

12.4.3 REMOTE DIAGNOSTICS AND CONFIGURATIONS (RDC)

For after sale service activity, service station can retrieve the terminal's configurations and lists or program configurations remotely via PSTN by using special configured PC.

The following data and reports can be retrieved and programmed.

- Speed Dial Data
- Group Dial Data
- One Touch Dial Data
- Terminal ID and Name
- Date and Time (Retrieve only)
- Function Setting Data
- Department Management Data
- Scanner and Printer Counter (Retrieve only)
- Memory Dump

The following reports can be retrieved.

- Memory Dump List
- Error Count List
- Protocol Trace List
- Function List
- Activity Report (TX/RX)
- Speed Dial List
- Group Phonebook
- One Touch Phonebook
- Department Code Report
- Drum History List
- Mailbox ITU-T Report
- Test Report (TBD)

The following test can be performed.

TBD

F/W can be downloaded from telephone network, PC using Flash ROM.

TBC

12.5 DEPARTMENT MANAGEMENT

When the department management function is on, the department management using 5-digit department codes is possible. The request message of department code appears on the LCD (at this time external telephone transmission is impossible except for actions that are part of the reception process and external telephone conversation; transmission, list printing and copying are also not possible).

When a suitable department code is input, the system returns to standby status, and normal operation becomes possible.

50 departments are available.

12.6 DIRECT FUNCTION ACCESS

Some functions which are used frequently, are assigned for one touch keys. Therefore, a operator can setup these functions by easy operation of one touch keys. See 17.2 KEYBOARD.

12.7 ACCOUNT CODE CONTROL

When the "Account Code" function is on, INTERLAGOS requires a operator to input the account code to distinguish the purpose of each transmission. INTERLAGOS records those account codes and transmission information on the Journal.

12.8 COVER SHEET

INTERLAGOS can make cover sheet and send it to another station automatically with document(s). Cover sheet can attach not only transmitter and receiver information but Image data such as logotype. The following information can be programmed on the Cover sheet.

Date

Resend information

FAX name and number of transmitter and receiver

Personal name of transmitter and receiver

Total page of document

Image data

12.9 DIRECTORY DIALING

INTERLAGOS has directory dialing feature which permit customer to select remote number using the name of Speed dial, one touch dial and group dial. Appendix U is character set for programming the name of speed dial, one touch dial and group. Also these characters can use to programming machine name, department name.

12.10 SEPARATOR PAGE

INTERLAGOS has the feature which divides print jobs (received document) using separator page.

12.11 AUTO SUPPLIES ORDER (REMOTE ACCESS)

INTERLAGOS has the feature which sends a supplies order report to the programmed facsimile number automatically on the following conditions:

Toner end

Drum low

Drum end

This has no relation to the RDC feature. So, an "automatic supply order" message is not sent to the RDC Host PC.

- 13.0POWER REQUIREMENTS
- 13.1VOLTAGE INPUT
- The terminal shall operate safely and meet all the specifications of this specification with the following electrical input conditions.
- AC 90-140 V, 45-65 Hz or
- AC 198-264 V, 45-65 Hz whichever required for destination.
- 13.2POWER INPUT CORD
- The AC voltage power input cord shall be provided with appropriate MAIN PLUG for respective destinations. Refer to the Appendix A.
- 13.3POWER SWITCH
- A POWER switch is provided to turn on and off of power.
- 13.4POWER CONSUMPTION
- Power consumption for the following modes while using a ITU-T #1 as a test chart at nominal input voltage should be:
- Standby
- Super Power Save mode : <= 2W
- Printer power save mode : To be confirmed
- No power save mode : To be confirmed
- Transmission from memoryTBC watts, maximum
- Receiving to memoryTBC watts, maximum
- CopyingTBC watts, maximum
- 13.5GFP (GROUND FAULT PROTECTION)
- INTERLAGOS Series meets XEROX GFP standard by double insulation.

13.6 POWER SAVE MODE

To save STANDBY power consumption, INTERLAGOS has following two POWER SAVE MODE.

13.6.1 SUPER POWER SAVE MODE

INTERLAGOS has the super power save mode, which reduces the STANDBY power consumption to 2 watts. In the super power save mode, only the Sub-CPU works to watch CI detection, 1EEE1284 signal, document loading, off-hook, and POWER SAVE key being pressed. When the machine detects one of those operations being performed, it have the Main CPU wake up within 5 seconds. There are two super power save mode; AUTO mode and MANUAL mode, selectable by the operator.

In the AUTO mode, the machine enters the super power save mode when it is idle. CI detection, 1EEE1284 signal or above operation by the operator automatically wakes the machine up. After a job is over, the machine automatically returns to the super power save mode.

In the MANUAL mode, the machine enters the super power save mode by pressing the Power Save key. In this mode, the machine automatically returns to the super power save mode only when reception and printing after CI detection is over. In other words, the machine does not return to the mode when it wakes up by any operation except the above. To enter the super power save mode again, the operator has to press the POWER SAVE key.

