



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for EPSON TM-L90. You'll find the answers to all your questions on the EPSON TM-L90 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual EPSON TM-L90
User guide EPSON TM-L90
Operating instructions EPSON TM-L90
Instructions for use EPSON TM-L90
Instruction manual EPSON TM-L90



EPSON
EXCEED YOUR VISION

2006-2007
System Product Guide

POS Terminal **MR**
POS Terminal **SR**
POS Terminal **IR**
Printers **TM SERIES**
Customer Displays **DM-D SERIES**



[You're reading an excerpt. Click here to read official EPSON TM-L90 user guide](http://yourpdfguides.com/dref/2458902)
<http://yourpdfguides.com/dref/2458902>

Manual abstract:

@@@ Innovation - it's all part of Epson's customer first approach. Co-Existence In Harmony With The Environment In line with its commitment to maintaining harmony with nature, Epson has implemented a wide range of measures to protect the environment. These began more than ten years ago, with the declaration that the company would stop using CFCs. Other examples include the reduction of CO2 emissions at factories and facilities, reduction of waste materials, and recycling. This careful attention to the environment has enabled a number of Epson factories to acquire ISO14001 certification. Quality

Unrivaled Quality All Epson products have one thing in common outstanding quality. This is the result of the careful attention we pay to customers' particular requirements. Thanks to this superior quality, Epson was the first mini printer manufacturer to acquire accreditation for ISO9001, the strictest of the ISO9000 international quality standards, covering every aspect of quality control, from quality assurance systems to services. ISO9001 compliance is just another example of the measures Epson takes to bring you total product satisfaction. 2 Epson Ecology Label The Epson Ecology Label is a voluntary labeling (Type II) system applicable to all Epson products.

Epson develops new products based on its own evolving set of environmental standards and discloses the products' compliance through the label. The products with this label are Epson Ecology Products. Refer to the web site (<http://www.epson.co.jp/e/>) for the standards in detail. Epson Takes The Initiative For Your Solution. Setting the standards by providing revolutionary products for a wide range of applications. The facts speak for themselves. In the area of hardware, Epson has continued to provide countless solutions, such as the TM-C100, the full color inkjet printer for POS applications.

With regards to software, Epson took the initiative by introducing ESC/POS, a proprietary POS printer command system including patented commands and enabling versatile POS system construction with high scalability. Compatible with all types of Epson POS printers and displays, this proprietary control system also offers the flexibility to easily make future upgrades. Its popularity is worldwide. Another world first was OLE POS (OPOS) OCX driver software for application software development support in Windows NT, Windows 2000, Windows XP and WEPOS environments. For TM software development support in Java environments, there's JavaPOSTM. These and other innovations are why Epson is a leader in its field. It's all a matter of taking the initiative. Satisfying Needs Whenever there's a need, Epson is there with just the right solution. The TM Series lineup offers models to print everything from receipts, sales slips and journals to tickets, checks and invoices. And for retail and hospitality businesses, the MR / SR / IR Series features an easy-to-use touch panel.

Over 30 Years Of Satisfaction For over a quarter of a century Epson has been the world's top manufacturer of printers. During this time, we have produced an incredible 270 million of our famous mini printers. At retail outlets, in hotels, hospitals, car rental centers, banks - wherever you look, you'll find an Epson printer contributing to improved productivity and efficiency. Contents POS Terminal EPSON Roots Epson's first major product was a digital watch featuring micro-mechatronics and electronic technology. This was followed by a printing timer used as the official timekeeper at the 1964 Olympics. Four years later there came the EP-101, the world's first electronic calculator mini printer. This ultra-compact printer was a huge hit worldwide and heralded the start of Epson's multi-faceted business expansion, giving rise to many other products or "sons." Actually, the name EPSON is a combination of the EP from the EP-101 and SON. EPSON. A name associated with cutting-edge, high quality products around the world.

4 MRSeries POS Terminal 6 SRSeries POS Terminal 8 IRSeries Printers 10 TMSeries Customer Displays 34 DM-DSeries 3 POS Terminal IR-700 Series Customizable and Stylish POS Terminal The All-in-one Solution The IR-700 is the all-in-one POS terminal with compact design and improved performance that is the powerful successor to the IR-320. Continuing with the outstanding expandability and an integrated concept, the IR-700 offers even more flexibility through an increased number of peripherals and options that suit your requirements. Stylish and Compact Design The IR-700 boasts an attractive contemporary design that complements any store environment. Its small footprint makes the IR-700 fit snugly on your counter, freeing up valuable counter space. Cable connections are also inset behind the system and maintain a neat appearance, saving even more space.

Furthermore, the IR-700 can be installed either horizontally or vertically to fit to store space. With its outstanding flexibility and compactness, the IR-700 makes your communication with the customer and your store operation much improved. User-friendly Touch Panel The IR-700's large display is easily readable thanks to the TFT screen, and you can choose between a 12.1" or 15.0" touch panel.

Its high performance touch panel is incredibly easy to use, helping to reduce inputting errors while reducing training time and costs. Flexible Printing & Easy Operation You can choose either the standard thermal receipt printer or another printer to meet your needs. The thermal receipt printer offers high speed printing and convenient drop-in paper loading. If you attach the optional printer tray for TM-T90/L90, both receipt and label printing are available in one printer. There's also an optional dummy printer cover, which lets you use other Epson TM series printers. Dummy printer cover Printer tray for TM-T90/L90 4 Multiple Interfaces For Exceptional Expandability TM P/S AC INLET HDD Serial I/F Parallel I/F Mouse Keyboard Serial I/F CRT PCI PCI LAN Audio Sound USB I/F Customer Display USB I/F Volume Various and Flexible Options A wide range of options are selectable for customizing your system. These include an MSR unit, a 28-key or 60-key keyboard unit, and a selection of customer displays. These options allow you to upgrade your system easily and to customize it freely to meet your needs. MSR Unit 28-Key Keyboard Unit with MSR Unit 60-Key Keyboard Unit Customer Display Easy Maintenance SPECIFICATIONS CPU Memory Storage Slots I/O It is very easy to replace or access devices such as the motherboard, HDD, LCD, and printer. So you can reduce the downtime at the store and save maintenance costs.

Pentium M 1.8 GHz / Celeron M 1.3 GHz 184-pin DDR SDRAM DIMM slots x 2 (1 GB max.) HDD: Can be equipped with 3.5-inch x 2, CompactFlash card slot x 1 PCI x 2 Serial (External x 4) w/5 V & 12 V power for external by jumper switches Parallel x 1 (EPP/ECP supported) USB x 4 Ethernet x 1 (10 BASE-T / 100 BASE-TX), wake on LAN support PS/2 x 2 (for Keyboard and Mouse) CRT x 1 Customer display x 1 24 V Drawer port x 1 Sound: output to the built-in speaker, External line input / output, microphone input Built-in on chipset (capable of dual display) for built-in (TM-T88IIIX) / external printer & powered USB board (24V) Software switch on front / accidental power off protection ACPI 1.



