

# User Manual

## 6200 Video Overlay

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## 6200: Video Overlay System

The Outland Technology 6200 video overlay adds overlay and camera control (requires pan and tilt or zoom/focus camera) to the CON-3500/3700 HD Video Systems.



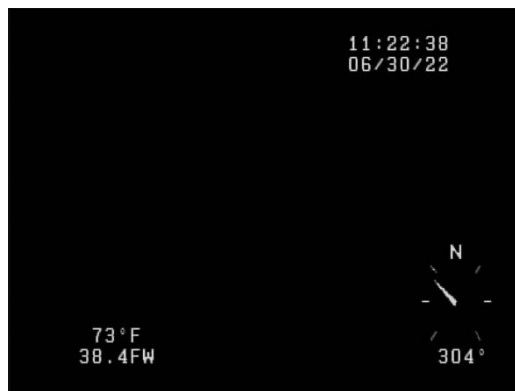
# Hardware Set Up

1. Connect DB15 (gray connector) to console DB15
2. Plug USB keyboard to 6200 USB port
3. Connect Smart Camera to console Diver 1 port
4. Power Diver One Camera

Note: When using CON-3500/3700 Consoles the video out port does not need connected. In addition, only Diver One has video overlay.

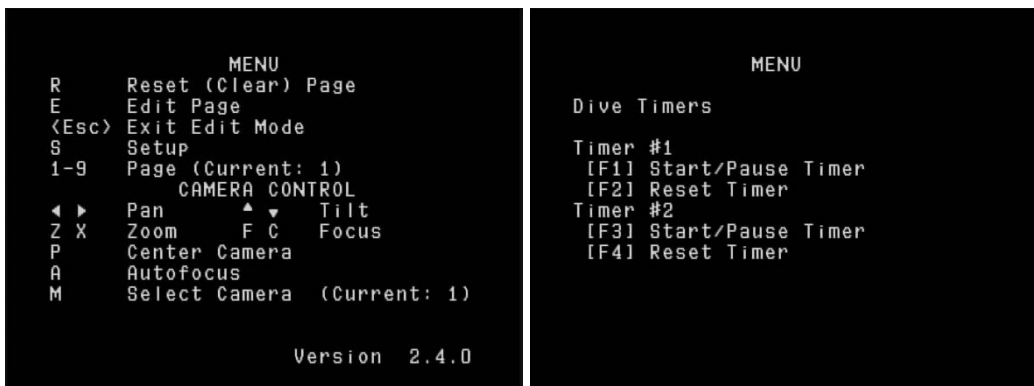
# Software Setup

The typical OTI Smart Camera overlay setup is shown below. Please note that for this guide video is not being display for additional clarity.

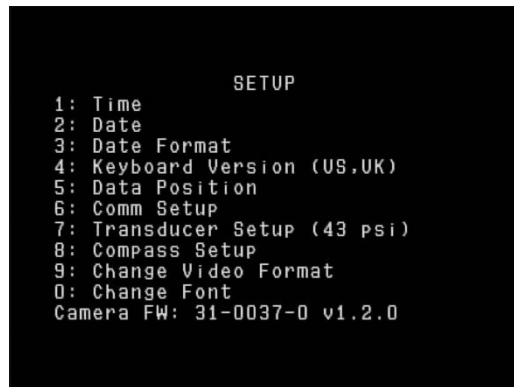


Using a USB keyboard connected to the 6200 Overlay press the H key to display the help menu. This displays the available key options accessible from the main view (image above). The overlay version is also displayed on this menu. Pressing any key will display a second menu for dive timer keys.

Note: the key press is not case sensitive.



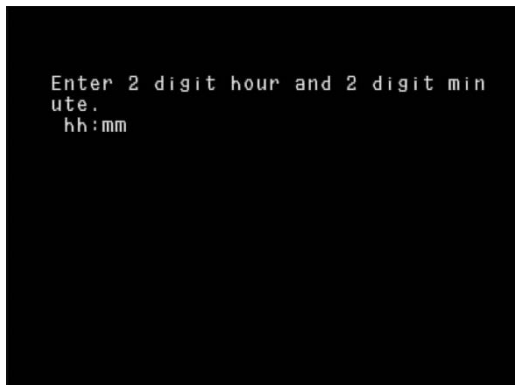
# Setup Menu



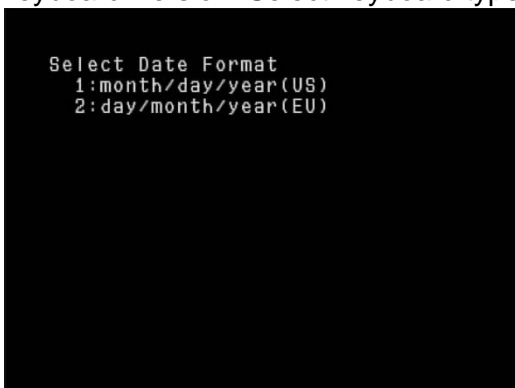
The above Setup menu is displayed when the S key is pressed. Below is a description of each option. If a camera is connected and communicating to the overlay it's firmware version will be displayed at the bottom (requires an OTI Smart Camera, PTZF or MPT Camera).

