

WBU-1000
User Guide



WIRELESS DIGITAL BACKUP CAMERA

INSTALLS IN MINUTES




WHISTLER

Because the WBU-1000 is truly wireless and does not tap into your vehicle's transmission or backup light, you must tell the unit when you are backing up. This also allows you to use your back up camera to view behind the vehicle at any time.

When power is applied to the monitor an image will be present for 60 sec by default or the user selected time, if the screen goes blank and more time is required press the / for an image to return to the monitor.

INTRODUCTION

Welcome

Thank you for choosing a Whistler product. We are dedicated to providing products that represent both quality and value. Please read the User Guide carefully before using this product. If you have additional questions visit our website at

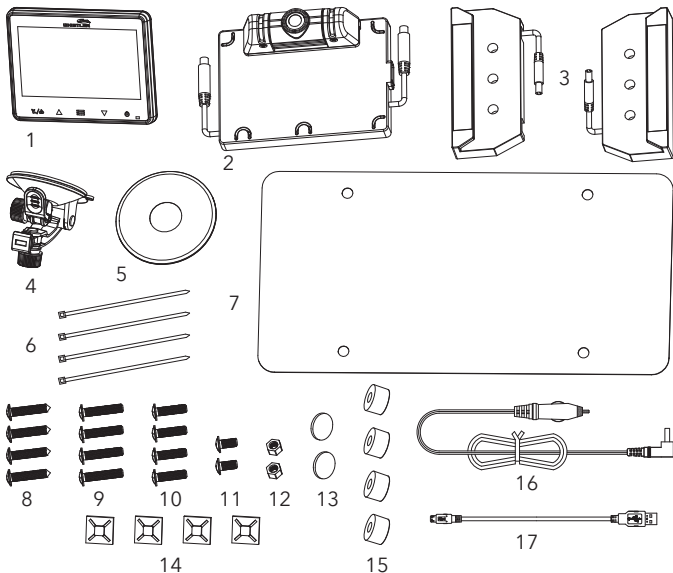
www.whistlergroup.com

or call Toll Free (800) 531-0004 / Tel (479) 273-6012,
8am to 5pm CT, Monday through Friday
to speak to a Customer Service Representative.

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COMPONENTS



- | | |
|-------------------------------|--------------------------------|
| 1. Monitor | 9. Long M6 screws (Import) (4) |
| 2. Camera | 10. Medium M5 screws (BMW) (4) |
| 3. Solar cells (2) | 11. Short machine screws (2) |
| 4. Suction cup mount | 12. Machine nuts (2) |
| 5. Dash disk | 13. Cushions (2) |
| 6. Tie wraps | 14. Cable tie mount (4) |
| 7. License back-plate | 15. Spacers (4) |
| 8. Long screws (Domestic) (4) | 16. Power cord |
| | 17. USB cord |

GETTING STARTED

The WBU-1000 is equipped with a built-in rechargeable lithium battery and is connected with two solar panels that trickle charge the built-in lithium battery when sunlight is available. This will minimize or eliminate the need to manually charge the unit during the year.

A USB charging port is provided to initially charge the battery prior to mounting on your vehicle as well as to recharge if needed. Your rechargeable battery when fully charged will last for several months of average use with NO SUNLIGHT (average use is defined as 4~6 times per day). With the addition of sunlight, the solar cells will charge your battery thereby extending the cameras ability to provide usage day after day and month after month without requiring you to recharge it manually.

Remove camera assembly from box and make sure all components are included.

GETTING STARTED

STEP 1

Charge The Camera

1. Connect the supplied USB cord to the micro USB port of the camera assembly.
2. Plug the USB cable into any standard USB charger with an output rating of 500ma or higher.
3. Charge the camera for 4 to 5 hours.

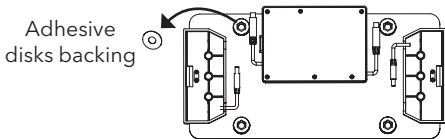
Under normal use, the camera maintains a charge with exposure to sunlight. A battery status indicator is provided on the monitor when the camera is in use.

NOTE: If vehicle will be stored for periods of time greater than two months, please disconnect both solar cell connections to shut off the camera and prevent the battery from discharging.

