

Portable Thermal Printer
User's Manual



Attentions:

1. The printer should be away from the water and avoid the sunlight, glass and heat source direct exposure. Avoid any liquid, dust and metal objects into the interior of the printer.
2. The high environment temperature (>45°C) or the low temperature (<5°C) will reduce the print quality.
3. The high humidity (>85%RH) or the low humidity (<20%RH) will reduce the print quality.
4. Don't open the cover of paper bin in printing process.
5. Using low quality or storage too long time print paper will reduce the print quality, even damage the printer.
6. If there is dirt at the print head, need to use a soft cotton or cotton swab to dip alcohol and wipe it clean to prevent the print head from being worn.
7. Don't touch the print head and release directly in order to avoid damaging the print head because of static electricity. Don't scratch or touch the print head with a hardened object to avoid damaging the print head.
8. Please try to use up the battery before charging, which can effectively protect the battery life.
9. Please using the power supply attached to the product, or else, it maybe damage the printer or cause the charging time to extend.
10. In the course of any accident, please disconnect the printer power supply, and remove the printer battery immediately.
11. If user disassemble the printer, the company has the right to refuse warranty on the product.

Storage precautions:

1. If not to use the printer for a long time, please be sure to remove the battery from printer, and disconnect the charger's power supply.
2. The storage time of printing content is short using the ordinary thermal printing paper. If you want to print the long-term preservation, please select the long-term thermal printing paper.
3. The thermal printing paper should not be stored in high temperature, humidity environment, or direct sunlight. If its package has been opened, please place it in the dark place.

1. Product introduction



2. Functions and features

Items	Parameters
Printing method	Thermal dot-matrix printing
Resolution	200DPI, 108DPI
Printing width	48mm (384 dots)
Printing speed	80mm/s
Connectivity	Wired: Standard Mini-USB port, Optional Serial port (RS232C) Wireless: Optional 2.4G Bluetooth (SPP/RF), Android, 4.0 Bluetooth LE (for iOS)
Command sets	/ ESC/POS Command sets
Storage	RAM: 4KB for memory buffer Flash: 16.384K (16K) ROM, 64K (64K) EPROM, 64K (64K) EEPROM, 256K (256K) Flash
Character sets	Chinese: GBK/GB2312/255-24 Latin: ASCII/94/128/255 Other: 128/255/512/1024
Character size	Support variable size printing with different resolution
Tablets	/ Support tablet printing
