

# Facsimile Terminals

## ■ SCOPE

This Product Survey identifies the major facsimile terminals available to the general business community, and details important features and characteristics. Models covered include units that employ lines-per-inch (lpi) vertical and horizontal scanning techniques, and transmit data via analog **AM and FM and/or digital encoding** techniques. Most of the terminals interface with the public DDD network or employ dedicated voice-grade telephone lines. Many of the terminals also meet **CCITT standards** for machine protocol and transmission techniques, and are compatible with equivalent terminals available from other manufacturers.

## ■ INTRODUCTION

Facsimile terminals fall into 2 broad categories: simple document transfer units and devices, which also store documents for later transmission. The latter, called store-and-forward transceivers, has seen the greatest technical growth in the past 3 years. The simple document transfer units are generally transceivers (can transmit and receive) that employ analog modulation (AM) or digital data transmission schemes to transmit document contents point-to-point. Analog transceiver units employ AM or FM modulation to encode the document contents and contain a modem to transmit the signal over telephone lines. FM requires about 6 minutes to transmit a standard 8.5x11-inch page, while AM requires about 3 minutes.

Digital transceivers employ digital encoding techniques and contain a modem to transmit document contents over the telephone line. This technique is much faster than AM or FM and requires less than a minute to transmit a page. It also lends itself well to data compression schemes such as modified Huffman or modified READ encoding.

At one time, vendor transceivers only communicated with identical units. This led to considerable incompatibility problems and required the user to maintain single-vendor products. To break the incompatibility barrier, the CCITT issued specifications for protocol and transmission techniques, scan direction, scan-line size, scans per millimeter, phasing, synchronization, etc, so that **conforming devices from different vendors could exchange documents**. These standards are called Group 1 for FM, Group 2 for AM, and Group 3 for digital. The products listed in this survey as CCITT compatible meet these interface specifications.

The store-and-forward units allow document contents to be stored at one location and transmitted to multiple locations at predetermined times. Ricoh (then called Rapicom) was a leading pioneer of this concept for modem transceivers with the SAF/PAK option for the Ricoh 5000. SAF/PAK consists of a box with enough random access

memory (RAM) to store the equivalent of 30 8.5x11-inch documents, with 30 optional pages. The unit allows the R-5000 to send **all** pages stored to 100 other locations within the network or to locations designated by telephone numbers.

The limitations of this approach are obvious: 30 pages (even 60 for that matter) is not a great amount of capacity, and the requirement that all pages be sent (broadcast) to all locations could cause a good number of superfluous page transmission. And, of course, there is always the problem of data security with nonselective transmissions. Companies like Panafax, Pitney-Bowes, and NEC have solved the capacity problem by substituting Winchester disks for RAM, but none offer selective transmission although it is in development.

Both Xerox and 3M are offering solutions to the problems of capacity and selectivity. The 3M approach, which has not yet been officially announced, is called Net Master and employs an IBM PC/XT or Xerox 16/8 personal computer. Net Master is a disk-resident software package that links the PC to a Xerox 495-I transceiver. Net Master transfers the contents of the PC's disk to the 495-I where the ASCII data stream is converted to a specified transmission standard (CCITT Group 1, 2, or 3) and pages are transmitted. Net Master also allows facsimile units to transmit documents to the 495-I for storage on the PC, or a remote PC to a Net Master equipped PC for eventual forwarding to destinations via the 495-I. For details on Net Master, see report 990-X253-0400.

The 3M Fax Xchange is a standalone unit that accepts document images from a CCITT Group 1, 2, or 3 machine, and forwards them to specified destinations. Up to 900 1-minute documents can be stored and up to 1,000 locations can be addressed. Fax Xchange employs address lists. Each user has access to 99 lists with each list having 99 destination addresses. An added advantage of Fax Xchange is its protocol conversion service, whereby the protocol from the sending unit can differ from the receivers. This provides the bridge to allow slower AM or FM machines to communicate with faster Group 3 units, and vice-versa.

Another form of store-and-forward is employed by IBM's Scanmaster, an analog/digital transceiver that accepts documents from terminals and workstations such as Displaywriter, 8100/DOSF, and the 5520. IBM's Distributed Office Support System (DISOSS/370) package supports text entry from those terminals and workstations. IBM's optional Image Distribution System package supports document distribution for Scanmasters connected to a host under CICS/VS. Documents are stored on disk and routed to destinations defined by document distribution lists.

## Facsimile Terminals

This edition of the Facsimile Terminal Survey presents the specifications for over **94 models** that are manufactured and/or marketed by **19 vendors**. It is divided into 2 parts. Part 1 is the Terminal Outline which lists the manufacturer or supplier alphabetically by name and the product(s) offered. Accompanying the Outline are the key parameters that characterize each terminal. Part 2 of the Survey covers the Technical specifications and features of the terminal. This information details the type of terminal; its compatibility; maximum size of input/output

documents; maximum scanning width; scanning technique; image resolution; transmission speed; type of data compression; recording method; data communication environment; physical dimensions; price; and service arrangement.

Specific topic categories within the Technical Features section are delineated in the text with a solid dot (•). An outline is also included to reference the reader to vendors who market models with specific parameters.

### FACSIMILE TERMINAL OUTLINE

COMPANY • PRODUCT	Transceiver Receiver Only Transmit Only	Attended Operations Unattended Operations	AM Transmission FM Transmission Digital Transmission	Group 1 Compatibility Group 2 Compatibility Group 3 Compatibility	Half-Tone Support Input Over 8 1/2 x 11 Inches	DDD/Voice Grade Line Conditioned Line Pooled Modem Included	Auto-Dial Auto-Answer/Disconnect	Data Compression Data Encryption Data Store & Forward
Alden Electronics • Alden Fax 340 III	•	•	•	•	•	•	•	•
Alden Electronics • 400 Signa-Fax	•	•	•	•	•	•	•	•
Alden Electronics • Alden 18x22	•	•	•	•	•	•	•	•
AT&T Information Systems • AT&T Fax 3510D	•	•	•	•	•	•	•	•
Burroughs Corp • Express 2000	•	•	•	•	•	•	•	•
Burroughs Corp • 3200	•	•	•	•	•	•	•	•
Burroughs Corp • 3500 Series	•	•	•	•	•	•	•	•
Burroughs Corp • 3600 Series	•	•	•	•	•	•	•	•
Burroughs Corp • 3700	•	•	•	•	•	•	•	•
Canon USA Inc • Canon FAX-31	•	•	•	•	•	•	•	•
Canon USA Inc • Canon FAX-330	•	•	•	•	•	•	•	•
Canon USA Inc • Canon FAX-320E	•	•	•	•	•	•	•	•
Canon USA Inc • Canon FAX-510	•	•	•	•	•	•	•	•
Exxon Office Sys • Exxon Qwip 1200	•	•	•	•	•	•	•	•
Exxon Office Sys • Exxon Qwip 1300	•	•	•	•	•	•	•	•
Exxon Office Sys • Exxon Qwip 2000/2150	•	•	•	•	•	•	•	•
Exxon Office Sys • Exxon Qwip 2210	•	•	•	•	•	•	•	•
Exxon Office Sys • Exxon Qwip 2310	•	•	•	•	•	•	•	•
Harris Corp • 500-RX Mark II	•	•	•	•	•	•	•	•
Harris Corp • 500-TX Mark II	•	•	•	•	•	•	•	•
Harris Corp • 600-RX	•	•	•	•	•	•	•	•
Harris Corp • 800 RX Mark II	•	•	•	•	•	•	•	•
Harris Corp • 800-TX Mark II	•	•	•	•	•	•	•	•
Harris Corp • 850-RX Mark II	•	•	•	•	•	•	•	•
Harris Corp • 850-TX Mark II	•	•	•	•	•	•	•	•
Harris Corp • 860-RX Mark II	•	•	•	•	•	•	•	•
Int'l Business Mach (IBM) • 8815 Scanmaster	•	•	•	•	•	•	•	•
Litton Systems/Amecon Div • Tactical Digital Facsimile	•	•	•	•	•	•	•	•
3M Company/Office Sys Div • EMT 1000E	•	•	•	•	•	•	•	•
3M Company/Office Sys Div • EMT 2346	•	•	•	•	•	•	•	•
3M Company/Office Sys Div • EMT 9140	•	•	•	•	•	•	•	•
3M Company/Office Sys Div • EMT 9145	•	•	•	•	•	•	•	•
3M Company/Office Sys Div • EMT 9160	•	•	•	•	•	•	•	•
3M Company/Office Sys Div • EMT 9165	•	•	•	•	•	•	•	•
3M Company/Office Sys Div • EMT 9175	•	•	•	•	•	•	•	•

# Facsimile Terminals

COMPANY • PRODUCT	Transceiver Receiver Only Transmit Only	Attended Operations Unattended Operations	AM Transmission FM Transmission Digital Transmission	Group 1 Compatibility Group 2 Compatibility Group 3 Compatibility	Half-Tone Support Input to 8 1/2 x 11 Inches Input Over 8 1/2 x 11 Inches	DDD Voice-Grade Line Conditioned Line Modem Included	Auto-Dial Auto-Answer/Disconnect	Data Compression Data Encryption Data Store & Forward
Muirhead Inc • K-150-TR4	••	••	••	••	••	••	••	••
Muirhead Inc • K-570-A/K-570-B/K-570-DFB	••	••	••	••	••	••	••	••
Muirhead Inc • K-560	••	••	••	••	••	••	••	••
Muirhead Inc • K-949-TR4	••	••	••	••	••	••	••	••
Muirhead Inc • 6400/6401	••	••	••	••	••	••	••	••
Muirhead Inc • Laser Pagefax Transmitter	••	••	••	••	••	••	••	••
Muirhead Inc • Laser Pagefax Receiver	••	••	••	••	••	••	••	••
Muirhead Inc • Viewfax I	••	••	••	••	••	••	••	••
Muirhead Inc • Viewfax II	••	••	••	••	••	••	••	••
Murata Bus Sys • Multifax 7100	••	••	••	••	••	••	••	••
Murata Bus Sys • Multifax 7200	••	••	••	••	••	••	••	••
NEC, America • BIT I	••	••	••	••	••	••	••	••
NEC, America • BIT II	••	••	••	••	••	••	••	••
NEC, America • BIT III	••	••	••	••	••	••	••	••
NEC, America • System IID	••	••	••	••	••	••	••	••
NEC, America • System IIIS	••	••	••	••	••	••	••	••
NEC, America • System IIISE	••	••	••	••	••	••	••	••
NEC, America • System IIIC	••	••	••	••	••	••	••	••
NEC, America • IIIT	••	••	••	••	••	••	••	••
Panafax Corp • MV-3000	••	••	••	••	••	••	••	••
Panafax Corp • MV-3000 WL	••	••	••	••	••	••	••	••
Panafax Corp • MV-1200	••	••	••	••	••	••	••	••
Panafax Corp • PX100	••	••	••	••	••	••	••	••
Panafax Corp • PX200 with Mass Memory	••	••	••	••	••	••	••	••
Panafax Corp • UF-400	••	••	••	••	••	••	••	••
Pitney Bowes • Model 8100	••	••	••	••	••	••	••	••
Pitney Bowes • Model 8300	••	••	••	••	••	••	••	••
Pitney Bowes • Model 8400	••	••	••	••	••	••	••	••
Pitney Bowes • Model 8600	••	••	••	••	••	••	••	••
Pitney Bowes • Model 8800	••	••	••	••	••	••	••	••
Pitney Bowes • Model 8900	••	••	••	••	••	••	••	••
Ricoh Corp • Ricoh 120	••	••	••	••	••	••	••	••
Ricoh Corp • Model 3300	••	••	••	••	••	••	••	••
Ricoh Corp • Model R-5000 with SAF/PAK	••	••	••	••	••	••	••	••
Sanyo Bus Sys • Sanfax 615	••	••	••	••	••	••	••	••
Sanyo Bus Sys • Sanfax 625	••	••	••	••	••	••	••	••
Sanyo Bus Sys • Sanfax 935	••	••	••	••	••	••	••	••
Sharp Electronics • FO-1800	••	••	••	••	••	••	••	••
Sharp Electronics • FO-2515/2530	••	••	••	••	••	••	••	••
Sharp Electronics • FO-2516/2531	••	••	••	••	••	••	••	••
Sharp Electronics • FO-2517	••	••	••	••	••	••	••	••
Telautograph Corp • Omnifax G-21	••	••	••	••	••	••	••	••
Telautograph Corp • Omnifax G-35	••	••	••	••	••	••	••	••
Telautograph Corp • Omnifax G-99	••	••	••	••	••	••	••	••
Telautograph Corp • Omnifax SF3	••	••	••	••	••	••	••	••
Xerox Corp • Telecopier 295	••	••	••	••	••	••	••	••
Xerox Corp • Telecopier 400-1	••	••	••	••	••	••	••	••
Xerox Corp • Xerox 455	••	••	••	••	••	••	••	••
Xerox Corp • Xerox 485	••	••	••	••	••	••	••	••
Xerox Corp • Xerox 495-1	••	••	••	••	••	••	••	••

## Facsimile Terminals

### FACSIMILE TERMINAL FEATURES

#### OVERVIEW

The facsimile terminals detailed in the following technical descriptions are those designed for general business applications. All can accommodate handwritten, typed/typeset copy, charts, and graphs; and some can handle half-tones. Specific topic features within this section cover:

**Type of Terminal** • identifies the terminal as a tabletop or floor-console unit. Also specifies the data transmission technique employed: analog (AM or FM), digital, or a combination of both.

**Compatibility** • identifies other facsimile terminals that the product can communicate with to transmit/receive data. Many manufacturers have also designed their terminals to be compatible with standards established by the CCITT (Consultative Committee International Telephone and Telegraph). These standards specify direction of scanning, size of scan line, number of scan lines per millimeter and phasing, synchronization, and modulation.

Four groups of standards have been established. Group 1 applies to devices that employ FM analog modulation and transmit a standard page in six minutes; a four-minute page is optional. Group 2 applies to devices that employ AM analog modulation and transmit a page in three minutes; a two-minute page is optional. Group 3 applies to devices that employ digital techniques and transmit a page in less than one minute. Data compression in the form of a modified Huffman code is also part of the Group 3 standard. Some vendors also employ another coding scheme called two-dimensional Read. Group 4, which has not been adopted to date, applies to digital terminals with resolutions of at least 240x240 lpi and 400x400 lpi and transmission speeds of 56K bps or higher.

**Input Document** • defines the maximum length and width of the input document. Also indicates if document is hand-fed or automatically fed (auto-fed) and the maximum number of documents that can be auto-fed.

**Output Document** • defines the maximum length and width of the output document. Also indicates if the document is single-sheet or roll-fed. If the latter, the length of the roll is indicated. All units listed in this Survey that are roll-fed have automatic paper cutting.

**Half-Tone Support** • specifies whether photographs can be handled and the shades of gray.

**Maximum Scanning Width** • defines the maximum width of the input documents that can be scanned to transmit data. This number can be less than the maximum width of the input document paper. Some vendors also provide a margin adjustment to allow only a portion of the document to be scanned.

**Scanning Technique** • defines the feeder type and type of scanner. Feeders are usually flat-bed or drum-mount. Flat-bed can be used with automatic feeder/stackers, while drum-mount requires the original to be hand-wrapped around the cylinder. Scanning techniques include rotating cylinder, rotating helical aperture, solid-state/charged-couple diodes (CCDs), oscillating/rotating scan head, rotating lens turret, CRT flying spot, laser and fiber optics.

**Image Resolution** • defines the number of horizontal and vertical stops a scanner/printer makes traversing a page. A combination of horizontal and vertical scanning stops are needed to construct a facsimile image. Scan rates, shown in lines-per-inch (lpi), determine the size of the letters that can be reproduced. The higher the scan rate, the smaller the letter size. To handle shades of gray, a large number of points must be scanned, thus

requiring a high-resolution scanner (typically around 200 lpi or higher).

**Transmission Speed** • defines the time required to transmit 8.5x11-inch page. For digital terminals, the time is accompanied by the data transmission rate. (In this Survey, the benchmark rate is 4800 bps.) Transmission times vary with the scan resolution. The greater the resolution, the higher the time.

