white wire routed upA Unscrew the dome light fixture from the ceiling to expose its wiring and provide an entry point under the headliner. B Route white wire from the location where you will mount the UM05 e.g. under the dashboard to the dome light. AC Connect the white wire to the dome light. Make sure you are connecting to the correct side of the dome light circuit asCAUTION You may need to remove the window and door trim to route the wire underneath. TheseIn vehicles with side and curtain airbags, thePlease refer to theWARNING When installing the cable in a vehicle with side or curtain airbags, be certain that neither theTesting the Connection Use the green light on the top of the UM05 to test the connection. A Open a vehicle door. The test light should be lit solid green. B Close all vehicle doors. The test light should go out at the same time as the dome light.Continue to the next section.Change the switch setting and repeat the test.UM05 Switch Cable Orange Wire Connections. The Secondary Trigger Input Orange Wire can be connected to one of several different electronic devices in theThe VER will then record an event each time the device isBefore making the connection, you must first determine the type of circuit switched power or switched ground andDetermine the circuit type for connections to a switchTurn the switch ON.

Measure the voltage at either of the switch terminals. A Turn the switch OFF. B Measure the voltage at each of the switch terminals. The orange wire must be connected to the terminal that changed voltage. Connecting the Orange Wire. A Connect the orange wire to the switch. Make sure you are connecting to the correct side of the circuit as measuredTesting the Connection Use the green light on the top of the UM05 to test the connection. A Close all vehicle doors and wait about one minute. B Turn or press the secondary switch "ON". The test light should light for about two seconds before going out. If you'reC Turn or press the secondary switch "OFF". There should be no indication from the test light.Continue to the sectionChange the switch setting and repeat the test.If this is all you're planning to install, proceed to page 18 to finish up.The VER has an output signalAfter saving that event, the output returns to its normal state. With the UM05 device, this function is greatly

enhanced. The user has the ability to determine the voltage level of the output as well asThe output can provide TTL level logic signals, or it can be used to operate loadsThese loads can be either resistive lights or inductive relays or motors. Due to the wide variety of ways that this output may be used, it is impossible to cover all potential applications. The instructions andYour particular application will determine the actual wiring configuration. NOTE Due to variety of ways the Output feature may be used, we recommend that wiring be done by a qualified automotive electrician. CAUTION Although every effort has been made to prevent it, incorrect wiring of the Output feature may cause damage to your UM05. General Operation. The Output feature of the UM05 acts like a switch. One side of this switch is permanentlyThe other side of the switch isAlso connected to the blue wire is a 1,800 Ohm 1.

8K resistor whoseThis yellow wire needs to be wired to a voltageFigure 1 shows aIf the OUT switch on the UM05 is set to NORM LO, the output switch will be closed all the timeWhen an event is triggered, the output switch will open while the VER is recording andIf the OUT switch is set to NORM HI the switch will work in theIt should be noted that the switch can also change states if theWhen this happens the switch will behave the same as if there was an event on the VER. If the OUT switch on the UM05 is set to NORM LO, the output switch will be closed all the time unless an event has been triggered in the. VER. When an event is triggered, the output switch will open while the VER is recording and saving the event. When that is complete, theIf the OUT switch is set to NORM HI the switch will work in the opposite way i.e. open normally, closed when anWiring Options. There are many ways the output of the UM05 can be used. The following section shows some sample applications. Your particularThese examples should only be considered a general guide. Example 1 Triggering a secondary electronic device. Generally, it is very easy to connect your UM05 to trigger a secondary electronic device. These types of devices typically require voltageWhen the switch is closed the voltage at the blue wire will be low. The yellow wire can be tied to a constant or switched voltage source. When tied to a constant voltage source there will be approximately 0.007A 7mA of current drawn at all times.