1. Time: Set the overlay time. Displayed in 24hr time.
2. Date: Set the overlay date

Note: Time and date are on a battery backup. If the time and date not being stored between power cycles the battery may need replaced. The battery can be replaced with a 3V CR1220.



3. Date Format: Set Date format selects the desired display format
4. Keyboard Version: Select keyboard type.



5. Data Positions: Select data and position to be displayed on overlay.

- a. Select Desired position by pressing key associated with position.

```
[A]:Empty      [B]:Time
[C]:Empty      [D]:Date
[E]:Empty      [F]:Empty

      (Select Position)

[G]:Empty  [H]:Empty  [I]:Empty
[J]:W-Temp [K]:Empty  [L]:Empty
[M]:Depth  [N]:Empty  [O]:Empty
```

- b. Example: Pressing J will display the data selection options. Select the desired data by pressing the associated key. Example press 8 to display the water temperature.

Below are descriptions of the data options.

- 0: clear data
- 1: Display current time
- 2: Display current date
- 3: Display current depth in selected units. (Requires OTI Smart Camera)
- 4: Display CP 1 voltage
- 5: Display CP 2 voltage
- 6: Display Digital Pressure Sensor ADC voltage (Requires OTI CP Probe System)
- 7: Display Compass heading value (Requires OTI Smart Camera)
- 8: Display water temperature (Requires OTI Smart Camera)
- 9: Display pressure in PSI (requires OTI Smart Camera)
- A: Dive Timer 1 (Refer to Dive Timer section)
- B: Dive Timer 2 (Refer to Dive Timer section)

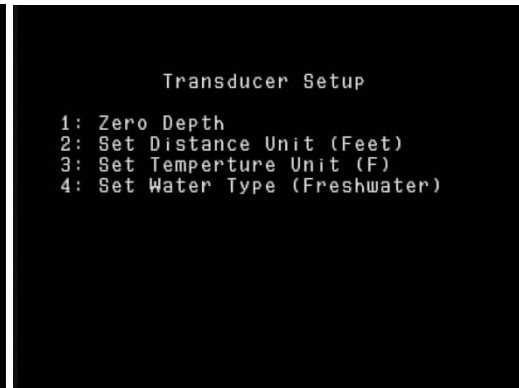
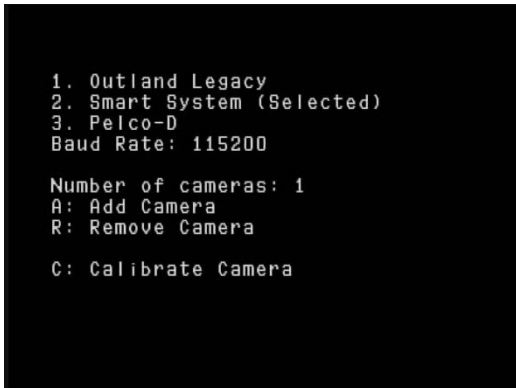
```
[A]:Empty      [B]:Time
[C]:Empty      [D]:Date
[E]:Empty      [F]:Empty

      Select Data for Position J

      [0]:Empty  [6]:DSV
      [1]:Time   [7]:Compass
      [2]:Date   [8]:W-Temp
      [3]:Depth  [9]:PSI
      [4]:CP1    [a]:Timer1
      [5]:CP2    [b]:Timer2

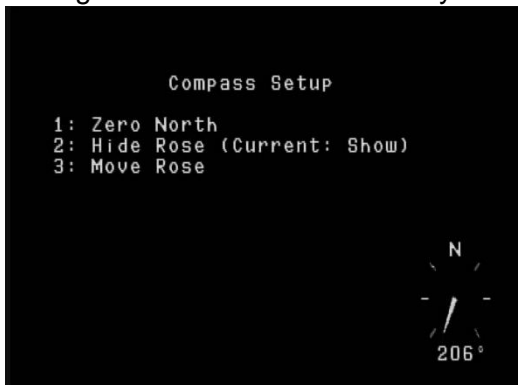
[G]:Empty  [H]:Empty  [I]:Empty
---Empty---[K]:Empty  [L]:Empty
[M]:Depth  [N]:Empty  [O]:Empty
```

6. Comm Setup: The comm setup is used to select the communication protocol. Outland cameras all default to Outland Legacy protocol except for the Smart Camera.
- The Pelco-D protocol can be used to control standard Pelco-D pan, tilt, zoom, focus cameras.
  - Use A or R key to add or remove additional cameras
7. Transducer Setup: This menu is used to zero the depth sensor at the surface, set the units and water type.
- a. In order to set the depth, follow the below procedure
    - i. Place camera at surface of the water.
    - ii. Press 1. Zero Depth.



