# Commercial 360° SurroundVUE™ System

# FLTW-3600

| Recommended Tools | | | | Difficulty Level |
|---|---|---|---|---|
| Wrench | Wire Strippers | Wire Cutters | Electrical Tape | |
| Screw Driver | Panel Removal Tool | Zip Ties | Socket Set | Install Time |
| | | | | 5hr - 8hr 30m |

Questions? Call the Brandmotion technical support line at (734) 619-1250 or CLICK HERE

## Kit Contents

| | Components for installing the ***FLTW-3600*** |
|---|---|

**Kit Contents:**

- 7x Video Harnesses
- 3x Power Harnesses
- 1x Display Monitor
- 1x Monitor Housing
- 2x Monitor Housing Mounts
- 2x Monitor Housing Base Plates
- 1x ECU
- 1x Rotory Dial
- 4x Camera
- HDMI, USB, and Remote Antenna Cords

# Setting up Head Unit and 360° ECU

## Part 1 — Wiring the Display

1. Connect the 16-pin Radio Harness to the vehicle's factory harness following the pinout of your specific vehicle.

   Red & Pink = Accessory
   Yellow = Battery
   Black = Ground
   Orange = Parking Lights (optional)
   No other wires will be used

2. Connect 16-pin Display Harness to Display.

3. Make sure the Head Unit powers on before proceeding. Note: Black screen with small box will appear if working properly.

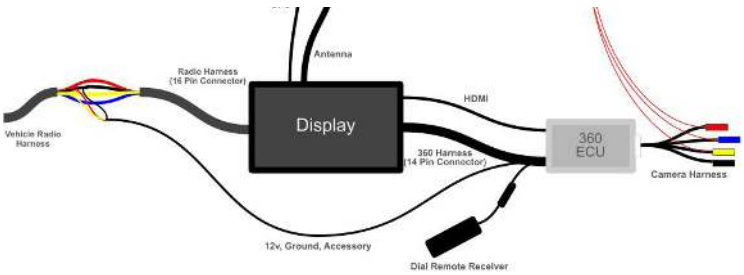
| Pin | Wire Color | Function |
|---|---|---|
| 1 | Black | Ground |
| 2 | Red | Accessory |
| 3 | Pink | Reverse Trigger |
| 9 | Yellow | 12V |
| 10 | Orange | Illumination |

## Part 2 — Wiring the 360 Harness

1. On the Camera Harness, connect Power (yellow), Ground (black), and Accessory (red) to vehicle harness (See diagram).

2. Tape up the white wire and RCA cables from Camera Harness.

3. Attach Camera Harness to 360 ECU.



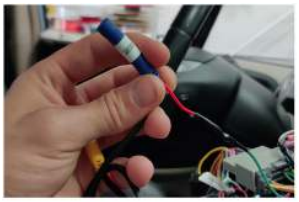

System Wiring Birds-eye View

# Cameras and Running Wires

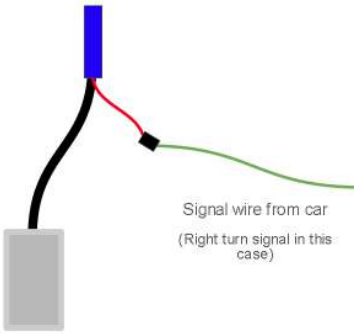
## Part 1 — Signal Wires (Left Turn, Right Turn and Reverse)

1. According to your specific vehicle, locate and tap into the reverse signal wire and left and right turn signal wires.

2. Connect Reverse signal and Left and Right turn signal wires to the Red wire at the end of the corresponding camera inputs for each on the Camera Harness.



Left, right, rear connectors have a trigger wire. These are to be wired to turn signals (left and right) and reverse light signal.



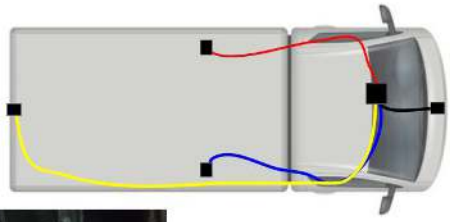

## Part 2 — Mounting the Cameras

1. Determine the desired locations for the four cameras. All cameras should be able to see the edge of the vehicle at the bottom part of the field of view.

   Front Camera = Top of the grill
   Left & Right Camera = Top of the vehicle at the length midpoint
   Rear Camera = Top center of the vehicle

2. Drill 1/4in hole in the vehicle at each proposed camera location to run the wire. Note: Check to ensure there is nothing behind your drill location and you can access the other side.

3. Unscrew the three screws holding the camera within the housing. Note: if you would like to change the location of the camera wire to exit the housing location at the base plate do that now.