**Data Compression** • defines the type of data compression supported. Data compression is designed to reduce the transmission of redundant characters and blank spaces by assigning codes to character/space combinations. Single-dimensional coding removes redundancy across the horizontal span; two-dimensional coding handles the vertical line and concentrates on space between lines and within given characters. For terminals that conform with CCITT Group 3 specifications, a modified Huffman (single-dimensional) data compression scheme is the standard employed; some manufacturers also offer a modified READ code, which is two-dimensional.

**Recorder/Paper** • defines the type of recorder (printer) and paper used by the receiving unit. Recording techniques and paper type include electrolytic, electrosensitive, electrostatic, dielectric, thermal, and photographic. Electrolytic uses an electrolyte-saturated roll of paper, and employs an electrical stylus to imprint each line of information. Electrosensitive (also called electrothermal) uses a specially treated two-layer paper and electrical stylus. The stylus "burns-off" the coating of the top layer to form the image on the dark-coated second layer.

Electrostatic uses a process similar to that employed by a photocopier. Here, the incoming signal from the remote terminal is converted to a light source that is flashed across a photoconductor drum to form the image. Dry toner is applied to the drum and adheres to the image areas, and plain paper is used for printing.

Dielectric employs a dielectric paper on which a charge is applied via stylii. The paper passes through a timer and heat fusing forms the image. Thermal printing also employs a specially treated paper and thermal printhead to transfer the image.

The photographic technique is similar to conventional photo-reproduction. Photosensitive paper wrapped around a rotating cylinder receives the image via a light source, which is modulated by the incoming signal. The light source moves laterally along the length of the cylinder.

**Communications** • defines the data communication environment the terminal operates under. Just about every unit in this Survey attaches to the DDD network or dedicated voice-grade unconditioned lines. Most operate in the range of 2400/4800/7200/9600 bps, and may provide a built-in modem with a DAA or is FCC registered. Some come with FCC-registered telephone jacks. The terminals designed for unattended operation also provide an auto-answer/disconnect facility.

**Dimensions** • indicates the width, depth, height, and weight of the terminal.

**Other Features** • indicates special features such as self-test, terminal ID capability, traffic logging, etc.

**Date Introduced** • indicates the year the product was introduced to the marketplace.

**Units Installed** • indicates the number of terminals now installed at user locations.

**Cost** • specifies the single-quantity purchase price, and the monthly rental price based on a 3-year lease (unless otherwise noted).

### FACSIMILE TERMINAL LISTINGS

#### ■ ALDEN ELECTRONICS INC

40 Washington Street, Westborough, MA 01581; 617-366-8851 • Canadian Distribution: none.

**Service** • vendor offers for all models • 1-year warranty • full service on call; backup telephone assistance • replacement of

defective parts.

□ Alden Fax 340 III

**Type** • tabletop, AM/FM/Digital transceiver.

**Compatibility** • CCITT Groups 1, 2, and 3.

## Facsimile Terminals

**Input Document** • 4.125 to 11x4.143 inches and over; auto-feed, 30-document capacity.

**Output Document** • roll-fed, 8.5 inches x length of original; 328-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 8 inches.

**Scanning Technique** • flatbed; CCD array.

**Image Resolution (horizontal x vertical)** • 203x98 lpi.

**Transmission Speed** • 29 seconds for 203x98 lpi per 8.5x11-inch document at 9600 bps.

**Data Compression** • modified Huffman; line-skip transmission.

**Recorder/Paper** • thermal.

**Communications** • DDD network; built-in 9600-bps modem; polling.

**Dimensions** • 15.75x17.375x8.5 inches; 44.1 lbs.

**Other Features** • automatic receive; automatic cutter; automatic background control; status and error detection; imprints time, date, and transmitting terminal location on each document; polling; contrast control; activity report; phone reservation; manual document set; copy function; hang-up signal.

**Date Introduced** • 1984.

**Units Installed** • not available.

**Cost** • \$3,400 single-unit purchase price.

### Alden 400 Signa-Fox Customer Identification System

**Type** • tabletop, FM transmitter/receiver.

**Compatibility** • not compatible with other models.

**Input Document** • up to 3.5x6-inch feed signature card; (used to verify signatures or for other small form transmissions); drop-in cassette.

**Output Document** • 4x6 inches.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 3.5 inches.

**Scanning Technique** • flat-bed; rotating helical aperture.

**Image Resolution (horizontal x vertical)** • 100x100 lpi.

**Transmission Speed** • 11 seconds per signature.

**Data Compression** • none.

**Recorder/Paper** • electrosensitive; rotating helix.

**Communications** • DDD network or dedicated line; requires DAA; auto-answer/disconnect optional.

**Dimensions** • transmitter 11.13x15.13x10.5 inches plus 7.13 inches for tray; 26 lbs • receiver 69.06x13x8.88 inches; 13.5 lbs.

**Other Features** • none.

**Date Introduced** • 1976.

**Units Installed** • 200 send/receive units.

**Cost** • \$3,500 purchase for transmitter • \$2,100 purchase for receiver; lease price depends on number of units.

### Alden 9317 Drum Scanner & Model 9271 1800 Facsimile Recorder

**Type** • tabletop, AM/FM transmitter/receiver.

**Compatibility** • between models 9317 and 9271 only.

**Input Document** • up to 18x22 inches.

**Output Document** • 18x22 inches.

**Half-Tone Support** • 8 shades of gray.

**Maximum Scanning Width** • 22 inches.

**Scanning Technique** • rotating cylinder; moving scan head.

**Image Resolution (horizontal x vertical)** • 96x96 lpi.

**Transmission Speed** • 4 minutes per 8.5x11-inch document; 9 minutes per 11x14-inch document; 18 minutes per 18x22-inch document.

**Data Compression** • none.

**Recorder/Paper** • electrolytic.

**Communications** • DDD network or dedicated line; operates at 1800/2400/4800 bps; requires DAA.

**Dimensions** • model 9317 scanner 30.62x12.50x8 inches; 36 lbs • model 9271 receiver 25.75x20x23; 80 lbs.

**Other Features** • FM optional.

**Date Introduced** • 1978.

**Units Installed** • 12.

**Cost** • \$11,750 purchase per system including model 9317 scanner and model 9271 recorder; \$350 per month • scanner only \$6,000 purchase; \$170 per month; recorder only \$5,750 purchase; \$180 per month.

### ■ AT&T INFORMATION SYSTEMS (ATTIS)

100 Southgate Parkway, Morristown, NJ 07960; 201-898-8000 • Canadian Distribution: AT&T Canada Inc; 1500 Don Mills Road, Suite 500, Don Mills, ON M38 3K4; 416-449-4300.

**Service** • vendor offers for all models • 90-day warranty • continuing service options through the AT&T Services Organization are available after the warranty period.

### AT&T Fax 3S10D

**Type** • tabletop, AM/FM/Digital transceiver.

**Compatibility** • CCITT Groups 1, 2, and 3.

**Input Document** • 6 to 10.1x4.1 to 23.4 inches; auto-feed, 30-document capacity.

**Output Document** • roll-fed, 8.5 inches x length of original; 328-foot roll.

**Half-Tone Support** • 8 shades of gray.

**Maximum Scanning Width** • 8.5 inches.

**Scanning Technique** • flatbed; CCD.

**Image Resolution (horizontal x vertical)** • 100x200 lpi; 200x200 lpi.

**Transmission Speed** • 20/32 seconds for 100x200 lpi at 9600/4800 bps; 34/51 seconds for 200x200 lpi at 9600/4800 bps; 3 minutes for Group 2; 6 minutes for Group 1.

**Data Compression** • modified Huffman.

**Recorder/Paper** • thermal.

**Communications** • DDD network or dedicated line; operates at 9600/7200/4800/2400 bps; built-in interface; auto-answer; polling.

**Dimensions** • 16.7x11.7x5.4 inches; 28.6 lbs.

**Other Features** • imprints time, date, and transmitting terminal location on each document; polling; copy function.

**Date Introduced** • 1985.

**Units Installed** • not available.

**Cost** • \$3,495 single-unit purchase price.

### ■ BURROUGHS CORPORATION

Facsimile Communications Systems Automation Division; Corporate Drive, Commerce Park, Danbury, CT 06810; 203-792-6000 • Canadian Distribution: Oceanic Information Systems; 1245 Sherbrooke Street West, Office 1900, Montreal, PQ H3G 2L5; 514-288-6422.

**Service** • vendor offers for all models • on-site vendor support is available in over 140 major metropolitan areas; third-party service is offered at other locations.

### Burroughs dex Express 2000

**Type** • tabletop, AM/Digital transceiver.

## Facsimile Terminals

**Compatibility** • CCITT Groups 2 and 3.

**Input Document** • 5.04 to 8.54x3.54 to 5.9 or selectable to unlimited length; auto-feed, 10-document capacity.

**Output Document** • roll-fed, 8.5x3.54 to 5.9 or selectable to unlimited length; 164-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 8.2 inches.

**Scanning Technique** • flatbed; CCD.

**Image Resolution (horizontal x vertical)** • 203x196 lpi or 203x98 lpi for Group 3; 203x98 lpi for Group 2.

**Transmission Speed** • less than 1 minute for Group 3 at 4800 bps; 3 minutes for Group 2.

**Data Compression** • modified Huffman.

**Recorder/Paper** • thermal.

**Communications** • DDD network or dedicated line; operates at 4800 bps with automatic fallback to 2400 bps; polling.

**Dimensions** • 14.5x25x7.6 inches; 26 lbs.

**Other Features** • automatic cutter; imprints time, date, and transmitting terminal location on each document; polling; activity reporting; callback request; copy function.

**Date Introduced** • 1984.

**Units Installed** • not available.

**Cost** • \$2,595 single-unit purchase price.

**Burroughs dex 3200**

**Type** • tabletop, AM/FM/Digital transceiver.

**Compatibility** • CCITT Groups 1, 2, and 3.

**Input Document** • 4.7 to 11x3.9 to 9.8 inches; auto-feed, 30-document capacity.

**Output Document** • roll-fed, 8.5 inches x length of original; 328-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 10 inches.

**Scanning Technique** • flatbed, CCD.

**Image Resolution (horizontal x vertical)** • 203x196 lpi; 203x98 lpi.

**Transmission Speed** • normal rate: 40 seconds for 203x196/98 Group 3 at 4800 bps; 3 minutes for 203x98 Group 2; 6 minutes for 203x98 Group 1.

**Data Compression** • modified Huffman.

**Recorder/Paper** • thermal.

**Communications** • DDD network or dedicated line • operates at 4800/2400 bps half-duplex; auto-dial/auto-answer/disconnect and polling.

**Dimensions** • 21.3x16.1x7.3 inches; 47 lbs.

**Other Features** • automatic poll/send; stores 50 phone numbers up to 32 digits each.

**Date Introduced** • 1983.

**Units Installed** • not available.

**Cost** • \$3,995 single-unit purchase price; \$47 per month maintenance.

**Burroughs dex 3600 Series Transceiver**

**Type** • tabletop, AM/FM/Digital transceivers.

**Compatibility** • CCITT Group 3; Groups 3, 2, 1 on 3606 only.

**Input Document** • up to 11.7 inches; auto-feed, 30-document capacity.

**Output Document** • roll-fed, 8.5 inches x length of original; 328-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 8.5 inches.

**Scanning Technique** • flatbed; CCD.

**Image Resolution (horizontal x vertical)** • 203x196/98 lpi; 101/98 lpi; 98x98 lpi.

**Transmission Speed** • 40 seconds for 203x196/98 or 101x98 lpi at 4800 bps; 3 minutes at 98x98 lpi for Group 2; 4 minutes at 65x65 lpi for Group 1; 6 minutes at 98x98 lpi Group 1.

**Data Compression** • modified Huffman at 2-dimensional modified Read.

**Recorder/Paper** • thermal.

**Communications** • DDD network or dedicated line • operates at 4800/2400 bps (3601/3602); 9600/7200/4800/2400 bps (3603/3604/3606); auto-dial/auto-answer/disconnect and polling.

**Dimensions** • 23.2x19.7x10.2 inches; 79 lbs.

**Other Features** • automatic poll/send; stores 50 phone numbers up to 32 digits each.

**Date Introduced** • 1983.

**Units Installed** • not available.

**Cost** • \$3,995/\$4,195/\$4,395/\$4,595/\$4,795 single-unit purchase price (3601/3602/3603/3604/3606); \$47 per month maintenance.

**Burroughs dex 3700**

**Type** • tabletop, FM/Digital transceiver.

**Compatibility** • CCITT Groups 1, 2, and 3.

**Input Document** • 4.7 to 11x3.9 to 9.8 inches; auto-feed, 30-document capacity.

**Output Document** • roll-fed, 8.5 inches x length of original; 328-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 10 inches.

**Scanning Technique** • flatbed; CCD.

**Image Resolution (horizontal x vertical)** • 203x196/98 lpi for Group 3; 98x98 lpi for Groups 1 and 2.

**Transmission Speed** • less than 1 minute for Group 3 at 9600 bps; 3 minutes for Group 2; 6 minutes for Group 1.

**Data Compression** • modified Huffman; modified Read.

**Recorder/Paper** • thermal.

**Communications** • DDD network or dedicated line; operates at 9600 bps with automatic fallback to 7200/4800/2400 bps; polling; voice capability.

**Dimensions** • 21.3x16.1x7.3 inches; 47 lbs.

**Other Features** • automatic reduction; automatic dial; automatic white level control; imprints time, date, and transmitting terminal on each document; polling; copy function; voice capability; stores up to 50 telephone numbers, 32 digits each.

**Date Introduced** • 1985.

**Units Installed** • not available.

**Cost** • \$4,395 single-unit purchase price.

### ■ CANON USA INC

One Canon Plaza, Lake Success, NY 11042; 516-488-6700 • Canadian Distribution: Canon Canada Inc; 6390 Dixie Road, Mississauga, ON L5T 1P7; 416-678-2730.

**Service** • vendor offers for all models • service contract available.

**Canon FAX-31**

**Type** • tabletop, AM/FM transceiver.

**Compatibility** • CCITT Groups 1, 2, and most older 4-/6-minute FM machines.

## Facsimile Terminals

**Input Document** • 8.5x25 inches • auto-feed, 5-document capacity.

**Output Document** • roll-fed 8.5 inches x length of original; 164-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 8.13 inches.

**Scanning Technique** • flatbed; CCD.

**Image Resolution (horizontal x vertical)** • 98x127 lpi.

**Transmission Speed** • 3 or 6 minutes at 98x127 lpi.

**Data Compression** • none.

**Recorder/Paper** • thermal.

**Communications** • DDD network via DAA or private line, built-in interface requires RJ11-C jack.

**Dimensions** • 6.12x13x14.12 inches; 25.4 lbs.

**Other Features** • auto-receive; voice contact paging; local copy mode; status and error indicators; self-diagnosis.

**Date Introduced** • 1983.

**Units Installed** • not available.

**Cost** • \$1,495 single-unit purchase price.

### Canon FAX-330

**Type** • tabletop, AM/FM/Digital transceiver.

**Compatibility** • CCITT Groups 1, 2, and 3.

**Input Document** • 4.25 to 11 inches; auto-feed, 30-document capacity.

**Output Document** • roll-fed, 8.5 inches x length of original; 328-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 8.12 inches.

**Scanning Technique** • flatbed; CCD.

**Image Resolution (horizontal x vertical)** • 203x196/98 lpi; 98x98 lpi.

**Transmission Speed** • 22 seconds for 203x98 lpi at 9600 bps for Group 3; 3 minutes for 98x98 lpi for Group 2; 6 minutes for Group 1.

**Data Compression** • modified Huffman; line-skip transmission.

**Recorder/Paper** • thermal.

**Communications** • DDD network or dedicated line; auto-answer/disconnect.

**Dimensions** • 15.75x15.63x8.5 inches; 44.1 lbs.

**Other Features** • R.T.I. activity report; polling; turnaround and secure; voice contact paging; local copy mode; status and error indicators; self-diagnostics; contracts control.