8. Compass Setup: The compass menu is used to remove compass offset and display a compass rose.
  - a. The compass setup is used to zero the compass offset from North.
    - i. Hold camera facing north.
    - ii. Press 1. Zero North to set the North Position.
  - b. Press 2 to show or hide the compass rose.
  - c. Press 3 to move the rose across the bottom of the screen. Repeat until in the desired position.

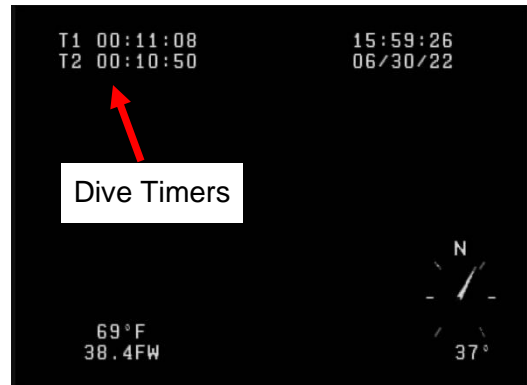
9. Change Font: Use the number keys to select the desired font



# Dive Timers

The 6200 video overlay system features two dive timers.

1. Setup dive timers to be displayed in desired location
  - a. Enter setup menu
  - b. Enter data positions menu
  - c. Select desired location then select dive time (repeat for dive timer 2 if desired)
  - d. Exit menu
  - e. Press F1 to start/Pause Dive Timer 1
  - f. Press F2 to reset Dive Timer 1
  - g. Press F3 to start/Pause Dive Timer 2
  - h. Press F4 to reset Dive Timer 2



Note: The Dive timers will continue to operate with no power to the unit.

# Text Overlay

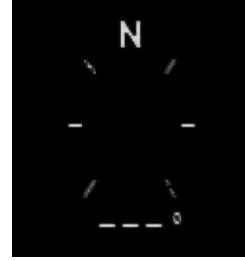
There are 9 pages of text that are selectable using the numbers 1-9.

1. On the desired page press the E key to edit the text.
2. Use the arrow keys to set desired position. Note: Text will not be displayed that overlaps data fields.
3. Enter desired text.
4. Press Esc key to exit.

# Smart Camera Setup Guide

1. Select the desired data to be displayed
  - a. Open Setup Menu
  - b. Select Option 5 in the Setup Menu
  - c. The available data options are:
    - i. Time
    - ii. Date
    - iii. Water Temperature
    - iv. Pressure
    - v. Depth
    - vi. DSV
    - vii. Compass Heading (will turn off if compass rose is enabled)
  - d. Exit Menu
2. Setup Smart Camera Comms
  - a. Open Setup menu

- b. Select Option 6 to open Comm Setup
  - c. Select Option 2. Smart System
  - d. Select Baud rate of 115200
  - e. Exit Menu
3. Enter Compass Setup
  - a. Show Hide Compass Rose
  - b. Exit Menu
4. Verify the selected data is shown on the screen.



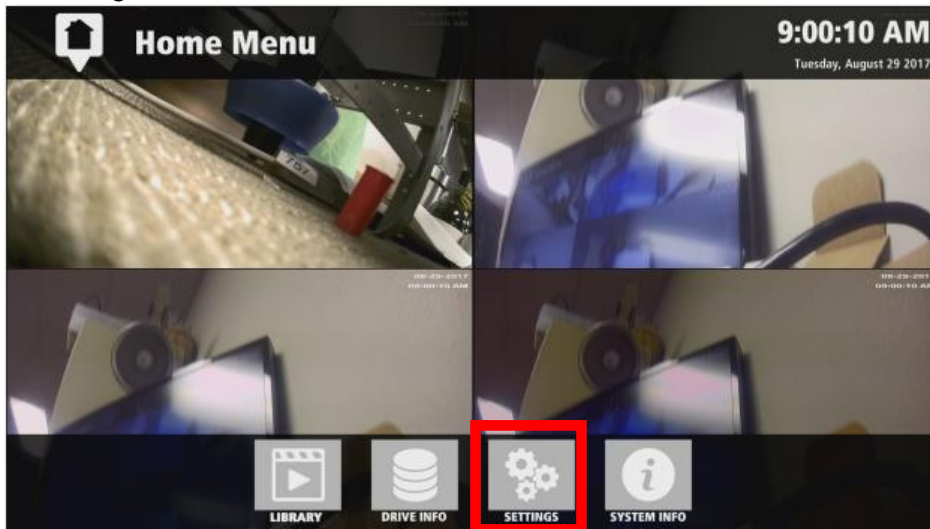
Note: The compass must be in the proper orientation to display a reading. If the value shown is three dashes rotate the camera until data is displayed.