[You're reading an excerpt. Click here to read official EPSON TM-L90 user guide](http://yourpdfguides.com/dref/2458902)
<http://yourpdfguides.com/dref/2458902>

0b, APM 1.2, Plug and Play, DMI Windows 2000 Professional SP4 or later, Windows XP Professional SP2 or later 250 (W) x 340 (D) x 254 (H) mm (with rear cover) TM-T88III (80 mm paper roll) Printer tray for TM-T90 / L90 Dummy printer cover 15.0" TFT color (1,024 x 768), Resistive touch panel (355 (W) x 280 (H) mm) 12.1" TFT color (800 x 600), Resistive touch panel (314 (W) x 254 (H) mm) VFD (20 x 2-line display or 256 x 64 dots graphic display), w/Clamp pole, w/Extended Pole (125 mm) ISO 1, 2 & 3 track, Fixed to LCD or Keyboard unit 60-key unit, programmable, 28-key unit, programmable Vertical Stand, Powered USB Board VCCI class A, FCC class A, CE marking, AS / NZS CISPR22 class A UL / CSA / EN Video Others BIOS OS Supported Size Printer Units Power connector Power switch Base unit Thermal Printer Printer Tray Printer Cover LCD With Touch Panel Options Customer Display MSR Unit POS Keyboard Unit Others EMC Standards Safety Standards 5 POS Terminal SR-610 Series Compact POS Terminal for retail and hospitality Quality and Performance at a Touch The SR-610 is a compact POS terminal with a low profile and improved performance that is the powerful successor to the SR-600. Continuing with the outstanding expandability, the SR-610 offers a wide range of value-added solutions to businesses in retail and hospitality environments.

Compact and durable design With its small footprint and low profile design, available in either Epson Dark Gray or Epson Cool White, the SR-610 complements any retail or hospitality environment. Its small footprint makes the SR-610 fit snugly on your counter, freeing up valuable counter space. Furthermore, the SR-610 is ideal for restaurants and bars thanks to the durable design that withstands accidental spills of water. With its outstanding flexibility and compactness, the SR-610 makes your communication with the customer and your store operation much improved. Powerful Selectable configuration The SR-610's powerful M processor lets you take advantage of the latest applications and functions, and it offers a smooth operation without any frustrations.

To increase processing capabilities even further, you can add up to 1GB of DIMM. Celeron User-friendly touch panel The SR-610's large 12.1" display is easily readable thanks to the TFT screen. Its high performance touch panel is incredibly easy to use, helping to reduce inputting errors, while reducing training time and costs. A wide range of options are selectable for customizing your system.

These include an MSR unit, a customer display, a 60-key keyboard unit, and a CompactFlash card slot. These options allow you to upgrade your system easily and to customize it freely to meet your needs. 6 Not only functional, the sleek lines and refined good looks of the SR-610 Series are sure to enhance the appearance of any shop counter. This modernistic design will blend perfectly with the decor of even the most up-market specialty store or the highest class of hotels. Restaurant System SR-610 is used as POS Terminal & Order Controller Headquarter ISDN / Modem PC Wireless Terminal Wireless LAN Board PCI slot SR-610 Ethernet Ethernet Card Serial Kitchen Printer Drink Server Scanner Receipt Printer Drawer Expandability There's a wide range of interfaces including serial, parallel, USB and Ethernet, giving you maximum flexibility in your choice of hardware, software and peripherals to expand your system as desired. All you have to do is connect your new system to your network and it's ready to go. Easy Maintenance We have designed the product taking into consideration ease of access to devices such as the HDD and the motherboard. In fact, you can replace the HDD easily from the front side. With this design, you can reduce downtime at the store, which saves maintenance time and cost. SPECIFICATIONS CPU Memory I / O Ports Celeron M 1.

3 GHz 184-pin DDR SDRAM DIMM slots x 2 (1GB max.) Ethernet x 1 (10 Base-T / 100 Base-TX) Serial x 3 (9-pin D-sub male), +5 V to pin 1 of COM1 or COM2 Parallel x 1 (D-sub 25-pin female) USB x 4 PS/2 K/B & Mouse ports (front x 1, bottom x 1) *1 CRT x 1 (D-sub 15-pin female) Parallel x 1 Customer display x 1 Cash drawer x 1 1 or 2 HDD (2.5" SATA interface) PCI x 1 ISO Track 1, 2, 3 (Option) Base unit 310 (W) x 363 (D) x 277 (H)mm (at highest angle) (including rubber feet, excluding LCD clamp) Approx. 8.7 kg (including CPU, HDD, DIMM, TFT LCD UNIT) 5 to 35C Operating -10 to 50C Storage Operating 30 to 80 % RH (no condensport Audio output MS-DOS 6.2, Windows 98, Windows 2000, Windows XP, Windows NT ACPI 2.0b, APM 1.2, PnP 1.0a, SMBIOS 2.0 CD-ROM drive, CD-R / RW drive 315 (W) x 365 (D) (280 without rear cover) x 88 (H) mm VCCI class A, FCC class A, CE marking, AS / NZS 3548 (CISPR22) class A UL / CSA / EN Video Speaker OS Supported BIOS Option Unit Size EMC Standards Safety Standards Optional drive 2. Monitor LCD Size, Type Color Brightness Lamp Life Video Input 12.1" TFT 800 x 600 dots 262144 colors 350 cd / m2 (w/TP:275 cd / m2) *High Brightness model 50,000 hrs min. *High Brightness model Analog RGB DC 12V (From BASE Unit) 320(W) x 340(H) x 200(D) mm ISO 7811, track 1, 2, 3 Resistive film (Finger print resistance type) *High Brightness model Connections Power Dimension Option MSR unit Touch panel 9 TMSolution For Multiple Printing Needs Series Fast Inkjet printers Hybrid printers Thermal line printers Impact dot matrix printers Slip printers V ariety Technology Lineup ASB Automatic Status Back Function Easy Paper Roll Setting Auto Feed Paper Loading Autocutter Two-color Printing Full-color Printing Pigment ink MICR Impact, thermal, hybrid and inkjet printers for a wide range of applications. Station Lineup A huge range of models including 1 station, 1.5 station, 2, 5 station, Slip, and Label printers. Two Case Colors Asian Multi-Language Capability Epson dark gray available for hospitality businesses and stores aiming for interior color coordination. Extension memory enables use of multiple languages including Chinese and Thai. Maintenance Memory Display Port Multi Language Dark Gray Expandability Universal Interface Wide range of interfaces to meet customers' current needs while enabling future upgrades. Multiple interfaces riety Va urity Sec h Tec anced dab Adv pan Ex DM-D Connection Interface on the printer side provided for connection of a DM-D customer display without taking up valuable counter space.

Also leaves other interfaces free for additional applications. IR Connection You can easily combine a TM Series printer with an IR Series model for future system upgrades. Easy combination with a customer display 10 Ready To Meet All Y our Needs When Epson designs a printer, it takes everything into consideration, not just whether you want receipt, journal, ticket or other output.



