



# VDU User Manual

## **FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT**

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This equipment has been tested and found to comply with the limits for 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 communication. However, there is no guarantee that interference will not occur in a particular installation. If the 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.
- Consult the dealer, or an authorized technician for help.

### **FCC CAUTION:**

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Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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# Starting up the Visage VDU

When you turn on a unit, it will first go through a series of diagnostics. The screen will show a “booting up” message and a progress indicator.

## The Welcome Screen

After boot up is complete, the VDU will typically show a course’s “Welcome Screen.” The Welcome Screen is an ad the course defines welcoming golfers to the course that displays when golf cars are near the clubhouse or in the staging area.



# The Golf Map Screen

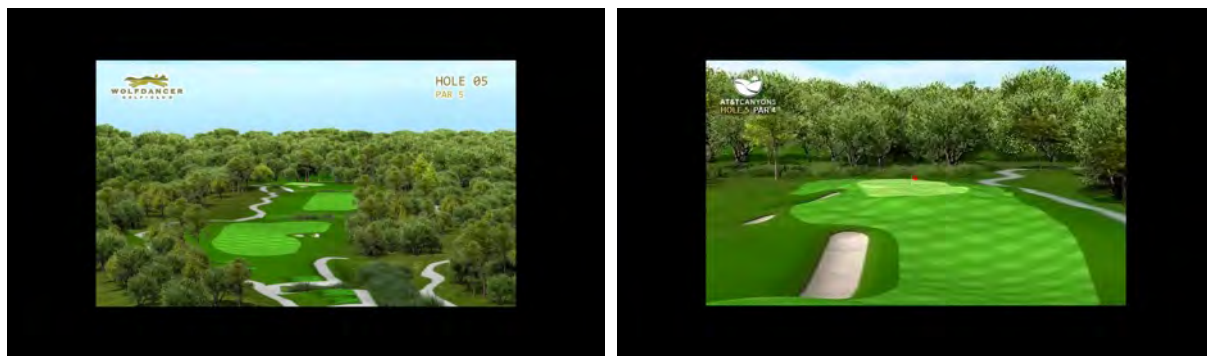


The main screen that golfers will interact with is the Golf Map screen. This screen shows a map of the current hole and yardages to hazards and other point of interest.



## Flyovers

When golfers first reach a hole, they will see a 3D flyover to help them plan their strategy for the hole. After the flyover finishes playing, the screen will return to the golf map. Golfers can view the flyover again at any time by pressing the “view flyover” button on the screen.



## Distances

The Visage VDU uses GPS to calculate distances to hazards and other points of interest on the golf course. The distances are measured by line-of-sight (or “as the crow flies”), and may differ from yardages given on your course’s scorecard. Scorecard distances are typically measured by line-of-play, and so may be larger than the line-of-sight distance.

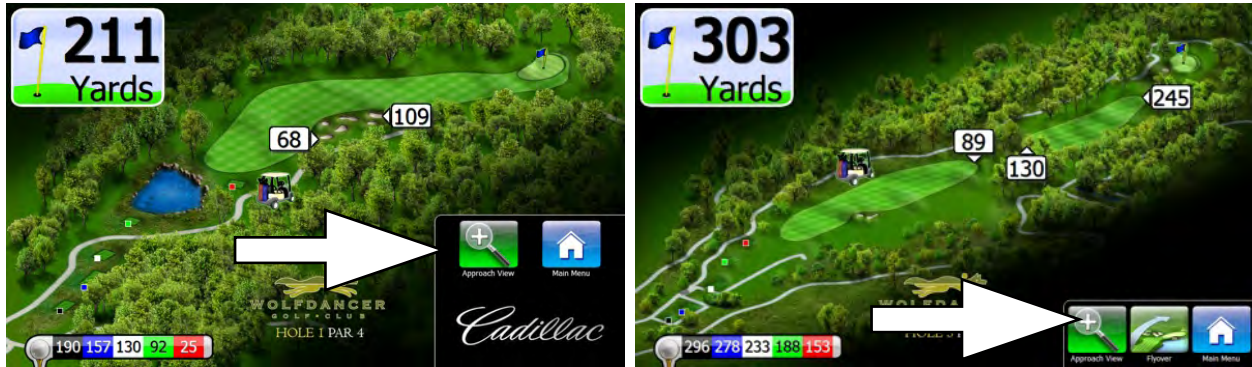
## Yards to Pin / Center of Green

In the upper corner of the screen, there is a large box that shows the yardage to the pin if the course has defined a pin placement for that hole. If no pin placement is defined, the box will show the yardage to the center of the green, and the Pin icon will be replaced with a Center of Green icon.



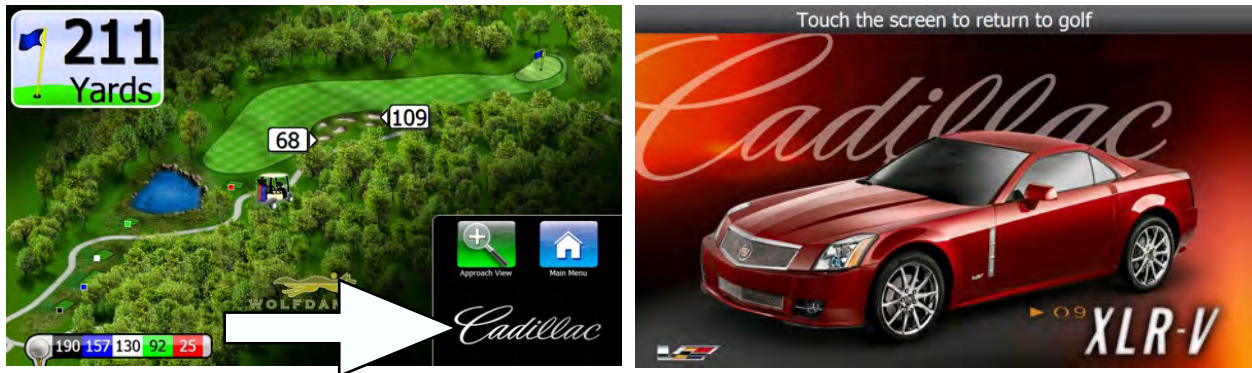
## Navigation Panel

In the bottom corner of the screen, there is a navigation panel that allows golfers to access the main menu, view flyovers, and zoom in or out on the hole. If an insert ad is defined for the hole, it will display in this spot. If no ad is defined, the navigation panel will move the bottom of the screen.



