

# Phomemo M220 Printer

Labelife 50mm X 80mm label header info from pcap.

```
0000 1b 00 20 7a ce fb 0a 8e ff ff 00 00 00 00 09 00
0010 00 01 00 06 00 01 03 98 7a 00 00 1b 4e 0d 05 1b
0020 4e 04 0b 1f 11 0a 1d 76 30 00 33 00 67 02 00 00
0030 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
```

- 1) USB control stuff.
- 2) Print speed = 5
- 3) Print density = 4
- 4) Media type = 0x0A (Label with gaps).
- 5) Begin raster print (GS v0).
- 5) No bytes per line (0x33 = 51)
- 6) No. lines in the image = 0x0267 (615)

168	2023-07-11 16:08:43.363192	host	0xfffff... 1.6.1	0x0000... USB	31411 URB_BULK out
169	2023-07-11 16:08:43.577368	1.6.1	0x00000... host	0xfffff... USB	27 URB_BULK out
170	2023-07-11 16:08:43.577938	host	0xfffff... 1.6.1	0x0000... USB	35 URB_BULK out
171	2023-07-11 16:08:43.578024	1.6.1	0x00000... host	0xfffff... USB	27 URB_BULK out

**Note:** 51 bytes/line \* 615 lines = 31,365 bytes. Wireshark packet dump captured 31,411 bytes with a message that the packet was padded with extra bytes. After the header, the entire print job was sent by the Labelife software.

Phomemo tools 50mm X 80mm label header info from pcap. (Cups Test page print)

```
0000 40 5e ea f8 91 9b ff ff 53 03 01 14 01 00 2d 00
0010 e7 d5 ad 64 00 00 00 00 e1 20 04 00 8d ff ff ff
0020 00 20 00 00 00 20 00 00 00 00 00 00 00 00 00
0030 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
0040 1b 40 1b 4e 0d 05 1b 4e 04 0a 1f 11 0a 1d 76 30
0050 00 30 00 ff 00 00 00 00 00 00 00 00 00 00 00
```

- 1) USB control stuff.
- 2) ESC @ = Init printer. *This is from M02 protocol Not needed for M220.*
- 2) Print speed = 5
- 3) Print density = 10
- 4) Media type = 10 (Label with gaps).
- 5) Begin raster print (GS v0).
- 5) No bytes per line (0x30 = 48)
- 6) No. lines in the image = 0xff (255)

690	4.888763	host	1.20.1	USB	8256 URB_BULK out
697	4.912527	1.20.1	host	USB	64 URB_BULK out
698	4.912699	host	1.20.1	USB	8256 URB_BULK out
721	4.993097	1.20.1	host	USB	64 URB_BULK out
722	4.993403	host	1.20.1	USB	8256 URB_BULK out
825	6.410985	1.20.1	host	USB	64 URB_BULK out
826	6.411242	host	1.20.1	USB	6205 URB_BULK out

**Note:** 48 bytes/line \* 255 lines = 12,240 bytes. Wireshark packet dump captured four separate packet sets to the printer totalling 30,973 bytes. There were GS v 0 bytes in three of the four packet sets. Each time the printer was sent a GS v0 packet after the first one – it caused the printer to seek to a new label and begin a new print job.