[You're reading an excerpt. Click here to read official EPSON TM-L90 user guide](http://yourpdfguides.com/dref/2458902)
<http://yourpdfguides.com/dref/2458902>

This means there's an Epson printer ready to deliver all the functions and features you need while meeting your connection and security requirements. Take a look at what Epson has to offer. Security Maintenance Memory Cable Management Number of lines printed and number of cutter operations performed are stored in memory to help decide when maintenance is required. Eliminates untidy cables while assuring firm connection. Switch Cover Security Plug Prevents accidental switch operation. Prevents accidental unplugging. (PS-180) Locked Unlocked Advanced Technology Industry-Leading Innovation ology n ility Features Good for Epson doesn't just focus on hardware development.

OLE POS application software simplifies POS application development in Windows through the use of modules and objects. It also enables control of POS devices regardless of the kind of hardware. JavaPOSTM does the same for application development in a JavaTM environment. There's also ESC/POS, Epson's proprietary control system enabling versatile POS system construction with high scalability. Other examples of Epson's cutting-edge technology include customer displays ready to support USB and Ethernet interfaces. USB Interface Ethernet Interface Technology at a glance Impact Thermal Hybrid Inkjet Extremely durable Low maintenance requirements Epson models feature 9-pin technology for superior quality Speed and clarity Reliability Low consumables cost (ribbons, plain paper) Capabilities such as check endorsement, validation etc. Fast and quiet Direct printing to paper eliminates need for ribbon Easy paper loading Virtually silent printing High-resolution graphics High-speed output Printing labels and tickets Barcode printing Combine thermal and impact printing capabilities Fast and silent Ideal printers for PC output Plain paper printing capability 2-color / Full-color printing Speed and print clarity High-resolution graphics High-speed printing Barcode printing capability Highlight printing (company logos etc.) Quiet, high-speed operation High-resolution graphics Multi-part printing Enable check endorsement, validation etc. Recommended Epson printers TM-U220 Series TM-U325 TM-U675 TM-U950 TM-U230 TM-U590 TM-U295 TM-T90 TM-L90 TM-L60II TM-T88IV TM-P60 TM-H5000II TM-H6000III TM-J2000/J2100 TM-J7000/J7100 TM-J7500/J7600 TM-J9000/J9100 TM-C100 11 Inkjet Printers TM Series Using its original SEAJet technology, Epson brings you an impressive range of inkjet printers for POS applications. Printers in the range provide a number of outstanding features such as graphic and 2-color / Full-color printing, and low cost of ownership.

TM-J9000/J9100 Inkjet Inkjet Printer with Check Scanner and Card Scanner New Banking Printer from Epson Now banks can take advantage of all the benefits of check imaging capture with Epson's family of inkjet printers featuring a card image scanner function and digital check imaging. In addition, these multifunction inkjet printers offer speedy high-resolution one- and twocolor receipt printing, drop-in validation and more. Print method Print font Font Column capacity (columns) Character size (mm) Character set Characters per inch Interfaces Data buffer Print speed Paper Ink Cartridge Dimensions (mm) Thickness (mm) Epson Ecology Product This product is an Epson Ecology Product. The product is miniaturized by unifying many functions. This product has achieved the level equal to the TM-J7000: Stand-by mode, 4.

9 W (with PS-180). Ink life (characters) Power Power consumption Reliability MTBF MCBF Image Scanner Specifications Scanner type Resolution Gradation Data compression method Data transmission format Scanning area Scanning speed Check scanner operation Paper Type Size Thickness Curvature Card Contact image sensor (CIS) 203 dpi 256-level gray scale Bi-tonal (black/white), 256-level gray scale JPEG Bi-tonal: CCITT/group4, JPEG RAW / Bi-tonal: TIFF / 256-level gray scale: JPEG, TIFF, BMP 60 mm (H) x 100 mm (L) 100 mm (H) x Max. 254 mm (L) 120 mm / sec. 300 mm / sec. 30 Document Per Min.

(without endorsement printer) ISO/IEC7810 compliant (except for embossed material) Normal quality paper 68 to 100 mm (H) x 152 to 230 mm (L) (min. 68 x 152 mm) 53.92 to 54.18 mm (H) x 85.47 to 85.90 mm (L) 0.09 to 0.13 mm (single-ply) 0.5 to 0.84 mm 2 mm or less (ISO/IEC7810) Check Life Overall dimensions (mm) Mass (Approx).

) EMC standards Power supply (option) Factory Options Safety standards Serial inkjet dot matrix (180 dpi x 180 dpi) 12 x 24 / 9 x 17 Receipt: 40 / 53, Validation: 62 / 82 1.69 (W) x 3.38 (H) / 1.27 (W) x 2.40 (H) 95 Alphanumeric, 48 International, 128 x 11 Graphic, Bar code: UPC-A, UPC-E, JAN13 (EAN13), JAN8 (EAN8), CODE39, CODE93, CODE128, ITF, CODABAR (NW7) 15 cpi / 20 cpi USB 2.0, Dealer option: RS-232, Bi-directional parallel, Ethernet 4 KB Character: 14.3 lps (8 lines/inch), Graphic: 43 mm / sec. (Receipt: High speed mode, paper width 76 mm, full columns print) Receipt: 76, Validation: 68 to 100 x 152 to 230 (H x W) Receipt: 0.06 to 0.09, Validation: 0.

09 to 0.13 Single color: SJIC8 (K) : Black (for J9000 only) Two color: SJIC6 (K) : Black, SJIC7 (R) : Red, SJIC7 (B) : Blue, SJIC7 (G) : Green (for J9100) Single color: Approx. 20,000,000 Two color: Approx. 15,000,000 (2 colors combined) 24 VDC 10% Operating: Approx. 1.

0A, Stand-by: Approx. 0.2A 180,000 hours 2,960,000 transactions (This is an average failure interval based on failures relating to wearout and random failures up to the life of 1,000,000 transactions) 1,000,000 sheets (including those for reading check paper and card) 466(389) (W) x 232 (D) x 180 (H) (with ASF) 310(236) (W) x 232 (D) x 180 (H) (without ASF) 5.2 kg (with ASF) / 4.9 kg (without ASF) VCCI class A, FCC class A, CE marking, AS/NZS CISPR22 class A PS-180 (option) Auto Sheet Feeder (ASF) with Double Feed Detection Function and Pocket UL / CSA / EN ASB SEAJet Technology SEAJet is a newly developed original Epson inkjet technology aimed at small printers for POS and other commercial uses.