**Date Introduced** • 1983.

**Units Installed** • not available.

**Cost** • \$3,750 single-unit purchase price.

### Canon FAX-320E

**Type** • tabletop AM/FM/Digital transceiver.

**Compatibility** • CCITT Groups 1, 2, and 3.

**Input Document** • 4.25x11 inches; auto-feed, 30-document capacity.

**Output Document** • roll-fed, 8.5 or 10.1 inches x length of original; 328-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 9.75 inches (normal); 6.25 inches (enlargement).

**Scanning Technique** • flatbed; CCD.

**Image Resolution (horizontal x vertical)** • 203x196/98 lpi; 98x98 lpi; 272x130/261 lpi; 163x78/157 lpi.

**Transmission Speed** • 20 seconds for 203x98; at 9600 bps for Group 3; 3 minutes for 98x98 lpi (Groups 1 and 2); 6 minutes for Group 1.

**Data Compression** • modified Huffman; line-skip transmission.

**Recorder/Paper** • thermal.

**Communications** • DDD network or dedicated line; auto-answer/disconnect.

**Dimensions** • 15.75x15.63x8.5 inches; 44.1 lbs.

**Other Features** • automatic and turnaround polling; phone reservation; automatic receiving; hang-up signal; voice contact paging; local copy mode; status and error indicators; self-diagnostics; contrast control; R.T.I. activity report; enlargement/reduction capability.

**Date Introduced** • 1983.

**Units Installed** • not available.

**Cost** • \$4,995 single-unit purchase price.

### Cannon Fax-510

**Type** • tabletop, AM/Digital transceiver.

**Compatibility** • CCITT Groups 1, 2, and 3.

**Input Document** • 4.13 to 11 inches x length of original; auto-feed, 5-document capacity.

**Output Document** • roll-fed, 8.5 x length of original; 328-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 8.13 inches.

**Scanning Technique** • flatbed; CCD.

**Image Resolution (horizontal x vertical)** • 203x196/98 lpi for Group 3; 98x98 lpi for Group 2.

**Transmission Speed** • 20 seconds at 203x98 lpi for Group 3 at 9600 bps; 3 minutes for Group 2; 6 minutes for Group 1.

**Data Compression** • modified Huffman; line-skip and Canon-buffered transmission.

**Recorder/Paper** • thermal.

**Communications** • DDD network or dedicated line; auto-answer/-disconnect; polling.

**Dimensions** • 16.38x15.75x6.38 inches; 28.7 lbs.

**Other Features** • automatic reduction; automatic background control; self-test/self-diagnostic capability; error detection; imprints time, date, and transmits terminal location on each document; polling; contrast control; phone reservation; copy function; hang-up alarm.

**Date Introduced** • 1984.

**Units Installed** • not available.

**Cost** • \$2,995 single-unit purchase price.

### ■ EXXON OFFICE SYSTEMS CO

777 Long Ridge Road, Stamford, CT 06904; 203-329-5000 • Canadian Distribution: none.

**Service** • vendor offers for all models • 90-day warranty parts/labor.

### Exxon Qwip 1200 FM Transceiver

**Type** • tabletop, FM transceiver.

**Compatibility** • most 4- and 6-minute FM units.

**Input Document** • up to 8.5x11 inches; manual single sheet.

**Output Document** • single sheet, 8.5x11 inches.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 8.5 inches.

## Facsimile Terminals

**Scanning Technique** • rotating cylinder; fiber optic; moving scan head.

**Image Resolution (horizontal x vertical)** • 96x64 lpi; 96x96 lpi.

**Transmission Speed** • 4 minutes for 96x64 lpi; 6 minutes for 96x96 lpi per 8.5x11-inch document.

**Data Compression** • none.

**Recorder/Paper** • electrosensitive.

**Communications** • voice-grade line; acoustic coupler standard.

**Dimensions** • 22.13x8x6.5 inches; 16 lbs.

**Other Features** • end-of-message signal; contrast control.

**Date Introduced** • 1975.

**Units Installed** • not available.

**Cost** • \$1,495 single-unit purchase price.

### □ Exxon Qwip 1300 AM Transceiver

**Type** • tabletop, AM transceiver.

**Compatibility** • CCITT Group 2.

**Input Document** • to 8.5x11 inches; manual single-sheet feed.

**Output Document** • single sheet, 8.5x11 inches.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 8.5 inches.

**Scanning Technique** • rotating cylinder; moving scan head.

**Image Resolution (horizontal x vertical)** • 86x78 lpi; 96x96 lpi.

**Transmission Speed** • 2 minutes for 86x78 lpi; 3 minutes for 96x96 lpi per 8.5x11-inch document.

**Data Compression** • none.

**Recorder/Paper** • electrosensitive.

**Communications** • voice-grade line; modular phone jack standard.

**Dimensions** • 11x8x8.5 inches; 17 lbs.

**Other Features** • end-of-message signal; contrast control.

**Date Introduced** • 1978.

**Units Installed** • not available.

**Cost** • \$1,495 single-unit purchase price.

### □ Exxon Qwip 2000/2150 AM/FM Transceiver

**Type** • tabletop, AM/FM transceiver.

**Compatibility** • CCITT Groups 1 and 2; Exxon Qwip 1000/1200/1300.

**Input Document** • 5 to 8.5x3.25 to 11 inches; auto-stack feed model 2150 only, 15-document capacity; manual single sheet feed model 2000.

**Output Document** • 8.5x11 inches; auto-feed with 150-document capacity on model 2150.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 8.5 inches.

**Scanning Technique** • rotating cylinder; moving scan head.

**Image Resolution (horizontal x vertical)** • 86x78 lpi; 96x96 lpi; 96x64 lpi.

**Transmission Speed** • 2 minutes for 86x78 lpi; 3 or 6 minutes for 96x96 lpi; 4 minutes for 96x64 lpi per 8.5x11-inch document.

**Data Compression** • none.

**Recorder/Paper** • electrosensitive.

**Communications** • DDD network; polling and auto-answer/disconnect standard.

**Dimensions** • 19.25x24.63x14.38 inches; 42 lbs model 2150 • 19.25x24.63x11.5 inches; 31.5 lbs model 2000.

**Other Features** • FM select • contrast control; auto-small document detector.

**Date Introduced** • 1980.

**Units Installed** • not available.

**Cost** • \$2,375/\$3,375 single-unit purchase price; \$107/\$145 2-year lease includes maintenance.

### □ Exxon Qwip 2210

**Type** • tabletop, AM/Digital transceiver.

**Compatibility** • CCITT Group 2 standard; Group 3 optional.

**Input Document** • 10.1 inches x length of original; semiauto single-sheet feed; optional auto-feed up to 30 documents.

**Output Document** • roll-fed, 10.1 inches x length of original; 328-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 10.1 inches.

**Scanning Technique** • flatbed; CCD array scanning.

**Image Resolution (horizontal x vertical)** • 204x96 (normal) or 204x196 lpi (fine) for digital; 96x96 lpi Group 2 optional.

**Transmission Speed** • 40/20 seconds for 204/96 lpi; 60/35 for 204x196 lpi; 3 minutes for Group 2.

**Data Compression** • modified Huffman and modified Read.

**Recorder/Paper** • thermal recorder/paper.

**Communications** • DDD network; polling and auto-answer/disconnect standard • optional 9600-bps modem.

**Dimensions** • 16x12x7 inches; 29 lbs.

**Other Features** • none indicated.

**Date Introduced** • 1983.

**Units Installed** • not available.

**Cost** • \$2,995 single-unit purchase price.

### □ Exxon Qwip 2310

**Type** • tabletop, AM/FM/Digital transceiver.

**Compatibility** • CCITT Groups 1 (optional), 2, and 3.

**Input Document** • up to 10.1 inches x length of original; auto-feed, 30-document capacity.

**Output Document** • roll-fed, 10.1 inches x length of original; 328-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 10.1 inches.

**Scanning Technique** • flatbed; CCD array scanning.

**Image Resolution (horizontal x vertical)** • 204x96 (normal) or 204x196 lpi (fine) for digital; 96x96 lpi Group 1 (optional) and Group 2.

**Transmission Speed** • 40/20 seconds for 204x96 lpi; 60/35 for 204x196 lpi all at 4800 bps; 6 minutes for Group 1 and 3 minutes for Group 2.

**Data Compression** • modified Huffman and modified Read.

**Recorder/Paper** • thermal recorder/paper.

**Communications** • DDD network; polling and auto-answer/disconnect standard • optional 9600-bps modem with 7200/4800/2400 fallback rates.

**Dimensions** • 17.7x18.4x8.35 inches; 50.6 lbs.

**Other Features** • can identify/verify polling terminals.

**Date Introduced** • 1982.

**Units Installed** • not available.

**Cost** • \$5,845/\$6,245/\$6,345/\$6,745 single-unit purchase price; \$225/\$235/\$280/\$290 per month under 2-year lease; lease price includes maintenance.

## Facsimile Terminals

### ■ HARRIS CORPORATION

1025 West Nasa Boulevard, Melbourne, FL 32919; 305-727-9100 • Canadian Distribution: Harris Corporation Limited; 19 Les Mills Road, Don Mills ON M3B 2T3; 416-441-2400.

**Service** • vendor offers for all models • service arrangements on request.

#### □ 500-RX Mark II

**Type** • tabletop, AM receiver.

**Compatibility** • Harris 500-TX.

**Input Document** • not applicable; receiver only.

**Output Document** • roll-fed, 8.5 and 10 inches x length of original; 350-foot roll.

**Half-Tone Support** • 256 shades of gray.

**Maximum Scanning Width** • not available.

**Scanning Technique** • not available.

**Image Resolution (horizontal x vertical)** • 285x285 lpi.

**Transmission Speed** • 1 minute per 8.5x11-inch document.

**Data Compression** • not applicable.

**Recorder/Paper** • photographic, dry silver.

**Communications** • FM modem; 125-KHz wideband, cable or microwave.

**Dimensions** • 26x27.5x19 inches.

**Other Features** • used for news photo, weather information, and fingerprints • optional photographic transparency output • up to 256 shades of gray.

**Date Introduced** • 1975.

**Units Installed** • 50.

**Cost** • \$16,900 single-unit purchase price.

#### □ 500-TX Mark II

**Type** • tabletop, AM transmitter.

**Compatibility** • Harris 500-RX.

**Input Document** • 8.5 to 10x6 to 14 inches; single sheet.

**Output Document** • not applicable; transmitter only.

**Half-Tone Support** • 256 shades of gray.

**Maximum Scanning Width** • 8.5 inches.

**Scanning Technique** • flatbed; laser.

**Image Resolution (horizontal x vertical)** • 285x285 lpi.

**Transmission Speed** • 1 minute per 8.5x11-inch document.

**Data Compression** • none.

**Recorder/Paper** • not applicable.

**Communications** • FM modem; 125-KHz wideband; cable or microwave.

**Dimensions** • 26x27.5x19 inches.

**Other Features** • used for news photo, weather information, and fingerprints • optional photographic transparency output.

**Date Introduced** • 1975.

**Units Installed** • 50.

**Cost** • \$14,400 single-unit purchase price.

#### □ 600-RX

**Type** • tabletop, digital receiver.

**Compatibility** • computer with appropriate interface.

**Input Document** • not applicable; receive only.

**Output Document** • roll-fed, 8.5x10 inches x length of original; 350-foot roll.

**Half-Tone Support** • 256 shades of gray.

**Maximum Scanning Width** • not available.

**Scanning Technique** • not applicable.

**Image Resolution (horizontal x vertical)** • 256x256 lpi.

**Transmission Speed** • 3.5 minutes per 8.5x11-inch document.

**Data Compression** • not applicable.

**Recorder/Paper** • photographic, dry silver.

**Communications** • direct connect to sender.

**Dimensions** • 26x27.5x19 inches; 105 lbs.

**Other Features** • optional photographic transparency output • up to 256 shades of gray.

**Date Introduced** • 1976.

**Units Installed** • less than 10.

**Cost** • \$17,600/\$17,700 single-unit purchase price.

#### □ 800-RX Mark II

**Type** • tabletop, AM receiver.

**Compatibility** • Harris 800 transmitter.

**Input Document** • not applicable; receiver only.

**Output Document** • roll-fed, 8.5x10 inches x length of original; 350-foot roll.

**Half-Tone Support** • 256 shades of gray.

**Maximum Scanning Width** • not applicable.

**Scanning Technique** • not applicable.

**Image Resolution (horizontal x vertical)** • 200x200 lpi; 100x100 lpi.

**Transmission Speed** • 16 minutes at 200 lpi; 4 minutes at 100 lpi per 8.5x11-inch document.

**Data Compression** • not applicable.

**Recorder/Paper** • photographic, dry silver.

**Communications** • voice-grade; leased; conditional; 1000A data coupler standard.

**Dimensions** • 16x26x18.25 inches; 90 lbs.

**Other Features** • used for news photo, weather information, and fingerprints • optional photographic transparency output • up to 256 shades of gray.

**Date Introduced** • 1975.

**Units Installed** • several hundred.

**Cost** • \$16,200 single-unit purchase price.

#### □ 800-TX Mark II

**Type** • tabletop, AM transmitter.

**Compatibility** • Harris 800 receiver.

**Input Document** • to 10x14 inches.

**Output Document** • not applicable; transmitter only.

**Half-Tone Support** • 256 shades of gray.

**Maximum Scanning Width** • 10 inches.

**Scanning Technique** • flatbed; laser.

**Image Resolution (horizontal x vertical)** • 200x200 lpi; 100x100 lpi.

**Transmission Speed** • 16 minutes at 200 lpi; 4 minutes at 100 lpi per 8.5x11-inch document.

**Data Compression** • none.

**Recorder/Paper** • not applicable.

**Communications** • voice-grade; leased; conditioned; 1000A data coupler standard.

**Dimensions** • 14x18.5x16 inches; 50 lbs.

**Other Features** • used for news photo, weather information, and

## Facsimile Terminals

fingerprints • optional photographic transparency output • up to 256 shades of gray.

**Date Introduced** • 1975.

**Units Installed** • several hundred.

**Cost** • \$12,800 single-unit purchase price.

### □ 850-RX Mark II

**Type** • tabletop, AM receiver.

**Compatibility** • all standard World Meteorological Association (WMO) weather satellites.

**Input Document** • not applicable.

**Output Document** • roll-fed, 8.5x10 inches x length of original; 350-foot roll.

**Half-Tone Support** • 256 shades of gray.

**Maximum Scanning Width** • not applicable.

**Scanning Technique** • not applicable.

**Image Resolution (horizontal x vertical)** • 96x208 lpi per 8.5x11-inch document.

**Transmission Speed** • up to 16 minutes.

**Data Compression** • not applicable.

**Recorder/Paper** • photographic, dry silver.

**Communications** • news wire; DDD.

**Dimensions** • 16x26x18.5 inches; 90 lbs.

**Other Features** • weather recorder; switch-selectable positive or negative image capability • up to 256 shades of gray.

**Date Introduced** • 1976.

**Units Installed** • several hundred.

**Cost** • \$15,900 single-unit purchase price.

### □ 850-TX Mark II

**Type** • tabletop, AM transmitter.

**Compatibility** • all standard World Meteorological Association (WMO) weather satellites.

**Input Document** • to 10x14 inches.

**Output Document** • not applicable; transmitter only.

**Half-Tone Support** • 256 shades of gray.

**Maximum Scanning Width** • 10 inches.

**Scanning Technique** • flatbed; laser.

**Image Resolution (horizontal x vertical)** • 96x208 lpi.

**Transmission Speed** • up to 16 minutes.

**Data Compression** • none.

**Recorder/Paper** • not applicable.

**Communications** • news wire; DDD network.

**Dimensions** • 14x18.5x16 inches; 50 lbs.

**Other Features** • weather recorder; switch-selectable positive or negative image capability • up to 256 shades of gray.