## Ads

During play, ads are shown in the corner of the screen. When you approach the green, you may see a full-screen ad. To dismiss this ad, touch the screen anywhere.



## Your car icon

Your position is shown on the screen with an icon of a golf car. Note that other golf cars' positions are not shown.



### Tee shot distances

After you hit your drive and move away from the teebox, Visage will display distances measured from your golf car back to up to five teeboxes. This yardage can be used to help you determine the distance of your drive. This is shown in an informational popup that appears at the bottom of the screen.

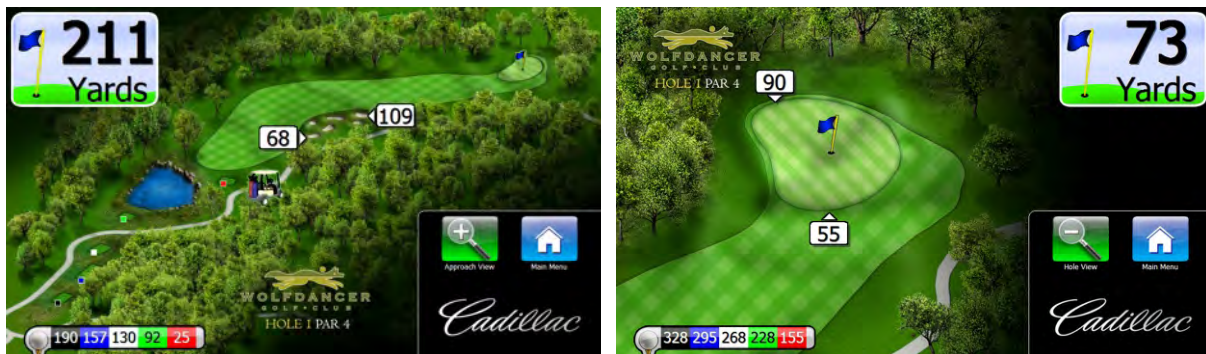


### Car Ahead

On blind tee shots, the Visage VDU may warn the golfer that someone is in the driving area.

### View the approach/hole

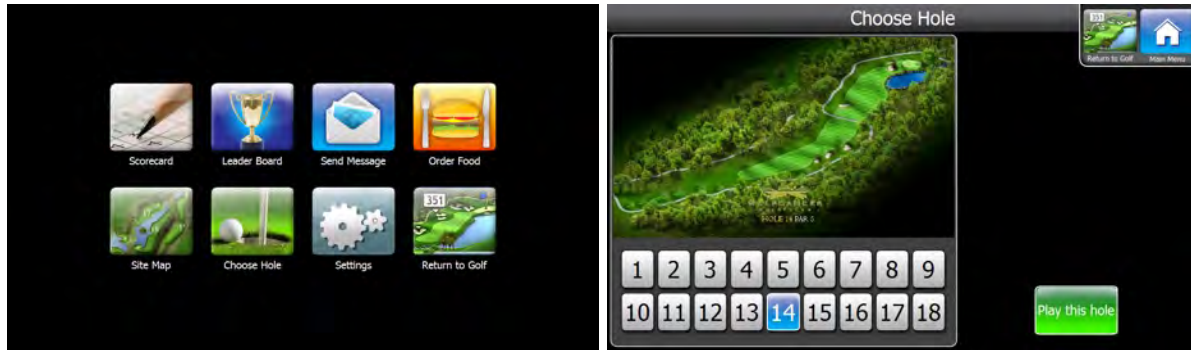
When you begin play on a hole, Visage first shows a “hole view,” or a map of the entire hole. As you approach the green, Visage will automatically zoom in to a “green view.” The golfer can elect to zoom in to the green view or back out to the hole view at any time by pressing the Zoom button on the screen.





### Select another hole

To select another hole, first press the “Main Menu” button. Then, press the “Choose Hole” button. On the “Choose Hole” screen, touch the number of the hole you would like to play, then press “Play this Hole.” The Visage VDU will show a preview image of that hole.



