



38190 Commercial Court  
Slidell, LA U.S.A. 70458  
Ph.(985)847-1104, Fax 1106  
Email: [sales@outlandtech.com](mailto:sales@outlandtech.com)  
WEB: [www.outlandtech.com](http://www.outlandtech.com)

**VIDEO TIME/DATE,  
TYPEWRITER**

**MODEL 6100**

VIDEO TYPEWRITER, MODEL 6100 ("VO" Video Overlay)

I. Front and Rear panel controls and connectors,



**A. Keyboard connector,** USB type A, style Keyboard connects here.

**B. POWER,** "LED" is for power on/off indication only.

**C. POWER ADAPTER,** the power adapter, provided with the VO is to be plugged in here. The voltage is +12DC. The wall mounted transformer is to be plugged into a stable 115VAC source.

**D. VIDEO IN,** this BNC jack will accept a standard RS170 video signal 1.2VPP. Color or Black & White.

**E. VIDEO OUT,** this BNC jack is to connect to a standard video monitor. The video will not feed through without power on.

**F. DIP SWITCHES,** these switches are for future use and do nothing now.

## II. Typing on screen,

**A.** To use the Video typewriter a Camera is not needed since the 6100 will generate its own video. If using video, it must go through the VO then to a monitor. With everything plugged in and a Video picture showing on screen plug the Video typewriter in and a power up banner will appear.

**B.** After powering on the system the screen should go to page one "1". Anything in page ONE will be displayed as well as time and date. If it were on the screen when it was powered off.

**C.** Hit the "H" (help) Key and the main menu will appear on the screen.

**D.** Menu:

```

                                MENU
I      Intensity
R      Reset (Clear) Page
E      Edit Page
<Esc> Exit Edit Mode
S      Setup
1,2,3 Page

                                CAMERA CONTROL
< >  Pan
^ v   Tilt
Z X   Zoom
F C   Focus
A     Autofocus

                                Page: 1
                                GPS Mode
                                Version C 1.0
```

1) I; Hitting this key will bring up the following:



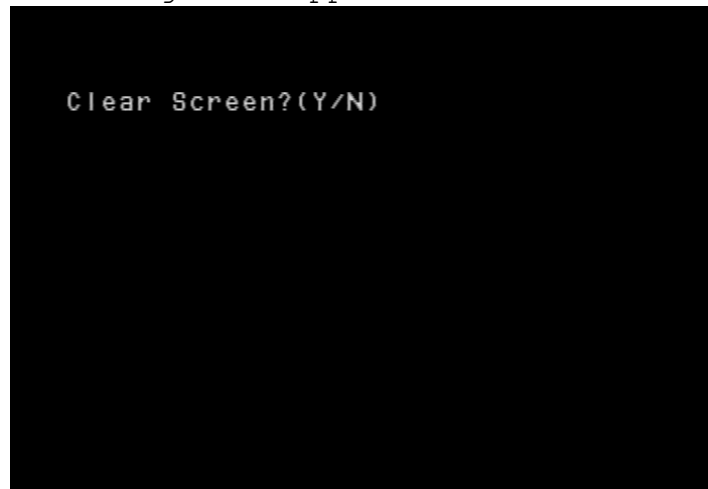
**SET INTENSITY LEVEL**

**1 MAX, 4 MIN,**

**5 BLACK (must have video input to see characters)**

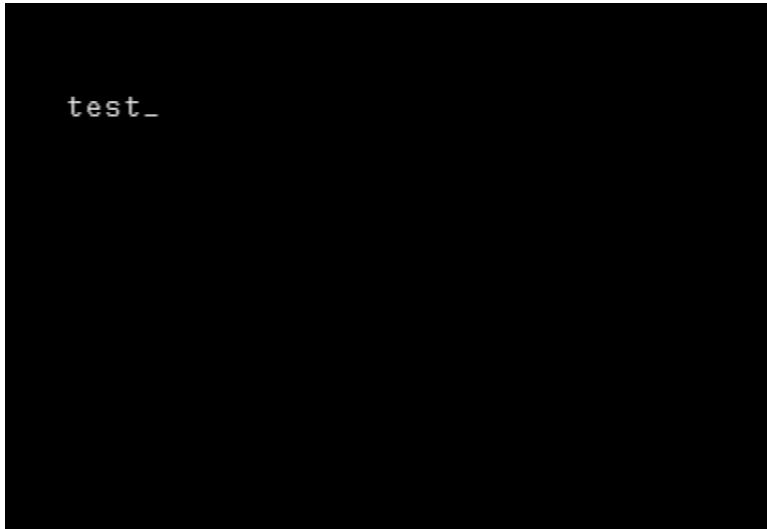
Default is 2. Play around with this and set for best display.