**Date Introduced** • 1983.

**Units Installed** • not available.

**Cost** • \$12,200 single-unit purchase price.

### □ 860-RX Mark II

**Type** • tabletop, AM receiver.

**Compatibility** • 800 series; CCITT international standard.

**Input Document** • not applicable • receiver only.

**Output Document** • roll-fed, 8.5x10 inches x length of original; 350-foot roll.

**Half-Tone Support** • 256 shades of gray.

**Maximum Scanning Width** • not applicable.

**Scanning Technique** • not applicable.

**Image Resolution (horizontal x vertical)** • 111x111 lpi per 8.5x11-inch document.

**Transmission Speed** • up to 7 minutes.

**Data Compression** • not applicable; receive only.

**Recorder/Paper** • photographic, dry silver.

**Communications** • news wire; DDD.

**Dimensions** • 16x26x18.5 inches; 90 lbs.

**Other Features** • photographic reproduction of news photographs from news wire service • up to 256 shades of gray.

**Date Introduced** • 1976.

**Units Installed** • several hundred.

**Cost** • \$15,500 single-unit purchase price.

### ■ INTERNATIONAL BUSINESS MACHINES (IBM) CORPORATION/Information Systems Group

National Accounts Division; 1133 Westchester Avenue, White Plains, NY 10604; 914-696-1900 • National Marketing Division; 4111 Northside Parkway, Atlanta, GA 30327; 404-238-2000 • Canadian Distribution: IBM Canada Limited; 3500 Steeles Avenue East, Markham ON L3R 2Z1; 416-474-2111.

**Service** • vendor offers on all models • 90-day warranty • on-site maintenance.

### □ IBM 8815 Scanmaster Models 1, 3 & 4

**Type** • floor-console, digital transceiver.

**Compatibility** • IBM digital compatibility • CCITT Group 2 on RPQ basis only.

**Input Document** • 8.5x14 inches; auto-feed, 30-document capacity.

**Output Document** • roll-fed, 8.5 inches x length of original; 492-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 7.84 inches.

**Scanning Technique** • flatbed; CCD.

**Image Resolution (horizontal x vertical)** • 203x98/196 lpi.

**Transmission Speed** • 20 seconds for 203x98 lpi at 9600 bps.

**Data Compression** • proprietary.

**Recorder/Paper** • multistylus electrostatic with dry toner.

**Communications** • DDD network on private line; terminal-to-terminal/system-to-system under SNA/SDLC; Models 3 and 4 include FCC-certified, half-duplex 4800-/2400-bps modem; manual originate/disconnect.

**Dimensions** • 35.5x19.75x29 inches; 284 lbs.

**Other Features** • local print capability; message store/forward/routing in conjunction with host processor; data encryption.

**Date Introduced** • 1983.

**Units Installed** • not available.

**Cost** • \$11,800/\$14,800 single-unit purchase price; \$642/\$802 per month 1-year lease; \$99/\$121 per month maintenance (Models 1, 3, and 4).

### ■ LITTON SYSTEMS/AMECOM DIVISION

5115 Calvert Road, College Park, MD 20740; 301-864-5600 • Canadian Distribution: Kester Solder; 1 Prince Charles Road, P.O. Box 474, Brantford, ON N3T 5N9; 519-753-3425.

**Service** • vendor offers on all models • service contracts are available.

## Facsimile Terminals

### □ Litton Tactical Digital Facsimile (TDF)

**Type** • militarized construction (MIL-E-16400/MIL-STD-454, Digital Transceiver.

**Compatibility** • NATO interoperable standard; STANAG 5000 Type 1 and Type 2 protocols.

**Input Document** • 5 to 8.5x3 to 39.37 inches.

**Output Document** • roll-fed, 8.5x11 inches; 400-foot roll.

**Half-Tone Support** • 16 shades of gray.

**Maximum Scanning Width** • 8.5 inches.

**Scanning Technique** • laser.

**Image Resolution (horizontal x vertical)** • 102x98 lpi; 204x196/98 lpi.

**Transmission Speed** • under 25 seconds at 9600 bps for 8.5x11-inch document.

**Data Compression** • not available.

**Recorder/Paper** • dry, electrophotographic paper.

**Communications** • dedicated line, radio circuits, or wider bandwidth channels (including tri-tac digital system); operates at 32/16K bps full-/half-duplex.

**Dimensions** • 18.5x24.38x20 inches; 150 lbs.

**Other Features** • copy function; tolerant of extreme temperatures, high altitudes, shock and vibration, sand and dust, salt fog, fungus, rain, nuclear exposure; adaptable to any platform, shore station, or shipboard.

**Date Introduced** • 1984.

**Units Installed** • not available.

**Cost** • \$80,000 single-unit purchase price.

### ■ 3M COMPANY/OFFICE SYSTEMS DIVISION

3M Center, St. Paul, MN 55144 • 612-733-1110 • Canadian Distribution: 3M Canada Inc; P.O. Box 5757, Terminal A, 1840 Oxford Street East, Lenden, ON N6A 4T1; 519-451-2500.

**Service** • vendor offers on all models • 1-year warranty • on-site vendor maintenance • service contract available.

### □ EMT 1000E

**Type** • tabletop, AM/FM transceiver.

**Compatibility** • CCITT Group 1 and 2; DMS 2700.

**Input Document** • 8.75x23 inches; manual feed.

**Output Document** • roll-fed, 8.5 inches x length of original; 330-foot roll.

**Half-Tone Support** • 16 shades of gray.

**Maximum Scanning Width** • 8.5 inches.

**Scanning Technique** • flatbed; photo diode array.

**Image Resolution (horizontal x vertical)** • 96x64 lpi; 96x96 lpi; 96x144 lpi.

**Transmission Speed** • 80 seconds for 96x64 lpi; 3 minutes for 96x96 lpi; 4.5 minutes for 96x144 lpi.

**Data Compression** • none.

**Recorder/Paper** • thermal.

**Communications** • DDD network or dedicated line; built-in DAA.

**Dimensions** • 7x20x15 inches; 44 lbs.

**Other Features** • manual contrast control; auto-document feed, auto cut, auto-answer/disconnect/dial all optional.

**Date Introduced** • acquired by 3M May 1982.

**Units Installed** • not available.

**Cost** • \$1,799/\$1,245 single-unit purchase price; \$100 per month 3-year lease.

### □ EMT 2346

**Type** • tabletop, AM/FM transceiver.

**Compatibility** • CCITT Groups 1 and 2.

**Input Document** • up to 8.5x11 inches; manual feed.

**Output Document** • 8.5x11 inches; single sheet.

**Half-Tone Support** • 16 shades of gray.

**Maximum Scanning Width** • 8.5 inches.

**Scanning Technique** • rotating cylinder; moving scan head.

**Image Resolution (horizontal x vertical)** • 96x64/96 lpi.

**Transmission Speed** • 3 or 6 minutes for 96 lpi; 2 or 4 minutes for 64 lpi.

**Data Compression** • none.

**Recorder/Paper** • stylus/electrosensitive.

**Communications** • DDD network or dedicated line • internal FCC-registered interconnect modular standard; connects to USOC RJ 11C telephone jacks; auto-answer/disconnect standard.

**Dimensions** • 14.5x21x4.63 inches; 32 lbs.

**Date Introduced** • 1977.

**Units Installed** • not available.

**Cost** • \$950 single-unit purchase price; \$60 per month under 3-year lease.

### □ 3M EMT 9140

**Type** • tabletop, AM/Digital transceiver.

**Compatibility** • CCITT Groups 2 and 3.

**Input Document** • up to 8.5x14 inches • auto-feed, 30-document capacity.

**Output Document** • roll-fed, 8.5 inches x length of original; 115-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 8.5 inches.

**Scanning Technique** • flat-bed; CCD array.

**Image Resolution (horizontal x vertical)** • 200x100 lpi for Group 3; 100x100 lpi for Group 2.

**Transmission Speed** • less than 1 minute for Group 3; 3 minutes for Group 2.

**Data Compression** • modified Huffman.

**Recorder/Paper** • thermal.

**Communications** • DDD network or dedicated line • operates at 2400 bps • auto-dial/answer/disconnect standard.

**Dimensions** • 14x5x12 inches; 33 lbs.

**Other Features** • time and date stamp; message confirmations; voice request/call back; self-test; terminal ID.

**Date Introduced** • 1982.

**Units Installed** • not available.

**Cost** • \$1,899 single-unit purchase price; \$100 per month under 3-year lease.

### □ 3M EMT 9145

**Type** • tabletop, AM/Digital transceiver.

**Compatibility** • CCITT Groups 2 and 3.

**Input Document** • 8.5x11 inches; single-sheet manual feed; optional auto-feed, 30-document capacity.

**Output Document** • roll-fed, 8.5 inches x length of original; 115-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 8.5 inches.

## Facsimile Terminals

**Scanning Technique** • flatbed; CCD.

**Image Resolution (horizontal x vertical)** • 200x200/100 lpi for Group 3; 100x100 lpi for Group 2.

**Transmission Speed** • less than 1 minute for Group 3 at 4800 bps; 3 minutes for Group 2.

**Data Compression** • none.

**Recorder/Paper** • thermal.

**Communications** • DDD network or dedicated line; 4800-bps modem half-duplex.

**Dimensions** • 22x14x5 inches; 33 lbs.

**Other Features** • automatic cutter; self-test/self-diagnostic capability; imprints time, date, and transmitting terminal location on each document; message confirmation; call-back message; voice capability; optional auto-dial and external modem port.

**Date Introduced** • 1984.

**Units Installed** • not available.

**Cost** • \$3,260 single-unit purchase price.

### □ 3M EMT 9160

**Type** • tabletop, AM/Digital transceiver.

**Compatibility** • CCITT Groups 2 and 3; 3M 2346/EMT 9136.

**Input Document** • 7 to 10x5 to 18 inches; auto-feed, 30-document capacity.

**Output Document** • roll-fed, 8.5 inches x length of original; 350-foot roll.

**Half-Tone Support** • 16 shades of gray.

**Maximum Scanning Width** • 10 inches.

**Scanning Technique** • CCD scan head.

**Image Resolution (horizontal x vertical)** • 96x96 lpi for Group 2; 200x200 lpi for fine; 200x100 lpi standard for Group 3.

**Transmission Speed** • 35 seconds at 9600 bps; 3 minutes for Group 2.

**Data Compression** • modified Huffman; modified Read.

**Recorder/Paper** • thermal.

**Communications** • DDD network or dedicated line; operates at 9600/7200/4800/2400 bps half-duplex; auto-answer/disconnect and FCC USOC regulation jack standard.

**Dimensions** • 21x17x9 inches; 55 lbs.

**Other Features** • oversized document reduction; contrast control.

**Date Introduced** • 1981.

**Units Installed** • not available.

**Cost** • \$2,345 single-unit purchase price; \$160 per month under 3-year lease.

### □ 3M EMT 9165

**Type** • tabletop, AM/FM/Digital transceiver.

**Compatibility** • CCITT Groups 1, 2, and 3.

**Input Document** • 7 to 10.5x5 to 50 inches; auto-feed, 50-document capacity.

**Output Document** • roll-fed, 10 inches x length of original; 350-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 10 inches.

**Scanning Technique** • flatbed.

**Image Resolution (horizontal x vertical)** • 200x400/200/100 lpi for Group 3; 96x96 lpi for Groups 1 and 2.

**Transmission Speed** • less than 1 minute for 8.5x11-inch document at 9600 bps; 3 minutes for Group 2; 6 minutes for Group 1.

**Data Compression** • modified Huffman.

**Recorder/Paper** • thermal.

**Communications** • DDD network or dedicated line; operates at 9600/7200/4800/2400 bps half-duplex; polling; auto-dial/answer/disconnect; external modem port; voice capability.

**Dimensions** • 22.4x21.24x11.2 inches; 55 lbs.

**Other Features** • auto-reduction; auto-dial; imprints time, date, and transmitting terminal location on each document; polling; contrast control; status reporting; encryption; external modem port; voice capability.

**Date Introduced** • 1984.

**Units Installed** • not available.

**Cost** • \$5,495 single-unit purchase price.

### □ 3M EMT 9175

**Type** • tabletop, AM/FM/Digital transceiver.

**Compatibility** • CCITT Groups 1, 2, and 3.

**Input Document** • 7 to 11x5 to 50 inches; auto-feed, 30-document capacity.

**Output Document** • roll-fed, 8.5 inches x length of original; 328-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 10 inches.

**Scanning Technique** • flatbed.

**Image Resolution (horizontal x vertical)** • 200x200 lpi; 200x100 lpi.

**Transmission Speed** • 20 seconds for Group 3; 3 minutes for Group 2; 6 minutes for Group 1.

**Data Compression** • white line skipping.

**Recorder/Paper** • thermal.

**Communications** • DDD network or dedicated line; operates at 9600/7200/4800/2400 bps half-duplex; polling; auto-answer/disconnect; RS-232C port; voice capability.

**Dimensions** • 13x19x7 inches; 26 lbs.

**Other Features** • auto-reduction; auto-receive; auto-answer; auto-disconnect; polling; contrast control; status reporting; encryption; RS-232C port.

**Date Introduced** • 1985.

**Units Installed** • not available.

**Cost** • \$3,495 single-unit purchase price.

### ■ MUIRHEAD INC

1101 Bristol Road, Mountainside, NJ 07092; 201-233-6010 • Canadian Distribution: Muirhead Canada; 50 Galaxy Boulevard, Unit 4, Rexdale, ON M9W 4Y5; 416-675-7450.

**Service** • vendor offers for all models on-site vendor service.

### □ Model K-150 TR4 Chart Transmitter

**Type** • tabletop, AM/FM transmitter.

**Compatibility** • Muirhead model K-649.

**Input Document** • 17.88x22 inches; single sheet, manual feed.

**Output Document** • not applicable.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 18 inches.

**Scanning Technique** • drum.

**Image Resolution (horizontal x vertical)** • 96x48 lpi.

**Transmission Speed** • 1 to 4 minutes per 18x22-inch document.

**Data Compression** • none.

**Recorder/Paper** • not applicable.

## Facsimile Terminals

**Communications** • DDD network or dedicated line • DAA- or FCC-registered 4800 bps • V.24 modem interface standard.

**Dimensions** • 38x22x18.5 inches.

**Other Features** • plug-in AM/FM conversion • contrast control.

**Date Introduced** • 1972.

**Units Installed** • not available.

**Cost** • \$28,500; not available for lease.

### □ Model K570-A/K-570-B/K-570-DFB

**Type** • tabletop, AM/FM transmitter.

**Compatibility** • Muirhead models K-560, M-136 and M-300 • CCITT Groups 1 and 2.

**Input Document** • 8x8 inches (model A); 10x10.5 inches (model B); 8x11 inches (Model DFB) single sheet, manual feed.

**Output Document** • not applicable; transmitter only.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 8 inches (model A); 10 inches (model B).

**Scanning Technique** • rotating cylinder; moving scan head.

**Image Resolution (horizontal x vertical)** • 100x200 lpi for model B; 128x250 lpi for model A; 96x192 lpi for Model DFB.

**Transmission Speed** • 60 seconds for model B per 8x8-inch document; 120 seconds for model A per 10x10.5-inch document; 240 seconds for Model DFB per 8x11-inch document.

**Data Compression** • none.

**Recorder/Paper** • not applicable.

**Communications** • DDD network or dedicated line; requires DAA- or FCC-certified modem or jack.

**Dimensions** • 18.5x12.75x7.25 inches; 22 lbs.

**Other Features** • loudspeaker monitor; scan selector guides • contrast control.

**Date Introduced** • 1975.

**Units Installed** • not available.

**Cost** • \$7,500 single-unit purchase price • on-site, vendor service; maintenance included in lease.

### □ Model K-560

**Type** • floor-console, AM receiver.

**Compatibility** • Muirhead models K-470 and M-146.

**Input Document** • not applicable.

**Output Document** • roll-fed, 8.25 or 10 inches x length of original; 350-foot roll.

**Half-Tone Support** • 16 shades of gray.

**Maximum Scanning Width** • not applicable.

**Scanning Technique** • not applicable.

**Image Resolution (horizontal x vertical)** • 63x63 lpi; 94x94 lpi; 125x125 lpi.

**Transmission Speed** • 2 or 4 minutes for 63 lpi; 3 or 6 minutes for 94 lpi; 8 minutes for 125 lpi.

**Data Compression** • none.

**Recorder/Paper** • dielectric.

**Communications** • DDD network or dedicated line • requires DAA • auto-disconnect standard.

**Dimensions** • 30.25x19.75x44 inches; 375 lbs.

**Other Features** • employs 2-bath stabilization photo processor.

**Date Introduced** • 1976.

**Units Installed** • not available.

**Cost** • \$29,500 purchase; not available for lease • on-site, vendor service \$150 per month.

### □ Model K-949-TR4 Chart Receiver

**Type** • tabletop, AM/FM receiver.

**Compatibility** • Muirhead model K-150.

**Input Document** • not applicable.

**Output Document** • roll-fed, 18 inches x length of original; 100-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • not applicable.