### Hole conflict screen

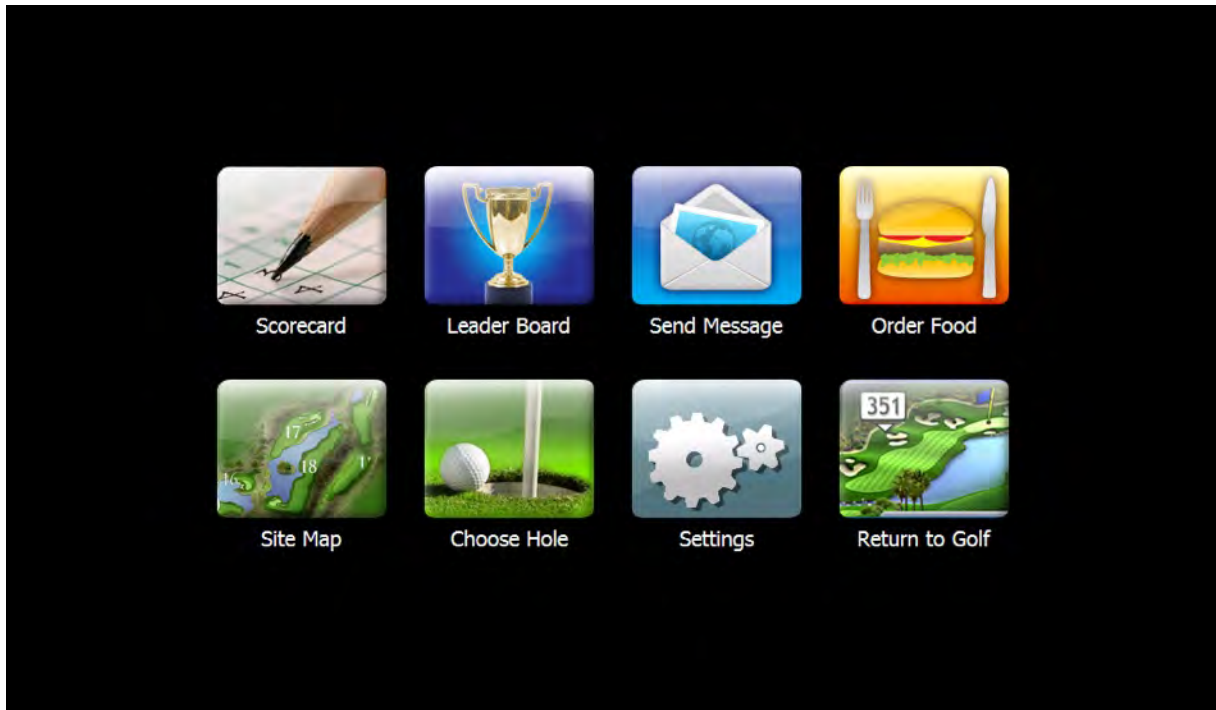
If you drive onto the teebox of another hole while playing your current hole, Visage may prompt you to ask whether you are still playing your current hole or if you would like to switch to the other one.

### Access the main menu

To access the main menu, simply press the “Main Menu” button in the navigation panel.

# The Main Menu

The Visage Main Menu allows you access to features such as food ordering, scorecards and leaderboards, and messaging. To access the Main Menu, simply press the Main Menu button from any screen.



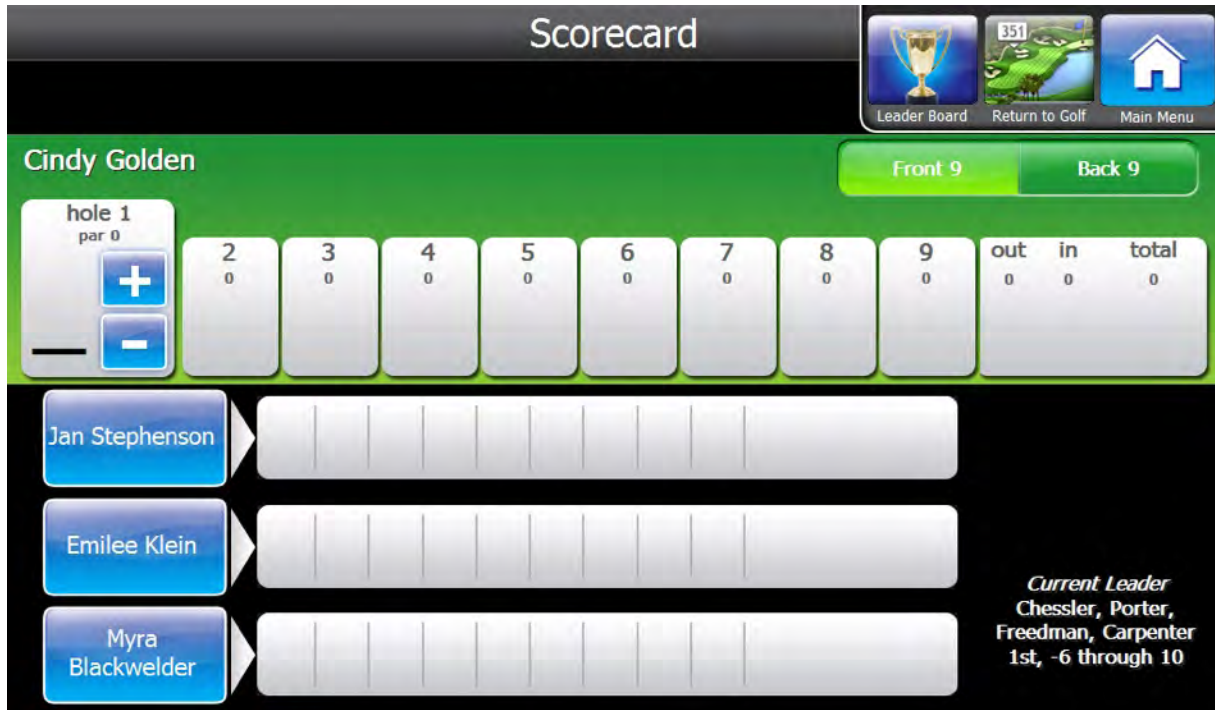
Once on the Main Menu, you can select the feature you wish to use by pressing the appropriate button.

## **Return to the Golf Map**

To return to the Golf Map screen, simply press the “Return to Golf” button.

# Scorecard

The Visage scorecard allows you to enter scores for up to four players. After you have finished playing a hole (by driving from the previous green to the next tee), Visage will automatically switch to the scorecard to allow you to enter scores.



To access the scorecard at other times, go to the Main Menu, then press the Scorecard button.