The machine can enter the super power save mode on condition that there is no pending jobs in the machine, no data is stored in the image memory, and that no printer error and no scanner error occur.

13.6.2 PRINTER POWER SAVE MODE

Only when the machine is in the MANUAL super power save mode, the operator can select whether the electric power for the printer is turned off or the standby temperature is kept while the Main CPU stays awake. When the printer power save mode is set to on, the electric power is supplied to the printer only when there is a printing factor. The electric power is cut off after printing is over. The printer power save mode is selectable by the operator.

13.7 POWER FAILURE OPERATION / BACKUP

The terminal shall have an emergency battery back up that will enable retaining of programmed parameters and clock. Life of the battery is expected to be for 5 years long.

13.8 RUSH CURRENT

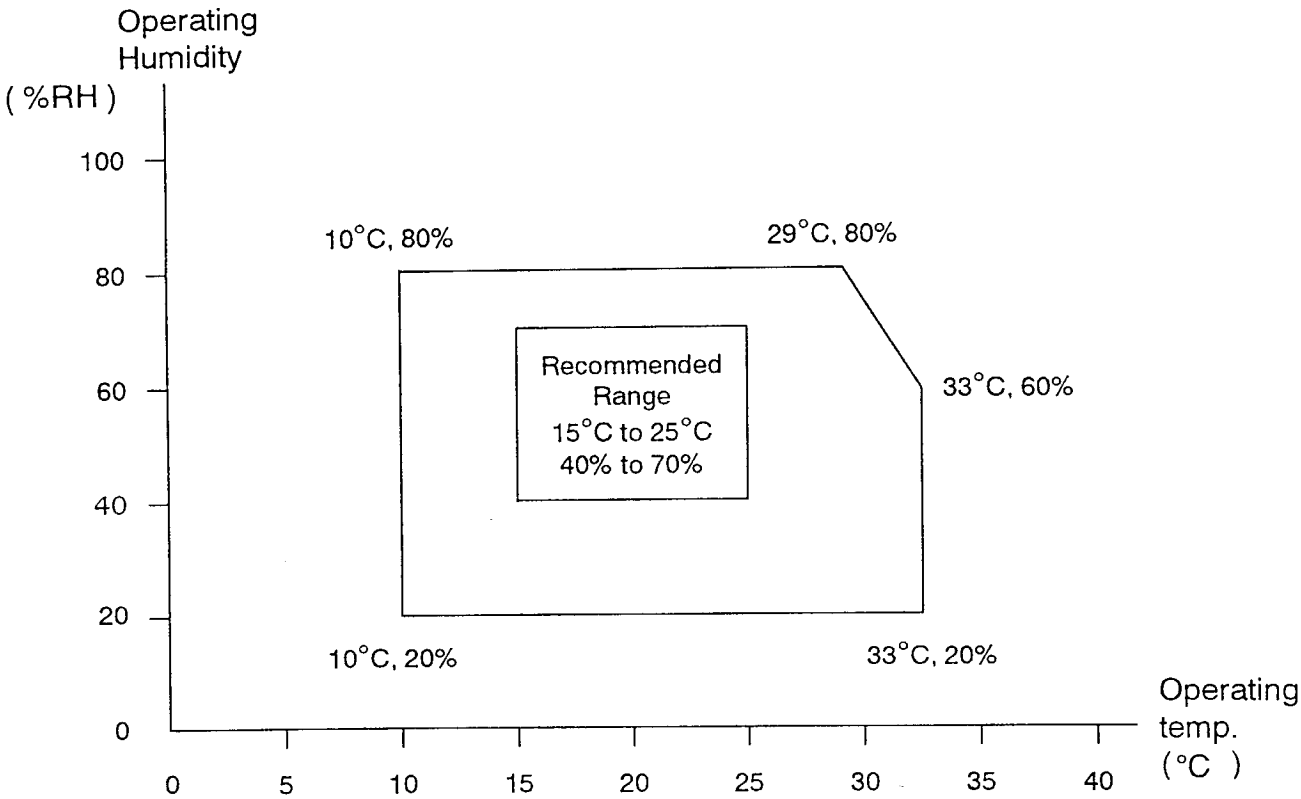
Maximum 80 Ampere of rush current may flow for 10 milli-seconds in to the terminal during power on.

14.0 ENVIRONMENT REQUIREMENTS

14.1 OPERATING ENVIRONMENT

The terminal shall meet all requirements of this specification when operated within the following condition:

14.1.1 TEMPERATURE AND HUMIDITY



- Usable Range :
- Indicates the usable range of this machine.
- Recommended Range :
- We request you to set and use this machine in this range so that the machine may be operated in a good condition.
- Remarks :
- In outside of the recommended range, waving or wrinkling of the recording paper may occur and may decrease of print quality.
Print quality should be evaluated in the above recommended range.

- 14.1.2 ALTITUDE
- 0 m - 2500 m
- 1013 hPa - 740 hPa

14.2 NON-OPERATING ENVIRONMENT

The terminal shall perform properly when normalized to the operating environment after indefinite exposure to the following non-operating environment. The recording paper shall not be subjected to this non- operating environment.

