



**TTY VIDEO DISPLAY**

**DVC 32**

**MANUALE D'ISTRUZIONE  
INSTRUCTION MANUAL**

1-2

TECHNOTEN

NOTES

## 1-3 TECHNICAL SPECIFICATIONS

<b>Output at Video Frequency</b>	2.5 Vpp on 75 ohm.
<b>Band-width</b>	Approx. 6.2 MHz
<b>Synchronization</b>	At high frequency stability with oscillation xtal. « E » Type - Standard TV 625 lines « A » Type - Standard TV 525 lines
<b>Modulation</b>	Amplitude modulation: Withe level at 2.5V; Black at 1V, and of synchro at approx $\emptyset$ V.
<b>Characters</b>	Matrix 7 x 9 (63 spots) a distance of 2 spots between characters; a distance of 7 lines between each line of characters (type «E »), (Type « A »).
<b>Pagination</b>	32 characters per line. 16 lines per page. 2 pages, (of which one is recallable).
<b>Presentation</b>	Characters selectionable: White on black - Black on white.
<b>Cancellation</b>	Possibility of cancellation, upon the request of the operator, of all the contents of the two pages.
<b>Return</b>	Automatic flyback after 32nd letter of each line or upon input signal received, with the possibility of introduction of the orthographic corrector (flyback) for a space control after the 24th letter), and also with, the possibility of suppressing the input, signal of Return so as to increase the coefficient filling of the page.

**Change-over from letters to numbers**

Other than for the change-over upon the signal being received, there exists the possibility of manual or automatic intervention.

**Position Indicator**

A short horizontal dashed line indicates the position of the successive character, which facilitates the pagination and column formation.  
This part is not included in the apparatus destined only for receiving purposes.

**Telegraphic Speed**

Selectionable speed w/xtal control, between the standard at present in use: 60-66-75-100 WPM (equal to 45.45-50-56-75 BAUD), with the possibility, upon request, of any other speed.

**Input**

Self-adaptive for currents of 20 to 80 mA without condition for polarity. Connection by means of an optoelectric element. Insulation of more than 500 V.  
Adapted for use of lines of double-current.

**Power**

In A.C. of 115 or 230 V. 50/60 Hz.  
Consumption approx. 20 VA.

**Versions Available**

" E " - Standard TV 625 lines.  
" A " - Standard TV 525 lines.

**Measurements**

2 3/4" x 15 1/4" x 11 3/4 (70 x 386 x 299 mm.)

**Weight**

13 1/4 lbs. - 6 Kgs.

## PART II INSTALLATION

### 2-1 UNPACKING

Remove carefully the processor from its packing case, controlling that the same has not been damaged, in which case, notify immediately the fact to the carrier, retaining the packing material, so as to verify if possible the cause of the damage.

The processor does not have particular requirements for its installation, it is, however, advisable not to place it near a source of heat.

To make the warranty valid, complete the postcard and send it immediately, or however within 8 days after receiving the apparatus, to TECHNOTEN, so as to assure it becoming effective. Returned merchandise cannot be accepted without prior notice.

### 2-2 POWER REQUIREMENTS

The apparatus are supplied so as to be connected to a A.C. network of 220V. 50/60 Hz. Having to arrange the use of a A.C. network of 115/125 V 50/60 Hz., you have to proceed as follows:

After having removed the top cover, locate on the power supply terminal board the wires joined to the « 220 » rheophores and change each one of them to the nearest « 125 » rheophore substituting the 100 MA fuse with one of 220 MA.

Replace the cover and retighten the six screws previously removed.

### 2-3 CONNECTION TO TTY LINE

The DVC can be used by itself, in conjunction with other electromechanical machines, such as teleprinters and perforators, etc... or in conjunction with electronic machines such as the TECHNOTEN KB1 - KB2 keyboards or similar, generators of test signals TECHNOTEN FOX 1 or similar, etc...

On the back of the apparatus is available a terminal cable with a jack and also a jack plug, which are in series.

The series is of a shorting type in the event the correct jack is not inserted. The cable must be connected to the information line without condition of polarity. The above is for what concerns the lines of a single-current system.