Camera Harness
(Plugged into 360 ECU)

Run camera wires through the vehicle first. Kit comes with color matched extensions.

| Connector | Camera |
|---|---|
| Red | Left |
| Blue | Right |
| Yellow | Rear |
| Black | Front |

# Installing Head Unit and 360 Computer

## Part 1

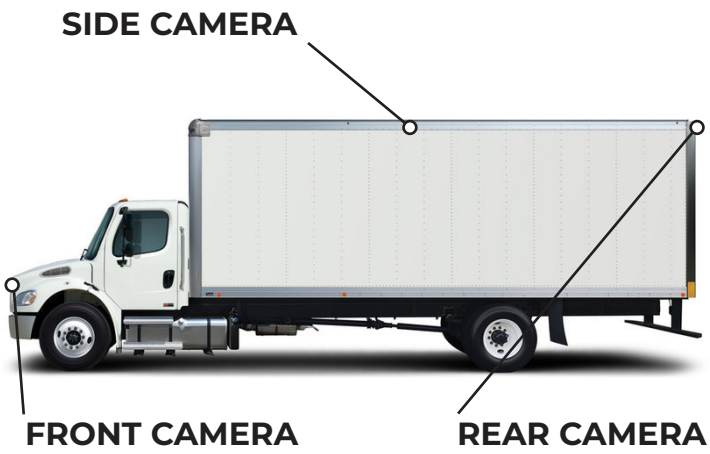
4. Place the housing base plate either slightly below the drilled hole or have the top hole over top of the drill point, depending on your camera wire preference. Using two screws attach the base plate to the vehicle.

5. Run the camera wire through the drilled hole and assemble the camera & housing. Note: The camera has an arrow by the lens, this arrow must be on top.

6. Run camera extension wires through the vehicle from each camera to the 360 ECU location.

   Red Connector = Left Camera
   Blue Connector = Right Camera
   Yellow Connector = Rear Camera
   Black Connector = Front Camera

7. Connect each camera extension wire to Camera Harness according to color.



# Installing Product

## Part 1 — Connecting the ECU & Display

1. Connect HDMI cable to the 360 ECU and Display.
2. Plug 360 Harness into the leftmost slot on 360 ECU, leaving the rightmost 4 pins empty, then the other small 10-pin connector into the Display
3. Plug in Dial Remote Receiver into the 3.5mm jack.

## Part 2 — Mounting the Display to the Housing

1. Place the Display within the housing, and screw in from the back using the provided M3 screws.

# Installing Product

## Part 3 — Mounting the Housing in the Vehicle

1. Decide where in the vehicle you would like the display to be mounted, there are three options for the housing to be installed. Each require the connector plate to be screwed in a different location on the housing using the provided plastic biting screws.

   On top of the dash (see image 1)
   On the front of the dash (see image 2)
   From the headliner (see image 3)

2. Once your location is decided, use either the stationary base plate or the swivel base plate. Use the provided long screw and nut and attached the connector plate to the base plate.

3. Attach the base plate to your preferred location using 4 screws.

## Part 4 — Mounting the Rotary Knob

1. Clean the back of the knob with alcohol & attach double sided industrial tape

2. Mount the knob wherever is prefered by the driver. Note: the knob battery cover slides off, ensure the mounting orientation is such that the knob slides down onto the cover.

# Calibration

## Part 1 — Preparing for Calibration

1. Use either the calibration mats, or create our own by cutting 3' x 3' squares in a color that contrasts the floor.
2. Place the interior (vehicle facing) edge of the squares in line with the exterior edge of the vehicle. The squares will need to be fully visible on each of the side cameras.
3. It is recommended to have the mats lay flat during the calibration process to ensure an accurate reading.
4. Navigate to the "SETTINGS" icon on the far right of the selectable camera perspectives.
5. Select "Calibration" from the left menu, then select "Edit" next to the Calibration option.

## Part 2 — Digital Calibration

1. Select the 4 square calibration mat option
2. Check the camera images to ensure that two target squares are clearly visible in each image.
3. Enter the vehicle length and width in centimeters.
4. Continue entering vehicle measurements in the the calibration menu. When complete, press "Calibration" to advance to the next step.
5. Auto calibration will occur, but in the case that one of the points fails. Manual splicing will be required, if this is the case follow the prompt to begin the manual calibration process.

# Calibration

## Part 1 — Preparing for Calibration

6. Using the touch screen, move each crosshair on each corner of the calibration target. The order should be as shown in the reference image.

7. When the crosshair is on the corner of the mat, press the "next" icon to highlight the next crosshair. Do this through all locations on each corner and all sides of the vehicle.

8. Continue through the calibration setup. When finished, press the "Advance" button. Calibration is now complete.