14.2.1 ENVIRONMENT IN STORAGE AND TRANSPORTATION

Main Unit (except for initial DRUM / TONER) :

Temperature	-25 to 45°C	(24 months)
Humidity	20 to 90% RH Non condensing	

(with initial DRUM / TONER) :

Temperature	0 to 35°C	(12 months)
	-20 to 0°C	(18 days)
	35 to 40°C	(18 days)
Humidity	20 to 85% RH Non condensing	

supply DRUM, TONER :

Temperature	0 to 35°C	(12 months)
	-20 to 0°C	(18 days)
	35 to 40°C	(18 days)
Humidity	20 to 85% RH Non condensing	

14.2.2 SHIPMENT

With approved packaging, the terminal should withstand shipment to destination by common carriers without physical damage and without causing settings to exceed installation tolerance or affecting functional performance. The drop and vibration tests described in 14.3 and 14.4 shall be used to verify conformance to this requirement.

14.3 SHOCK TEST(Unpacked Shock Testing)

The terminal shall be free of damage after drop test of bottom surface from 76 millimeters (3 inches).

14.4 PACKAGING DROP TEST

The packaged product should be capable of withstanding drop test as described below:

Packaged product under the test shall be dropped free fall at 1 corner, 3 edges, and 6 face(flat), from 60 centimeters (23.62 inches)(TBD) height.

14.5 VIBRATION TEST

The unpacked terminal should be capable of withstanding vibration as described below during operation:

Frequency:	5.0,7.5,10.0,12.5,15.0,20.0,40.0,60.0,80.0,100.0Hz (0.70G max.)
Duration :	5minutes for each frequency, in three directions respectively

14.6 ELECTRO-STATIC DISCHARGE SUSCEPTIBILITY

The terminal shall be tolerant of sporadic static discharge of 7 kilo volts (KV) without degradation of terminal performance. Minor copy perturbations (e.g. black dots or lines) are permitted when the terminal is subjected to this level of static discharge.

The terminal shall be tolerant of static discharge of 15 KV without permanent damage of the terminal. Malfunctions are permitted when the terminal is subjected to this level of static discharge.

The tolerance test shall consist of applying a static potential to susceptible operator accessible areas, e.g. document input area, document/copy output area and control panel. A minimum of 20 trials shall be applied to each test areas. Static discharge will be simulated by charging a 200 pico-farad capacitor to the test level and discharging to the system through a 500 ohm.

14.7 POWER LINE DISTURBANCE

The terminal shall be tolerant when subjected to the following power line disturbances. Minor copy perturbations (e.g. black dots or lines) are permitted when the terminal is subjected to the disturbance.

14.7.1 POWER LINE NOISE INTERFERENCE

across the line	: 2000 volts p-p, 800 nanosecond.
between line and frame ground	: 2000 volts p-p, 800 nanosecond.

14.7.2 POWER LINE DROP

100 % drop for 10 milliseconds at nominal voltage input.

14.8 AUDIBLE OPERATING NOISE

Audible operating noise shall not exceed 48 dB(A)* and standby noise shall not exceed 40 dB(A) at condition of the followings:

Position :	1 meter from the front of the terminal (Based on ISO 7779)
Operation :	copy operation for ITU-T No. 1 chart
Exception :	Momentary sounds and beep sounds may be neglected.

- * Operating audible noise target is 48 dB(A).
TOSHIBA TEC should replace the value after evaluating.

15.0 RELIABILITY

15.1 MACHINE RELIABILITY

Design life shall exceed 5 years or 102,000 transactions which ever occurs first, with periodic preventive maintenance. 1 copy = 2 transactions (1 scan + 1 print)

MTBF : indicated in Appendix J
MTTR : less than 20 minutes

15.2 CONSUMABLE LIFE

Toner Cartridge (at printing coverage 4% of effective area in A4)
Initial Toner approximately 3000 sheets (continuous printing)
Supply Toner approximately 6000 sheets (continuous printing)

Drum Cartridge (at printing coverage 4% of effective area in A4)
Life approximately 20000 sheets (continuous printing)
Detail explanation is written in 17.6.

15.3 RECOMMENDED MAINTENANCE PERIOD

The following parts are recommended to be replaced for preventive maintenance.

ADF PAD UNIT : 12000 sheets or 1 year,
whichever comes first
TRANSFER ROLLER : 50000 sheets
FUSER UNIT : 50000 sheets

16.0 AGENCY APPROVALS/COMPLIANCE

The terminal shall have approval or compliance for applicable PTT, Safety, EMC requirements as follows.

PTT : FCC part68, DOC, CTR21, BZT, BABT, etc.

Safety : UL/C-UL1950
EN60950
CB
NOM for Mexico

EMI : FCC Part15 Class B
EN55022 Class B

Others for CE Mark
: EN50082-1 (Immunity)
EN60555-2 (Harmonic)
EN60555-3 (Voltage fluctuation and flicker)