



OUTLAND TECHNOLOGY INC.

38190 Commercial Court

Slidell, LA U.S.A. 70458

Ph.(985)847-1104, Fax 1106

Email: sales@outlandtech.com

Website: www.outlandtech.com

**VIDEO TIME/DATE,
TYPEWRITER**

MODEL 5100A

MAY 19, 1999

DOC# 0010780

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If you have any questions regarding the installation and operation of this equipment, or if more information is needed contact:

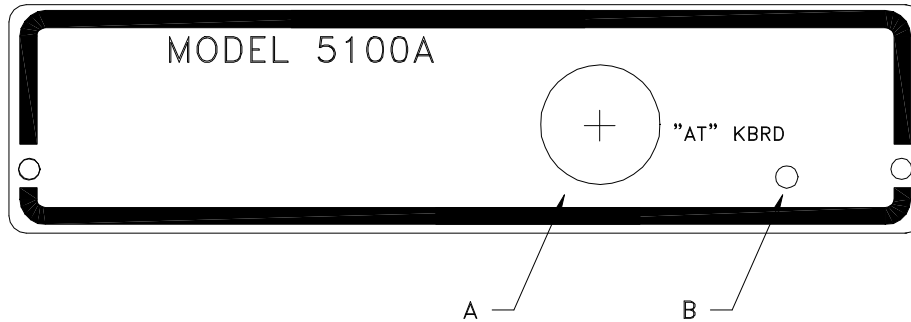
OUTLAND TECHNOLOGY, INC.,
38190 Commercial Ct.,
Slidell, LOUISIANA, U.S.A. 70458
(985)847-1104 FAX (985)847-1106
(Email) sales@outlandtech.com
(Website) <http://www.outlandtech.com>

VIDEO TYPEWRITER, MODEL 5100A

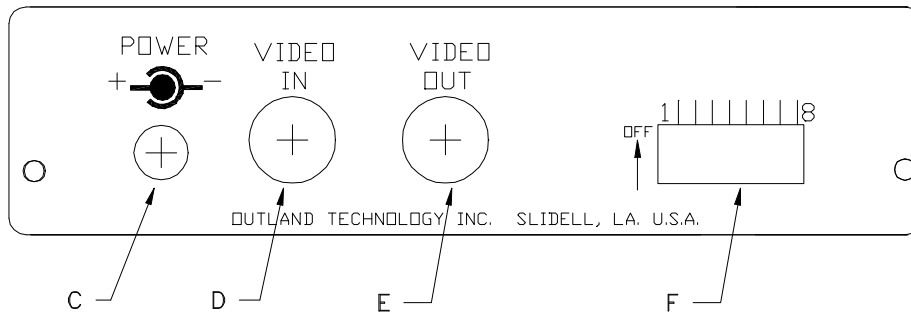
I. SYSTEM INITIAL START-UP,

A. Front and Rear panel controls and connectors,

FRONT PANEL



REAR PANEL



A. **Keyboard connector**, IBM, AT style Keyboard connects here.

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

C. **POWER ADAPTER**, The power adapter, provided with the VPM 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 jack will accept a standard RS170 video signal 1.2VPP. Color or Black & White.

E. VIDEO OUT, This jack is to connect to a standard video monitor. The video will feed through, if the VPM is powered off, from the Video in jack. When the VPM is powered on the video signal level may change slightly but the data will be superimposed on the video.

F. DIP SWITCHES, These switches control the Video ruler lockout functions. See page 4.

II. Typing on screen,

A. To use the Video typewriter a complete video system must be used. The video must go through the Model 5100A 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 zero "0". Anything in page zero will be displayed as well as time and date, if it were on the screen when it was powered off.

C. Hit the "H" Key and the main menu will appear on the screen.

D. Menu:	(KEY) (FUNCTION)
	E EDIT PAGE 0
	C CLEAR PAGE 0
	T TIME OFF
	D DATE OFF
	S SET TIME
	R RESET SYSTEMS
	P SCALE (Ruler)
	X Cross Hair (Pointer)
	M Camera Mode
	I SET INTENSITY

1) E; Go to the Page you want to edit by touching the number key. 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.

2) C; Go to the page you want to clear and hit the letter C. The following will appear:

**ARE YOU SURE YOU WANT TO
CLEAR PAGE 0 ? (Y/N)**

This will clear the page of all characters except the time and date. Select yes or no.