## Select a Player

To select a player, simply touch the player's name on the screen. That player's scores will become highlighted.

## Enter Scores

To enter a score, first select the player, then touch the hole for which you wish to enter scores. That hole will become highlighted and "+" and "-" buttons will appear. Press the up and down buttons to enter your score. When you are finished, press the "Return to Golf" button to return to the Golf Map.

To change a previously entered score, you will follow the same procedure as entering a score. First, touch the hole whose score you wish to change, then press the "+" and "-" buttons to enter the new score.

## Front 9 / Back 9


There are Front 9 and Back 9 buttons in the top right of the screen to allow you to switch between them. The 9 you are currently playing will be highlighted in bright green. To switch to the other 9, simply press the other 9's button.

# Leader Board

The visage leader board allows you to view the current standings of players in a tournament. It will initially show the top 8 scores. To view the next 8 players, press the “more...” button at the bottom of the screen.

After you have scrolled down by pressing “more...”, another “more...” button will appear at the top of the screen to allow you to scroll back up.

When you are finished looking at the scorecard, you can press “Return to Golf” to return to the Golf Map screen.



		score	through
1	Chessler, Porter, Freedman, Carpenter	-6	10
T2	Rumac, Haecker, Evander, Potts	-4	12
T2	Gisser, Rodriguez, Brown, Hasselbeck	-4	8
4	Lincicome, Peters, Jackson, Daniels	-3	6
5	Scotts, Heider, Lagerfeld, Anderson	-2	9
T6	Williams, Zarenko, Mead, Sutcliffe	-1	7
T6	Stephenson, Summers, Hill, Patrenko	-1	11
8	Stupples, Grable, Davis, Masterson	Even	13

more...

## View Other Flights

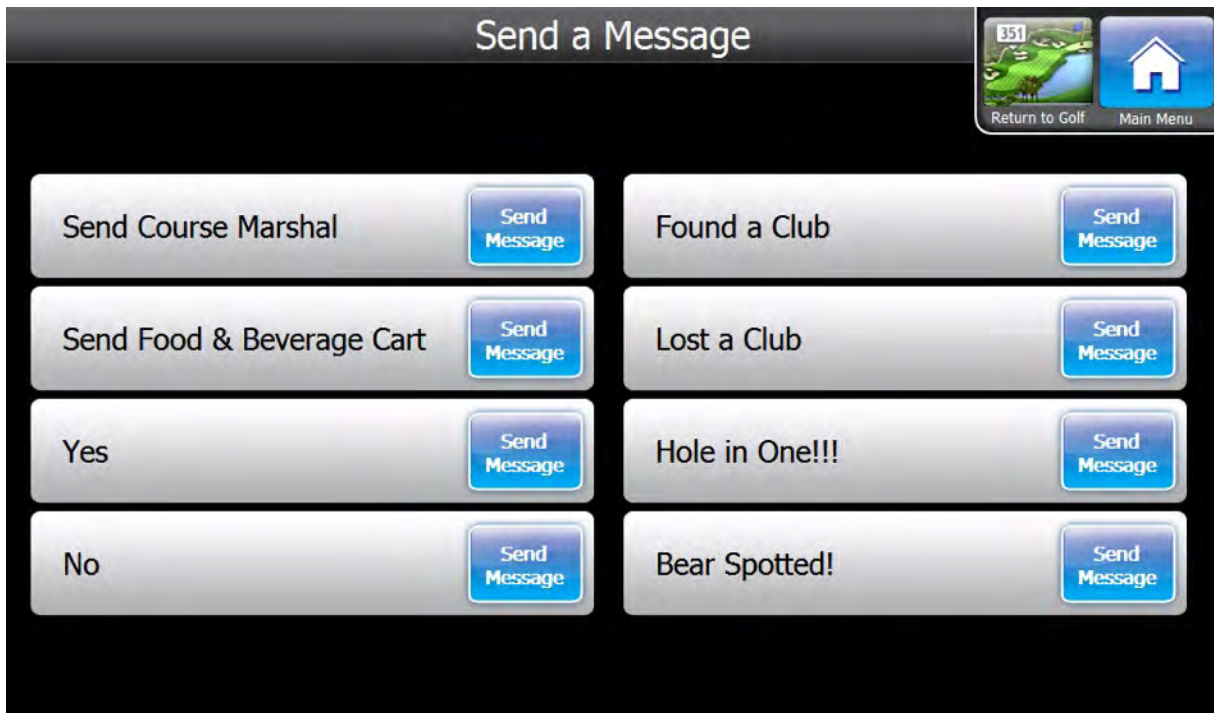
Visage’s revolutionary tournament capabilities allow players in a tournament to view the standings by flight. To view other flights, press the button of that flight on the right of the screen

In the example above, “Horns” is the name of the only flight. If there were more flights, they would appear as buttons beneath the Horns button.

# Send Message

The Visage VDU allows golfers to send messages back to the base. To send a message, first go to the Main Menu, then press the Send Message button. On the Send Message screen, touch the message you wish to send.

After the message is sent successfully, golfers will see a confirmation message. If the message could not be sent, golfers will be notified that the message was not sent. The confirmation message will disappear after several seconds, and the VDU will return to the Golf Map screen.

