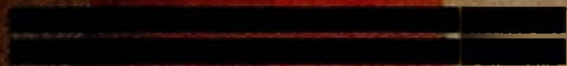


Terminals from
• Tandberg Data A/S
take care of The
Communication with
The Computers
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TANDBERG DATA





TDV 2115 – TDV 2116 COMMON FEATURES

- Ease of operation
- Display clarity
- Keyboard feel and usability
- Hardware reliability
- Applicability
- Flexibility
- Compact size
- Excellent overall performance
- Strong vendor support



● TDV 2115 – A Brief Description

The Tandberg TDV 2115 is a TTY replacement in the TDV 2100-series of display terminals.

The display terminal is the link between the computer and one of your critical resources, the human being. Its main function is to present data consisting of alphanumeric characters to the operator, and to transfer commands and data from the operator to the computer.

The TDV 2115 is designed with human factors in mind, to be operated on for long continuous periods without fatigue.

The TDV 2115 offers to the user the reliability required for continuous use. This is made possible by a careful weighing of state-of-the-art technology against our engineering experience.

● The TDV 2115 is available in three versions:

● TDV 2115 L Special Characteristics

- Flexibility – display mode, cursor characteristics and of course the line interface are customer specified and set by switches at factory on delivery, or even changed in the field.

- A 7 x 9 character matrix with lower case descenders provides excellent readability.

- The range of asynchronous speeds includes 19200 baud.

TDV 2115 C Special Characteristics

- Microprocessor based TTY replacement to offer a variety of emulators and satisfy specific customer needs.
- Optional printer interface to allow hard copy of screen contents at speeds from 300 to 4800 baud.
- Optional 127 character set.

TDV 2115 CV Special Characteristics

- A special version of the TDV 2115 C having video output capability. A European standard video monitor with video input facilities can be connected.
- The character matrix is 5x7 to comply with the CCIR video monitor standard.

Common characteristics:

- Large 16" CRT.
- Large characters.
- Full upper/lower case character set and control characters.
- 25 lines with 80 characters per line.
- Anti-reflection filter. Selection of green or yellow colour.
- Addressable cursor.
- One of two video modes, underline/normal or attribute mode.
- Communication interface CCITT V-24/EIA RS232C and TTY current loop.
- Asynchronous speed from 110 to 9600 baud.
- Switch selectable, parity and internal or external echo.
- Detachable keyboard.
- Various keyboards available.
- Silent operation – no fan.
- Low power consumption.



TDV 2116 – A Brief Description

By the TDV 2116 advanced terminal Tandberg Data offers an up to 64 K byte desk top display computer without compromising on human factors.

The user programs can be stored in a PROM (Programmed Read Only Memory) or loaded from the host computer.

Also the TDV 2116 is designed with the user personnel in mind, having the large screen with anti-reflection. The characters are large, clear and easily readable.

Features:

- Large 16" CRT.
- Large characters.
- 7x9 character matrix.
- Full upper/lower case character set and control characters.
- 25 lines with 80 characters per line.
- Anti-reflection filter. Selection of green or yellow colour.
- Addressable cursor.
- One of two video modes, underline/normal or attribute mode.
- Communication interface CCITT V-24/EIA RS 232C and TTY current loop.
- Asynchronous speeds from 110 to 19200 baud.
- Switch selectable, parity and internal or external echo.
- Detachable keyboard.
- Various keyboards available.
- Silent operation – no fan.
- Low power consumption.
- Minimum configuration contains an 8080 CPU with firmware monitor and 2 K bytes of random access semiconductor memory (RAM). Additional space for up to 8 K of PROM available on the CPU board.

TDV 2116 – Software

The TDV 2116 can be delivered with firmware to operate as an **intelligent form handling terminal**, or as a **slave terminal in a cluster system**.

The form handling firmware enables the operator to **edit data** before transmission.