With the lines of a double-current system you have, after having removed the top cover, to work on the input buffer terminal board and after having assured that the line is keyed, watch the monitor screen, fixing a shorting between the rheophores A and B or B and C, and upon having determined in which position you have the apparatus operating, cut off the power and the connection towards the line, being sure to effectuate fixed connections between the located points.

## 2-4 CONNECTION TO OTHER MACHINES

In having to use the DVC in conjunction with electromechanical or electronic machines, it will be sufficient to connect these to the jack plug on the back of the apparatus.

## 2-5 CONNECTION TO MONITOR

On the back panel fig. 1-3 there are available, in parallel, two phono-plugs marked OUTPUT. The use of one or the other is indifferent.

Insert into one of these plugs the monitor connection cable, the other plug will remain at the disposal for an eventual second monitor or for the charging resistance, whenever its use is deemed necessary.

### ATTENTION

It is pointed out that such resistance (75 ohm  $\frac{1}{4}$ W, which is strongly recommended to be used) is applied whenever the monitor is not provided. It is preferable for the application of the same to be made on the monitor.

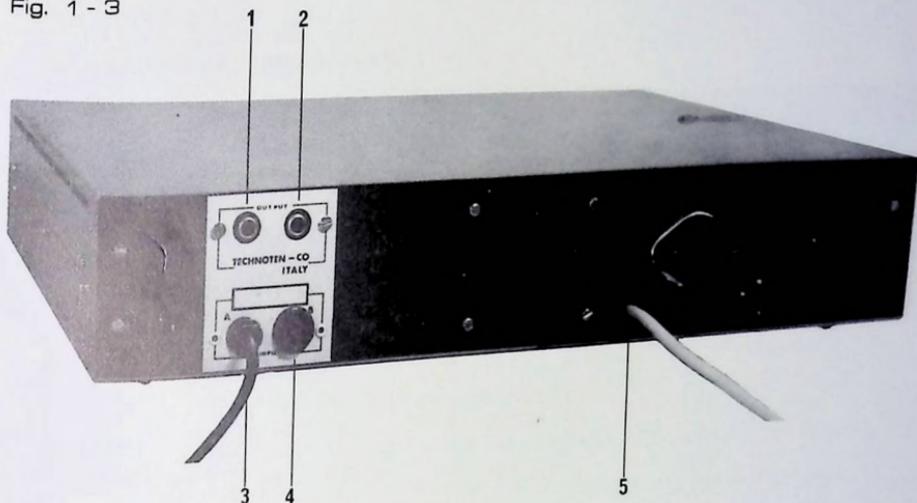
## 2-6 USE OF DOMESTIC TV AS MONITOR

Granted that all televisions are suitable to be transformed into monitors, it is pointed out that the essential condition is that the said televisions be provided with a POWER TRANSFORMER UNIT (AND NOT AN AUTO-TRANSFORMER) AND DO NOT HAVE A NETWORK CONNECTION JOINED TO THE CHASSIS.

The modification consists in disconnecting the signal and let into the video amplifier the signal coming from the DVC. The addition of an eventual commutator permits a quick change from TV into monitor.

This modification is very simple and can be carried out by any TV technician.

Fig. 1 - 3

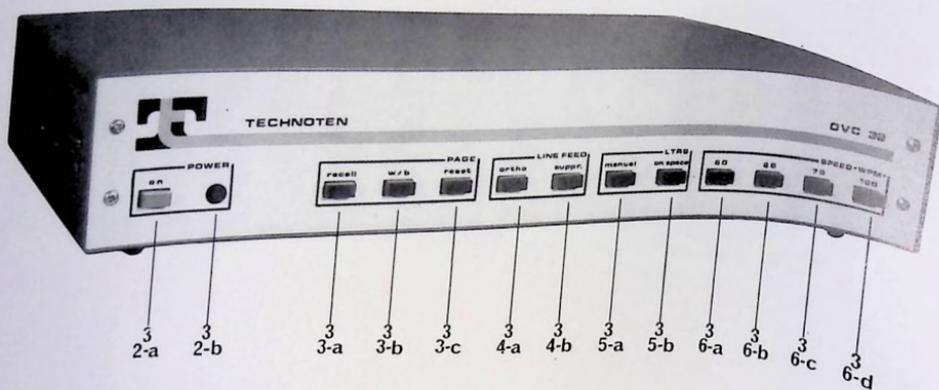


- 1 - 2 Output (Phono plug)
- 3 Input (Cavo con jack)
- 4 Input (Presa jack)
- 5 Alimentazione 115-220 V. C.A. 50/60Hz

