

## 2. Product Specifications

### 2.1 Product Overview

| Item          | Descriptions   | Remark |
|---------------|--|--------|
| Basic Model   | ML-2010  |        |
| Series Model  | ML-2015  |        |
| Marketing     | Personal use   |        |
| Specification | <ul style="list-style-type: none"> <li>· 20ppm(Ltr. 22ppm), Jupiter 4e 150MHz, 8Mbytes SDRAM</li> <li>· 1K(initial), 2K(sailles)</li> <li>· USB 1.1 Model(Compatible with USB 2.0), IEEE 1284 Parallel(ML-2015)</li> <li>· 150pages feeding, 100pages Face Down</li> </ul> |        |

### 2.2 Specifications

- Product Specifications are subject to change without notice. See below for product specifications.

#### 2.2.1 General Specifications

| Item              | Descriptions   |
|-------------------|--|
| Print Method      | Electro-photographic Printing                                      |
| Developing system | Non-Magnetic, Mono-Component Developing System                     |
| Print Speed       | 20 PPM : A4 size<br>22 PPM (Letter size)                           |
| Resolution        | 1200 X 600 dpi   |
| Source of Light   | Laser diode (LSU : Laser Scanning Unit)                            |
| Warm-Up Time      | Cold Warm-up : 30sec, Sleep mode : 30 sec                          |
| First Print Time  | Less than 10 seconds (Ready to 1st page out)                       |
| Feed Method       | MPF Type   |
| Media Size        | 76 X 128mm (3 x 5") to 216 X 356mm (8.5 X 14")                     |
| Paper thickness   | Tray : 16 ~28 lb , Manual Feeder : 16 ~ 43 lb                      |
| Size(W X D X H)   | 358 ×299 ×217 mm   |
| Weight            | Net : 4.8Kg(30.6lb) with toner cartridge<br>Gross : 7.65Kg(37.7lb) |
| Acoustic Noise    | Stand by : Less than 35 dB<br>Printing : Less than 53 dB           |
| Power save mode   | Yes  |
| Toner save mode   | Yes  |
| Machine Life      | 50,000pages  |

| Item  | Descriptions  |                              |
|---|---|------------------------------|
| Periodic Replacing Parts<br>※Same with Machine Life | Pick Up Roller : 50,000 Pages                             |                              |
|   | Transfer Roller : 50,000 Pages                            |                              |
|   | Fuser Assembly : 50,000 Pages                             |                              |
|   | Toner Sensor  | No                           |
|   | Toner Type  | Non-Magnetic Contact System  |
|   | Toner Initial   | 1,000 sheets@ISO 5% coverage |
|   | Toner sale  | 3,000 sheets@ISO 5% coverage |
| Cassette  | - Paper capacity : 150sheets                              |                              |
|   | - Paper weight : 60 ~ 163 g/ m <sup>2</sup> / 16 ~ 43 lbs |                              |

## 2.2.2 Controller

| Item           | Descriptions  |
|----------------|---|
| Processor(CPU) | Jupiter 4e 150MHz   |
| Memory         | Standard/Max. : 8MB(Max. 8MB)                                 |
|                | Type : SDRAM  |
|                | Expand Memory Slot, Type : NO                                 |
|                | Compression Technology : MET(Memory Enhancement Technology)   |
|                |   |
| (Emulation)    | Standard : SPL  |
|                | Auto Emulation Sensing : YES                                  |
| *(Interface)   | Standard : USB 1.1 Only(Compatible with USB 2.0)              |
|                | Option : NO   |
|                | Auto Interface Sensing : YES                                  |
| Font           | Type : Windows Fonts  |
|                | Number : NO   |
| Test Print     | Demo Mode : Press the Demo Key for 2 Seconds                  |
|                | Configuration Mode : Press the Demo Key for 2 Seconds         |
|                | Cleaning Mode : Not Support                                   |
|                | Service Mode : Press the Demo Key when Power on(F/W Download) |

※ ML-2015 model : I/O Support(USB 1.1 + IEEE 1284 Parallel port)