Barcode	Support 1D barcode printing with 1D, 2D, 3D, 4D, 5D, 6D, 7D, 8D, 9D, 10D, 11D, 12D, 13D, 14D, 15D, 16D, 17D, 18D, 19D, 20D, 21D, 22D, 23D, 24D, 25D, 26D, 27D, 28D, 29D, 30D, 31D, 32D, 33D, 34D, 35D, 36D, 37D, 38D, 39D, 40D, 41D, 42D, 43D, 44D, 45D, 46D, 47D, 48D, 49D, 50D, 51D, 52D, 53D, 54D, 55D, 56D, 57D, 58D, 59D, 60D, 61D, 62D, 63D, 64D, 65D, 66D, 67D, 68D, 69D, 70D, 71D, 72D, 73D, 74D, 75D, 76D, 77D, 78D, 79D, 80D, 81D, 82D, 83D, 84D, 85D, 86D, 87D, 88D, 89D, 90D, 91D, 92D, 93D, 94D, 95D, 96D, 97D, 98D, 99D, 100D, 101D, 102D, 103D, 104D, 105D, 106D, 107D, 108D, 109D, 110D, 111D, 112D, 113D, 114D, 115D, 116D, 117D, 118D, 119D, 120D, 121D, 122D, 123D, 124D, 125D, 126D, 127D, 128D, 129D, 130D, 131D, 132D, 133D, 134D, 135D, 136D, 137D, 138D, 139D, 140D, 141D, 142D, 143D, 144D, 145D, 146D, 147D, 148D, 149D, 150D, 151D, 152D, 153D, 154D, 155D, 156D, 157D, 158D, 159D, 160D, 161D, 162D, 163D, 164D, 165D, 166D, 167D, 168D, 169D, 170D, 171D, 172D, 173D, 174D, 175D, 176D, 177D, 178D, 179D, 180D, 181D, 182D, 183D, 184D, 185D, 186D, 187D, 188D, 189D, 190D, 191D, 192D, 193D, 194D, 195D, 196D, 197D, 198D, 199D, 200D, 201D, 202D, 203D, 204D, 205D, 206D, 207D, 208D, 209D, 210D, 211D, 212D, 213D, 214D, 215D, 216D, 217D, 218D, 219D, 220D, 221D, 222D, 223D, 224D, 225D, 226D, 227D, 228D, 229D, 230D, 231D, 232D, 233D, 234D, 235D, 236D, 237D, 238D, 239D, 240D, 241D, 242D, 243D, 244D, 245D, 246D, 247D, 248D, 249D, 250D, 251D, 252D, 253D, 254D, 255D, 256D, 257D, 258D, 259D, 260D, 261D, 262D, 263D, 264D, 265D, 266D, 267D, 268D, 269D, 270D, 271D, 272D, 273D, 274D, 275D, 276D, 277D, 278D, 279D, 280D, 281D, 282D, 283D, 284D, 285D, 286D, 287D, 288D, 289D, 290D, 291D, 292D, 293D, 294D, 295D, 296D, 297D, 298D, 299D, 300D, 301D, 302D, 303D, 304D, 305D, 306D, 307D, 308D, 309D, 310D, 311D, 312D, 313D, 314D, 315D, 316D, 317D, 318D, 319D, 320D, 321D, 322D, 323D, 324D, 325D, 326D, 327D, 328D, 329D, 330D, 331D, 332D, 333D, 334D, 335D, 336D, 337D, 338D, 339D, 340D, 341D, 342D, 343D, 344D, 345D, 346D, 347D, 348D, 349D, 350D, 351D, 352D, 353D, 354D, 355D, 356D, 357D, 358D, 359D, 360D, 361D, 362D, 363D, 364D, 365D, 366D, 367D, 368D, 369D, 370D, 371D, 372D, 373D, 374D, 375D, 376D, 377D, 378D, 379D, 380D, 381D, 382D, 383D, 384D, 385D, 386D, 387D, 388D, 389D, 390D, 391D, 392D, 393D, 394D, 395D, 396D, 397D, 398D, 399D, 400D, 401D, 402D, 403D, 404D, 405D, 406D, 407D, 408D, 409D, 410D, 411D, 412D, 413D, 414D, 415D, 416D, 417D, 418D, 419D, 420D, 421D, 422D, 423D, 424D, 425D, 426D, 427D, 428D, 429D, 430D, 431D, 432D, 433D, 434D, 435D, 436D, 437D, 438D, 439D, 440D, 441D, 442D, 443D, 444D, 445D, 446D, 447D, 448D, 449D, 450D, 451D, 452D, 453D, 454D, 455D, 456D, 457D, 458D, 459D, 460D, 461D, 462D, 463D, 464D, 465D, 466D, 467D, 468D, 469D, 470D, 471D, 472D, 473D, 474D, 475D, 476D, 477D, 