**Scanning Technique** • not applicable.

**Image Resolution (horizontal x vertical)** • 96x48 lpi.

**Transmission Speed** • 1 to 4 minutes per 18x22-inch document.

**Data Compression** • none.

**Recorder/Paper** • electrosensitive.

**Communications** • DDD network or dedicated line • DAA- or FCC-registered 4800-bps V.24 modem interface standard.

**Dimensions** • 29.25x14x22.75 inches; 150 lbs.

**Other Features** • plug-in AM/FM conversion; satellite picture conversion.

**Date Introduced** • 1968.

**Units Installed** • not available.

**Cost** • \$20,415; not available for lease • on-site, vendor service.

### □ Model 6400/6401

**Type** • tabletop, AM/FM transceiver.

**Compatibility** • CCITT Group 2; CCITT Group 1 (6401 only); proprietary.

**Input Document** • to 8.25x17 inches; manual single sheet or auto-feed, 30-document capacity.

**Output Document** • roll-fed, 8.25 inches x length of original; 328-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 8.5 inches.

**Scanning Technique** • photo diode array.

**Image Resolution (horizontal x vertical)** • 65x130 lpi; 100x130 lpi; 130x130 lpi.

**Transmission Speed** • less than 1 minute (proprietary) or 2/3/4 minutes.

**Data Compression** • white space skipping.

**Recorder/Paper** • thermal.

**Communications** • DDD network or dedicated line • built-in coupler • auto-answer/disconnect standard.

**Dimensions** • 16.54x22.44x9.84 inches; 11.82 lbs.

**Other Features** • loudspeaker facility; contrast control; security ID and self-test standard; integral multidocument stackfeeder (6401); optional encryption devices and auto-operation on private circuits (6401).

**Date Introduced** • 1980.

**Units Installed** • 2800 worldwide.

**Cost** • \$6,500 purchase; \$150 per month • on-site, vendor service; maintenance included in lease.

### □ Laser Pagefax Transmitter

**Type** • floor-console, digital transmitter.

**Compatibility** • Muirhead model M 40/60.

**Input Document** • 20x24 inches; single sheet, manual feed.

**Output Document** • not applicable.

**Half-Tone Support** • none.

## Facsimile Terminals

**Maximum Scanning Width** • 34 inches.  
**Scanning Technique** • moving flatbed; laser scan.  
**Image Resolution (horizontal x vertical)** • 400x400 lpi; 1000x1000 lpi.  
**Transmission Speed** • 1 minute per 20x24-inch document.  
**Data Compression** • none.  
**Recorder/Paper** • not applicable.  
**Communications** • conditioned wideband or DDS.  
**Dimensions** • 32.5x81x60 inches; 725 lbs.  
**Other Features** • vacuum copy platen; plate-making; fast forward/reverse.  
**Date Introduced** • 1976.  
**Units Installed** • not available.  
**Cost** • \$85,000 purchase; not available for lease • on-site, vendor service.

### Laser Pagefax Receiver

**Type** • floor-console, digital receiver.  
**Compatibility** • Muirhead model M-40/60.  
**Input Document** • not applicable.  
**Output Document** • 20x24 inches; single sheet, manual feed.  
**Half-Tone Support** • not applicable.  
**Maximum Scanning Width** • not applicable.  
**Scanning Technique** • not applicable.  
**Image Resolution (horizontal x vertical)** • 400x400 lpi; 1000x1000 lpi.  
**Transmission Speed** • 1 minute per 20x24-inch document.  
**Data Compression** • none.  
**Recorder/Paper** • photographic.  
**Communications** • conditioned wideband or DDS.  
**Dimensions** • 32.5x107x60 inches; 1100 lbs.  
**Other Features** • direct plate-making; vacuum copy platen; fast forward/reverse.  
**Date Introduced** • 1976.  
**Units Installed** • not available.  
**Cost** • \$95,000 purchase; not available for lease • on-site, vendor service.

### Viewfax I

**Type** • floor console digital receiver.  
**Compatibility** • news service; CCITT T1.  
**Input Document** • not applicable.  
**Output Document** • not applicable.  
**Half-Tone Support** • 32 shades of gray.  
**Maximum Scanning Width** • not applicable.  
**Scanning Technique** • not applicable.  
**Image Resolution (horizontal x vertical)** • 200x200 lpi.  
**Transmission Speed** • not applicable.  
**Data Compression** • none.  
**Recorder/Paper** • not applicable.  
**Communications** • DDD network or private lines.  
**Dimensions** • 24x36x40 inches; 275 lbs.  
**Other Features** • color video; store and forward.  
**Date Introduced** • 1982.  
**Units Installed** • 12.

**Cost** • \$59,000 single-unit purchase price • on-site vendor service.

### Viewfax II

**Type** • tabletop; digital receiver.  
**Compatibility** • news service, CCITT T1.  
**Input Document** • not applicable.  
**Output Document** • not applicable.  
**Half-Tone Support** • 32 shades of gray.  
**Maximum Scanning Width** • not applicable.  
**Scanning Technique** • not applicable.  
**Image Resolution (horizontal x vertical)** • 200x200 lpi.  
**Transmission Speed** • not applicable.  
**Data Compression** • none.  
**Recorder/Paper** • not applicable.  
**Communications** • DDD network or private line.  
**Dimensions** • 24x24x20 inches; 40 lbs.  
**Other Features** • black and white video; store and forward.  
**Date Introduced** • 1983.  
**Units Installed** • none.  
**Cost** • \$18,000 single-unit purchase price • on-site vendor service.

### MURATA BUSINESS SYSTEMS INC

4801 Spring Valley Road, Building 108B, Dallas, TX 75244; 214-392-1622 • Canadian Distribution: Oceanic Electronics Corp; 1245 Sherbrooke Street West, Suite 1900, Montreal H3G 1G2; 514-288-6422.

**Service** • vendor offers on all models • maintenance contract; regional diagnostic centers • third-party service on-site anywhere in the U.S. through 500 locations.

### Murata-Multifax 7100

**Type** • tabletop, digital transceiver.  
**Compatibility** • CCITT Group 3.  
**Input Document** • 4.72 to 11.02x3.94 to 118.11 inches; auto-feed, 30-document capacity.  
**Output Document** • roll-fed, 8.5 inches x length of original; 328-foot roll.  
**Half-Tone Support** • none.  
**Maximum Scanning Width** • 8.5 inches.  
**Scanning Technique** • solid state; CCD.  
**Image Resolution (horizontal x vertical)** • 203x196 lpi; 203x98 lpi.  
**Transmission Speed** • 26 seconds at 4800 bps.  
**Data Compression** • modified Huffman; modified Read; Murata Super Express.  
**Recorder/Paper** • thermal.  
**Communications** • DDD network; operates at 4800 bps; auto-answer/-disconnect; polling.  
**Dimensions** • 21.38x16.14x7.87 inches; 44.05 lbs.  
**Other Features** • auto-reduction; auto-page counting; auto-cutting; auto-image enhancement; auto-document feeder; imprint time/date and transmitting terminal location on each document; polling; receive confirmation report; operator call; convenience copier; continuous monitoring.  
**Date Introduced** • 1984.  
**Units Installed** • not available.  
**Cost** • \$2,495 single-unit purchase price.

## Facsimile Terminals

### □ Murata-Multifax 7200

**Type** • tabletop, AM/FM/Digital transceiver.

**Compatibility** • CCITT Groups 1, 2, and 3.

**Input Document** • 4.72 to 11.02x3.94 to 118.11 inches; auto-feed, 30-document capacity.

**Output Document** • roll-fed, 8.5 inches x length of original; 328-foot roll; optional B4 printer, 10 inches x length of original; 328-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 8.5 inches.

**Scanning Technique** • solid state; CCD.

**Image Resolution (horizontal x vertical)** • 203x196/98 lpi for Group 3; 203x98 lpi for Groups 2 and 1.

**Transmission Speed** • 16 seconds for Group 3 at 9600 bps; 3 minutes for Group 2; 6 minutes for Group 1.

**Data Compression** • modified Huffman; modified Read; Murata Super Express.

**Recorder/Paper** • thermal.

**Communications** • DDD network; operates at 9600 bps with automatic fallback to 7200/4800/2400 bps; auto-answer/disconnect; polling; RS-232C interface.

**Dimensions** • 21.38x16.14x7.87 inches; 44.05 lbs.

**Other Features** • auto-reduction; auto-page counting; auto-cutting; auto-image enhancement; auto-document feeder; imprints time, date, and transmitting terminal location on each document; polling; receive confirmation report; operator call; convenience copier; continuous monitoring; optional B4 printer.

**Date Introduced** • 1984.

**Units Installed** • not available.

**Cost** • \$3,495 single-unit purchase price.

### ■ NEC AMERICA, INC

767 Third Avenue, New York, NY 10017; 212-751-8920 • Canadian Distribution: Interconnect Equipment Systems; 20 Steelcase Road West, Unit 3, Markham, ON L3R 1B2; 416-475-0282.

**Service** • vendor offers on all models • 1-year warranty • on-site vendor service.

### □ NEC-BIT I

**Type** • tabletop, AM/FM/Digital transceiver.

**Compatibility** • CCITT Groups 1, 2, and 3.

**Input Document** • 5.0 to 11.7x0.42 to 39.36 inches; auto-feed, 50-document capacity.

**Output Document** • roll-fed, 8.5 inches x length of original; 328-foot roll; optional B4 printer, 10 inches x length of original.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 8.5 inches.

**Scanning Technique** • flatbed; CCD.

**Image Resolution (horizontal x vertical)** • 200x200 lpi; 100x200 lpi.

**Transmission Speed** • 12 seconds at 9600 bps.

**Data Compression** • modified Huffman; modified Read/Ultra modified Read.

**Recorder/Paper** • thermal.

**Communications** • DDD network; operates at 9600-bps automatic fallback to 7200/4800/2400 bps half-duplex; polling; auto-answer; voice capability; ASCII interface; RS-232C interface.

**Dimensions** • 18.9x21.0x9.6 inches; 64 lbs.

**Other Features** • auto-reduction/enlargement; auto-answer;

auto-cutter; auto-diagnostics; auto-resolution control; error detection; imprints time, date, and transmitting terminal location on each document; polling; contrast control; copy function; telephone directory; voice capability; paper-lined indicator; 20 programmable dial keys.

**Date Introduced** • 1985.

**Units Installed** • not available.

**Cost** • \$3,895 single-unit purchase price.

### □ NEC-BIT II

**Type** • tabletop, AM/FM/Digital transceiver.

**Compatibility** • CCITT Groups 1, 2, and 3.

**Input Document** • 5.0 to 11.7x0.42 to 39.36 inches; auto-feed, 50-document capacity.

**Output Document** • roll-fed, 8.5 inches x length of original; 328-foot roll; optional B4 printer, 10 inches x length of original; 328-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 8.5 inches.

**Scanning Technique** • flatbed; CCD.

**Image Resolution (horizontal x vertical)** • 200x200 lpi; 100x200 lpi.

**Transmission Speed** • 12 seconds at 9600 bps.

**Data Compression** • modified Huffman; modified Read/Ultra modified Read.

**Recorder/Paper** • thermal.

**Communications** • DDD network; operates at 9600 bps with automatic fallback to 7200/4800/2400 bps half-duplex; polling; auto-answer; voice capability.

**Dimensions** • 18.9x21.0x9.6 inches; 64 lbs.

**Other Features** • auto-reduction/enlargement; auto-answer; auto-cutter; auto-diagnostics; error detection; imprints time, date, and transmitting terminal location on each document; polling; contrast control; copy function; telephone directory; voice capability; activity report; transmission reservation capability; 20 programmable dial keys.

**Date Introduced** • 1985.

**Units Installed** • not available.

**Cost** • \$4,995 single-unit purchase price.

### □ NEC-BIT III

**Type** • tabletop, AM/FM/Digital transceiver.

**Compatibility** • CCITT Groups 1, 2, and 3.

**Input Document** • 5.0 to 10.12x0.42 to 39.36 inches; auto-feed, 30-document capacity.

**Output Document** • roll-fed, 8.5 inches x length of original; 328-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 8.5 inches.

**Scanning Technique** • flatbed; CCD.

**Image Resolution (horizontal x vertical)** • 200x200 lpi; 100x200 lpi.

**Transmission Speed** • 15 seconds at 9600 bps.

**Data Compression** • modified Huffman.

**Recorder/Paper** • thermal.

**Communications** • DDD network; operating at 9600 bps with automatic fallback to 7200/4800/2400 bps half-duplex.

**Dimensions** • 14.4x16.3x6.7 inches; 32 lbs.

**Other Features** • auto-reduction; auto-answer; auto-receive; auto-diagnostic; imprints time, date, and transmitting terminal on each document; contrast control; polling; copy function; paper

## Facsimile Terminals

level indicator; voice capability; built-in telephone dial pad and speaker; liquid crystal display; programmable dial keys.

**Date Introduced** • 1985.

**Units Installed** • not available.

**Cost** • \$2,995 single-unit purchase price.

### □ NEC System IID

**Type** • tabletop, AM/FM transceiver.

**Compatibility** • CCITT Groups 1 and 2.

**Input Document** • 8.5 inches x any length; auto-feed, 40-document capacity.

**Output Document** • 8.5 inches x length of original; 328-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 8.5 inches.

**Scanning Technique** • flatbed; CCD array.

**Image Resolution (horizontal x vertical)** • standard 78/80 lpi; Group 2 96x96 lpi; FM 64x96 lpi; high 152x148 lpi.

**Transmission Speed** • 40 seconds for 80 lpi; 70 seconds for 96 lpi; 5 minutes for 148 lpi; block skip 40 seconds for 80 lpi; 70 seconds for 96 lpi; 90 seconds for 148 lpi per 8.5x11-inch document.

**Data Compression** • none.

**Recorder/Paper** • thermal.

**Communications** • DDD; polling and auto-answer/disconnect standard.

**Dimensions** • 21.3x22x10.2 inches; 55 lbs.

**Other Features** • self-diagnostic/self-test capability; auto-reduction; password ID; call-up button.

**Date Introduced** • 1981.

**Units Installed** • not available.

**Cost** • \$5,400 purchase; \$145 per month under 3-year lease.

### □ NEC System IIIS

**Type** • table-top digital AM transceiver.

**Compatibility** • CCITT Groups 2 and 3.

**Input Document** • up to 11x16.5 inches; auto-feed, 30-document capacity.

**Output Document** • roll-fed, 8.5 or 10.5 inches x length of original; 328-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 10.1 inches.

**Scanning Technique** • roller-fed; CCD array.

**Image Resolution (horizontal x vertical)** • 96x96 lpi; 200x100 lpi; 200x200 lpi.

**Transmission Speed** • 3 minutes for 96 lpi; 15 seconds for 100 lpi; 45 seconds for 200 lpi per 8.5x11-inch document.

**Data Compression** • modified Huffman; modified Read.

**Recorder/Paper** • dielectric with wire matrix; liquid toner.

**Communications** • DDD network or dedicated line; built-in 4800-/2400-modem; polling and auto-answer/disconnect standard.