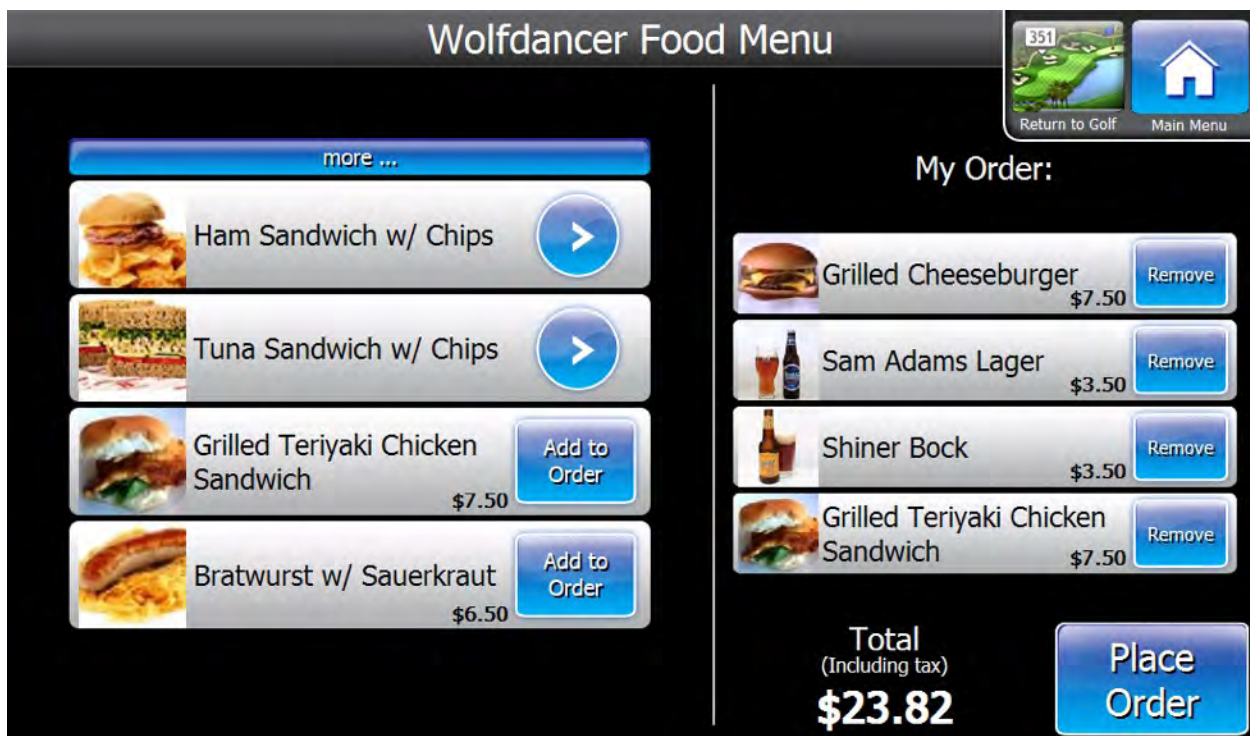




# Order Food

If the facility has enabled food ordering, golfers will be able to use the Visage VDU to place a food order. The food menu is only accessible on certain holes that the facility defines. Typically, it will be configured to appear after the 9th and 18th holes' teeboxes, to allow golfers to order food to pick up at the turn or after the round.

To access the food menu, golfers will go to the Main Menu, then press the Order Food button.



## Adding Items to an Order

To add a food item to an order, golfers will press the “Add to Order” button. The item will appear on the right under the “My Order” heading, and the Total will be updated to reflect the price of the items currently in the order.

If golfers order more than four items, a “more” button will appear that will allow them to scroll up and down to view all the items in their order.

## Categories

Items that have an “>” icon are categories. Touching those items will allow the golfers to view a sub-menu. For example, “Ham Sandwich w/ Chips” is a category; pressing that button will open a sub-menu that will allow the golfer to configure the item, perhaps by selecting different types of bread or chips.

## **Placing the Order**

Once golfers have completed adding items to their order, they will press the “Place Order” button to send the order in to the clubhouse. Golfers will then see a confirmation message (defined by course personnel) containing an electronic receipt and instructing them where to pick up their order.

# Site Map

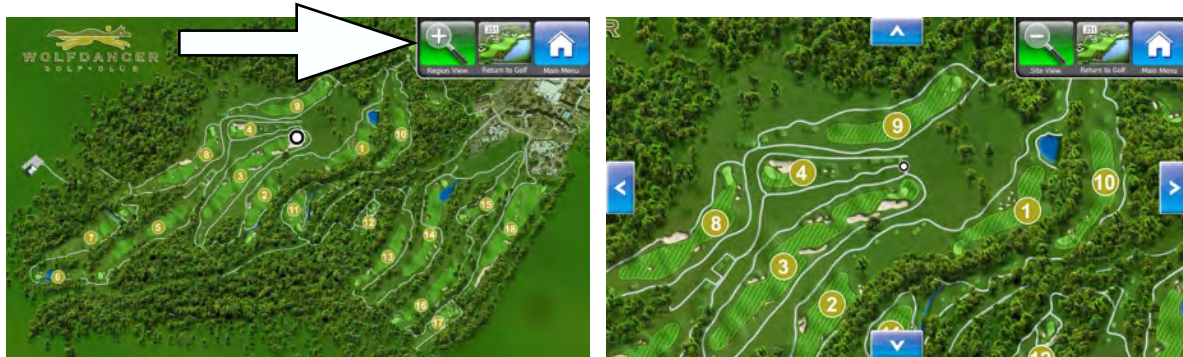
The Visage VDU allows golfers to view a map of the entire site. The site map will automatically display when golfers are between holes, unless a full screen ad is defined in that spot (if the golfer dismisses the ad, the display will revert to the site map). Your golf car's location is shown as a blinking white dot on the screen. The site map is always oriented with North at the top.



Golfers can also view the site map at any time by going to the Main Menu, then pressing the Site Map button.

### Region View (zoom in)

If accessed through the Main Menu, the Site Map will start zoomed out to fit the entire site on the screen. Golfers can zoom in to the Region View by pressing the Region View button (a + magnifying glass).