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Note

Fig. 3-1




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Note

**PART III  
INSTRUCTIONS FOR USE**

**3-1 DESCRIPTION OF FRONTAL PANEL**

The control pushbuttons on the frontal panel - Fig. 3-1 - are joined in operational groups as follows:

**START**

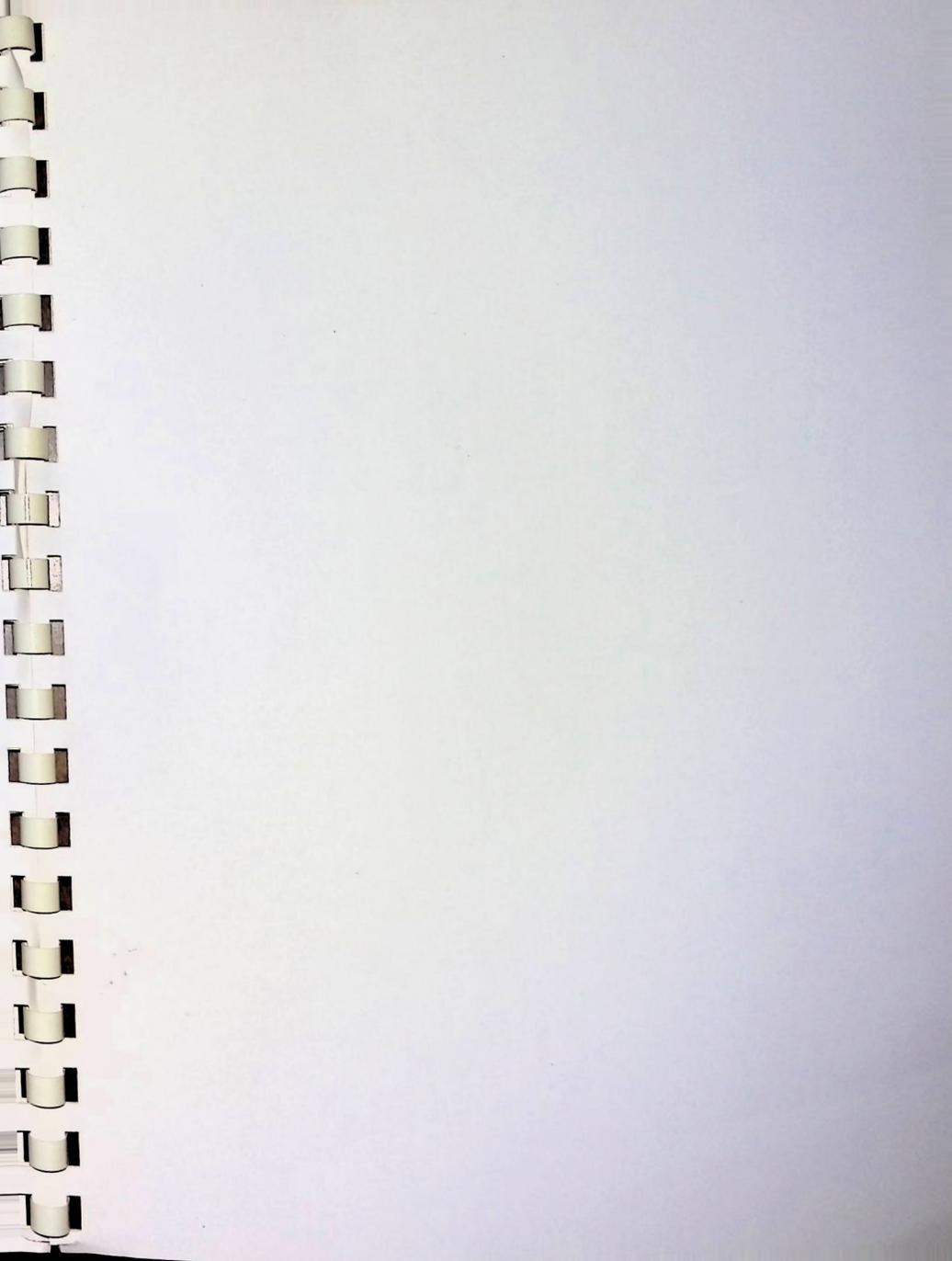
- 3-2a) On** This controls the start of the apparatus; indicated by the relative indication warning light (3-2b).
- 3-2b) Indication  
Warning  
Light** This light indicates the starting of the apparatus.