**Dimensions** • 18.9x18.5x9.4 inches; 66 lbs.

**Other Features** • auto-reduction; auto-dial optional.

**Date Introduced** • 1980.

**Units Installed** • not available.

**Cost** • \$4,400 single-unit purchase price; \$280 per month under 3-year lease.

### □ NEC System IIISE

**Type** • tabletop, AM/FM/Digital transceiver.

**Compatibility** • CCITT Groups 3, 2, and 1.

**Input Document** • up to 11x16.5 inches; auto-feed, 40-document capacity.

**Output Document** • roll-fed, 8.5 or 10.5 inches x length of original; 328-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 10.1 inches.

**Scanning Technique** • roller-fed; CCD array.

**Image Resolution (horizontal x vertical)** • 96x96 lpi; 200x100 lpi; 200x200 lpi.

**Transmission Speed** • 3 minutes for 96 lpi; 15 seconds for 100 lpi; 45 seconds for 200 lpi per 8.5x11-inch document.

**Data Compression** • modified Huffman; modified Read.

**Recorder/Paper** • dielectric with wire matrix; liquid toner.

**Communications** • DDD network or dedicated line; built-in 4800-bps modem; polling and auto-answer/disconnect standard.

**Dimensions** • 18.9x18.5x9.4 inches; 66 lbs.

**Other Features** • auto-reduction; auto-dial optional.

**Date Introduced** • 1980.

**Units Installed** • not available.

**Cost** • \$4,600 single-unit purchase price; \$280 per month under 3-year lease.

### □ NEC System IIIC

**Type** • floor-console, FM/Digital transceiver.

**Compatibility** • CCITT Groups 2 and 3.

**Input Document** • up to 10.4 inches x any length; auto-feed, 40-document capacity.

**Output Document** • roll-fed, up to 10.4 inches x length of original; 328-foot roll.

**Half-Tone Support** • 16 shades of gray.

**Maximum Scanning Width** • 8 inches.

**Scanning Technique** • flatbed; CCD array.

**Image Resolution (horizontal x vertical)** • 96x96 lpi; 200x200 lpi; 200x100 lpi; 400x400 lpi per 8.5x11-inch document.

**Transmission Speed** • 3 minutes for 96 lpi; 30 seconds for 200 lpi; 20 seconds for 100 lpi; 40 seconds for 400 lpi.

**Data Compression** • modified Huffman; modified Read.

**Recorder/Paper** • electrostatic.

**Communications** • DDD; polling and auto-answer/disconnect standard.

**Dimensions** • 30.7x20.8x34.2 inches; 198 lbs.

**Other Features** • self-diagnostic/self-test capability; activity log; station ID.

**Date Introduced** • 1982.

**Units Installed** • not available.

**Cost** • purchase price not determined; \$350 per month under 3-year lease.

### □ NEC System IIIT

**Type** • tabletop, AM/Digital transceiver.

**Compatibility** • CCITT Groups 2 and 3.

**Input Document** • 8.7x16.5 inches; auto-feed, 40-document capacity.

**Output Document** • roll-fed, 8.5 inches x length of original; 328-foot roll.

## Facsimile Terminals

**Half-Tone Support** • none.

**Maximum Scanning Width** • 10.4 inches.

**Scanning Technique** • roller-fed; CCD array.

**Image Resolution (horizontal x vertical)** • 96x96 lpi; 100x200 lpi; 200x200 lpi; auto-scan density.

**Transmission Speed** • 3 minutes for 96 lpi; 45 seconds for 100x200 lpi; 15 seconds for 200x200 lpi; Group 3 at 4800 bps.

**Data Compression** • modified Huffman; modified Read.

**Recorder/Paper** • thermal.

**Communications** • DDD network or dedicated line; polling and auto-answer/disconnect standard; 9600/7200/4800/2400 bps • auto-fallback/step-up modem standard.

**Dimensions** • 20.5x21.7x9.8 inches; 78 lbs.

**Other Features** • activity report; terminal ID; self-test/self-diagnostic capability.

**Date Introduced** • 1982.

**Units Installed** • not available.

**Cost** • \$7,700 purchase; \$260 per month under 3-year lease • 1-year no charge • on-site vendor service; \$500 to \$700 per year.

### ■ PANAFAX CORPORATION

10 Melville Park Road, Melville, NY 11747-3177; 516-420-0055  
 • Canadian Distribution: Panafax Canada Inc; 5770 Ambler Drive, Mississauga, ON L4W 2T3; 416-624-5010.

**Service** • vendor offers for all models • 3-year warranty • service contract available; remote diagnostics and local service.

#### □ Panafax MV-3000

**Type** • tabletop, AM/Digital transceiver.

**Compatibility** • CCITT Group 3; Group 2 optional.

**Input Document** • 5 to 11.7x2.9 to 49.6 inches; auto-feed, 50-document capacity.

**Output Document** • roll-fed, 8.5 inches x length of original; 328-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 8.5 to 10.1 inches.

**Scanning Technique** • flatbed; CCD.

**Image Resolution (horizontal x vertical)** • 203x98 lpi; 203x196 lpi.

**Transmission Speed** • 30 seconds for 98 lpi; 20 seconds for 196 lpi at 9600 bps; 6 minutes for Group 2.

**Data Compression** • modified Huffman; modified Read.

**Recorder/Paper** • thermal; multistylus array.

**Communications** • DDD network or dedicated line; built-in 9600/7200/4800/2400-bps fall-back modem with DAA auto-dial and polling optional; auto-answer/disconnect standard.

**Dimensions** • 23.4x23.8x11.4 inches; 92 lbs.

**Other Features** • auto-reduction; self-test; security ID; "Enhanced Data Printing" ability to receive from word processor, personal computer or terminal optional; X.25 packet-switched option; optional PA-1 ability to preset with up to 32 transmission poll up to 32 locations 4 times a day to collect and send documents to any location; optional enhanced security, external modems and multiplexer capabilities.

**Date Introduced** • 1981.

**Units Installed** • not available.

**Cost** • \$6,750 single-unit purchase price; \$175 per month plus meter charge or \$230 per month under 3-year lease • full service included in purchase price for 3 years • service contract available; remote diagnostics and local service.

#### □ Panafax MV-3000 WL

**Type** • tabletop, AM/Digital transceiver.

**Compatibility** • CCITT Group 3; Group 2 option.

**Input Document** • 5 to 11x2.9 to 49.6 inches; auto-feed; 50-document capacity.

**Output Document** • roll-fed, 8.5 inches x length of original; 328-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 8.5 to 10.1 inches.

**Scanning Technique** • flatbed; CCD sensor.

**Image Resolution (horizontal x vertical)** • 203x98/196 lpi.

**Transmission Speed** • 20 seconds for 196 lpi; 30 seconds for 98 lpi both at 4800 bps; 6 minutes for Group 2.

**Data Compression** • modified Huffman; modified Read.

**Recorder/Paper** • thermal; multistylus array.

**Communications** • DDD network or private line; built-in 9600/7200/4800/2400-bps modem with DAA auto-dial and polling optional; auto-answer/disconnect standard.

**Dimensions** • 23.4x23.8x11.4 inches; 92 lbs.

**Other Features** • same as MV-3000 and microcomputer controlled unit; meets special requirements of offshore oil and gas drilling operations; accommodates oversized documents such as computer printouts, engineering drawings, or accounting ledgers.

**Date Introduced** • 1982.

**Units Installed** • not available.

**Cost/Service** • contact vendor • full service for 3 years included in purchase price • service contract available; remote diagnostics and local service.

#### □ Panafax MV-1200

**Type** • tabletop, AM/FM transceiver.

**Compatibility** • CCITT Groups 1 and 2.

**Input Document** • 3.5 to 8.5x5 to 25 inches; auto-feed; 50-document capacity optional.

**Output Document** • roll-fed, 8.5 inches x length of original; 328-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 8.5 inches.

**Scanning Technique** • photo-diode array.

**Image Resolution (horizontal x vertical)** • 96x96 lpi; 96x64 lpi; 80x78 lpi.

**Transmission Speed** • 3 or 6 minutes for 96 lpi; 4 minutes for 64 lpi; 2 minutes for 78 lpi.

**Data Compression** • none.

**Recorder/Paper** • electrostatic; dry powder toner.

**Communications** • DDD network or dedicated line; operates full-duplex; auto-answer/disconnect standard; auto-dial and polling optional.

**Dimensions** • 25.5x24.25x11 inches; 81 lbs.

**Other Features** • self-test.

**Date Introduced** • 1977.

**Units Installed** • not available.

**Cost** • \$5,500 purchase; \$79.50 per month plus meter charges or flat rate \$137.50 per month under 3-year lease • full service included in purchase price for 3 years; service contract available; remote diagnostic and local service.

#### □ Panafax PX-100

**Type** • tabletop, AM/Digital transceiver.

**Compatibility** • CCITT Groups 2 and 3 and most 6-minute machines.

**Input Document** • 5.04 to 10.1x5.04x39.4 inches; auto-feed;

## Facsimile Terminals

30-document capacity.

**Output Document** • roll-fed, 8.5 inches x length of original; 328-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 8.15 inches.

**Scanning Technique** • flatbed; CCD sensor.

**Image Resolution (horizontal x vertical)** • 203x196/98 lpi.

**Transmission Speed** • 40 seconds at 196/98 lpi at 4800 bps; 6 minutes for Group 2.

**Data Compression** • modified Huffman; modified Read.

**Recorder/Paper** • thermal.

**Communications** • DDD network or private line; built-in 4800/2400 bps with automatic fallback modem; auto-answer/disconnect.

**Dimensions** • 14.6x19.4x9.8 inches; 42 lbs.

**Other Features** • microprocessor-controlled; ID code; self-diagnostics; reverse polling; total number of pages transmitted or received; month/date/hour/minute.

**Date Introduced** • 1983.

**Units Installed** • not available.

**Cost** • \$4,500 single-unit purchase price; \$145 per month lease • full service included in purchase price for 3 years • service contract available; remote diagnostics and local service.

### Panafax-FX200 with Mass Memory (MM-200)

**Type** • tabletop, AM/Digital transceiver.

**Compatibility** • CCITT Groups 2 and 3.

**Input Document** • 5.04 to 10.12x2.87 to 39.37 inches; auto-feed, 30-document capacity.

**Output Document** • roll-fed, 8.5 inches x length of original; 328-foot roll.

**Half-Tone Support** • 16 shades of gray.

**Maximum Scanning Width** • 8.38 inches.

**Scanning Technique** • flatbed; CCD.

**Image Resolution (horizontal x vertical)** • 203x196/98 lpi for Group 3; 98x98 lpi for Group 2.

**Transmission Speed** • not available.

**Data Compression** • modified Huffman; modified Read.

**Recorder/Paper** • thermal.

**Communications** • DDD network or dedicated line; operates at 9600 bps with automatic fallback to 7200/4800/2400/300 bps; auto-dial/timer/answer/disconnect; RS-232C interface; polling.

**Dimensions** • 25.59x21.46x7.9 inches; 25 lbs.

**Other Features** • auto-dial; auto-timer; imprints time, date, and transmitting terminal location on each document; polling; contrast control; store and forward; scrambler.

**Date Introduced** • 1984.

**Units Installed** • not available.

**Cost** • contact vendor.

### Panafax-UF-400

**Type** • tabletop, AM/Digital transceiver.

**Compatibility** • CCITT Groups 2 and 3.

**Input Document** • 5.8 to 11x2.9 to 14.2 inches; auto-feed, 30-document capacity.

**Output Document** • roll-fed, 8.5 inches x length of original; 328-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 9.92 inches.

**Scanning Technique** • flatbed; CCD.

**Image Resolution (horizontal x vertical)** • 203x391/196 lpi for Group 3; 98x98 lpi for Group 2.

**Transmission Speed** • less than 1 minute for Group 3; 3 minutes for Group 2; 6 minutes for Group 1.

**Data Compression** • modified Huffman.

**Recorder/Paper** • thermal.

**Communications** • DDD network; operates at 9600 bps with automatic fallback to 7200/4800/2400 bps; auto-answer/disconnect; polling.

**Dimensions** • 14.2x13.4x6.5 inches; 26.5 lbs.

**Other Features** • auto-reduction; auto-document feeder; imprints time, date, and transmitting terminal location on each document; polling; contrast control; journal printout.

**Date Introduced** • 1984.

**Units Installed** • not available.

**Cost** • contact vendor.

### PITNEY BOWES

Walter H. Wheeler, Jr Drive, Stamford, CT 06926; 203-356-6323 • Canadian Distribution: Pitney Bowes Canada Limited; 150 Ferrand Drive, Don Mills, ON M3C 3B5; 416-424-2211.

**Service** • vendor offers for all models • National Diagnostic Center in Stamford, Ct.

### Pitney Bowes—Model 8100 Facsimile System

**Type** • tabletop, AM/FM/Digital transceiver.

**Compatibility** • CCITT Groups 1, 2, and 3.

**Input Document** • 7.17 to 8.5x14 inches; auto-feed, 30-document capacity.

**Output Document** • roll-fed, 8.5 inches x length of original; 328-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 8.5 inches.

**Scanning Technique** • flatbed; CCD.

**Image Resolution (horizontal x vertical)** • 204x196/96 lpi for Group 3; 204x96 lpi for Groups 1 and 2.

**Transmission Speed** • less than 1 minute for Group 3; 3 minutes for Group 2; 6 minutes for Group 1.

**Data Compression** • modified Huffman; modified Read.

**Recorder/Paper** • thermal.

**Communications** • DDD network or dedicated line; operates at 9600 bps with automatic fallback to 7200/4800/2400 bps; auto-answer/receive; polling.

**Dimensions** • 15.7x13.2x6.9 inches; 22 lbs.

**Other Features** • auto-receive; auto-document feeder; auto-answer; self-diagnostic capability; imprints time, date, and transmitting terminal location on each document; contrast control; activity journal.

**Date Introduced** • 1984.

**Units Installed** • not available.

**Cost** • \$4,595.

### Model 8300 Facsimile System

**Type** • tabletop, AM/FM transceiver.

**Compatibility** • CCITT Groups 1 and 2.

**Input Document** • up to 8.5x4.7 to 14 inches; auto-feed, 120-page capacity.

**Output Document** • roll-feed; 8.5-inch x 115-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 8.5 inches.

## Facsimile Terminals

**Scanning Technique** • flatbed.

**Image Resolution (horizontal x vertical)** • 96x96 lpi.

**Transmission Speed** • 3 or 6 minutes at 96x96 lpi.

**Data Compression** • none.

**Recorder/Paper** • thermal.

**Communications** • DDD network, FCC internal coupler with modular connector.

**Dimensions** • 12.8x19.6x6.3 inches; 24 lbs.

**Other Features** • auto-answer/disconnect; automatic receive; contrast control.

**Date Introduced** • 1982.

**Units Installed** • not available.

**Cost** • contact vendor • National Diagnostic Center available at Stamford, CT.

### Model 8400 Facsimile System

**Type** • tabletop, AM/FM Digital transceiver.

**Compatibility** • CCITT Groups 1, 2, and 3 proprietary block-skip mode.

**Input Document** • up to 8.5x14 inches; auto-feed, 30-document capacity.

**Output Document** • roll-feed, 8.5 inches; 328-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 8.5 inches.

**Scanning Technique** • flatbed.

**Image Resolution (horizontal x vertical)** • 65/96/130x204 lpi.

**Transmission Speed** • 32 seconds for 65x204; 45 seconds for 96x204; 60 seconds for 130/204 in block skip mode; 3 minutes for 96x204 in Group 2; 6 minutes for 96x204 in Group 1.

**Data Compression** • none.

**Recorder/Paper** • thermal.

**Communications** • DDD network, FCC internal coupler with modular connector.

**Dimensions** • 16.5x21.4x12.1 inches; 66 lbs.

**Other Features** • automatic receive; automatic document feeder; contrast control; turnaround polling.

**Date Introduced** • 1982.

**Units Installed** • not available.

**Cost** • contact vendor • National Diagnostic Center available at Stamford, CT.

### Model 8600 Facsimile System

**Type** • tabletop, AM/FM/Digital transceiver.

**Compatibility** • CCITT Groups 1, 2, 3; proprietary block-skip mode.

**Input Document** • up to 8.5x14 inches; auto-feed, 30-document capacity.

**Output Document** • roll-feed, 8.5 inches x length of original; 328-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 8.5 inches.