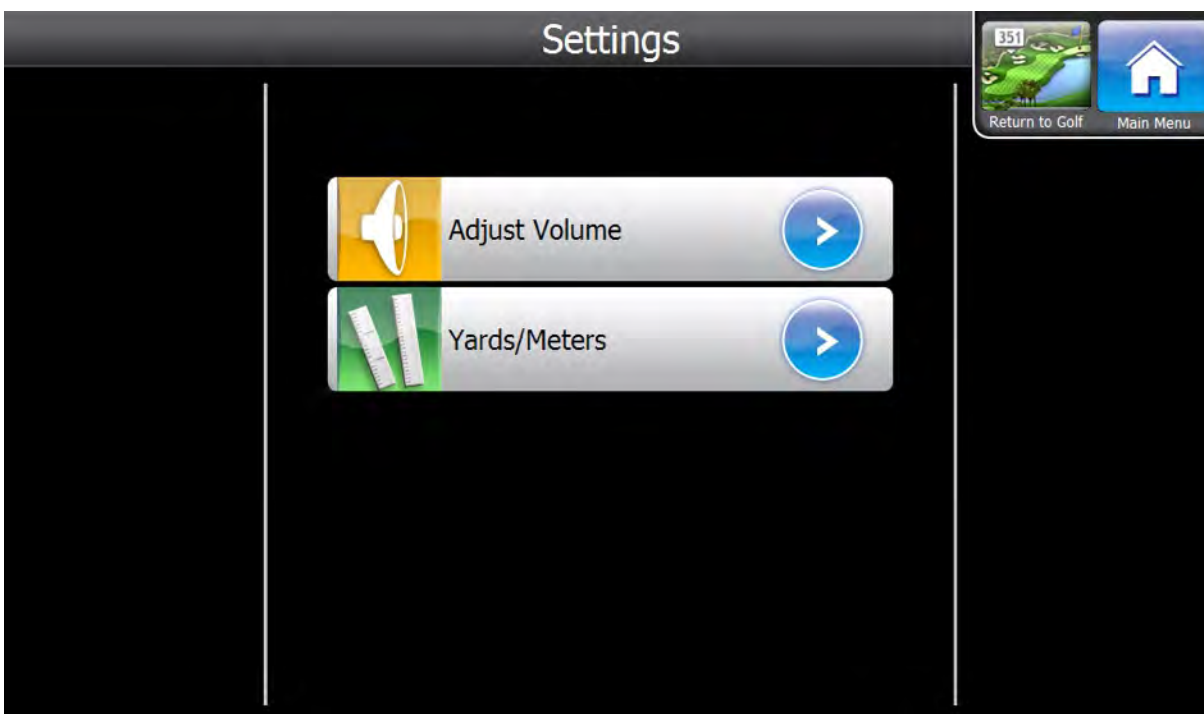


On the Region View, arrows will appear at the top and bottom and left and right of the screen. These arrows allow the golfer to scroll to view different areas of the map.

To zoom back out to Site View, press the Site View button from the Regional Map (a - magnifying glass).

# Settings

The Visage VDU has several settings that golfers can change to customize their experience. To access the Settings Menu, golfers can go to the Main Menu, then press the Settings button.



## Adjust volume

To change the volume of sound effects, first go to the Settings Menu. Then, press the Adjust Volume button. On the Adjust Volume submenu, press the high, medium, low, or off buttons.

## Change Distances' Units (Yards / Meters)

To change whether the distances are shown in yards or meters, first go to the Settings Menu, then press the Yards/Meters button. On the Yards/Meters submenu, press the Yards or Meters button.



## Club Car Precedent Installation - Completed Look and Feel - Visage

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The image below depicts the completed installation of the Visage unit utilizing the roof mount. The rest of this manual will guide you through the steps to complete this installation.

### Club Car Precedent Installation - Completed Look and Feel - Visage



FCC RF Radiation Exposure Statement: This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End users must follow the specific operating instruction for satisfying RF exposure compliance.

## Club Car Precedent Cart Install - Visage

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### Club Car Precedent Cart Install - Visage

#### Tools Required

cordless drill  
10mm wrench  
10mm socket  
T40 Torx tip  
1" drill bit--spade bit, step bit, or hole saw  
tin snips or sharp utility knife  
#3 Phillips screwdriver  
#2 Phillips screwdriver  
flush cutters

#### Remove the 4 forward roof bolts, nuts, and washers.



Place them in the golf ball tray for later re-installation.

#### Remove the lower strut cover 10mm bolt.



save for later reinstall.

**Remove the windshield bolt, nut, and washers on the passenger side**



save parts for later reinstall.

**Remove the two T40 torqx bolts and remove the strut from the car.**



save bolts for later reinstall.

**Pull the plastic fender panel back and drill 1" hole in cart as shown.**



Align the top edge of the hole here

Align the left edge of hole here

Step Drill:



Hole Saw:





## Install the new strut (with visage power cable)



1. pull the plastic lower strut cover off the old strut and slide it on the new.
2. re-install the torx bolts
3. re-install the windshield hardware.