478D, 479D, 480D, 481D, 482D, 483D, 484D, 485D, 486D, 487D, 488D, 489D, 490D, 491D, 492D, 493D, 494D, 495D, 496D, 497D, 498D, 499D, 500D, 501D, 502D, 503D, 504D, 505D, 506D, 507D, 508D, 509D, 510D, 511D, 512D, 513D, 514D, 515D, 516D, 517D, 518D, 519D, 520D, 521D, 522D, 523D, 524D, 525D, 526D, 527D, 528D, 529D, 530D, 531D, 532D, 533D, 534D, 535D, 536D, 537D, 538D, 539D, 540D, 541D, 542D, 543D, 544D, 545D, 546D, 547D, 548D, 549D, 550D, 551D, 552D, 553D, 554D, 555D, 556D, 557D, 558D, 559D, 560D, 561D, 562D, 563D, 564D, 565D, 566D, 567D, 568D, 569D, 570D, 571D, 572D, 573D, 574D, 575D, 576D, 577D, 578D, 579D, 580D, 581D, 582D, 583D, 584D, 585D, 586D, 587D, 588D, 589D, 590D, 591D, 592D, 593D, 594D, 595D, 596D, 597D, 598D, 599D, 600D, 601D, 602D, 603D, 604D, 605D, 606D, 607D, 608D, 609D, 610D, 611D, 612D, 613D, 614D, 615D, 616D, 617D, 618D, 619D, 620D, 621D, 622D, 623D, 624D, 625D, 626D, 627D, 628D, 629D, 630D, 631D, 632D, 633D, 634D, 635D, 636D, 637D, 638D, 639D, 640D, 641D, 642D, 643D, 644D, 645D, 646D, 647D, 648D, 649D, 650D, 651D, 652D, 653D, 654D, 655D, 656D, 657D, 658D, 659D, 660D, 661D, 662D, 663D, 664D, 665D, 666D, 667D, 668D, 669D, 670D, 671D, 672D, 673D, 674D, 675D, 676D, 677D, 678D, 679D, 680D, 681D, 682D, 683D, 684D, 685D, 686D, 687D, 688D, 689D, 690D, 691D, 692D, 693D, 694D, 695D, 696D, 697D, 698D, 699D, 700D, 701D, 702D, 703D, 704D, 705D, 706D, 707D, 708D, 709D, 710D, 711D, 712D, 713D, 714D, 715D, 716D, 717D, 718D, 719D, 720D, 721D, 722D, 723D, 724D, 725D, 726D, 727D, 728D, 729D, 730D, 731D, 732D, 733D, 734D, 735D, 736D, 737D, 738D, 739D, 740D, 741D, 742D, 743D, 744D, 745D, 746D, 747D, 748D, 749D, 750D, 751D, 752D, 753D, 754D, 755D, 756D, 757D, 758D, 759D, 760D, 761D, 762D, 763D, 764D, 765D, 766D, 767D, 768D, 769D, 770D, 771D, 772D, 773D, 774D, 775D, 776D, 777D, 778D, 779D, 780D, 781D, 782D, 783D, 784D, 785D, 786D, 787D, 788D, 789D, 790D, 791D, 792D, 793D, 794D, 795D, 796D, 797D, 798D, 799D, 800D, 801D, 802D, 803D, 804D, 805D, 806D, 807D, 808D, 809D, 810D, 811D, 812D, 813D, 814D, 815D, 816D, 817D, 818D, 819D, 820D, 821D, 822D, 823D, 824D, 825D, 826D, 827D, 828D, 829D, 830D, 831D, 832D, 833D, 834D, 835D, 836D, 837D, 838D, 839D, 840D, 841D, 842D, 843D, 844D, 845D, 846D, 847D, 848D, 849D, 850D, 851D, 852D, 853D, 854D, 855D, 856D, 857D, 858D, 859D, 860D, 861D, 862D, 863D, 864D, 865D, 866D, 867D, 868D, 869D, 870D, 871D, 872D, 873D, 874D, 875D, 876D, 877D, 878D, 879D, 880D, 881D, 882D, 883D, 884D, 885D, 886D, 887D, 888D, 889D, 890D, 891D, 892D, 893D, 894D, 895D, 896D, 897D, 898D, 899D, 900D, 901D, 902D, 903D, 904D, 905D, 906D, 907D, 908D, 909D, 910D, 911D, 912D, 913D, 914D, 915D, 916D, 917D, 918D, 919D, 920D, 921D, 922D, 923D, 924D, 925D, 926D, 927D, 928D, 929D, 930D, 931D, 932D, 933D, 