3) T; Hitting this key will turn the time either on or off.

4) D; Hitting this key will turn the date either on or off.

5) S; Hitting this key will allow you to set the time and date. The following will appear:

**(12,51,5,21,99)
ENTER HR,MIN,MONTH,DAY,YEAR**

Input the time and date as shown with comas between each item.

6) R; Hitting this key will clear all pages. The following will appear:

**ARE YOU SURE YOU WANT TO
CLEAR ALL MEMORY ? (Y/N)**

Select yes or no. The time and date will remain on screen.

7) P; Hitting this key will cause the Video Ruler to appear on the bottom of the screen. The Video typewriter time date features will continue to operate. The active keys to use this feature are:

"0", sets scale factor. 1=1, 2=2, 3=3, etc. for every tic mark. Minus for tic marks to the left and + for each tic mark to the right. The digital display below and to the left of the scale is where on the Ruler the cursor marker is in relation to the center of the scale.

"Left Arrow" Key moves the cursor to the left on the ruler.

"Right Arrow" Key moves the cursor to the right on the ruler. The digital display moves up and down as these arrow keys are used.

"Home" Key moves the ruler tic marks wider.

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"End" Key moves the ruler tic marks closer.
"Page Down" moves the center (offset) of the ruler Left.
"Page Up" moves the center (offset) of the ruler Right.

To use this feature set the scale factor for the required measurement. Move the center (offset) of the ruler to the center of the item to be measured. A reference must be used to accurately measure with the Video Ruler. If Laser dots are used then scale the ruler to those dots. Once the ruler is scaled using the "end" and "Home" Keys, use the arrow key to show the measurement.

To lock the Ruler so the scaling can not be changed you must turn off the dipswitches, on the rear, as indicated.

- a) Use switch #1 to lock out the ruler offset.
- b) Use switch #2 to lock out the ruler spacing.
- c) Use switch #3 to lock out the ruler scaling, "0".

8) X; Hit this key and a Crosshair will appear on Screen. Use the cursor keys to move the crosshair (Video Pointer) around the screen. In this mode the Scale will disappear. The time and date will remain on Screen and all page functions will work also.

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

SET INTENSITY LEVEL
0 MIN, 15 MAX >

Default is 3. If you enter 0 then the characters will turn black. If 14 or 15 are entered then the character will probably be a little too bright. Play around with this and set for best display.

10) M; Hit this key and the camera control menu will appear. See Appendix A for details about this function.

Note: When in the Crosshair or Scale mode you can go to Camera mode by hitting any key not used to operate those functions. Example: Space Bar.

III. Specifications:

Size..... 1.5"h x 5.5"w x 7.5" l
Power..... 12-16 VDC @ 250 ma.
(115vac wall mount PS supplied)
Video Interface... 1-1.5 VPP in/out (PAL or NTSC)
Keyboard..... IBM AT Type (Supplied)
Display..... Time/date, 10 pages of text
each page 20 lines x 40 columns

Appendix A.

When the 5100A powers up it is in the camera control mode for camera "0".

The 25 pin "D" connector on the front of the unit is wired as follows: Pin 12 is Data +, Pin 13 is Data -. This output is RS-422 differential. It can be run with unshielded cable to 10,000 ft. It connects to our Multi-link receiver boards as indicated on the circuit board.

Multi Camera control,

Hit the "M" key and select which camera to control. If several cameras are connected to the serial data line each camera must be set to a different address. See Appendix B for details.

To control a camera the following keys are used:

Up/Down Arrow	Controls camera tilt up/down
Left/Right Arrow	Control camera Pan left/right
"Home" =	Zoom Telephoto
"End" =	Zoom Wide
"Page up" =	Focus Far
"Page down" =	Focus Near
"+" key =	Auto-Focus on/off

By touching these keys the Multi-link receiver board will ground the corresponding pin on the receiver board mark with the capital letters.

Multi-link receiver.

The P pin is for power. If receivers are used with the address selector and you wired a relay to the "P" pin the camera can be turned off when another camera is selected. You could also turn the video on/off so several cameras could used the same coax and you select the camera to send up video. You could have control of up to 10 cameras with the 5100a.