This technology allows the development of compact print heads, energy efficient print heads, and gives POS printers high-resolution printing capability. SEAJet Acting Principle Initial state Nozzle Cavity Voltage applied Vibration Plate Voltage reduced to zero Ink Drop ITO Electrode 12 TM-J7000 Series Print method Print font Inkjet Inkjet Receipt and Slip Printer Font Column capacity (columns) Character size (mm) Character set Characters per inch Interfaces Data buffer Print speed Paper Dimensions (mm) TM-J7000/J7100 TM-J7500/J7600 Ink Cartridge Thickness (mm) High Quality Inkjet Printing Thanks to Epson's world-renowned inkjet printing technology, its TM-J7000 series printers for POS systems provide users with superb inkjet printing quality on receipts and slips. These printers are capable of printing logos and graphics, and the TM-J7100/J7600 adds a new dimension with attractive 2-color output.



[You're reading an excerpt. Click here to read official EPSON TM-L90 user guide](http://yourpdfguides.com/dref/2458902)

<http://yourpdfguides.com/dref/2458902>

Ink life (characters) Power Power consumption High Performance D.K.D.function Reliability Overall dimensions (mm) Mass (Approx.) EMC standards Power supply Factory options Safety standards Despite its small footprint and compact size, the TM-J7000/J7100 boasts exceptional performance. Thanks to Epson's original technology, endorsement on the reverse side of personal checks is possible in a single pass, cutting the time taken for this operation to a mere 12 seconds, a fraction the speed of conventional printers. Serial inkjet dot matrix (180 dpi x 180 dpi) 12 x 24 / 9 x 17 Receipt: 82.

5 mm: 42 / 56 76 mm: 40 / 53 69.5 mm: 36 / 48 57.5 mm: 30 / 40 Slip: 48 / 64 Endorsement: 46 / 61 (for J7000 /J7100) Slip: 80/106 (for J7500 /J7600) 1.69 (W) x 3.38 (H) / 1.27 (W) x 2.40 (H) 95 Alphanumeric, 37 International, 128 x 11 Graphic, Bar code: UPC-A, UPC-E, JAN13(EAN), JAN8(EAN), CODE39, CODE93, CODE128, ITF, CODABAR(NW7), Two-dimensional code: PDF417 15 cpi / 20 cpi RS-232, Bi-directional parallel, Dealer option: RS-485, USB, 10 Base-T I/F 4 KB Graphic: 43 mm / sec. Character: 14.3 lps (Paper width 76 mm, Economy, High speed mode) Receipt: 57.5 0.5, 69.5 0.5, 76 0.5, 82.5 0.

5 Slip: 68 to 230 (W) x 68 to 297 (L) (min. 68 x 152) Endorsement: 68 to 101.6 (W) x 150 to 223 (L) (for J7000 /J7100) Receipt: 0.06 to 0.09 Slip: 0.09 to 0.2 Endorsement: 0.09 to 0.13 (for J7000 /J7100) Single color: SJIC8 (K) : Black (for J7000 / J7500 only) Two color: SJIC6 (K) : Black, SJIC7 (R) : Red, SJIC7 (B): Blue, SJIC7 (G): Green (for J7100 / J7600) Single color: Approx. 20,000,000 Two color: Approx. 15,000,000 (2 colors combined) 24 VDC 10% Operating: Approx. 0.5 A Stand-by: Approx. 70 mA (for J7000 /J7100) Stand-by: Approx. 80 mA (for J7500 /J7600) 2 drivers MTBF: 180,000 hours MCBF: 50,000,000 lines 195 (W) x 237 (D) x 188 (H) (for J7000 /J7100) 251 (W) x 237 (D) x 188 (H) (for J7500 /J7600) 4.

4 kg (for J7000 /J7100), 4.9kg (for J7500 /J7600) VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B PS-180 (option) MICR device, Endorsement Printing (for J7000 /J7100) UL / CSA / EN ASB TM-J2000/J2100 High Performance in a Compact Body Inkjet Inkjet Receipt Printer Print method Print font Font Column capacity (columns) Character size (mm) Character set Serial inkjet dot matrix (180 dpi x 180 dpi) 12 x 24 / 9 x 17 82.5 mm: 42 / 56, 76 mm: 40 / 53, 70 mm: 36 / 48, 58 mm: 30 / 40 1.69 (W) x 3.38 (H) / 1.27 (W) x 2.4 (H) ASCII, WPC1252, PC437, PC850, PC852, PC858, PC860, PC863, PC865, PC866, Custom Graphic Bar code: UPC-A, UPC-E, JAN8 (EAN), JAN13 (EAN), 2 of 5 (ITF), CODE 39, CODE 93, CODE 128, CODABAR (NW7) 15 cpi / 20 cpi RS-232, Bi-directional parallel, Dealer option: RS-485, USB, 10 Base-T I/F 4 KB or 512 bytes Character: 14.7 lps (8 lines / inch) Graphic: 43 mm / sec. (76 mm width paper, Full columns print) 57.5 0.5, 69.5 0.5, 76 0.5, 82.5 0.

5 0.06 to 0.11 Single color: SJIC5 (K): Black (for J2000 only) Two color: SJIC3 (K): Black, SJIC4 (R): Red, SJIC4 (B): Blue, SJIC4 (G): Green (for J2100) Single color: Approx. 24,000,000 Two color: Approx. 17,000,000 (2 colors combined) 24 VDC 10% Operating: Approx. 1A, Stand-by: Approx. 65mA 2 drivers MTBF: 180,000 hours, MCBF: 50,000,000 lines 195 (W) x 250 (D) (275 D with overhanging ledge) x 195 (H) 4.7 kg VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B PS-180 (option) UL / CSA / EN Characters per inch Interfaces Data buffer Print speed Although compact with a small, space-saving format, the Epson TM-J2000/J2100 delivers outstanding performance and attractive receipts. Customers will be impressed by the eye-catching 2-color output of the TM-J2100. Paper Ink Cartridge Dimensions (mm) Thickness (mm) Ink life (characters) Power Power consumption D.K.D.function Reliability Overall dimensions (mm) Mass (Approx.) EMC standards Power supply Safety standards Easy to Use The Epson TM-J2000/J2100 feature a full-frontal drop-in paper loading system that makes it easy to replace paper and cartridges. ASB 13 TM-C100 Full-Color Inkjet Printer for Business Use Inkjet Full-Color Inkjet Printer The TM-C100 is a high performance inkjet printer for on demand full-color printing specially designed for business use.

With its outstanding performance, your communication with the customer and your store operation will be dramatically improved. High Durability ASF Model Its high durability is suitable for use in hectic business environments. (Autocutter: approx. 200,000 cuts, ASF: approx. 200,000 sheets) Compact and Space Saving Roll Paper Model The compact design with a small footprint means the printer fits snugly on your counter with a width of only 210 mm (8.27 in), freeing up valuable counter space. High-Performance Full-Color Printing Offers high-performance full-color printing using 4color pigment ink (CMYK in a 4-color combined ink cartridge). Its superior waterproof and lightfast performance meets business application needs. Various Papers Usable The versatile TM-C100 suits a wide range of printing needs and applications. As various paper media (normal paper, exclusive paper [fine/mat], normal continuous label paper) and media sizes are selectable, you can use the printer for a broad range of applications, such as tickets, color coupons, price tags, on demand POP, recipes, medical instructions, member's cards, business cards, and message cards.