934D, 935D, 936D, 937D, 938D, 939D, 940D, 941D, 942D, 943D, 944D, 945D, 946D, 947D, 948D, 949D, 950D, 951D, 952D, 953D, 954D, 955D, 956D, 957D, 958D, 959D, 960D, 961D, 962D, 963D, 964D, 965D, 966D, 967D, 968D, 969D, 970D, 971D, 972D, 973D, 974D, 975D, 976D, 977D, 978D, 979D, 980D, 981D, 982D, 983D, 984D, 985D, 986D, 987D, 988D, 989D, 990D, 991D, 992D, 993D, 994D, 995D, 996D, 997D, 998D, 999D, 1000D, 1001D, 1002D, 1003D, 1004D, 1005D, 1006D, 1007D, 1008D, 1009D, 1010D, 1011D, 1012D, 1013D, 1014D, 1015D, 1016D, 1017D, 1018D, 1019D, 1020D, 1021D, 1022D, 1023D, 1024D, 1025D, 1026D, 1027D, 1028D, 1029D, 1030D, 1031D, 1032D, 1033D, 1034D, 1035D, 1036D, 1037D, 1038D, 1039D, 1040D, 1041D, 1042D, 1043D, 1044D, 1045D, 1046D, 1047D, 1048D, 1049D, 1050D, 1051D, 1052D, 1053D, 1054D, 1055D, 1056D, 1057D, 1058D, 1059D, 1060D, 1061D, 1062D, 1063D, 1064D, 1065D, 1066D, 1067D, 1068D, 1069D, 1070D, 1071D, 1072D, 1073D, 1074D, 1075D, 1076D, 1077D, 1078D, 1079D, 1080D, 1081D, 1082D, 1083D, 1084D, 1085D, 1086D, 1087D, 1088D, 1089D, 1090D, 1091D, 1092D, 1093D, 1094D, 1095D, 1096D, 1097D, 1098D, 1099D, 1100D, 1101D, 1102D, 1103D, 1104D, 1105D, 1106D, 1107D, 1108D, 1109D, 1110D, 1111D, 1112D, 1113D, 1114D, 1115D, 1116D, 1117D, 1118D, 1119D, 1120D, 1121D, 1122D, 1123D, 1124D, 1125D, 1126D, 1127D, 1128D, 1129D, 1130D, 1131D, 1132D, 1133D, 1134D, 1135D, 1136D, 1137D, 1138D, 1139D, 1140D, 1141D, 1142D, 1143D, 1144D, 1145D, 1146D, 1147D, 1148D, 1149D, 1150D, 1151D, 1152D, 1153D, 1154D, 1155D, 1156D, 1157D, 1158D, 1159D, 1160D, 1161D, 1162D, 1163D, 1164D, 1165D, 1166D, 1167D, 1168D, 1169D, 1170D, 1171D, 1172D, 1173D, 1174D, 1175D, 1176D, 1177D, 1178D, 1179D, 1180D, 1181D, 1182D, 1183D, 1184D, 1185D, 1186D, 1187D, 1188D, 1189D, 1190D, 1191D, 1192D, 1193D, 1194D, 1195D, 1196D, 1197D, 1198D, 1199D, 1200D, 1201D, 1202D, 1203D, 1204D, 1205D, 1206D, 1207D, 1208D, 1209D, 1210D, 1211D, 1212D, 1213D, 1214D, 1215D, 1216D, 1217D, 1218D, 1219D, 1220D, 1221D, 1222D, 1223D, 1224D, 1225D, 1226D, 1227D, 1228D, 1229D, 1230D, 1231D, 1232D, 1233D, 1234D, 1235D, 1236D, 1237D, 1238D, 1239D, 1240D, 1241D, 1242D, 1243D, 1244D, 1245D, 1246D, 1247D, 1248D, 1249D, 1250D, 1251D, 1252D, 1253D, 1254D, 1255D, 1256D, 1257D, 1258D, 1259D, 1260D, 1261D, 1262D, 1263D, 1264D, 1265D, 1266D, 1267D, 1268D, 1269D, 1270D, 1271D, 1272D, 1273D, 1274D, 1275D, 1276D, 1277D, 1278D, 1279D, 1280D, 1281D, 1282D, 1283D, 1284D, 1285D, 1286D, 1287D, 1288D, 1289D, 1290D, 1291D, 1292D, 1293D, 1294D, 1295D, 1296D, 1297D, 1298D, 1299D, 1300D, 1301D, 1302D, 1303D, 1304D, 1305D, 1306D, 1307D, 1308D, 1309D, 1310D, 1311D, 1312D, 1313D, 1314D, 1315D, 1316D, 1317D, 1318D, 1319D, 1320D, 1321D, 1322D, 1323D, 1324D, 1325D, 1326D, 1327D, 1328D, 1329D, 1330D, 1331D, 1332D, 