
9.7 APPROVED MEDIA (TBD)

A4 : TOSHIBA Copier Paper (European paper)
XL Paper 3R91720
XL Recycle Paper (3R91165, 3R94565: TBC)
XEROX Transparency (3R96023, 3R96002, 3R96000,
3R91334)

Letter : XEROX 4024, 20lb. (3R721)
Hammer Mill TIDAL DP, 20 lb.
XEROX Recycle Paper 3R5130
Transparency, (TBD)

Legal : XEROX 4024, 20lb. (3R727)
Hammer Mill TIDAL DP, 20 lb.
XEROX Recycle Paper 3R5132

9.8 RECORDING DENSITY
Solid image density should meet the following in all recording areas.

Density Variation : not greater than 0.3 OD
Minimum Density : not less than 1.0 OD

Note:
Test Method
Measure darkness of each black solid block (20mm x 20mm , 0.787inches x 0.787 inches) using Macbeth Density Meter.

Test Condition:
The recording paper must be wrapped well just before testing. Recording shall be done at 15 to 25°C, 40 to 70% RH. environment.

9.9 RECORDED PAPER STACK
Recorded paper stack shall stack 150 sheets of A4 / Letter / Legal paper, face-up with collated (by memory). Letter and Legal size of Hammer Mill TIDAL DP,20lb or XEROX 4024,20lb at the standard condition (15 to 25°C, 40 to 70% RH).

9.10 RECORDED PAPER REMOVAL
It shall be possible to remove papers from the printer in the event of power failure or ASF malfunction.

9.11 AUTOMATIC SHEET FEEDER (ASF)

Loading of the paper in the paper cassette shall not normally require special procedures by the operator.

9.11.1 PAPER TRAY (ASF) CAPACITY (UNIVERSAL CASSETTE)

INTERLAGOS have one paper tray as standard.

It shall accommodate 250 sheets (in case of 20 lb. paper).

This Paper Tray can accept cut sheet plain paper 60g/m² to 90g/m² (16 lbs to 24 lbs). The plain paper means the copy paper, high quality paper, or recycled paper normally used for PPC in a general office environment. In addition, the following media can also be used:

Xerox Transparencies

(3R96023, 3R96002, 3R96000, 3R91334): 10 sheets max.

Xerox Labels (TBD): 1 sheet

Auxiliary Paper Cassette shall accommodate 500 sheets (sheets of 20 lb. paper).

Supply of paper can be loaded from front of the terminal.

9.11.2 ASF MALFUNCTION TYPE DEFINITIONS

Paper Jam

Defined as when a single page becomes jammed in the ASF mechanism.

Multi-feed

Defined as when more than one sheets are fed into the ASF simultaneously.

Non-feed

Defined as when a sheet fails to feed into the ASF.

9.11.3 ASF PERFORMANCE

ASF feed performance shall not exceed the following malfunction rates with the cut sheet plain paper.

Individual rates

Paper Jam	:	<=4 / 1000 sheets
Multiple feed	:	<=4 / 1000 sheets
Non-feed	:	<=4 / 1000 sheets
Combined rate	:	<=5 / 1000 sheets

The judgment should be done using average error rate for all tested machines.
Error rate = sum(errors in tested machine) / (operation number of machines)

9.11.4 ASF TESTING

ASF performance shall be evaluated with recommended paper, not with used papers. The test specification of ASF should be as indicated in Appendix H

9.12 AUXILIARY PAPER CASSETTE

One more cassettes can be added to INTERLAGOS as an option. The auxiliary cassette shall accommodate 500 sheets (sheets of 20 lb. cut sheet plain paper). If the Interlagos has more than one cassettes attached, one of the paper cassette should be selected automatically for copying and received document printing.

In addition, for copying, the user can select either one.