Moreover, you can select the model that uses roll paper with an autocutter or the model that uses cut sheets with an Auto Sheet Feeder (ASF) to meet your needs. Roll Paper model Print method Print font Bar code Auto Sheet Feeder model Interfaces Print speed Paper Four-color Single-color Type Dimensions (mm) Thickness (mm) Ink cartridge Ink life Four-color Single-color Four-color Single-color Power Power consumption Reliability MTBF MCBF Overall dimensions (mm) Mass (Approx.) EMC standards Power supply Safety Standards Operating System Serial inkjet dot matrix (Max. 360 dpi x 360 dpi) Not equipped with print font and print all data as the graphic data This printer does not have a bar code/two-dimensional symbol encoding function; however, a bar code/two-dimensional symbol that can be read with a bar code/two-dimensional symbol reader can be created by printing bar code/two-dimensional symbol data (graphic data) provided by users. UPC-A, UPC-E, JAN8 (EAN), JAN13 (EAN), CODE39, CODE93, CODE128, ITF, CODABAR(NW7) Two-dimensional code: PDF417 USB Max.

35 mm / sec. (printing width: 60 mm, 180 dpi x 180 dpi, bi-directional printing) Max. 51 mm / sec. (printing width: 60 mm, 180 dpi x 180 dpi, bi-directional printing) Normal paper, exclusive paper (fine/mat), Normal paper, exclusive paper (fine/mat) Normal continuous label paper Roll paper: 45 to 105 (W) x dia. 90.

0 ASF: 55 to 135 (W) x 85 to 210 (L) insertion by hand: 49 to 210 (W) x 120 to 297 (L) ASF: 0.08 to 0.25 Roll paper: 0.06 to 0.23 insertion by hand: 0.08 to 0.25 SJIC9P (4-color combined, pigment ink) SJIC10P(K) (Black, pigment ink) 660 pages (printable area 100 x 280 mm, with each of the colors covering 8.



[You're reading an excerpt. Click here to read official EPSON TM-L90 user guide](http://yourpdfguides.com/dref/2458902)
<http://yourpdfguides.com/dref/2458902>

5% of the area, high speed mode printing) 2,500 pages (printable area 100 x 150 mm, with each of the colors covering 6.0% of the area, high speed mode printing) AC adapter (included) Operating : Approx. 11W (mean) 180,000 hours 30,000,000 passes 210 (W) x 345 (D) x 152 (H) 210 (W) x 367 (D) x 245 (H) 2.

0 kg 1.9 kg VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B Exclusive AC adapter (included) UL / CSA / EN Microsoft Windows 2000 Professional SP4 or later Microsoft Windows XP Professional SP1 or later 14 Thermal Line Printers TM Series Extremely fast, quiet output and exceptionally clear characters are just some of the advantages of thermal printers. There's no need to change the ribbon because printing is performed directly onto the paper. Paper loading is easy due to a simplified paper path. And label and ticket printing are possible including barcode capability. TM-P60 Thermal Line High-Speed Mobile Wireless Printer Long Battery Life The TM-P60 offers an industry-leading battery life of up to 10 hours with IEEE 802.11b models and up to 20 hours with Bluetooth models* long enough for a full shift of on-the-go receipt and order printing. It will surely increase the operational efficiency that decreases operational cost. *The battery life differs depending on the system environment. High Durability The TM-P60 is built to survive drops from 1.2m (3.9 ft.). Make Use of Proprietary Applications The TM-P60 comes with widely used ESC/POS command codes, and APD/OPOS/JavaPOSTM drivers are available, which means current applications written for Epson's popular TM-T88 series can instantly be used with the TM-P60 with minimum modification.

Supports IEEE 802.

11b and Bluetooth Interfaces The TM-P60 Mobile wireless printer The TM-P60 can go anywhere you need it to go. Built with Epson's famous quality and reliability, the TM-P60 is designed to meet the needs of both retail and hospitality for high-speed, on-the-go thermal receipt printing. High Speed Printing and Autocutter Equipped You can keep a printing application using the Epson APD/OPOS/JavaPOSTM drivers on your store server and develop a printing application that does not depend on the OS of the PDA. And the PDA doesn't need to have both IEEE 802.11b and Bluetooth interfaces, so there is a reduction of power consumption and the cost needed to install a PDA.

Available for a Wide Range of Printing Offers clear, high-speed thermal printing up to 70 mm/sec. printing speed and equipped with an autocutter (receipt model). It makes operation more efficient and it will lead to an increase in customer satisfaction because the customers don't have to wait for printing. Label peeler model available The TM-P60 is also available with an automatic label peeler function. It peels labels off of liner (backing paper) automatically and it's so easy to operate the peeler function. *Please ask your Epson representative about specifications. The TM-P60 is designed to meet a wide range of printing needs, such as payment POS at restaurant tables, line busting POS in busy periods at department stores and fast food restaurants, and mobile POS for quick service at such locations as stadiums and amusement places. Labels can be printed and attached on site for many uses, such as shelf labels, discount labels, and price tags at retail stores. Print method Print font Font Column capacity (columns) Character size (mm) Character set Thermal line printing 12 x 24 / 10 x 24 / 8 x 16 35 / 42 / 52 (58 mm), 36 / 43 / 54 (60 mm) 1.50 (W) x 3.

0 (H) / 1.25 (W) x 3.0 (H) / 1.0 (W) x 2.0 (H) 95 Alphanumeric, 48 International, 128 x 10 Graphic Bar code: UPC-A, UPC-E, JAN8 (EAN), JAN13 (EAN), CODE39, CODE93, CODE128, ITF, CODABAR 16 / 20 / 25 cpi IEEE 802.11b or Bluetooth, RS-232 128 bytes Max. 70 mm / sec. 57.5 0.5 (W) x dia. 51.0 (max.) (59.5 0.5 (W) by removing the spacer installed) 0.

05 to 0.08 0 to 50C IEEE 802.11b: 10 hours, Bluetooth: 20 hours (It differs depending on the system environment. For detail, please contact your Epson representative.) 120,000 hours 16,000,000 lines 500,000 cuts 103 (W) x 159 (D) x 65 (H) 0.

67 kg (including battery) VCCI class B, FCC class B, CE marking PS-10 Li-ion battery pack LIP-2500 x 1, Roll paper dia. 40 mm x1 Quick charger: OT-CH60, RS-232 cable: OT-RS60 Spare battery: LIP-2500, Shoulder strap: OT-ST60 UL / CSA / EN Characters per inch Interfaces Data buffer Print speed Paper Dimensions (mm) Easy Operation Thickness (mm) Operating temperature Battery capacity With one-hand paper and battery replacement, the TM-P60 is so easy to use that it requires almost no training. It will decrease not only the risk of breakdown but also the cost of educating operators. MTBF MCBF Autocutter life Overall dimensions (mm) Mass (Approx.) EMC standards Power supply Accessories Options Safety Standards Reliability *Specs for receipt model ASB 15 TM-T88 NEW Thermal Line High-Speed, High-Performance Thermal Printer Fast and versatile printing Print method Print font Font Column capacity (columns) Character size (mm) Character set Thermal line printing 9 x 17 / 12 x 24 56 / 42 0.99 (W) x 2.4 (H) / 1.41 (W) x 3.39 (H) 95 Alphanumeric, 37 International, 128 x 11 Graphic Traditional / Simplified Chinese, Korean Bar code: UPC-A, UPC-E, JAN8 (EAN), JAN13 (EAN), CODE39, CODE93, CODE128, ITF, CODABAR Two-dimensional code: PDF417, QRCode Characters per inch 20.0 cpi / 15.