1333D, 1334D, 1335D, 1336D, 1337D, 1338D, 1339D, 1340D, 1341D, 1342D, 1343D, 1344D, 1345D, 1346D, 1347D, 1348D, 1349D, 1350D, 1351D, 1352D, 1353D, 1354D, 1355D, 1356D, 1357D, 1358D, 1359D, 1360D, 1361D, 1362D, 1363D, 1364D, 1365D, 1366D, 1367D, 1368D, 1369D, 1370D, 1371D, 1372D, 1373D, 1374D, 1375D, 1376D, 1377D, 1378D, 1379D, 1380D, 1381D, 1382D, 1383D, 1384D, 1385D, 1386D, 1387D, 1388D, 1389D, 1390D, 1391D, 1392D, 1393D, 1394D, 1395D, 1396D, 1397D, 1398D, 1399D, 1400D, 1401D, 1402D, 1403D, 1404D, 1405D, 1406D, 1407D, 1408D, 1409D, 1410D, 1411D, 1412D, 1413D, 1414D, 1415D, 1416D, 1417D, 1418D, 1419D, 1420D, 1421D, 1422D, 1423D, 1424D, 1425D, 1426D, 1427D, 1428D, 1429D, 1430D, 1431D, 1432D, 1433D, 1434D, 1435D, 1436D, 1437D, 1438D, 1439D, 1440D, 1441D, 1442D, 1443D, 1444D, 1445D, 1446D, 1447D, 1448D, 1449D, 1450D, 1451D, 1452D, 1453D, 1454D, 1455D, 1456D, 1457D, 1458D, 1459D, 1460D, 1461D, 1462D, 1463D, 1464D, 1465D, 1466D, 1467D, 1468D, 1469D, 1470D, 1471D, 1472D, 1473D, 1474D, 1475D, 1476D, 1477D, 1478D, 1479D, 1480D, 1481D, 1482D, 1483D, 1484D, 1485D, 1486D, 1487D, 1488D, 1489D, 1490D, 1491D, 1492D, 1493D, 1494D, 1495D, 1496D, 1497D, 1498D, 1499D, 1500D, 1501D, 1502D, 1503D, 1504D, 1505D, 1506D, 1507D, 1508D, 1509D, 1510D, 1511D, 1512D, 1513D, 1514D, 1515D, 1516D, 1517D, 1518D, 1519D, 1520D, 1521D, 1522D, 1523D, 1524D, 1525D, 1526D, 1527D, 1528D, 1529D, 1530D, 1531D, 1532D, 1533D, 1534D, 1535D, 1536D, 1537D, 1538D, 1539D, 1540D, 1541D, 1542D, 1543D, 1544D, 1545D, 1546D, 1547D, 1548D, 1549D, 1550D, 1551D, 1552D, 1553D, 1554D, 1555D, 1556D, 1557D, 1558D, 1559D, 1560D, 1561D, 1562D, 1563D, 1564D, 1565D, 1566D, 1567D, 1568D, 1569D, 1570D, 1571D, 1572D, 1573D, 1574D, 1575D, 1576D, 1577D, 1578D, 1579D, 1580D, 1581D, 1582D, 1583D, 1584D, 1585D, 1586D, 1587D, 1588D, 1589D, 1590D, 1591D, 1592D, 1593D, 1594D, 1595D, 1596D, 1597D, 1598D, 1599D, 1600D, 1601D, 1602D, 1603D, 1604D, 1605D, 1606D, 1607D, 1608D, 1609D, 1610D, 1611D, 1612D, 1613D, 1614D, 1615D, 1616D, 1617D, 1618D, 1619D, 1620D, 1621D, 1622D, 1623D, 1624D, 1625D, 1626D, 1627D, 1628D, 1629D, 1630D, 1631D, 1632D, 1633D, 1634D, 1635D, 1636D, 1637D, 1638D, 1639D, 1640D, 1641D, 1642D, 1643D, 1644D, 1645D, 1646D, 1647D, 1648D, 1649D, 1650D, 1651D, 1652D, 1653D, 1654D, 1655D, 1656D, 1657D, 1658D, 1659D, 1660D, 1661D, 1662D, 1663D, 1664D, 1665D, 1666D, 1667D, 1668D, 1669D, 1670D, 1671D, 1672D, 1673D, 1674D, 1675D, 1676D, 1677D, 1678D, 1679D, 1680D, 1681D, 1682D, 1683D, 1684D, 1685D, 1686D, 1687D, 1688D, 1689D, 1690D, 1691D, 1692D, 1693D, 1694D, 1695D, 1696D, 1697D, 1698D, 1699D, 1700D, 1701D, 1702D, 1703D, 1704D, 1705D, 1706D, 1707D, 1708D, 1709D, 1710D, 1711D, 1712D, 1713D, 1714D, 1715D, 1716D, 1717D, 1718D, 1719D, 1720D, 1721D, 1722D, 1723D