9.13 RECORDING REDUCTION**9.13.1 RECEIVED IMAGE REDUCTION**

Received image shall be automatically reduced in vertical and horizontal depending on data length and REDUCTION PARAMETER. Recording reduction for received image can be programmable ON or OFF by user. (default is ON) If a document of an unspecified size is received, Interlagos automatically selects one of the following reduction rates to print out the proper size of cut sheet.

REDUCTION RATIO

95%

90%

86%

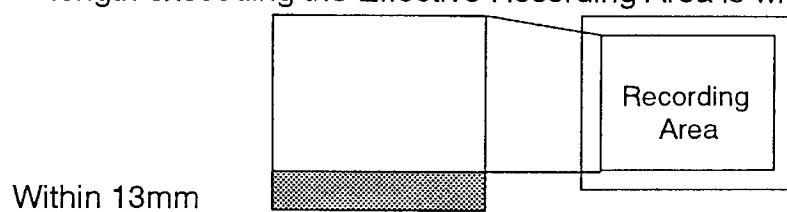
83%

80%

73%

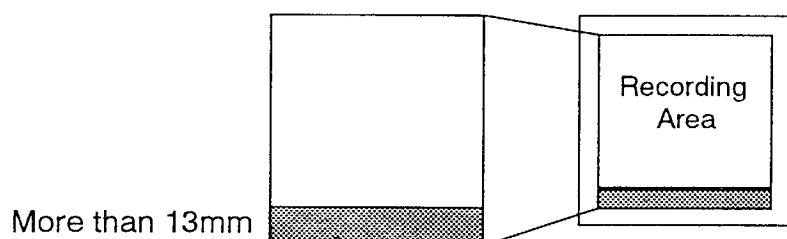
(1) When received document is same size as the recording paper.

- It prints in the same size, and the shaped portion will be discarded, if the length exceeding the Effective Recording Area is within 13mm.



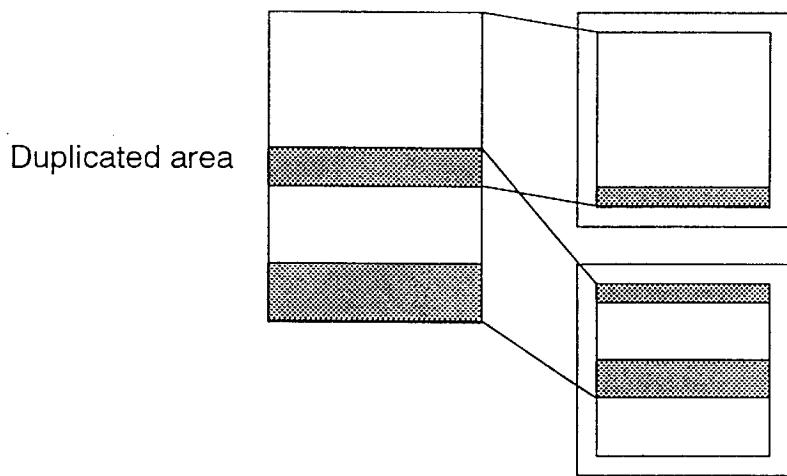
(2) When received document is 13mm or more longer than the recording paper.

- It is automatically reduced in printing. No discarding will be activated. Reduction as much as 73% will be performed. This process is applicable when the document size exceeds 13mm in length and recording is occurs with up to 73% reduction.



(3) When document data can not be printed on one page, even at 73%.

- The document data is recorded at its original size on two or more sheets of paper. The data at the top of the second page is a duplicate of the bottom area recorded on the first page.



9.13.2 COPY REDUCTION

If the operator select auto reduce copy, copied image shall be automatically reduced depending on data length. In this case the reduction ratio is the same as that for received image reduction.

Also the operator can select four fixed reduction ratio as follows.