**Scanning Technique** • flatbed.

**Image Resolution (horizontal x vertical)** • 65/96/130/196x204 lpi.

**Transmission Speed** • 32 seconds for 65x204; 45 seconds for 96x204; 60 seconds for 130/204 in block-skip mode; 3 minutes for 96x204 in Group 2; 6 minutes for 96x204 in Group 1; 30 seconds for 96/204; 47 seconds for 196/204 in Group 3 • digital transmission at 4800 bps.

**Data Compression** • none.

**Recorder/Paper** • thermal.

**Communications** • DDD network, FCC internal coupler with modular connector.

**Dimensions** • 16.5x21.4x12.1 inches; 66 lbs.

**Other Features** • automatic receive; automatic document feeder; contrast control; turnaround polling; polling with 4-digit secure password; activity reporting journal; date and time stamp with terminal identification; automatic fallback.

**Date Introduced** • 1982.

**Units Installed** • not available.

**Cost** • contact vendor • National Diagnostic Center available at Stamford, CT.

### Model 8800 Facsimile System

**Type** • tabletop, AM/FM/Digital transceiver.

**Compatibility** • CCITT Groups 1, 2, and 3; priority block-skip mode.

**Input Document** • up to 8.5x14 inches; auto-feed, 30-document capacity.

**Output Document** • roll-feed, 8.5 inches x length of original; 328-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 8.5 inches.

**Scanning Technique** • flatbed.

**Image Resolution (horizontal x vertical)** • 65/96/130/196x204 lpi.

**Transmission Speed** • 32 seconds for 65x204; 45 seconds for 96x204; 60 seconds for 130x204 in block-skip mode; 3 minutes for 96x204 in Group 2; 6 minutes for 96x204 in Group 1; 20 seconds for 96x204; 30 seconds for 196x204 in Group 3 • digital transmission at 9600 bps.

**Data Compression** • modified Huffman and modified Read.

**Recorder/Paper** • thermal.

**Communications** • DDD network, FCC internal coupler with modular connector.

**Dimensions** • 16.5x21.4x12.1 inches; 66 lbs.

**Other Features** • automatic receive; automatic document feeder; contrast control; turnaround polling; polling with secure passcodes; activity reporting journal; data and time stamp with terminal identification • optional automatic dialer stores up to 50 telephone numbers; full prompting on 16-character display; 48-hour battery backup; RS-232C (CCITT V.24) interface for 300/1200/2400 TTY dot-matrix printer.

**Date Introduced** • 1982.

**Units Installed** • not available.

**Cost** • contact vendor • National Diagnostic Center in Stamford, CT.

### Pitney Bowes—Model 8900 Facsimile System

**Type** • tabletop, AM/FM/Digital transceiver.

**Compatibility** • CCITT Groups 1, 2, and 3.

**Input Document** • 5.5 to 11.7.

**Output Document** • roll-fed, 8.5 inches x length of original; 328-foot roll.

**Half-Tone Support** • not available.

**Maximum Scanning Width** • 8.5 inches.

**Scanning Technique** • flatbed; CCD.

**Image Resolution (horizontal x vertical)** • 203x196/96 lpi for Group 3; 203x96 lpi for Groups 1 and 2.

**Transmission Speed** • less than 1 minute for Group 3; 3 minutes for Group 2; 6 minutes for Group 3.

## Facsimile Terminals

**Data Compression** • M2R (vendor proprietary); modified Huffman; modified Read.

**Recorder/Paper** • thermal.

**Communications** • DDD network or dedicated line; operates at 9600 bps with automatic fallback to 7200/4800/2400 bps; auto-dial/receive; polling; RS-232C interface.

**Dimensions** • 6.6x14.7x5 inches; 16 lbs.

**Other Features** • auto-dial; auto-receive; auto-speed selection; auto-document feeder; imprints time, date, and transmitting terminal location on each document; polling; contrast control; store and forward; convenience copier; line selection; operator call button.

**Date Introduced** • 1984.

**Units Installed** • not available.

**Cost** • \$6,995.

### ■ RICOH CORPORATION

7 Kingsbridge Road, Fairfield, NJ 07006; 201-575-6010 • Canadian Distribution: Ricoh Corp Canada Limited; 181 Bank Street, Mezz.2 ON K2P 1W5; 613-236-7055.

**Service** • vendor offers for all models • on-site vendor service.

#### □ Rapifax 100

**Type** • floor-console, digital transceiver.

**Compatibility** • CCITT Group 3, Group 1 (optional).

**Input Document** • up to 8.5x14 inches; manual feed • auto-feed, 50-document capacity optional.

**Output Document** • 8.5 inches x 5.5, 11, or 14 inches; 920-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 8.5 inches.

**Scanning Technique** • flatbed; curved mirror and photo cell.

**Image Resolution (horizontal x vertical)** • 200x67 lpi high-speed; 200x100 lpi standard; 200x200 lpi fine detail.

**Transmission Speed** • 35 seconds for 200x67 lpi; 50 seconds for 200x100 lpi; 90 seconds for 200x200 lpi all at 4800 bps.

**Data Compression** • standard Group 3 optional.

**Recorder/Paper** • dielectric with stylus.

**Communications** • DDD network or dedicated line; built-in 4800/2400-bps auto-fallback modem with DAA; auto-dial optional.

**Dimensions** • 26x33x42 inches; 375 lbs.

**Other Features** • optional broadcast transmission up to 14 Rapifax 100; light original control; high resolution (optional).

**Date Introduced** • 1973.

**Units Installed** • not available.

**Cost** • \$1,750 purchase; \$165 per month under 3-year lease • on-site, vendor service \$700 annually.

#### □ Ricoh 120 Personal Fax Unit

**Type** • tabletop, AM/FM/Digital transceiver.

**Compatibility** • CCITT Groups 1, 2, and 3.

**Input Document** • 6 to 10.1x4.1 to 47.2 inches; auto feed, 30-document capacity.

**Output Document** • roll-fed, 8.5 inches x length of original; 328-foot roll.

**Half-Tone Support** • 8 shades of gray.

**Maximum Scanning Width** • 8.5 inches.

**Scanning Technique** • flatbed; CCD.

**Image Resolution (horizontal x vertical)** • 200x200 lpi; 100x200 lpi.

**Transmission Speed** • 20/32 seconds for 100x200 lpi at 9600/4800 bps; 34/51 seconds for 200x200 lpi at 9600/4800 bps.

**Data Compression** • modified Huffman.

**Recorder/Paper** • electrothermal.

**Communications** • DDD network or dedicated line.

**Dimensions** • 16.7x11.7x5.4 inches; 29.7 lbs.

**Other Features** • auto-answer, auto-disconnect; self-test/self-diagnostic capability; error detection; imprints time, date, and transmitting terminal location on each document; polling; contrast control; voice capability.

**Date Introduced** • 1984.

**Units Installed** • not available.

**Cost** • \$3,495 single-unit purchase price.

#### □ Model 3300

**Type** • tabletop, AM/FM/Digital transceiver.

**Compatibility** • CCITT Group 3 standard; Group 1; Group 2 optional • Rapicom Models R 3300, 3100, 6300, 6100, 6350T, 6350R, 100, 800, 1000, 1500, 1850 all used with Group 3.

**Input Document** • 4.3 to 8.5x4.7 to 21.7 inches; auto-feed, 30-document capacity.

**Output Document** • roll-feed, 8.5 inches x length of original; 328-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 8.5 inches.

**Scanning Technique** • flatbed; CCD array.

**Image Resolution (horizontal x vertical)** • 200x100 lpi standard; 200x200 lpi fine detail.

**Transmission Speed** • 45/30 seconds for 200x100 lpi; 90/50 seconds for 200x200 lpi all at 4800/9600 bps, respectively.

**Data Compression** • standard Group 3.

**Recorder/Paper** • electrothermal.

**Communications** • DDD network or dedicated line • operates at 2400/4800/7200/9600 bps • built-in 4800-/2400-bps auto-fallback modem with DAA • auto-answer/disconnect standard.

**Dimensions** • 18.1x15.8x9.8 inches; 60 lbs.

**Other Features** • auto-reduction for use with Rapicom 1850/6100 units • remote terminal ID displayed • logs traffic data and transmission irregularities • polling standard • turnaround polling.

**Date Introduced** • 1982.

**Units Installed** • not available.

**Cost** • \$5,000 single-unit purchase price; \$184 per month • on-site vendor service \$375 annually.

#### □ Ricoh 3312 Desktop Securefax

**Type** • tabletop, digital transceiver.

**Compatibility** • CCITT Group 3.

**Input Document** • 4.3x8.5x4.7 to 21.7 inches; auto-feed, 50-document capacity.

**Output Document** • roll-fed, 8.5 inches x length of original; 328-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 8.5 inches.

**Scanning Technique** • flatbed; solid state.

**Image Resolution (horizontal x vertical)** • 204x196 lpi; 204x98 lpi.

**Transmission Speed** • less than 1 minute for Group 3; 3 minutes for Group 2; 6 minutes for Group 1.

## Facsimile Terminals

**Data Compression** • modified Huffman.

**Recorder/Paper** • electrothermal.

**Communications** • DDD network or dedicated line; operates at 9600-/2400-bps half-duplex.

**Dimensions** • 18.1x15.8x9.8 inches; 60.1 lbs.

**Other Features** • auto-dial; auto-answer; auto-disconnect; self-test/self-diagnostic capability; error detection; imprints time, date, and transmitting location on each document; turnaround polling; copy function; optional continuous length input.

**Date Introduced** • 1984.

**Units Installed** • not available.

**Cost** • \$11,528 single-unit purchase price.

**Model R-5000 Digital Transceiver with SAF/PAK**

**Type** • tabletop, AM/Digital transceiver.

**Compatibility** • CCITT Group 3; Group 2 optional.

**Input Document** • manual feed, 7.2 to 11.7x3.5 to 47.2 inches; auto-feed, 7.2 to 11.7x5.04x14.3 inches; 30-document capacity.

**Output Document** • roll-fed, 8.5 inches x length of original; 328-foot roll.

**Half-Tone Support** • 8 shades of gray.

**Maximum Scanning Width** • 11 inches.

**Scanning Technique** • flatbed; CCD.

**Image Resolution (horizontal x vertical)** • 200x100/200 lpi.

**Transmission Speed** • 15 seconds at 200x100; 28 seconds at 200x200 lpi all at 9600 bps.

**Data Compression** • CCITT Group 3 standard.

**Recorder/Paper** • electrothermal.

**Communications** • DDD network or private line up to 9600 bps; auto-dial; auto-answer/disconnect; polling; built-in 9600/7200/4800/2400 auto-fallback modem.

**Dimensions** • 7.25x18.1x8.8 inches; 17.6 lbs.

**Other Features** • auto-dial/-redialer with 100 16-digit numbers; transmit terminal identification; transmit/receive counter; control reports; poll immediate/late/turnaround; local storage of up to 30 pages with SAF-PAK option; document reduction/enlargement.

**Date Introduced** • 1983.

**Units Installed** • not available.

**Cost** • \$6,200 single-unit purchase price; \$3,750 for SAF/PAK \$305 per month 3-year lease • on-site, vendor service \$925 annually.

**SANYO BUSINESS SYSTEMS CORP**

51 Joseph Street, Moonachie, NJ 07074; 201-440-9300 • Canadian Distribution: none.

**Service** • vendor offers on all models • 1-year warranty parts/labor.

**Sanfax 615**

**Type** • tabletop, AM/FM/Digital transceiver.

**Compatibility** • CCITT Groups 1, 2, and 3.

**Input Document** • up to 8.5 x up to 118.1 inches; auto-feed, 30-document capacity.

**Output Document** • roll-fed, 8.5 inches x length of original; 328-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 8.31 inches.

**Scanning Technique** • flatbed; CCD.

**Image Resolution (horizontal x vertical)** • 203x196 lpi; 203x98 lpi.

**Transmission Speed** • 30 or 50 seconds Group 3; 3 minutes Group 2; 6 minutes Group 1.

**Data Compression** • modified Huffman; modified Read.

**Recorder/Paper** • thermal.

**Communications** • DDD network or dedicated line; polling.

**Dimensions** • 19.1x14.3x6.2 inches; 33 lbs.

**Other Features** • auto-cutter; auto-speed selection; operator selectable contrast; polling; contrast control; copy function; resolution mode switch.

**Date Introduced** • 1985.

**Units Installed** • not available.

**Cost** • \$2,995 single-unit purchase price.

**Sanfax 625**

**Type** • tabletop, AM/FM/Digital transceiver.

**Compatibility** • CCITT Groups 1, 2, and 3.

**Input Document** • up to 8.5 x up to 118.1 inches; auto-feed; 30-document capacity.

**Output Document** • roll-fed, 8.5 inches x length of original; 328-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 8.94 inches.

**Scanning Technique** • flatbed; CCD.

**Image Resolution (horizontal x vertical)** • 203x196 lpi; 203x98 lpi.

**Transmission Speed** • 20/40 seconds for Group 3; 3 minutes for Group 2; 6 minutes for Group 1.

**Data Compression** • modified Huffman.

**Recorder/Paper** • thermal.

**Communications** • DDD network or dedicated line; operates at 9600/7200/4800/2400 bps; polling.

**Dimensions** • 19.1x14.3x6.2 inches; 33 lbs.

**Other Features** • auto-receive; auto-cutter; auto-speed selection; self-test/self-diagnostic capability; operator selectable contrast; imprints time, date, and transmitting terminal location on each document; polling; contrast control; store and forward; copy function; auto-return to transmission mode; 24-character LCD; voice capability; high-speed dialing for up to 100 phone numbers; RS-232C interface; line-skipping function; activity report.

**Date Introduced** • 1985.

**Units Installed** • not available.

**Cost** • \$3,995 single-unit purchase price.

**Sanfax 935**

**Type** • tabletop digital transceiver.

**Compatibility** • CCITT Group 3, 2, 1.

**Input Document** • up to 11.87 x any length; auto-feed, 30-document capacity.

**Output Document** • roll-fed, 8.5 x length of original; 328-foot roll.

**Half-Tone Support** • 7 shades of gray.

**Maximum Scanning Width** • up to 9.87 inches.

**Scanning Technique** • flatbed; CCD image sensor.

**Image Resolution (horizontal x vertical)** • contact vendor.

**Transmission Speed** • 20 or 40 seconds Group 3; 3 minutes Group 2; 6 minutes Group 1.

**Data Compression** • modified Huffman and modified Read.

**Recorder/Paper** • thermal.

**Communications** • DDD network or private line.

## Facsimile Terminals

**Dimensions** • 23.25x19.3x10.25 inches; 57 lbs.

**Date Introduced** • 1983.

**Units Installed** • not available.

**Cost** • \$5,495 single-unit purchase price.

### ■ SHARP ELECTRONICS CORPORATION

10 Sharp Plaza, Paramus, NJ 07652; 201-265-5600 • Canadian Distribution: Sharp Electronics of Canada Limited; 335 Britannia Road East, Mississauga, ON L4Z 1W9; 416-890-2100.

**Service** • vendor offers on all models • 1-year warranty.

#### □ Sharp—FO-1800

**Type** • tabletop; AM/Digital transceiver.

**Compatibility** • CCITT Groups 2 and 3.

**Input Document** • 5.83 to 8.5x5.04 to 39.37 inches; auto-feed, 5-document capacity.

**Output Document** • roll-fed, 8.5 inches x length of original; 98.42-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 8.27 inches.

**Scanning Technique** • flatbed; CCD.

**Image Resolution (horizontal x vertical)** • 203x196 lpi.

**Transmission Speed** • 25 seconds at 9600 bps.

**Data Compression** • modified Huffman; modified Read.

**Recorder/Paper** • thermal.

**Communications** • DDD network or dedicated line; operates at 9600 bps with automatic fallback to 7200/4800/2400 bps.

**Dimensions** • 11.02x12.6x3.9 inches; 14.11 lbs.

**Other Features** • auto-receive; auto-answer/disconnect; self-test/self-diagnostic capability; error detection; operator selectable contrast; polling; contrast control; copy function; voice capability.