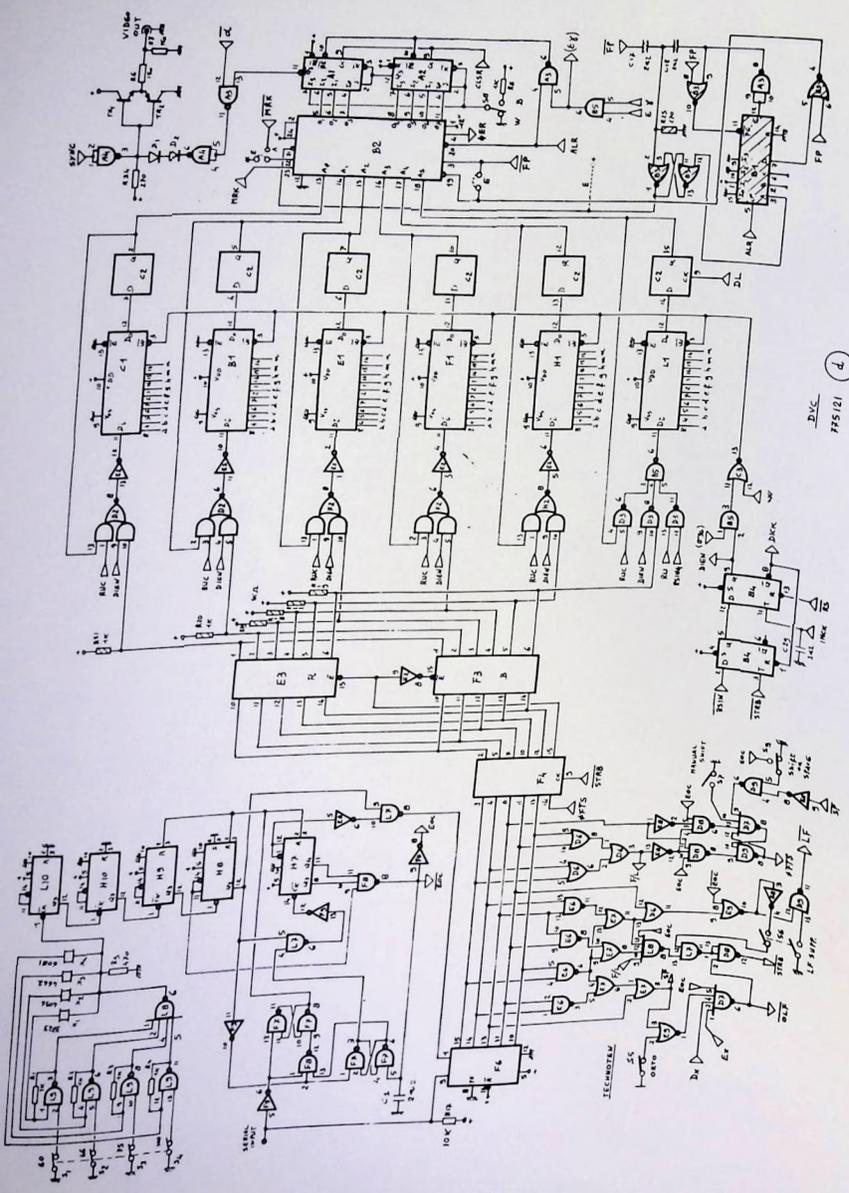
**PAGE**

- 3-3a) Recall** This controls the page presentation.  
This permits the recall of the 2nd page, that is the previous 16 lines of the page being written.  
A particular sign on the upper left side marks the memorized page.
- 3-3b) W/B** This permits the inversion of contrast, that is, black writing on white background, or white on a black background.
- 3-3c) Reset** This permits the cancellation of both pages.
- LINE FEED** This controls line progress.

- 3-4a) Ortho** This permits the orthographic correction at the end of the lines. This button, once pressed, upon receiving a signal for space after the 24th position, operates as a flyback or return. This consents that words composed of less than 8 letters are not casually interrupted at the end of the same line. This is something that could very easily occur being the line of 32 spaces and due to electro-mechanical machines having at their disposal 68 (72 American standard).
- 3-4b) Suppr.** This permits the suppression of the line-feed in case of texts received for which is not necessary the column formation of items, or the distance between one message and the signal. The use of this button becomes very useful for increasing the coefficient filling of the page.

- LTRS SHIFT**      **Control buttons for the change from writing numbers to that of letters.**
- 3-5a) Manual**      This effects the return, everytime it is pressed, to the position of writing letters.
- 3-5b) On Space**      This makes possible the automatic return to the letter position everytime it receives a signal for space.  
**ATTENTION:** This signal must not be used whenever texts mainly composed of groups of numbers (i.e. weather forecasts, messages in numbers, etc.) have to be received.  
(It is known, particularly in cases where the TTY terminal is connected via radio, that an interference or a « feeding » deficiency can cause a change from LETTERS to NUMBERS in the writing).  
Some sophisticated electro-mechanical machines have a pushbutton for the return to letters. In others it is possible to insert a device which performs the same operation, upon receiving a signal for space. The DVC possesses both of these possibilities.