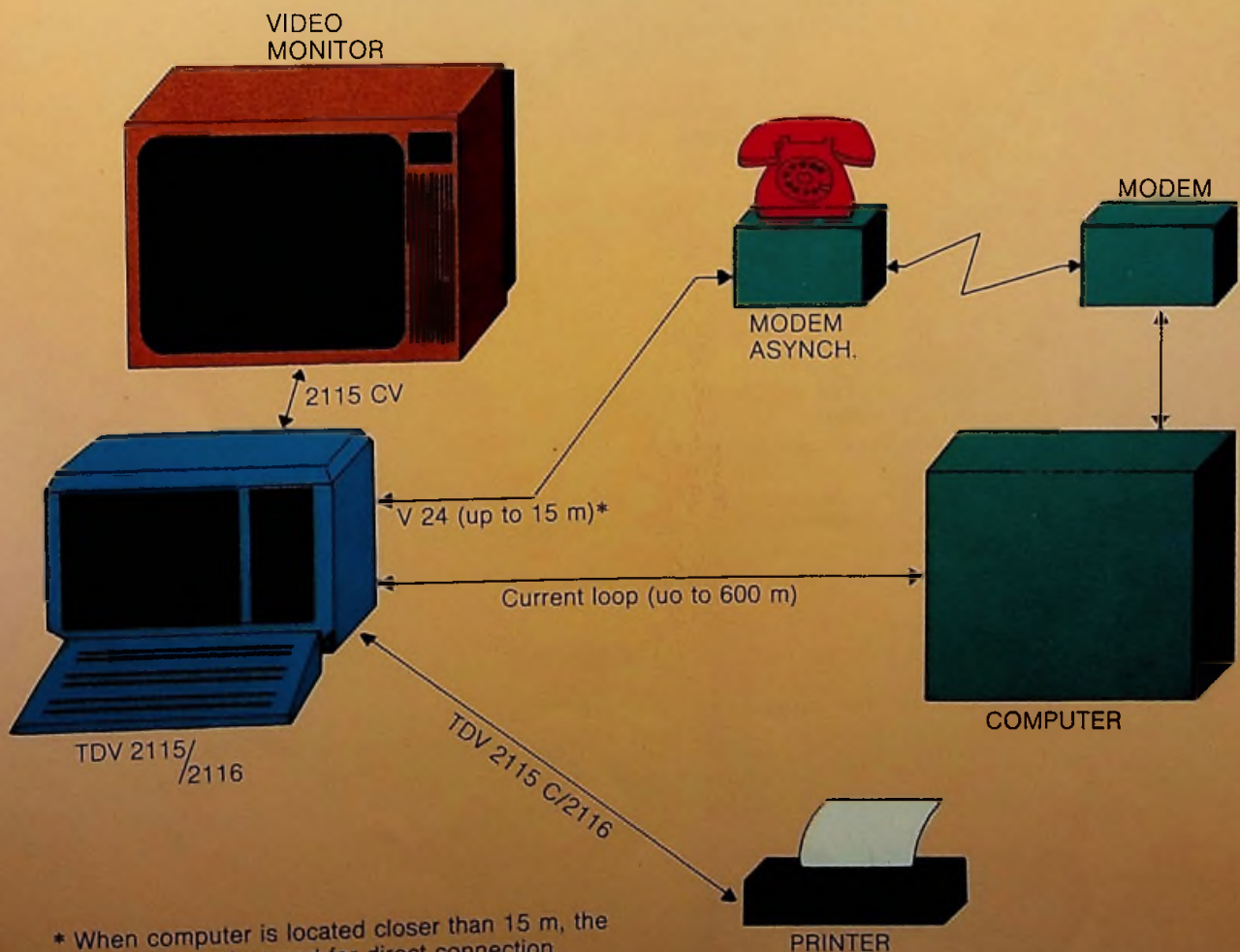
Character and line insert-or-delete plus character overwrite are incorporated. **Partial page transmission** is also possible.

As a form handling terminal, the user has available powerful editing functions, and may define fields of different types on the screen either from the keyboard or receive a form from a host computer. The firmware performs **checking of data on entry** according to the defined form.

When used as a **slave in a cluster system**, the TDV 2116 is programmed from the master unit in the cluster or from the host computer. This makes it possible to use a TDV 2116 with **several different communication protocols** if required. Dependent on the programming of the master unit, each slave may be **programmed independently**, thus allowing different slaves to work with different applications **simultaneously**.

When installing an optional RAM board and appropriate software (firmware), the terminal can store up to **24 pages of information**, and selectably operate in page or roll mode. Appropriate software will also enable the terminal to emulate other types of terminals.

Types of communication links for TDV 2115/2116



* When computer is located closer than 15 m, the V 24 line can be used for direct connection.

TDV 2115 & TDV 2116

Technical specifications

Display characteristics

Screen size:	406 mm (16") diagonal 330 x 260 mm (13" x 10,2")
Viewing area:	300 x 220 mm (11,8" x 8,6")
Phosphor:	P4 (White) The screen is equipped with a coloured anti-reflection filter.
Characters per line:	80
Number of lines:	25
Cursor:	Factory selectable block or underscore, blink or steady. Cursor is directly addressable.
Character size:	3,2 x 5,8 mm (0,12" x 0,23")
Character generation:	7 x 9 Dot Matrix
Character set:	95 standard
Video modes:	Factory selectable underline/normal or attribute.
Special functions:	Roll up, roll down, erase line, erase page, video on and video off.
Refresh rate:	50 Hz

Transmission:

Input/output:	Conforms to CCITT V-24 and EIA RS232C (Modem). Teletype current loop 20 mA with built-in floating power supply and opto-couplers.
Mode:	Asynchronous character by character full duplex as standard. Internal or external echo.
Code:	US ASCII
Data rate:	Eight position switch selectable 110-300-600-1200-2400-4800-9600-19200 baud. (19200 baud only for TDV 2115 and TDV 2116.)
Parity:	Even, odd or none, switch selectable.
Stop bits:	One or two, switch selectable.

Transmission status given by LED-lamps on keyboard.

Physical and electrical specifications:

Power:	230V \pm 10%/50Hz 120 Watts
Cabinet dimensions:	Width 480 mm (18,9") Height 400 mm (15,7") Depth 415 mm (16,3")
Keyboard dimensions:	Width 480 mm (18,9") Height 90 mm (3,5") Depth 230 mm (9,1")
Weight:	Main unit: 21 kg (47 lbs) Keyboard: 3,2 kg (7 lbs)
Operating temperature range:	0-40° C

TDV 2116 additional technical specifications

CPU-board:	Built in 8080A CPU with 2k bytes of static RAM and up to 8k bytes of PROM (firmware), and printer interface.
Transmission:	Asynchronous, character by character or block mode. Full duplex. Internal or external echo.
Options:	The spare card slot may be equipped with the following optional modules: 1) 16k, 48k or 54k of RAM memory 2) 16k of PROM memory

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It is Tandberg Data's policy to improve products as new techniques and components become available. Tandberg Data A/S therefore reserves the right to change specifications at any time without further notice.