## Cut a notch in the plastic fender panel as shown.



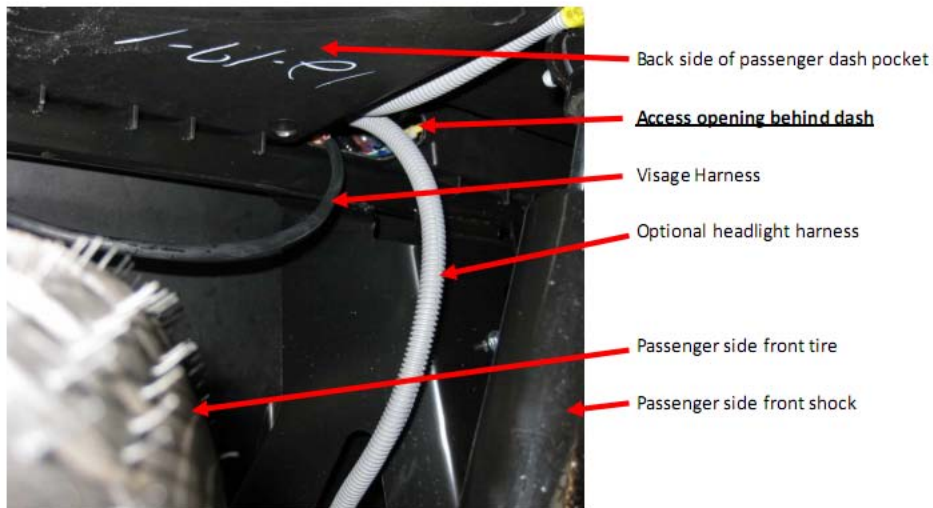
This notch is for the cable to pass through when you re-install the fender panel. Make sure it lines up with where the cable comes out of the strut.

## Push the cable through the hole and into the wheel well.

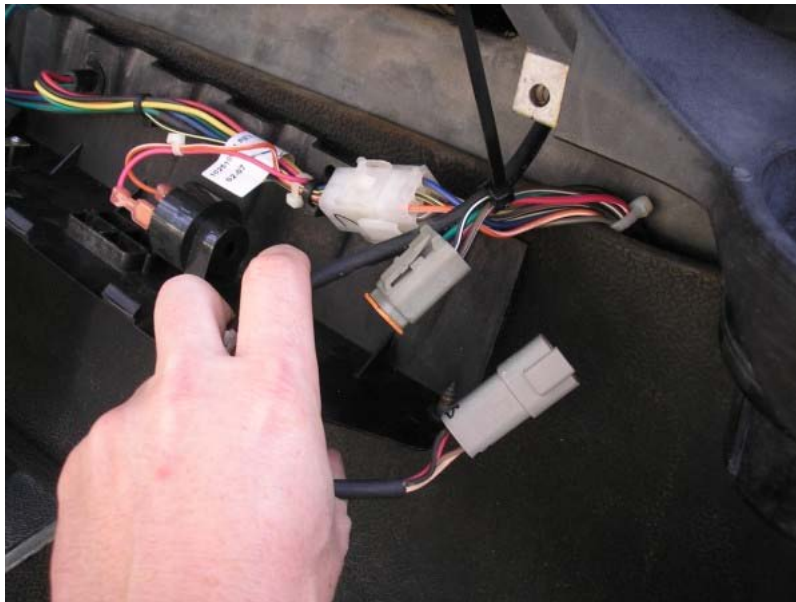


Re-install the fender panel and lower strut cover.

**Push visage power cable into dash compartment.**



**Pull cable into passenger compartment.**



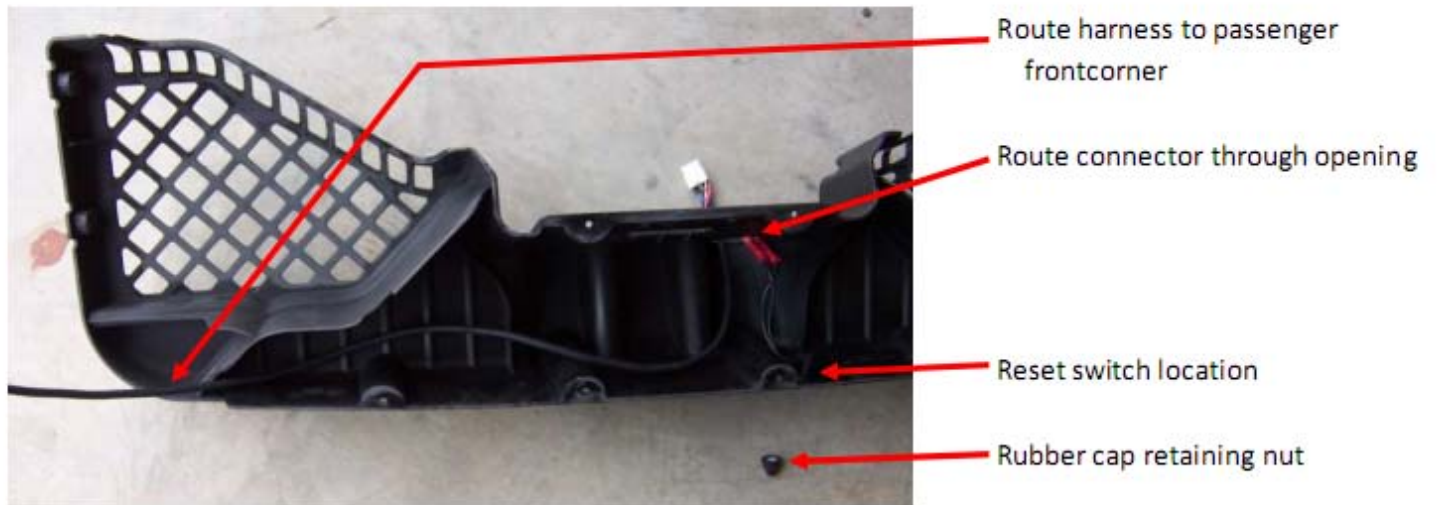
Remove the dash panel by removing the T15 and T30 torx dash screws. Pull the cable all the way into the passenger compartment. Be sure to pull all the slack out from the wheel well.

Zip tie the cable securely, so that it can't slide back in the wheel well creating a snagging hazard or rubbing on the tire.