2) R; Hitting this key will clear only the page you are on  
The following will appear:

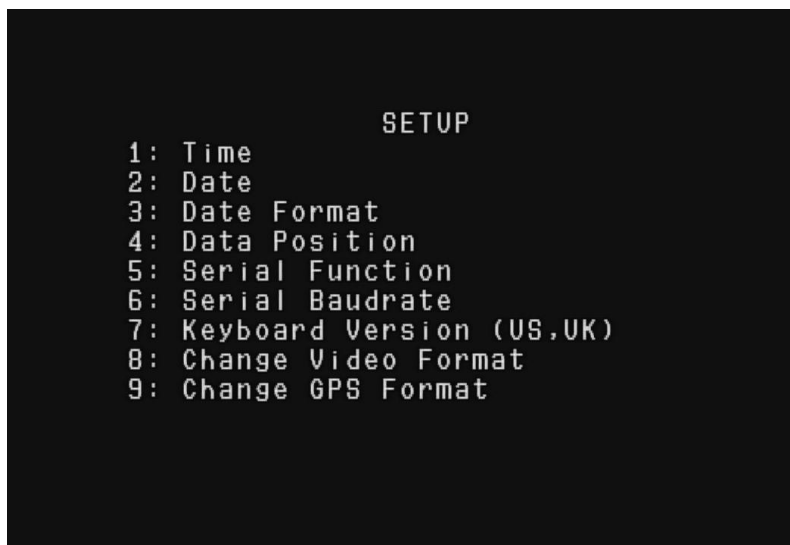


Select yes or no. The text will be cleared from the displayed page, but the time and date will remain on screen.

3) E; Go to the Page you want to edit by touching the number key (1-4). Touch the letter "E". This will bring you into the edit mode and you should see a Blinking cursor at the top left corner of the screen. Type in anywhere on the screen and when you finish hit the "ESC" key. The text will store in memory and the cursor will disappear.



4) S; Hit this key and the following will appear.



1. Set time
2. Set date
3. Formats date

4. Selects position of time/date etc.
5. Selects serial mode (if used, see addendum b)

```
                Select Serial Function

1: GPS Mode (NEMA)
2: ASCII Mode x,y,string
   x - Horizontal Position
   y - Vertical Position
   NTSC: x(0-33),y(0-15)
   PAL: x(0-33),y(0-18)
   String terminated by carriage
   return
3: OutLand1 Camera Control Mode

                Current Mode: 1
```


6. Selects data baud rate.

```
                SELECT BAUDRATE

1: 4800
2: 9600
3: 19200
4: 38400
5: 57600
6: 115200

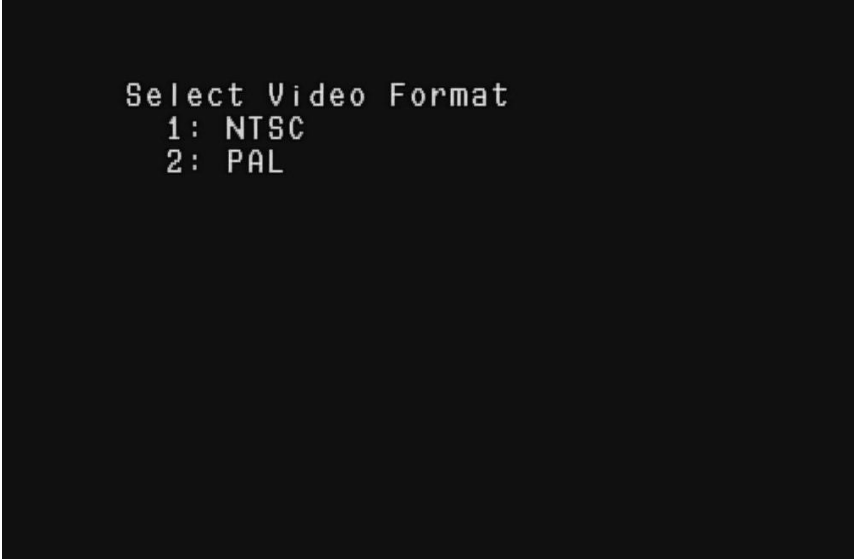
                Current BaudRate: 1
```