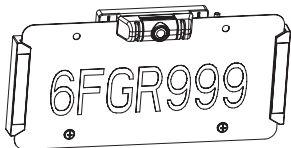
ASSEMBLY / INSTALLATION

STEP 2

1. Peel the backing from the adhesive disks and apply one spacer over each license plate mounting hole. Apply pressure to set the adhesive tape.

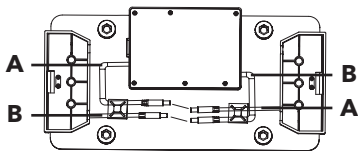


2. Slide your license plate into the assembly. If two of the license plate mounting holes are not required for attachment to your vehicle, insert the short machine screws and tighten with the supplied machine nuts.



3. If needed, two cushions are provided to protect your vehicle. Attach to the back of the spacers containing the machine nuts.
4. Connect the solar panel connectors to the mating connectors from the main camera housing and place the tie wrap adhesive pads as shown. Use two tie wraps to neatly hold the cables in place and cut the excess length of the tie wrap if desired. Follow illustration for correct wiring. Connect the A wires and connect the B wires.








ASSEMBLY / INSTALLATION



NOTE: Domestic and Import license plate screws are included and should be compatible with the vast majority of vehicles. Should your vehicle require a special diameter or thread, please consult your dealer.

PAIRING MONITOR TO CAMERA

Your WBU-1000 should automatically pair with your monitor. If your monitor does not automatically pair with the camera after initial charge, the following steps are to be used.




1. Disconnect both solar cell connections
2. Power on monitor
3. Touch  then  or  to place cursor over SETUP, then touch / to select
4. With PAIR icon selected, touch / to begin the pair process
5. Connect both solar cell connections to turn on the camera



Pair OK will be displayed when the pairing process is completed.

TEST THE CAMERA

Test the Camera

Prior to attaching the license plate to your vehicle, follow the steps below to ensure pairing between the backup camera and monitor.

1. With power applied to the monitor, the button backlight will illuminate to indicate the monitor is ON and in Standby mode.
2. The Blue LED will blink briefly to indicate that it is attempting to communicate with the camera. When connected to the camera, the blue LED will turn solid. It may take a moment for the camera to begin sending the video information. Allow time for the image to be displayed.
3. The image is set to time out in 60 seconds however if you wish to shut the image off manually, touch  anytime that video is present to stop the video transmission and put the camera back into the power conserve mode. (The blue LED will shut off when the timer expires)
4. If the 12-volt DC power port in your vehicle is live all the time the backlight will stay on constantly. To shut the button backlight off, touch and hold the  button for 3 seconds. The monitor retains this setting and must be turned back on in order to receive video. This can be done easily with a touch of the  button. Standby is confirmed when the button backlight remains ON.

NOTE: If the monitor has been shut off with  button, removing the power source and reapplying will not turn your monitor on as the OFF function is stored in memory and the unit must be turned ON by touching the  button.

NOTE: If using a switched 12-volt DC Power port, it is not necessary to power off the monitor unless you do not wish to receive an image automatically when starting your vehicle.

ATTACH TO VEHICLE

STEP 3

Attach license plate to vehicle

Once you have tested the camera system and ensured the pairing between the backup camera and monitor, you are ready to reattach the license plate to your vehicle.

Be sure to use the appropriate mounting screws for your vehicle (included).

The camera angle should be adjusted to provide an optimal view of objects behind the vehicle.

Note: Do not exceed 45 degrees up/down from central position.

Adjust the camera angle as required:

- Loosen the two screws below the camera a few turns.
- To adjust the camera angle, tilt the camera to the correct angle. (Do not force the camera)
- The camera should be adjusted to a horizontal position relative to the ground, so as to provide optimal view of objects behind the vehicle.
- Carefully tighten the 2 screws to prevent the camera angle from moving during vibrations from driving.

MOUNTING THE MONITOR

Find a mounting surface inside the vehicle for the monitor where it can be easily seen, and does not obstruct your vision when driving.

NOTE: To maximize the effectiveness of the suction mount, the mounting location surface temperature should be between 50° and 100°F. Avoid application below 50°F.

NOTE: Before permanently mounting the monitor, test the reception of the camera signal in several selected locations within easy reach as one may have better reception than another. If mounting to the dashboard, the dash disk must be used to ensure a smooth surface for the suction cup to attach.