100%
86%
75%
50%

9.14 FIXATION

9.14.1 TOLERANCE

Fixation rate : 80% or more

9.14.2 TEST METHOD

1. Print the test chart on three A4 or LETTER size papers continuously.
2. Choose one of the three printed papers as a test sample and measure darkness (OD1) of each black solid block (20 mm x 20 mm, 0.787 inches x 0.787 inches) using Macbeth Density Meter.
3. Place the test sample on the equipment, which is used for evaluation of fixation, a rubbing tester manufactured by DAIDO KAGAKU SEIKI SEISAKUSHO. Place four sheets SILBON-C Paper on the test sample and move it back and forth five times applying a 500 g load.
4. Measure darkness (OD2) of each solid block (20 mm x 20 mm, 0.787 inches x 0.787 inches) on the printed sample. Obtain a darkness ratio of OD1 to OD2 for each black solid block. The value is regarded as fixation rate.

Fixation rate = OD2 / OD1.

5. Always use fresh paper for evaluation.

9.14.3 Test Condition

15 to 25°C and 40 to 70% RH. environment

9.15 WHITE SPOTS

9.15.1 IMAGE DEFECT

Image defect (white spots) appearing on the black area must meet the following values.

Black Area : Letter

Number of 0.2 to less than 0.8mm (0.0079 inches to less than 0.0315 inches) in diameter White spots : within 12

Number of 0.8 to less than 1.2mm (0.0315 inches to less than 0.0472 inches) in diameter White spots : within 4

9.15.2 EVALUATION METHOD

Visual

9.16 BLACK SPOTS**9.16.1 IMAGE DEFECT**

Image defect (black spots) appearing on the white area must meet the following values.

White Area : Letter

Number of 0.5 to 1.0mm (0.0197 inches to 0.0394 inches) : within 15 in diameter Black spots

9.16.2 Evaluation Method

Visual

9.17 WHITE STREAKS / BLACK STREAKS**9.17.1 IMAGE DEFECT**

Image defect appearing as white streaks or black streaks must meet the following values.

Black Area Letter

Number of less than 0.5 by 5.0mm (0.0197 inches by 0.197 inches)

White streaks : within 4

White Area : Letter

Number of less than 0.5 by 5.0mm (0.0197 inches by 0.197 inches)

Black streaks : within 4

9.17.2 Evaluation Method

Visual

9.18 BYPASS TRAY

INTERLAGOS have a bypass tray as a standard.

The Bypass Tray can feed just one sheet of any recording media approved to Interlagos.

Cut sheet plain paper : 1 sheet

Transparency : 1 sheet

Label : 1 sheet

Envelope : 1 sheet

10.0 MEMORY SUBSYSTEM

10.1 FULL / QUICK MULTI ACCESS

The terminal can perform multiple jobs at a time, where resources are available.. Refer to Appendix I for further details.

Transmission (dialing) will be started right after scanning of first page is started as default setting.

10.2 IMAGE MEMORY PARAMETERS

Capacity

INTERLAGOS-H: 3.2 M bytes

INTERLAGOS-L: 1.2 M bytes

Option Memory : N/A

Note: Image data is stored by MMR coding

10.3 MEMORY RELATED OPERATIONS

MEMORY JOB NUMBER : 100 jobs

MEMORY TRANSMISSION : Yes

SUBSTITUTION RECEPTION : Yes, 100 files maximum

SEQUENTIAL BROADCASTING : Yes, 25/50 group,
120/188 stations maximum

MANUAL BROADCASTING : Yes, 220/288 stations maximum

MAILBOX : ITU-T mode, 50/100 boxes maximum

DELAYED TRANSMISSION : Yes, 1 month maximum

BUSY TRANSFER : Yes (pre programmed alternate dial)

SECURITY TRANSMISSION : Yes

PREVILEDGED RECEPTION : Yes

TURN AROUND POLLING : Yes

FREE BOX : Yes

RELAY BROADCASTING : ITU-T
(Request only)

SYSTEM POLLING : Yes

RECOVERY TRANSMISSION : Yes, maximum 24 hours

COLLATED PRINT : Yes

PRIORITY TRANSMISSION : Yes

BATCH TRANSMISSION : Yes, Intelligent

POLLING FROM MEMORY : Yes

COVER PAGE TRANSMISSION : Yes

10.4 MEMORY BACKUP

Image memory : N/A

Programmed data : Data programmed within system memory shall be retained during power failure or power off, Expected life of the primary battery is for 5 years.