5. Zero Depth
  - a. Open Transducer Setup Menu
  - b. Place camera at water surface
  - c. Press Zero depth
6. Zero North
  - a. Open Compass Setup Menu
  - b. Point camera North
  - c. Press Zero North

## DVR Setup

In order to display the overlay on the video the DVR first needs setup. Follow the below guide for details. If addition details are required, please refer to the DVR manual. Additional setup can also be found on the Outland Technology website ([outlandtech.com](http://outlandtech.com)).

1. Turn on camera 1 power
2. Put DVR into Quad display and verify overlay is visible on video channel 4.
3. Press the menu button or right mouse click
4. Select Settings Button

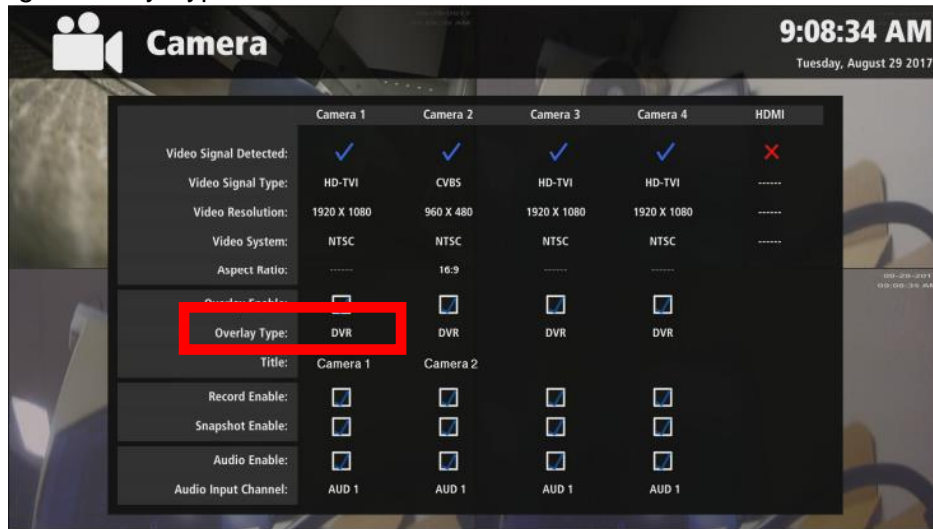




5. Select the Camera button



6. Change Overlay Type on Camera 1 to Camera 4

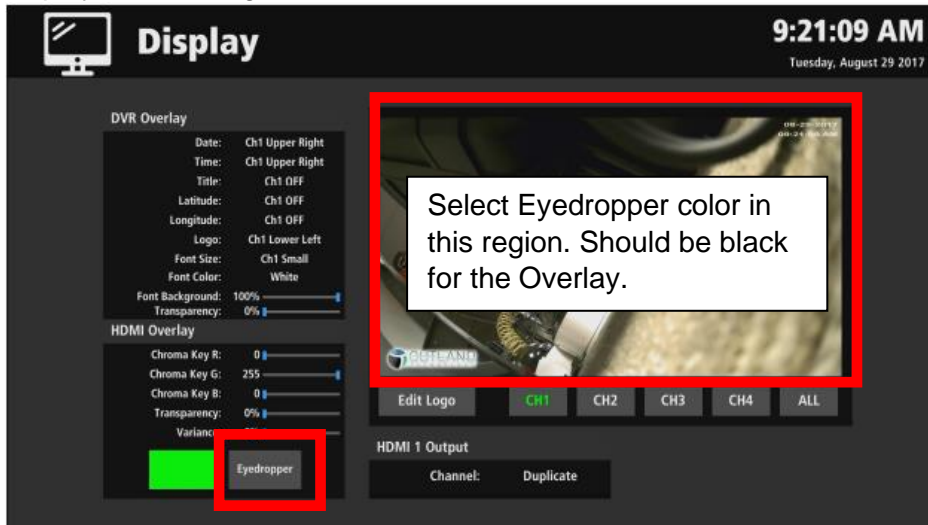


7. Exit Camera Menu: Press ESC or Right mouse click

8. Select the Display Button



9. Under HDMI Overlay Press the Eyedropper button and select a color (Black) in the displayed video region



10. Exit DVR menu (ESC or right click)  
11. The overlay should now be visible on Channel One with Video and Channel 4 with no video.