1. Clean and dry the mounting surface before applying suction cup or dash disk.
2. Press the suction mount against the mounting surface and push the suction lock lever down. Make sure the mount is attached securely.
3. Slide the monitor onto the monitor arm. The monitor angle can be adjusted by loosening the monitor angle adjustment knobs, tilting the monitor, then tightening the knobs.
4. Plug the monitor power cord into a 12-volt DC power port inside the vehicle.

SETUP

Functions of the Touch Buttons (left to right)



- ↔: Touch to enable or cancel the video on the monitor
Touch for 3 seconds to turn on/off the backup assist lines. Touch to select a corresponding function.
- ▲: Touch to move to or adjust a corresponding function.
- ☰: Touch to enable/cancel the menu.
- ▼: Touch to move to or adjust a corresponding function.
- ⏻: Touch briefly to turn on, touch and hold for 3 seconds to turn on/off.

Adjusting Monitor Settings

1. Touch the ☰ button to bring up the options
2. Touch ▲ or ▼ arrow to scroll through the different functions
3. Touch the ↔ button to enter the function
4. Touch the ▲ button to increase or the ▼ button to decrease settings
5. To change the view on the screen, scroll to **ROTATION** then touch the ↔ button to select 1 of 4 image rotations. (It is best to have a video image displayed when making this selection)
6. To exit, touch the ☰ button or wait for the 15 second timer to exit automatically

Displaying Guidelines













To turn the guidelines On or Off, with video on the display touch ↔ for 3 seconds then release.

MONITOR SETTINGS

User selectable camera time durations

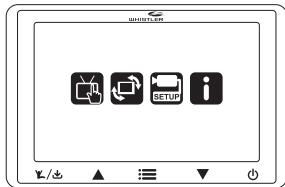
The WBU-1000 has three user selectable camera time durations.





You may choose to set the monitor to stay on for 30, 60 or 90 seconds by following the below steps when the monitor is powered on:

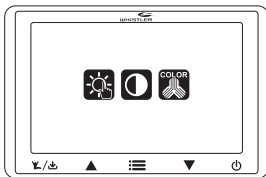
1. Touch the 
2. Touch the  or  to move the cursor over SETUP
3. Touch the / to select SETUP
4. Touch the  or  to move the cursor over TIME-OUT
5. Touch the / to select TIME-OUT
6. Touch the  or  to move the cursor over your preferred time duration
7. Touch the  3 times to save and exit or wait 10 seconds and your selection will save and exit automatically

MONITOR SETTINGS

Menu Operations

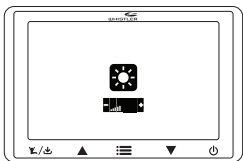


Enter the main Menu Interface  and 4 options are available including IMAGE PARAMETERS, IMAGE ROTATION, SETUP and SOFTWARE INFORMATION. Press  or  to select corresponding option, and then touch the  button to enter the option.



In the example above the IMAGE PARAMETERS (Brightness, Contrast, Color) Setting Interface is shown.


MONITOR SETTINGS



Brightness/Contrast/Color Settings

Press ▲ or ▼ on the interface to adjust the brightness as shown above.

Image Rotation

Select IMAGE ROTATION, and then touch the ↶/↷ button to rotate or mirror the image. (It is best to have a video image displayed when making this selection). If you rotate the image on the display an orange box with arrows will appear .

Select Software Information

Touch the ↶/↷ button to display the software version information.

Setup

Select SETUP, and touch the ↶/↷ button to enter SETUP Mode. The pairing mode is found within the SETUP menu.

Battery Strength


The battery icon is on the top left corner of the monitor, and indicates the relative capacity of the built-in lithium battery when a video image is present.

Signal Strength

The signal strength of the received image is on the top right corner of the monitor when a video image is present.

TROUBLESHOOTING

If the monitor does not turn on when power is applied:

- Check to make sure the power source is active (if your 12V power port is switched with the vehicle ignition, your monitor will only work when the vehicle is running or the key is in the ON position)
- Check to make sure the fuse and power cord are in working order
- With power applied to the monitor, touch the 

If the monitor does not display images within a few seconds of pressing the button:

- The battery in the camera may be depleted and require recharging
- The signal may be weak due to positioning of the camera and monitor (try re-positioning the monitor to another location)

If the video image is poor:

- Check that the camera lens is clean from road grime, snow, or ice

If the video image is dark:

- Replace the vehicle's old backup and license plate bulbs with new LED type bulbs

If the image appears to shake when the vehicle is moving:

- Check the camera mounting screws to the vehicle and retighten if needed
- Check the camera tilt adjustment and retighten the screws if loose.