**Important: Don't plug the power cable into the cart yet. We need to plug in the other end to the Visage first for proper grounding to protect the cart's motor controller.**



**Prep the tray as shown.**



Install cable and reset switch as shown.

**Get your bolts ready.**



**Install tray and tighten the nuts with 10mm wrench.**



don't forget the rubberized washers.

**Install the 6 self threading plastic screws.**



4 in the front, 2 in the back.

Do not torque these. Just turn until head is flush with tray.

**Connect the power connector and hang the Visage unit.**



Make the power connector click.

**Install the 2 Visage mounting screws.**



Don't forget lockwasher and flatwasher.

**Now connect the cable in the dash.**



1. Turn the reset switch off. The pushbutton type switch is off when the plunger is out. It is hard to tell.
2. Connect the cable under the dash.

Carts with excel motor controllers will have the duetsch connector shown.

**Non-excel carts will have an adapter that connects to the accessory connectors below.**



**You are Done!**

Re-install the dash panel, power on, and set cart number.



## EZGO RXV Installation - Completed Look and Feel - Visage

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The image below depicts the completed installation of the Visage unit utilizing the steering column mount. The rest of this manual will guide you through the steps to complete this installation.

### EZGO RXV Installation - Completed Look and Feel - Visage



FCC RF Radiation Exposure Statement: This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End users must follow the specific operating instruction for satisfying RF exposure compliance.

## EZGO RXV Cart Install - Visage

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### EZGO RXV Cart Install - Visage

#### Tools Required

#3 Phillips tip  
#2 Phillips tip  
Pliers  
9/16 wrench  
1/2 wrench  
flush cutters  
stubby screwdriver handle recommended

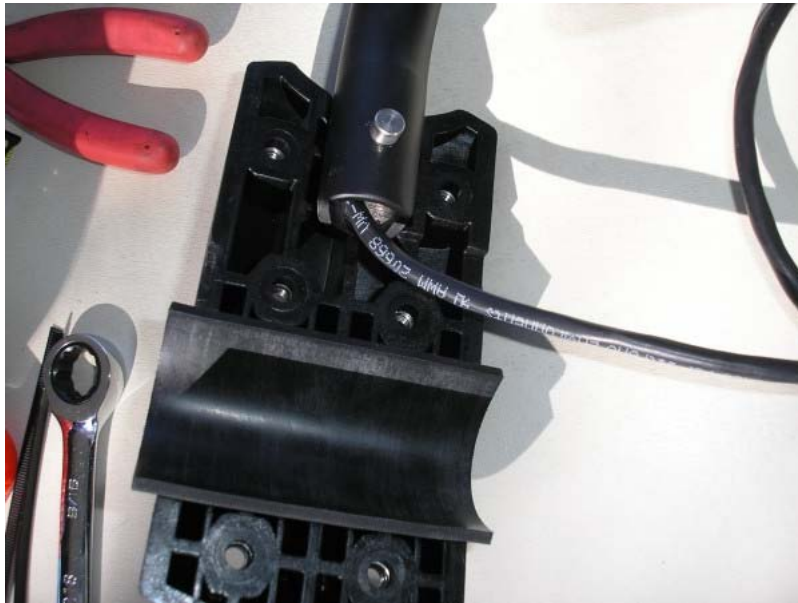
#### Prep the arm as shown.



1. pull the cable through the arm, leaving 8.5" from the white connector tip to the end of the pipe.
2. secure the cable to the mounting tab using 2 zip ties, with the zip tie heads on the side as shown.
3. install the switch in the back cover, with the wire leads pointing toward the semicircular cutout.
4. tighten the switch hex nut 1/4 turn using the 9/16 wrench, then tighten the back up nut with pliers.



## Pre-assemble the pin, arm and driver side clamp.



The driver side clamp is the one with the hex nuts. The cable should be on the top side of the pin as shown.

## Get your screws ready



Make sure you have a lockwasher and flatwasher on each as shown. The flatwasher may be pre-glued into the passenger side clamp.

## Clean the Steering Column



This is important for friction between the clamp and column.

## Test your hand-eye coordination.



Hold the driver side clamp in place with your left hand, while aligning the passenger side with your right.

Start screws but dont tighten yet.

## Position the clamp.



For consistency, place the clamp 4" from the steering wheel collar.

Make the arm perfectly level with the ground.

## Hang the unit.



Install the 4 back screws, make sure you have a lockwasher on each.

Plug the power cable into the back of the unit, make it click.

## Install the back cover.



Don't forget the lockwashers here.

## Tighten the screws.



Make sure the top of the Visage unit is perfectly level across.

Tighten the screws until you can't rotate the clamp around the column.

The gap between the 2 sides of the clamp should be even side to side and front to back.

If you are using a power drill, be sure to set the torque clutch low enough that you don't damage the plastic clamps.



**Verify that the cable is not pinched.**



There is an opening for the cable, make sure it is in there.

**Zip tie to steering column.**



3 zip ties evenly spaced.



## Route cable.



Pull cable through steering column flange as shown and pry up plastic floorboard.

## Pull cable under car.



This is the drivers side wheel well pictured.

**Run the cable under the car.**



This pic is taken from the driver side wheel well. You can see the cable and my screwdriver still.

**Cable under center of car.**



This pic was taken from the passenger side under the car. You can see the cable running from front to back. I ran it through the existing cable loop to minimize sagging.

**Make sure visage unit is powered off before connecting power.**



Off is with the toggle toward the driver side.

**Connect to battery.**



red to positive, black to negative

Gas car shown. On electric car, connect across the entire bank of batteries.

Zip tie cable securely such that it can not sag down below the car.



**Complete install.**



Verify unit powers on and set cart number, etc.