0 cpi RS-232, Bi-directional parallel Dealer option: RS-485, USB, 10 Base-T I/F 4 KB or 45 bytes Max. 200 mm / sec. Dimensions (mm) Thickness (mm) Roll paper: 79.5 0.5 (W) x dia. 83.0 0.06 to 0.07 24 VDC 7% Approx. 1.

8 A (mean) 2 drivers MTBF: 360,000 hours MCBF: 52,000,000 lines 145 (W) x 195 (D) x 148 (H) 1.8 kg FCC, VCCI class A CE marking, AS / NZS CISPR22 class B PS-180 (option) Wall-hanging bracket WH-10 UL / CSA / EN The TM-T88IV prints receipt at speeds of up to 200 mm per second for both text and graphics - 30% faster than the TM-T88III. With advanced graphic and two dimensional code (PDF417 and QR code) printing capability, this printer provides highly customized receipts including logos and promotional messages. Its flexible page mode gives you a choice of receipt layouts. High reliability Interfaces Data buffer Print speed Paper Power Power consumption D.

K.D.function Reliability Overall dimensions (mm) Mass (Approx.) EMC standards Power supply Option Safety standards With an MCBF of 52 million lines of receipt printing, the TM-T88IV delivers outstanding reliability that is rugged enough for the highvolume environments. Compact design The TM-T88IV has a small footprint that allows for flexible placement on your counter or wall using an optional wall-hanging bracket, freeing up valuable counter space. Furthermore, the TMT88IV offers an improved paper cover design for increased spill resistance. @ @ @ @ @ 150 mm / sec. Rollpaper: Max. 79.5 0.5 x dia. 90.0 0.06 ~ 0.15 24 VDC 7% Approx.

@ @ @ @ *Max. 2-color printing speed is 90 mm/sec.



[You're reading an excerpt. Click here to read official EPSON TM-L90 user guide](#)

<http://yourpdfguides.com/dref/2458902>

@@@ @170 mm / sec. Rollpaper: Max. 79.5 0.5 x dia. 102.0 0.06 ~ 0.
08 24 VDC 7% Approx. @ @ @200 mm sec. Slip: Approx. 5.7 lps (at 40 columns, 17,
8 cpi) E / P: Approx. 1.9 lps Receipt: Thermal roll paper 79.5 0.5 (W) x dia.

@ @1.8 A Slip: Approx. @ @ @ @ @120 mm / sec. @ @100 mm, Length: Max. 230 mm Max. 2 mm from check bottom edge Max. 5 mm from check right edge Max. @ @ @ @ @ @ @ @ @ (38 lps, 1 / 8" conversion), Slip: 311 / 233 cps Receipt: Thermal roll paper 79.5 0.5 (W) x dia.

83.0, Slip: 70 (W) x 70 (L) to 210 (W) x 297 (L) Receipt: 0.06 to 0.07, Slip: 0.09 to 0.2, (total thickness: ~ 0.36) Slip: One original and four copies ERC-31 (Black) 4,500,000 characters 24 VDC 10% Receipt: Approx. 1.7 A, Slip: Approx. 1.

9 A 2 drivers MTBF: Receipt: 360,000 hours, Slip: 180,000 hours MCBF: Receipt: 52,000,000 lines, Slip: 29,000,000 lines 252 (W) x 331 (D) x 201 (H), (excluding extended table) 6.5 kg VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B PS-180 (option) MICR device UL / CSA / EN Thermal And Dot Output Wide Slip Printing This provides application versatility with thermal and dot matrix output. It also includes a speedy 120-mm/sec. receipt printing, and ladder and fence barcode printing. Packed with exciting features, the TM-H5000II prints slips up to a width of 88 columns, with one original and four copies.

ASB Safety standards 19 Impact Dot Matrix Printers TM Series Widely used for receipt printing, dot matrix printers are the only choice when the demand is for multi-part output. Other dot matrix printer benefits include exceptional durability that keeps maintenance costs low and economical operation. And the printing ribbon needs to be changed only occasionally. With Epson dot matrix printers, you also get high quality results thanks to the 9-pin heads. TM-U220 Series The TM-U220 The New Industry-wide Standard in Printing 9-pin, serial dot High Cost-Performance Printers The TM-U220 is the easy to use yet powerful successor to the TM-U210, whose ease-of-use and reliability have made it an overwhelming favorite around the world.

Outstanding Compatibility The TM-U220 printers are designed to be compatible with existing systems built around a TM-U210. These systems can be upgraded simply by dropping in a TM-U220. Moreover, since the external dimensions are nearly identical, there is no need to change the installation environment. The transition to the new model is as smooth as can be. Easy Operation Type B Free busy operators from troublesome roll paper and ribbon cassette replacement. The TM-U220 makes these chores a snap. Simply pop the cover, drop in the paper or ribbon, shut the cover. You're back in business. Print method Print font Font Type A 9-pin, serial impact dot matrix 7x9/9x9 40 / 42 or 33 / 35 1.2 (W) x 3.

1 (H) / 1.6 (W) x 3.1 (H) 95 Alphanumeric, 48 International, 128 x 12 Graphic Traditional / Simplified Chinese, Thai, Japanese, Korean Characters per inch 17.8 / 16 cpi or 14.5 / 13.3 cpi RS-232, Bi-directional parallel, Dealer option: USB, 10 Base-T I/F Column capacity (columns) Character size (mm) Character set Interfaces Higher Printing Speed A full 30% faster than its predecessors, the TM-U220 printers provide high efficiency throughput. Retailers can hand receipts to customers faster. Restaurant kitchens can receive orders quickly. Superior Versatility Data buffer Print speed Paper Dimensions (mm) Thickness (mm) Copy capability Inked ribbon Ribbon life 4 KB or 40 bytes 4.7 lps (at 40 columns, 16 cpi), 6.

0 lps (at 30 columns, 16 cpi) Roll paper: 57.5 0.5, 69.5 0.5, 76.
0 0.5, (W) x dia. 83.0 0.06 to 0.