10.5 MEMORY FOR PRINT BUFFER

Print buffer memory is provided for printing and receiving reduction separately. Therefore, Interlagos can receive data during printing.

11.0 PC INTERFACE

PC interface shall be provided so that PC-Facsimile (Transmit and receive) and PC-Scanning function can be available with appropriate PC-Fax software.

PC-Fax Communication:	Class 2.0 compatible Send from PC (direct) Receive to PC (indirect)
PC-Scanning :	TWAIN STANDARD, FINE, SUPER-FINE
Printer Emulation :	Compressed Windows GDI Printing (300x300 / 600x600 dpi)
Local Setup	Customer and service data can be uploaded to PC and downloaded from PC.
Required Driver software :	Shall be developed by XEROX
Operating Environment :	Windows 3.1, 3.11, 95, 98 and NT4.0
Interface :	Bi-directional Parallel (ECP)
Connector :	Centronics, 36 pin connector

Note: Operating Environment depends on Driver software

12.0 MISCELLANEOUS

12.1 LOCAL COPY FUNCTION

Normal Copy	:	FINE and Super-FINE resolution
Multiple Copy	:	Up to 99 batch, with collated, FINE and Super-FINE resolution
Halftone Copy	:	FINE and Super-FINE resolution
Copy Reduction	:	Four fixed reduction ratio and automatic reduction user can be selected

12.2 INTERNAL CLOCK

Format* : DD-MM-YYYY, YYYY-MM-DD, or MM-DD-YYYY,
12 or 24 HR Format, user programmable

Accuracy : 3 seconds / day maximum

Leap year and Year 2000 compliant

Note *:

The LCD only displays 2 digits of the year.

12.3 LIST, RECEIPT AND REPORTS

Activity Report - Send :	last recent 40 transactions
Activity Report - Receive :	last recent 40 transactions
Confirmation Report :	Yes
Confirmation Report-Memory :	Yes
Broadcast Report :	Yes
Multi - Polling Report :	Yes
Pending Jobs Report :	Yes
Mailbox Reception Report :	Yes, ITU-T
Mailbox ITU-T Report:	Yes
Speed Dial Phonebook :	Yes
One Touch Phonebook :	Yes
Group Phonebook :	Yes
Department Code Report :	Yes
Power Failure List :	Yes
Menu Map:	Yes
Function List :	Yes User and Service
Protocol Trace List :	Yes, for Maintenance
Error Count List :	Yes, for Maintenance
Drum History List :	Yes, for Maintenance
Visual Confirmation Report :	Yes, ON / OFF user programmable for complete or incomplete transmission operation respectively

12.4 DIAGNOSTICS

12.4.1 POWER ON DIAGNOSTICS (TBD)

INTERLAGOS performs power on diagnostic automatically every power on sequence. It diagnose whether if all status of machine sensors, memory (DRAM and SRAM) are in correct condition.

Machine sensors check :

Check all sensors in the scanning paper pass and printing paper pass to detect document and paper jam.

SRAM destruction check :

System and user backup data is store in SRAM with checksum data. The terminal calculate checksum and compare with stored one. The terminal displays error message and clear all backup data if checksum is not correct.

12.4.2 SERVICE MODE DIAGNOSTICS (TBD)

Service representative can perform the following special diagnostics not permitted to the operator. Special operation is required to enter this mode.

Operation Panel Test

Print Test

Modem Test

Dial Test

PIX Memory Test

Sensor Check

MF RX Test

Volume Test

ADF Test