- SPEED**      **These buttons are predisposed so as to receive the various telegraphic speeds.**
- 3-6a) 60 WPM**      This enables transmissions of a speed of 60 words per minute, equivalent to 45,45 BAUD, to be received.
- 3-6b) 66 WPM**      This enables transmissions of a speed of 66 words per minute, equivalent to 50 BAUD, to be received.
- 3-6c) 75 WPM**      This enables transmissions of a speed of 75 words per minute, equivalent to 67 BAUD, to be received.
- 3-6d) 100, WPM**      This enables transmissions, of a speed of 100 words per minute, equivalent to 75 BAUD, to be received.





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## **GARANZIA**

La TECHNATEN Co. garantisce, il presente apparato, esente da difetti di fabbricazione, ed i componenti impiegati in un normale uso, per il periodo di un anno, solo se si sarà provveduto ad inviare all'atto dell'acquisto, il certificato di garanzia che accompagna ogni apparecchio alla TECHNATEN Co. per la vidimazione.

In caso di guasti, non spedire l'apparato per riparazioni, senza la preventiva autorizzazione.

La garanzia opera limitatamente alla riparazione e sostituzione delle parti difettose come sopra previsto e decade qualora l'apparato sia stato manomesso; le spese di trasporto ed ogni altra spesa sarà a carico dell'acquirente.

La TECHNATEN Co. si riserva di apportare qualsiasi modifica senza preventiva comunicazione.

## **WARRANTY**

The TECHNATEN Co. warrants each new product manufactured by it to be free from defective material and workmanship, and warrants the components, under normal use, for a period of one year from the date of original purchase.

This warranty becomes valid upon receipt of the completed TECHNATEN Co. warranty card which accompanies our equipment.

Do not ship equipment to factory without prior authorization.

This warranty is limited to repairing or replacing only defective parts.

This warranty becomes invalid if the equipment has been tampered with, misused, or damaged.

The TECHNATEN Co. reserves the right to make any improvements to its products which it may deem desirable without obligating itself to install such improvements in its previously manufactured products.