085 One original and one copy ERC-38 (Black, Black / Red) Black: 3,000,000 characters B / R: 1,500,000 characters (Black) / 750,000 characters (Red) The versatile TM-U220 suits a wide range of needs and applications. Each type is powerful, yet compact enough to fit in confined spaces. The wallmountable Type B and Type D free up valuable counter space in kitchens and other tight locations. Moreover, both Type B and Type D handle your choice of 58, 69, or 76 mm width roll paper. Power Power consumption D.K.D.function Reliability AC adapter (included) Approx. 31 W 2 drivers MTBF: 180,000 hours MCBF: 18,000,000 lines Overall dimensions (mm) Type A: 160 (W) x 286 (D) x 157.5 (H) Type B: 160 (W) x 248 (D) x 138.

5 (H) MODEL Item Standard device / unit Take up / Automatic cutter Applications Receipt & Journal Printer Kitchen Receipt / ticket Receipt Appearance Type D: 160 (W) x 248 (D) x 138.5 (H) Mass (Approx.) EMC standards Power supply Factory options Option Safety standards Type A: 2.7 kg, Type B: 2.5 kg, Type D: 2.3 kg VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B Exclusive AC adapter (included) Near-end sensor Wall-hanging bracket WH-10 UL / CSA / EN Type A Type B Type D ASB 20 TM-U230 Print method Print font 9-pin, serial dot Dirt-Resistant Kitchen Printer 9-pin, serial impact dot matrix Font Column capacity (columns) Character size (mm) Character set Characters per inch 7x9/9x9 40 / 42 or 33 / 35 1.2 (W) x 3.1 (H) / 1.6 (W) x 3.1 (H) 95 Alphanumeric, 37 International, 128 x 8 Graphic Traditional / Simplified Chinese, Korean 16 or 17.

8 cpi, 13.3 or 14.5 cpi RS-232, Bi-directional parallel, 10 Base-T I/F Dealer option: RS-485, USB 1 KB / 16 KB 3.5 lps (at 40 columns, 16 cpi) 6.4 lps (at 16 columns, 16 cpi) Dimensions (mm) Thickness (mm) Roll paper: 76.
0 0.5 (W) x dia. 83.0 0.06 to 0.

085 One original ERC-38 (Black, Black / Red) Black: 3,000,000 characters B / R: 1,500,000 characters (Black), 750,000 characters (Red) 24 ~ 34 VDC Approx. 43 W 2 drivers MTBF: 180,000 hours MCBF: 18,000,000 lines 166 (W) x 168 (D) x 259.5 (H) 2.8 kg VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B Power supply built-in model / Power supply separate model Wall-hanging bracket WH-10 UL / CSA / EN Water Resistant and Easy to Clean With a water-resistant case and a unique drain channel, the TM-U230 is a perfect addition to any busy kitchen. Its flat surface makes it easy to wipe clean, while a fine coating makes it possible to remove oils, sauces, and other kitchen stains. Interfaces Data buffer Print speed Paper Copy capability Inked ribbon Ribbon life Power Power consumption D.K.D.function Reliability Overall dimensions (mm) Mass (Approx.) EMC standards Power supply Options Safety standards Flexible and Versatile Install the TM-U230 wherever you want: vertically (paper exit at the front), horizontally (paper exit on top), or hanging on the wall (bracket optional).

And with Ethernet and USB available as options, you can be sure that the TM-U230 will fit into any kitchen network. Ethernet capability allows this unique kitchen printer to be connected to a large network or an Order Entry System. ASB TM-U950 Print font 9-pin, serial dot Versatile Printer For Large POS Systems Print method Font Column capacity (columns) Character size (mm) Character set Characters per inch Interfaces Data buffer Print speed Paper Dimensions (mm) Thickness (mm) Copy capability Inked ribbon Ribbon life 9-pin, serial impact dot matrix 7x9/9x9 Receipt (Journal): 40 / 30, Slip: 88 / 66 1.



[You're reading an excerpt. Click here to read official EPSON TM-L90 user guide](#)

<http://yourpdfguides.com/dref/2458902>

3 (W) x 3.1 (H) / 1.6 (W) x 3.1 (H) 95 Alphanumeric, 32 International, 128 x 9 Graphic 16.7 cpi / 12.5 cpi RS-232, Bi-directional parallel 2 KB or 32 bytes 311 / 233 cps Receipt (Journal): Roll paper: 69.5 0.
5 (W) x dia. 83.0 Slip: 70 (W) x 70 (L) to 210 (W) x 297 (L) Receipt (Journal): 0.06 to 0.09, Slip: 0.
09 to 0.36 One original and four copies (for slip) ERC-31 (Black) 4,500,000 characters 24 VDC 10% Approx. 1.8 A (mean) 2 drivers MTBF: 180,000 hours MCBF: 18,000,000 lines 251 (W) x 298 (D) x 194.5 (H) 5.
6 kg VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B PS-180 (option) MICR device UL / CSA / EN Outstanding Performance & Versatility Reliability & Convenience Power Power consumption D.K.D.function Reliability Overall dimensions (mm) Mass (Approx.) EMC standards Power supply Factory options Safety standards Prints everything from slips and receipts to journals. Ultra-fast output of up to 88 columns on A4-size paper with bi-directional, logic-seeking printing. The reliability is there. Plus a wide range of handy features including automatic paper cutting and easy paper loading and ribbon changing. ASB 21 TM-U675 Print font 9-pin, serial dot High-Performance, Multi-Purpose Printer Print method Font Column capacity (columns) Character size (mm) Character set Characters per inch Interfaces Data buffer Print speed Paper Dimensions (mm) 9-pin serial impact dot matrix 5x9/7x9 Receipt: 37 / 50, Slip / Validation: 45 / 60 1.56 (W) x 3.

1 (H) / 1.24 (W) x 3.1 (H) 95 Alphanumeric, 37 International, 128 x 12 Graphic Traditional / Simplified Chinese, Korean 13.3 cpi / 17.8 cpi RS-232, Bi-directional parallel, Dealer option: RS-485, USB, 10 Base-T I/F 4 KB or 45 bytes Approx. 5.14 lps (at 40 columns, 17.8 cpi) Roll paper: 82.5 / 76.0 0.
5 (W) x dia. 83.0 Slip: 68 to 230 (W) x 68 to 297 (L) (min. 68 x 152) Validation: 68 to 230 (W) x 68 to 230 (L) (min. 68 x 152) Thickness (mm) Roll paper: 0.06 to 0.085 / sheet Slip: 0.09 to 0.2 (total thickness: 0.09 to 0.
31) One original and two copies ERC-32 (Black) 4,000,000 characters 24 VDC 10% Approx. 1.8 A (mean) 2 drivers MTBF: 180,000 hours MCBF: 37,000,000 lines 186 (W) x 298 (D) x 195 (H) 5.8 kg VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B PS-180 (option) MICR device, Autocutter UL / CSA / EN Copy capability Inked ribbon Ribbon life Power Power consumption D.K.D.function Reliability Overall dimensions (mm) Mass (Approx.) EMI standards Power supply Factory options Safety standards Fast & Super Quiet Handy Features Throughput is fast thanks to bi-directional minimum distance printing. Quieter than other impact dot matrix printers of its class. ASB (Automatic Status Back) function automatically transmits changes in printer status.