If the video image does not last the user selected Time-Out period:

- Re-check the Time-Out selection
- Recharge the battery in the camera

DISCLAIMER

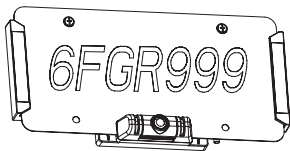
The Whistler Digital Wireless Backup Camera is intended to assist responsible drivers but it does not relieve a driver from full responsibility for the operation of the vehicle. It is the driver's sole responsibility to avoid contact with any objects, animals, or persons. By mounting and/or using the Whistler Digital Wireless Backup Camera, you agree that you are solely responsible for the operation of your vehicle and that The Whistler Group is not responsible for any property damage, personal injury, or loss of life that may result from the operation of your vehicle.

Notice to Drivers in California and Minnesota:

State law prohibits drivers in California and Minnesota from using suction mounts on their windshields while operating motor vehicles. Other dashboard mounting options should be used. (See California Vehicle Code Section 26708(a); Minnesota Statutes 2005, Section 169.71).

Notice:

Some states or local governments may have regulations or laws that restrict the use of anything that might impair the clear view of a license plate. Check local laws for compliance. If your state prohibits the use of anything that impedes the top of the license plate, the camera can be mounted on the bottom of the license plate as in the image below.



SAFETY

Safety

If at any time the backup camera assembly becomes damaged, hot or begins to swell, discontinue use immediately. Quickly and safely remove the backup camera from the vehicle and disconnect the solar charging cables. Do NOT continue to handle, attempt to use, or ship the damaged backup camera assembly. Failure to follow these procedures can cause damage to personal property or cause serious injury. Damaged or swollen batteries in the backup camera assembly can be unstable and very hot. DO NOT touch the batteries until they have cooled. Dispose of the batteries in the manner required by your city, county, state or country.

In the event of a crash, quickly and safely disconnect and remove the backup camera assembly from the vehicle. Then follow the previously listed safety procedures. If the internal contents of the batteries included in the backup camera come into contact with your skin, wash the affected area(s) with soap and water immediately. If it comes into contact with your eye(s), flush them with generous amounts of water for 15 minutes and seek medical attention. In the event of a fire, a Class D, dry chemical fire extinguisher must be used.

CARE AND MAINTENANCE

Cleaning

Do not clean or wipe the Back-Up Camera with solvents or chemical materials. If necessary, remove dirt or stains using a soft cloth dampened with a mild detergent solution.

Fuse Replacement

1. Turn the cap on the tip of the power plug counterclockwise (no tools needed).
2. Remove the cap, center pin and fuse.
3. Replace the fuse with a new 1-amp fuse.
4. Replace the center pin and cap. Turn the cap clockwise.

Disposal



The Back-Up Camera is designed to provide years of service. The Back-Up Camera should be recycled or safely disposed of at a local recycling center.

FCC AND IC INFORMATION

IMPORTANT: FCC (Federal Communications Commission) requirements state that changes or modifications not expressly approved by Whistler could void the user's authority to operate the equipment.

FCC Part 15.19 Warning Statement

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 any interference received, including interference that may cause undesired operation.

FCC Part 15.21 Warning Statement

NOTE: The grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.

FCC Part 15.105 Warning Statement

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 protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate 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 is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC AND IC INFORMATION

RF warning statement:

The device has been evaluated to meet general RF exposure requirement. To maintain compliance with FCC's RF exposure guidelines, this equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.

FCC ID : HSXBU01M / HSXBU01C

IC Warning:

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

RF warning statement:

The device has been evaluated to meet general RF exposure requirement. To maintain compliance with RSS-102 – Radio Frequency (RF) Exposure guidelines, this equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body. Le dispositif de a été évalués à répondre général rf exposition exigence. Pour maintenir la conformité avec les directives d'exposition du RSS-102 - Radio Fréquence (RF), ce matériel doit être installé et exploité à une distance minimale de 20 cm entre le radiateur et votre corps.