**Date Introduced** • 1985.

**Units Installed** • not available.

**Cost** • \$2,495 single-unit purchase price.

#### □ Sharp—FO-2515/2530

**Type** • tabletop, AM/Digital transceiver.

**Compatibility** • CCITT Groups 2 and 3.

**Input Document** • 7.17 to 11.7x5.04 to 39.4 inches; auto-feed, 30-document capacity.

**Output Document** • roll-fed, 8.5 inches x length of original; 262.5-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 8.3 inches.

**Scanning Technique** • flatbed; CCD.

**Image Resolution (horizontal x vertical)** • 203x196 lpi; 203x98 lpi.

**Transmission Speed** • 20 seconds at 9600 bps and 40 seconds at 4800 bps for Group 3; 3 minutes for Group 2.

**Data Compression** • modified Huffman; modified Read.

**Recorder/Paper** • thermal.

**Communications** • DDD network; operates at 9600 or 4800 bps with automatic fallback to 2400 bps.

**Dimensions** • 16x11.7x7 inches; 29 lbs.

**Other Features** • auto-reduction; auto-receive; automatic cutter; error detection; imprints time, date, and transmitting terminal location on each document; polling; contrast control; copy function; voice capability.

**Date Introduced** • 1984.

**Units Installed** • not available.

**Cost** • \$3,995/\$2,850 single-unit purchase price.

#### □ Sharp—FO-2516/2531

**Type** • tabletop, AM/FM/Digital transceiver.

**Compatibility** • CCITT Groups 1, 2, and 3.

**Input Document** • 7.17 to 11.7x5.04 to 39.4 inches; auto-feed, 30-document capacity.

**Output Document** • roll-fed, 8.5 inches x length of original; 262.5-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 8.3 inches.

**Scanning Technique** • flatbed; CCD.

**Image Resolution (horizontal x vertical)** • 203x196 lpi; 203x98 lpi.

**Transmission Speed** • 20 seconds at 9600 bps and 40 seconds at 4800 bps for Group 1; 3 minutes for Group 2; 6 minutes for Group 3.

**Data Compression** • modified Huffman; modified Read.

**Recorder/Paper** • thermal.

**Communications** • DDD network; operates at 9600 and 4800 bps with automatic fallback to 2400 bps.

**Dimensions** • 16x11.7x7 inches; 32 lbs.

**Other Features** • auto-reduction; auto-dial; automatic cutter; error detection; operator selectable contrast; imprints time, date, and transmitting terminal location on each document; polling; contrast control; copy function; liquid crystal display; activity report; voice capability.

**Date Introduced** • 1984.

**Units Installed** • not available.

**Cost** • \$4,995/\$4,095 single-unit purchase price.

#### □ Sharp—FO-2517

**Type** • tabletop, AM/FM/Digital transceiver.

**Compatibility** • CCITT Groups 2 and 3.

**Input Document** • 7.17 to 11.7x5.04 to 39.4 inches; auto-feed, 30-document capacity.

**Output Document** • roll-fed, 8.5 inches x length of original; 262.5-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 8.3 inches.

**Scanning Technique** • flatbed; CCD.

**Image Resolution (horizontal x vertical)** • 203x196 lpi; 203x98 lpi.

**Transmission Speed** • 20 seconds for Group 3 at 9600 bps; 3 minutes for Group 2; 6 minutes for Group 1.

**Data Compression** • modified Huffman; modified Read.

**Recorder/Paper** • thermal.

**Communications** • DDD network or dedicated line; operates at 9600 bps with automatic fallback to 2400 bps; polling; auto-receive; voice capability.

**Dimensions** • 16x11.7x7 inches; 32 lbs.

**Other Features** • auto-reduction; auto-dial; auto-receive; auto-cutter; imprints time, date, and transmitting terminal location on each document; polling; built-in RS-232C interface; voice capability; 16-digit LCD display.

**Date Introduced** • 1985.

**Units Installed** • not available.

**Cost** • \$3,795 single-unit purchase price.

## Facsimile Terminals

### ■ TELAUTOGRAPH CORPORATION

8700 Bellonca Avenue, Los Angeles, CA 90045; 213-641-3690 • Canadian Distribution: none.

**Service** • vendor offers on all models • service contracts available.

#### □ Omnifax G21

**Type** • tabletop, AM/FM transceiver.

**Compatibility** • CCITT Groups 1 and 2; most FM 4 and 6 minute units.

**Input Document** • 4.5 to 9x4.5 to 59 inches; manual/auto-stack feed; 50-page capacity.

**Output Document** • roll-fed, 8.5 inches x length of original; 330-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 8.5 inches.

**Scanning Technique** • photo-diode array.

**Image Resolution (horizontal x vertical)** • 96x64 lpi; 96x96 lpi; 96x144 lpi.

**Transmission Speed** • 1 minute for 96x64 lpi; 2, 3, and 6 minutes for 96x96 lpi; 5 minutes for 96x144 lpi per 8.5x11-inch document.

**Data Compression** • none.

**Recorder/Paper** • thermal.

**Communications** • DDD network or dedicated line; requires DAA; auto-answer/disconnect and polling standard.

**Dimensions** • 26.5x17.75x9.63 inches; 88 lbs.

**Other Features** • white space reduction at 1.2 and 5 minutes standard; error detection; self-test; auto-dial optional.

**Date Introduced** • 1979.

**Units Installed** • not available.

**Cost** • \$3,500 single-unit purchase price; \$146 per month lease, service included.

#### □ Omnifax G35

**Type** • tabletop, AM/FM/Digital transceiver.

**Compatibility** • CCITT Groups 1, 2, and 3.

**Input Document** • 4.5 to 8.5 x 59 inches; auto-feed, 20-document capacity; manual.

**Output Document** • roll-fed, 8.5 inches x length of original; 164-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 8.5 inches.

**Scanning Technique** • flatbed; CCD.

**Image Resolution (horizontal x vertical)** • 100x203 lpi; 200x203 lpi.

**Transmission Speed** • 20 seconds for Group 3 at 9600 bps; 2 minutes for Group 2 at 4800 bps; 6 minutes for Group 1.

**Data Compression** • modified Huffman; modified Read.

**Recorder/Paper** • thermal.

**Communications** • DDD network; operates at 9600 bps with automatic fallback to 7200/4800/2400 bps; requires DAA; auto-dial/answer/disconnect.

**Dimensions** • 15.3x12.6x5.9 inches; 26 lbs.

**Other Features** • auto-dial; auto-answer/disconnect; imprints time, date, and transmitting terminal location on each document; message confirmation; voice capability.

**Date Introduced** • 1984.

**Units Installed** • not available.

**Cost** • \$2,895 single-unit purchase price.

#### □ Omnifax G99

**Type** • tabletop, AM/FM/Digital transceiver.

**Compatibility** • CCITT Groups 1, 2, and 3.

**Input Document** • 4.5 to 11.7 inches x 3.1 inches to any length.

**Output Document** • roll-fed, 8.5 and 10.1 inches x length of original; 328-foot roll.

**Half-Tone Support** • 16 shades of gray.

**Maximum Scanning Width** • 11.7 inches.

**Scanning Technique** • flatbed; CCD.

**Image Resolution (horizontal x vertical)** • 100x200 lpi; 96x96 lpi; 200x200 lpi.

**Transmission Speed** • 15 seconds for 100x200 lpi; 22 seconds for 200x200 lpi; both at 9600 bps; 3 minutes for 96x96 lpi Group 3; 6 minutes for 96x96 lpi Group 1.

**Data Compression** • modified Huffman; modified Read; Pattern Length Coding (PLC).

**Recorder/Paper** • thermal.

**Communications** • DDD network or dedicated lines; built-in 9600/7200/4800/2400-bps fallback modem with DAA; auto-answer/disconnect; auto-dial.

**Dimensions** • 31x18.5x16 inches; 55 lbs.

**Other Features** • auto-dial; terminal ID; polling; automatic send and receive; auto-contrast control; auto-scan resolution adjustment.

**Date Introduced** • 1983.

**Units Installed** • not available.

**Cost** • not available.

#### □ Omnifax SF3

**Type** • tabletop, AM/Digital transceiver.

**Compatibility** • CCITT Group 2 and 3.

**Input Document** • 5.04 to 11.7 x unlimited length; manual-/auto-feed, 30-document capacity.

**Output Document** • roll-fed, 8.5 inches x length of original; 328-foot roll • optional 10.1 x length of original; 328-foot roll.

**Half-Tone Support** • 16 shades of gray.

**Maximum Scanning Width** • 8.5 inches.

**Scanning Technique** • flatbed; CCD.

**Image Resolution (horizontal x vertical)** • 100x200 lpi; 200x200 lpi.

**Transmission Speed** • 20 seconds for Group 3 at 9600 bps; 2 minutes for Group 2 at 4800 bps.

**Data Compression** • modified Huffman; modified Read.

**Recorder/Paper** • thermal.

**Communications** • DDD network or dedicated line; operates at 9600 bps with automatic fallback to 7200/4800/2400 bps.

**Dimensions** • 21.7x22.1x10.9 inches; 62 lbs.

**Other Features** • 1M-byte store and forward memory; activity report; user cards.

**Date Introduced** • 1984.

**Units Installed** • not available.

**Cost** • contact vendor.

### ■ XEROX CORPORATION

1301 Beachview Drive, Louisville, TX 75067; 214-420-7200 • Canadian Distribution: Xerox Canada; 785 Carling Avenue, Ottawa, ON M1S 5A4; 613-237-1731.

**Service** • vendor offers on all models • on-site vendor service.

## Facsimile Terminals

### □ Telecopier 295

**Type** • tabletop; digital transceiver.  
**Compatibility** • CCITT Group 3, CCITT Group 2 and 1 optional.  
**Input Document** • 5 to 9x4.7 to any length inches; auto-feed, 30-document capacity.  
**Output Document** • roll-fed, 8.5 inches x length of original.  
**Half-Tone Support** • none.  
**Maximum Scanning Width** • 9 inches.  
**Scanning Technique** • flatbed; solid state.  
**Image Resolution (horizontal x vertical)** • 196/204 lpi and 98/204 lpi for Group 3; 6 minutes for Group 1; 3 minutes for Group 2.  
**Transmission Speed** • 30 seconds.  
**Data Compression** • modified Huffman and modified Read.  
**Recorder/Paper** • thermal.  
**Communications** • DDD network or private; 9600/7200/4800/2400 bps, automatic fallback modem.  
**Dimensions** • 19.3x16.1x6.5 inches; 34 lbs.  
**Other Features** • has ability to communicate with personal computer; automatically adjusts to speed; time, date, and terminal identification number; activity log for up to 25 messages.  
**Date Introduced** • 1983.  
**Units Installed** • not available.  
**Cost** • \$3,995 single-unit purchase price; CCITT Group 2 and 1 option \$600; RS-232C interface \$700; quantity discounts available.

### □ Telecopier 400-1

**Type** • tabletop, FM transceiver.  
**Compatibility** • CCITT Group 1; most 4-/6-minute FM units.  
**Input Document** • to 8.5x11 inches; manual single sheet.  
**Output Document** • to 8.5x11 inches; single sheet.  
**Half-Tone Support** • 3 shades of gray.  
**Maximum Scanning Width** • 11 inches.  
**Scanning Technique** • rotating cylinder; drum moving scan head.  
**Image Resolution (horizontal x vertical)** • 96x96 lpi; 96x64 lpi.  
**Transmission Speed** • 6 minutes for 96 lpi; 4 minutes for 64 lpi per 8.5x11-inch document.  
**Data Compression** • none.  
**Recorder/Paper** • electrosensitive.  
**Communications** • DDD; acoustic coupler standard; auto-answer/disconnect optional.  
**Dimensions** • 18.38x13.38x4.63 inches; 18 lbs.  
**Date Introduced** • 1971.  
**Units Installed** • not available.  
**Cost** • \$1,195 single-unit purchase price; \$85 per month 1-year lease • on-site vendor service \$16.65 per month; lease includes service.

### □ Xerox 455

**Type** • tabletop, AM/FM transceiver.  
**Compatibility** • CCITT Groups 1 and 2; all Xerox units.  
**Input Document** • 8 to 8.5x5 to 11.75 inches.  
**Output Document** • manual/single sheet; 8.5x11 inches.  
**Half-Tone Support** • none.  
**Maximum Scanning Width** • 8.5 inches.  
**Scanning Technique** • rotating cylinder; moving scan head.

**Image Resolution (horizontal x vertical)** • 96x97 lpi; 96x65 lpi; 80x72 lpi.

**Transmission Speed** • 3 and 6 minutes for 96x97 lpi; 4 and 6 minutes for 96x65 lpi; 1 and 2 minutes for 80x72 lpi.

**Data Compression** • white space skipping only.

**Recorder/Paper** • electrosensitive.

**Communications** • DDD; built-in handset.

**Dimensions** • 17x18x5.7 inches; 28 lbs.

**Date Introduced** • 1981.

**Units Installed** • not available.

**Cost** • \$1,995 single-unit purchase price; \$100 per month 1-year lease • on-site vendor \$20.80 per month; on-site service; lease includes service.

### □ Xerox 485

**Type** • floor-console, AM/FM transceiver.

**Compatibility** • CCITT Groups 1 and 2; Xerox TC400, 410, 200; most 4-/6-minute FM units.

**Input Document** • 5 to 10x5 to 14 inches; auto-feed, 30-document capacity.

**Output Document** • roll-fed, 8.5 inches x length of original; 325-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 8.5 inches • feeds lengthwise.

**Scanning Technique** • flatbed; diode array.

**Image Resolution (horizontal x vertical)** • 96x97 lpi; 96x65 lpi; 80x72 lpi.

**Transmission Speed** • 3 and 6 minutes for 96x97 lpi; 4 and 6 minutes for 96x65 lpi; 1 and 2 minutes for 80x72 lpi.

**Data Compression** • white space skipping only.

**Recorder/Paper** • thermal.

**Communications** • DDD network or dedicated line; polling and auto-answer/disconnect standard.

**Dimensions** • 28x12x30 inches; 176 lbs.

**Other Features** • contrast control.

**Date Introduced** • 1979.

**Units Installed** • not available.

**Cost** • \$3,195 single-unit purchase price; \$225 per month 1-year lease • on-site vendor service; \$40 per month; lease includes service.

### □ Xerox 495-1

**Type** • floor-console, AM/FM/Digital transceiver.

**Compatibility** • CCITT Group 3; Groups 2 and 1 optional.

**Input Document** • 5 to 10x4.7 to 14.6 inches; auto-feed, 50-document capacity.

**Output Document** • roll-fed, 8.5 inches x length of original; 328-foot roll.

**Half-Tone Support** • none.

**Maximum Scanning Width** • 10.2 inches.

**Scanning Technique** • flatbed; photo-diode array.

**Image Resolution (horizontal x vertical)** • 204x64 lpi; 204x98 lpi; 204x196 lpi.

**Transmission Speed** • 24 seconds for 204x65 lpi; 28 seconds for 204x98 lpi; 30 seconds for 204x196 lpi all at 4800 bps.

**Data Compression** • modified Huffman; modified Read.

**Recorder/Paper** • thermal.

**Communications** • DDD; built-in 9600/7200/4800/2400-bps auto-fallback modem; auto-answer/disconnect and polling; auto-dial optional.

## Facsimile Terminals

---

**Dimensions** • 29.5x12.6x31.5 inches; 175 lbs.

**Other Features** • integrates images with information stored in computers and office automation networks, and receives computer information for printing or for redistribution to remote facsimile units via a RS-232C interface; receives ASCII data from an intelligent modem connected to the TWX/Telex network; messages can be stored and printed when needed; white line skipping; optional time, date, terminal ID; activity log.

**Date Introduced** • 1983.

**Units Installed** • not available.

**Cost** • \$5,895 single-unit purchase price; \$325 per month 1-year lease; on-site vendor service \$58 per month; lease includes service.

---

• **END**

