



Figure 1: Wyse 370 Color Terminal

Specifications

Standard Features

- 64k display for 26 x (80, 132) with 2 row status
- 14" diagonal monitor with .28mm dot pitch
- Dual-session capability
- 64 independent screen colors for fore/back-ground
- Application Specific Integrated Circuit (ASIC) gate array with a 8 Mhz 68000 processor chip.
- Pull-Down Setup Menus
- WyseWorks -- Integrated desktop applications such as: Datebook / Calendar, Calculator, Alarm Clock
- Multi-Language Keyboards
- Variable Scroll Speed
- Screen Saver
- Two Serial Ports (A & B)
- Refresh rates: 74Hz Alpha mode or 65Hz graphic mode
- Tilt and Swivel Base

Optional Features

- 256k display for 52 x 161 display or 8 page display

Operating Modes

- Setup
- On-Line

Full or Half Duplex
Block or Half-Block Mode
Printing: Normal, Auto Print, Controller Print

- Local or WyseWorks

Interfaces

- Port A: RS-232 / RS-422, Female DB-25, 76.8 K baud
- Port B: RS-232, Female DB-25, 38.4 K baud
- Keyboard: ANSI, ANSI, EPC
- Cartridge Slot

Dimensions

- Footprint: 11.5" w X 11.0" d
- Display: 14.0" w X 14.5" d X 13.5" h
- Weight: 45 lb.

Power

- 120 VAC \pm 10% @ 47-63 Hz.

Emulations

- ANSI
Wyse 370, ColorTrend 220
DEC VT52, VT100, VT220, VT320
- Graphics
Tektronix 4010, 4014
- ASCII
Wyse 350, TVI 950, Esprit III, ADDS A2

Special Notices

- Dual sessions are N/A with both Tektronix emulations.
- XMT handshake should never be used with ADDS, Data General, and PC graphics personality terminals.
- Signal ground is always internally connected to the frame ground on all Wyse terminals.
- Hardware handshaking for all terminals is always: Busy = Low / Ready = High.
- If a printer uses a variable input buffer level, setup the printer to handshake at the lowest level possible.
- All terminals utilize one start bit for operation.
- Maximum distance for serial cable is fifty feet but with shielded cable it may exceed this distance.

Tools Recommended

- #1 Phillips Screwdriver
- Small straight-blade screwdriver
- Compressed air or vacuum cleaner

Keyboard Commands

Function	ASCII	ANSI	EPC
Enter Setup Mode	Setup	F3	Select
Toggle Block Mode	Ctrl / Shift Break	Shift F5	Ctrl / Shift Break
Toggle Auto Print	Ctrl / Print	Ctrl / Shift F2	Ctrl / Print
Print Screen	Print	F2	Print Screen

Error Codes

Error Codes**	Explanation
9	Battery-backed RAM checksum error
P	Code ROM checksum error
G*	Cartridge 1 ROM set error
H*	Cartridge 2 ROM set error
u xx xxxxxx xx xx	RAM error
* When optional cartridge installed, indicates malfunction	
** To clear error messages enter "Setup Mode" then exit.	

Procedures

Reset Settings

- Turn OFF terminal
- Remove both cables from Ports A & B
- Power ON terminal and "Enter setup mode"
(See Keyboard Commands for reference)
- Select (Default All) and press (Return) key.
- Select (Exit Setup and Save) and press (Return) key.
- Reconfigure the terminals setup parameters
- Turn OFF terminal
- Reconnect the cables to Ports A & B
- Power ON terminal

Firmware Replacement

- Power ON terminal and "Enter setup mode"
(See Keyboard Commands for reference)
- Make notes about the options this terminal has setup. You may have to reconfigure with these settings later
- Power OFF terminal and disconnect the power cable, keyboard, optional cartridges and cables from the communication ports A & B.
- Flip terminal on side and locate five screws on base.
- Remove the five screws with a #1 Phillips screwdriver.
- Remove any dust that may be found on the base.
- Pull out bottom base far enough to free the metal tabs from the top base.
- Gently place the loosened base on the work surface so the connectors on J1, J10, J11 are not disconnected from the logic board.
- Locate the firmware in sockets (17U or Program 0) & (16U or Program 1)
- Insert Flat-blade screwdriver between PROM and socket to separate then remove PROM from socket.
- Insert new PROM in the same way the old PROM was installed. Make sure the notched side or pin 1 is to the same side and the pins are not bent during installation.
- Check to see if the connectors on J1, J10, and J11 are still securely fastened to the logic board.
- Position the top base over lower base to align the appropriate tabs. Lower top base so the tabs fit snug with lower base.
- Flip terminal on side and re-tighten the five Phillips screws holding the base.
- Reinstall any optional cartridges if they were removed.
- Re-connect the power and keyboard cables only.
- Power ON terminal and "Enter setup mode" to clear the error condition.
- Check all settings and verify them against the ones you taken earlier and change any if necessary to match.
- Power OFF the terminal and reconnect the communication cables to ports A & B.
- Power ON terminal to verify terminal is working. A BEEP sound and cursor or status line should appear.

Procedures (Continued)

Firmware Identification

- Power OFF terminal and remove cable from Port A and jump pin 2 with 3. They are the 2nd & 3rd pins from the right on the top row of the port when facing it.
- Power ON terminal and "Enter setup mode"
- Change Sub-Menu Personality =(WYSE 350)
- Change Display Top Status Line =(USER)
- Change Port Communications Mode =(FULL DUPLEX)
- Turn Caps OFF
- Depress ESC (Control on ANSI KB) then depress "d"
- Turn Caps ON and depress SHIFT and (") together.
- An Alpha-numeric string will appear.
034201R07COPYRIGHTWYSE 1988
The first six characters is the part number (259999-99),
The next three characters is the revision number R07,
The remainder is the copyright notice.

Interface Connections

Port A RS-232/RS-422 Connector Wiring		
From Pin	To Pin	Name
1	1	Shield Ground
2	2	Transmit RS-232C -Data
3	3	Receive RS-232C -Data
4	4	Request to Send*
5	5	Clear to Send*
7	7	Signal Ground
8	8	Receive Line Signal Detect*
15	15	Receive RS-422 +Data
17	17	Receive RS-422 -Data
19	19	Transmit RS-422 +Data
20	20	Data Terminal Ready
25	25	Transmit RS-422 -Data

Port B RS-232 Connector Wiring		
From Pin	To Pin	Name
1	1	Shield Ground
2	2	Transmit RS-232C -Data
3	3	Receive RS-232C -Data
4	4	Request to Send*
5	5	Clear to Send*
7	7	Signal Ground
8	8	Receive Line Signal Detect*
20	20	Data Terminal Ready
*Modem protocol		

Field Replaceable Units

Description	OEM Part	IBM Part
Wyse 370 Color Display Terminal	900251-01	49H6166
Keyboard - Standard	840358-01	93F5661
Keyboard - ANSI / VT220	900243-01	93F5902
Keyboard - Enhanced PC (102 Keys)	900233-01	93F5903
Keyboard Connector	920151-01	06J8362