## 2.2.3 Electrical Specification

| Item              | Descriptions                   |  | Remark |
|-------------------|--------------------------------|--|--------|
| Input Voltage     | Nominal input voltage          | EURO : 220~240VAC<br>USA : 110~120VAC  |        |
|                   | Input voltage range            | EURO : 198~255 VAC<br>USA : 100~140VAC |        |
|                   | Nominal frequency              | 50/60 MHz                              |        |
|                   | Frequency tolerance            | +3Hz                                   |        |
| Power Consumption | Printing : 300W Avg(Max. 500W) |  |        |
|                   | Idling : 100W Avg or less      |  |        |
|                   | Power Save : 8W Avg or less    |  |        |

## 2.2.4 Environmental Range

| Item        | Operating       | Storage             |
|-------------|-----------------|---------------------|
| Temperature | 10~30℃(50-90°F) | -20~40℃ (-4~104 °F) |
| Humidity    | 20~80%RH        | 10~80%RH            |

## 2.2.5 Toner Cartridge

| Item               | Descriptions                    | Remark  |
|--------------------|---------------------------------|---|
| Life span          | Starter: 1,000 Pages(initial)   | A4 Size, ISO 19752 Pattern<br>5% Coverage SIMPLEX |
|                    | Running : 3,000 Pages(sales)    |   |
| Developing Method  | Non-magnetic Contact Developing |   |
| Charging Method    | Conductive Roller Charging      |   |
| Toner Empty sensor | No                              |   |
| Ozone              | 0.1PPM or less                  |   |
| Cartridge Style    | Single cartridge                | Same as   |

## 2.2.6 Paper Handling Specifications

Please refer to "Paper Specifications" on user Guide.

### 2.2.6.1 Input Paper Size

| Paper              | paper size               | Manual Feeder |
|--------------------|--------------------------|---------------|
| A4                 | 210 X 297 mm             | O             |
| Letter             | 216 X 279(8.5 X 11")     | O             |
| US Folio(Legal13") | 216 X 330(8.5 X 13")     | O             |
| Legal(Legal14")    | 216 X 356(8.5 X 14")     | O             |
| Executive          | 184 X 267((7.25 X 10.5") | O             |
| Statement          | 140 X 216(5.5 x 8.5")    |               |
| ISO B5             | 176 X 250                | O             |
| JIS B5             | 182 X 257                | O             |
| A5                 | 148 X 210                | O             |
| A6                 | 105 X 148                | O             |
| No.10 Env.         | 105 X 241(4.15 X 9.5")   | O(1 sheet)    |
| Monarch Env.       | 98 X 191(3.87 X 7.5")    | O(1 sheet)    |
| DL Env.            | 110 X 220(4.33 X 8.66")  | O(1 sheet)    |
| C5 Env.            | 162 X 229(6.38 X 9.01")  | O(1 sheet)    |
| C6 Env.            | 114 X 162(4.49 X 6.38")  | O(1 sheet)    |
| Transparency(OHP)  | A4 or Letter             | O(1 sheet)    |
| Label paper        | A4 or Letter             | O(1 sheet)    |

### 2.2.6.2 Input capacity

| Item | Descriptions |
|------|--------------|
| Tray | 150 sheets   |

### 2.2.6.3 Output capacity

|           |            |
|-----------|------------|
| Face Down | 100 sheets |
|-----------|------------|

### 2.2.6.4 Duplex Printing

|                     |                   |
|---------------------|-------------------|
| Manual Duplex (Yes) | Manual Feed Guide |
|---------------------|-------------------|

## 2.3 Model Comparison Table

|                 | ML-1610 Series                | ML-2010 Series                | Remark |
|-----------------|-------------------------------|-------------------------------|--------|
| CPU             | Jupiter 4e                    | Jupiter 4e                    | same   |
| Code            | Legacy                        | Platform                      |        |
| PPM             | A4 : 16ppm / Letter : 17ppm   | A4 : 20ppm / Letter : 22ppm   |        |
| Memory          | 2MB                           | 8MB                           |        |
| Dev. Fuse       | No. (New Drum Detection : No) | No. (New Drum Detection : No) | same   |
| Resolution      | 300 / 600dpi                  | 600 / 1200dpi                 |        |
| SPL Driver      | Unified UI                    | Unified UI                    |        |
| Manual Duplex   | No.                           | Yes.                          |        |
| Fan             | No.                           | Yes.                          |        |
| Mech            |                               | Manual Feeder Guide : Yes     |        |
| Manual Tray LED | Green                         | Red                           |        |