7. Selects keyboard version.



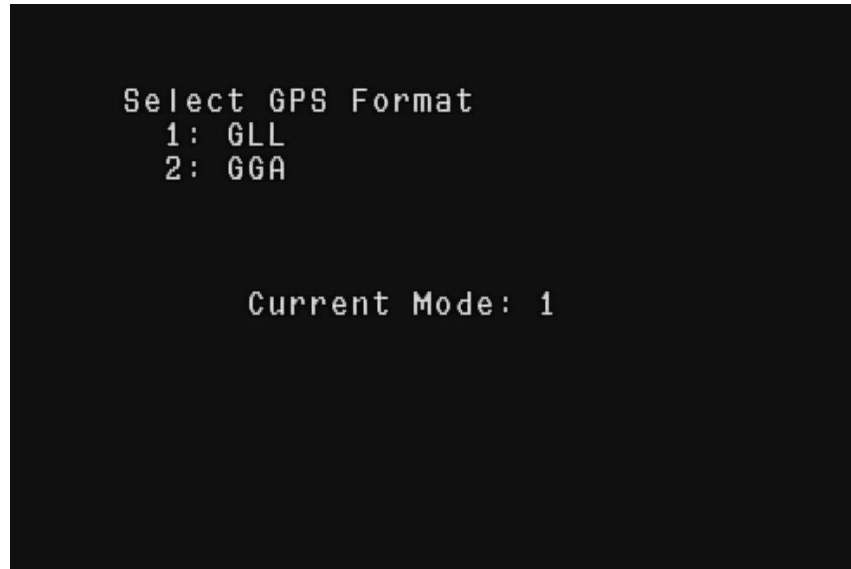
```
1: US keyboard
2: UK Keyboard
```

8. Selects NTSC or PAL video format



```
Select Video Format
1: NTSC
2: PAL
```

9. Selects GPS Format GLL or GGA



5) 1,2,3; Hit this key and pages 1,2 or 3 will appear.

### III. Specifications:

Size..... 1.5"h x 4"w x 5.5" 1  
Power..... 12-16 VDC @ 100 ma.  
(115vac wall mount PS supplied)  
Video Interface..... 1-1.5 VPP in/out (PAL or NTSC)  
Keyboard..... USB Type A (Supplied)  
Display..... Time/date, 3 pages of text  
each page 16 lines x 34 columns  
Interface connector... DB9 connector on front panel  
for RS232 or RS485 communications  
(see Addendum B for DB9 pinout)



## Addendum A CAMERA CONTROL

If using the 6100 for controlling Outland cameras select option #3 from the **SELECT SERIAL FUNCTION** screen.

The 6100 should be connected to pins D and E on the umbilical connector to control Outland cameras requires external control. If connecting the 6100 to one of our cameras, connect the camera control leads as follows:

The 9 pin "D" connector on the front of the unit is wired as follows: Pin 7 is Data +, Pin 8 is Data -. This output is RS-485 differential. It can be run with unshielded cable to 10,000 ft.

To control a camera the following keys are used:

Up/Down Arrow	Controls camera tilt up/down
Left/Right Arrow	Controls camera pan left/right
"Z" = Zoom Telephoto	
"X" = Zoom Wide	
"F" = Focus Far	
"C" = Focus Near	
"A" key = Auto-Focus on/off	

**Addendum B "DB9" CONNECTOR PINOUT**

If using the 6100 as an RS232 input device to display GPS or computer ASCII data, select #1 for GPS mode or #2 for ASCII mode from the **SELECT SERIAL FUNCTION** menu. Select the correct baud rate from the **SELECT BAUDRATE** menu for the application.

Connect your device to an RS232 device using pins 2, 3 and 5 of the front panel DB9 connector. We recommend that the interconnecting cable use only these pins for RS232. Remember that the 6100 RS232 TX pin should connect to the RX pin of the device it's connected to. Likewise, 6100 RS232 RX to the device's TX pin.

Note: In ASCII mode (x,y,string) please terminate the string with a line feed (0x0a) character or carriage return (0x0d) and line feed (0x0a).