IC:1698A-BU01M / 1698A-BU01C

SPECIFICATIONS

CAMERA

Operational Current (when transmitting): <220mA

Pixels: 640 x 480

View Angle: 110°

Image Sensor: 1/4" CMOS VGA

Image Quality: Max 25 fps.

Camera Assembly: IP65

TRANSMITTER

Frequency: 2400 ~ 2485.5MHz

RF transmission distance: >328 ft. (>100 m)

Operation/storage temperature: 14° to 122°F (-10° to 50°C)

MONITOR

LCD display screen size: 4.3 in.

Power cord fuse: 1A

Operational Current: <250mA

Standby Current: 50mA.

Effective Pixels: 480 x 272

Working temperature: -10 to +50C

WARRANTY INFORMATION

Consumer Warranty

This Whistler product is warranted to the original purchaser for a period of one (1) year from the date of original purchase against all defects in materials and workmanship, when purchased from an authorized Whistler retailer. This limited warranty is void if the unit is abused, misused, modified, installed improperly, or if the housing and/or serial numbers have been removed. There are no express warranties covering this product other than those set forth in this warranty. All express or implied warranties for this product are limited to one (1) year. Whistler is not liable for damages arising from the use, misuse, or operation of this product including but not limited to loss of time, inconvenience, loss of use of your product or property damage caused by your product or its failure to work, or any other incidental or consequential damages including personal injury.

DO NOT RETURN ITEM TO STORE WHERE PURCHASED.

For warranty information, contact
Whistler Customer Service
at Toll Free (800)531-0004 / Tel (479)273-6012
Representatives are available to answer your questions
Monday - Friday from 8:00 a.m. to 5:00 p.m. CT

WARRANTY INFORMATION

Service Under Warranty

During the warranty period, defective units will be repaired or replaced (with the same or a comparable model), at Whistler's option, without charge to the purchaser when returned prepaid, with dated proof of purchase to the address below. Units returned without dated proof of purchase will be considered out of warranty and therefore are not covered by the described Limited Warranty.

(Refer to Service Out-of-Warranty section.)

Due to the specialized equipment necessary for testing Whistler products, there are no authorized service centers other than Whistler. When returning a unit for service under warranty, please follow these instructions:

1. Ship the unit in the original carton or in a suitable sturdy equivalent, fully insured, with return receipt requested to:

Whistler Repair Dept.

1412 South 1st St.

Rogers, AR. 72756

Please allow 3 weeks turnaround time.

WARRANTY INFORMATION

IMPORTANT: Whistler will not assume responsibility for loss or damage incurred in shipping. Therefore, please ship your unit insured with return receipt requested. **CODs will not be accepted!**

2. Include with your unit the following information, clearly printed:
 - Your name and physical street address for shipping (no PO Boxes), a daytime telephone number, and an email address (if applicable).
 - A detailed description of the problem (e.g., "device will not power ON").
 - A copy of your dated proof of purchase or bill of sale.
3. Be certain your unit is returned with its serial number. Units without serial numbers are not covered under warranty.

IMPORTANT: To validate that your unit is within the warranty period, make sure you keep a copy of your dated proof of purchase. For warranty verification purposes, a copy of your dated store receipt must accompany any Whistler product sent in for warranty work.

WARRANTY INFORMATION

Service Out-Of-Warranty

Units will be repaired at “out-of-warranty” service rates when:

- The unit’s original warranty has expired.
- A dated proof of purchase is not supplied.
- The unit has been returned without its serial number.
- The unit has been misused, abused, modified, installed improperly, or had its housing removed.

The minimum out-of-warranty service fee for your Whistler product is \$65.00. If you require out of warranty service, please return your unit as outlined in the section “Service Under Warranty” along with a cashier’s check or money order in the amount of \$65.00. Payment may also be made by MasterCard, VISA or American Express.

Personal checks are not accepted.

In the event repairs cannot be covered by the minimum service fee, you will be contacted by a Whistler technical service specialist who will outline options available to you.

WARRANTY INFORMATION

IMPORTANT: When returning your unit for service, be certain to include a daytime telephone number and an email address (if applicable).

Customer Service

If you have questions concerning the operation of your Whistler product, or require service during or after the warranty period, please call

Customer Service at
Toll Free (800)531-0004
Tel (479)273-6012

Representatives are available to answer your questions Monday - Friday from 8:00 a.m. to 5:00 p.m. (CT) or visit the FAQs at

www.whistlergroup.com

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P/N

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