Also offers the convenience of two-way paper loading. ASB TM-U325 Print font 9-pin, serial dot High-Performance 1.25 Station Printer Print method Font Column capacity (columns) Character size (mm) Character set Characters per inch Interfaces Data buffer Print speed Paper Dimensions (mm) 9-pin, serial impact dot matrix 7x9/9x9 40 / 42 or 33 / 35 (3 half dots / 2 half dots space) 1.2 (W) x 3.1 (H) / 1.6 (W) x 3.1 (H) 95 Alphanumeric / 32 International, 128 x 8 Graphic 16 or 17.8 cpi / 13.3 or 14.5 cpi RS-232, Bi-directional parallel, Dealer option: RS-485, USB, 10 Base-T I/F 4 KB or 45 bytes Approx.
3.5 lps (at 40 columns, 16 cpi) Approx. 6.4 lps (at 16 columns, 16 cpi) Receipt: 76.0 0.
5 (W) x dia. 83.0 Validation: 135 (W) x 70 (L) to 182 (W) x 182 (L) (Maximum print lines: 9 lines) Thickness (mm) Copy capability Inked ribbon Ribbon life Power Power consumption D.K.D.
function Reliability Overall dimensions (mm) Mass (Approx.) EMC standards Power supply Safety standards Receipt: 0.06 to 0.085 (total thickness: 0.2mm or less) Validation: 0.09 to 0.12 (total thickness 0.09 to 0.31) One original and two copies ERC-38 (Black) 3,000,000 characters AC adapter (included) Approx. 43 W 2 drivers MTBF: 180,000 hours MCBF: 49,000,000 lines 164 (W) x 240 (D) x 136 (H) 2.

3 kg FCC class A Exclusive AC adapter (included) UL / CSA / EN Versatile Printing Receipt printing and multi-line validation up to 9 lines from a compact, space-saving unit. Quiet, Fast Output Designed for environments where quiet operation is a must. Features logic-seeking control for fast 6.4 lps receipt and multi-line validation printing. ASB 22 Slip Printers TM Series Compact, easy-to-use and exceptionally reliable, Epson's slip printers have what it takes to satisfy POS, banking and other transaction needs. One valuable feature is the ability to print slips with multiple copies. TM-U590 Print method Print font Font 9-pin, serial dot Wide Slip Printer 9-pin, serial impact dot matrix 7x9/9x9 88 / 66 1.3 (W) x 3.1 (H) / 1.6 (W) x 3.
1 (H) 95 Alphanumeric, 32 International, 128 x 10 Graphic Traditional / Simplified Chinese Characters per inch 16.7 cpi / 12.5 cpi RS-232, Bi-directional parallel, Dealer option: RS-485, USB, 10 Base-T I/F 4 KB or 69 bytes 311 / 233 cps Dimensions (mm) Thickness (mm) 70 (W) x 70 (L) to 210 (W) x 297 (L) 0.09 to 0.2 (total thickness: ~ 0.

36) One original and four copies ERC-31 (Black) 4,500,000 characters 24 VDC 10% Approx. 1.9 A (mean) 2 drivers MTBF: 180,000 hours MCBF: 29,000,000 lines 252 (W) x 266 (D) x 185 (H) 5 kg VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B PS-180 (option) UL / CSA / EN Column capacity (columns) Character size (mm) Character set Interfaces Data buffer Print speed Paper Copy capability Inked ribbon Ribbon life Versatile Printing Power Power consumption D.K.D.
function Reliability Overall dimensions (mm) Mass (Approx.) EMC standards Designed to handle virtually any printing task including output of slips up to 88 columns wide. Can also provide four copies with one original. User-Friendly Complete with the ESC/POS command system for smooth, error-free operation. Printer operation status provided by the Automatic Status Back function. Power supply Safety standards ASB TM-U295 Print method Print font Font 7-pin, shuttle dot Ultra-Compact Slip Printers 7-pin, shuttle impact dot matrix 5x7/7x7 35 / 42 1.6 (W) x 2.9 (H) / 1.3 (W) x 2.9 (H) 95 Alphanumeric, 32 International, 128 x 4 Graphic Characters per inch 13.

5 cpi / 16.2 cpi RS-232, Bi-directional parallel 512 bytes or 35 bytes 1.9 ~ 2.3 lps Dimensions (mm) Thickness (mm) 80 (W) x 69 (L) to 182 (W) x 257 (L) 0.09 to 0.25 (total thickness with copy: ~ 0.35) One original and two copies ERC-27 (Black) 1,000,000 characters 24 VDC 10% Approx. 600 mA (mean) 2 drivers MTBF: 180,000 hours MCBF: 7,000,000 lines 180 (W) x 190.5 (D) x 101.5 (H) 1.
6 kg VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B PS-180 (option) UL / CSA / EN Column capacity (columns) Character size (mm) Character set Interfaces Data buffer Print speed Paper Copy capability Inked ribbon Ribbon life Power Power consumption D.K.D.function World's Smallest Slip Printer Reliability Overall dimensions (mm) Mass (Approx.



[You're reading an excerpt. Click here to read official EPSON TM-L90 user guide](http://yourpdfguides.com/dref/2458902)
<http://yourpdfguides.com/dref/2458902>

) EMC standards Power supply Combines printing versatility and ultra-compact, space-saving design.

Printing Versatility Safety standards Provides a choice of character sizes, and enables printing in four directions. ASB 23 Options POWER SUPPLY CUSTOMER DISPLAY PS-180 Input 100 to 240V AC Output 24 VDC, 2.0A Plug 3P power jack Safety standard UL CSA TV DM-D Series RIBBON CASSETTES ERC-38 for TM-U220, TM-U375, TM-U325, TM-U230 (Black, Black/Red) ERC-31 for TM-U950, TM-U590, TM-H5000II, (Black) ERC-27 for TM-U295 (Black) ERC-32 ERC-41 for TM-H6000III, for TM-H6000III TM-U675 (Endorsement Printer) (Black) (Black) *An Epson ribbon is recommended. INK CARTRIDGES SJIC3 for TM-J2100 (Black) SJIC4 for TM-J2100 (Red, Green, Blue) Used with SJIC3 SJIC5 for TM-J2000 (Black) SJIC6 for TM-J7100, TM-J7600, TM-J9100 (Black) SJIC10P(K) for TM-C100 (Black) SJIC7 for TM-J7100, TM-J7600, TM-J9100 (Red, Green, Blue) Used with SJIC6 SJIC8 for TM-J7000, TM-J7500, TM-J9000 (Black) SJIC9P for TM-C100 (Cyan, Magenta, Yellow, Black) ACCESSORIES DC-21 DC cable set (for TM series) WH-10 Wall-hanging bracket for TM-T90/L90, TM-T88IV, TM-U230, TM-U220 WT-5000 Extension table for TM-H5000II Expandability UB-S01/02 UB-P02II UB-U02III UB-U04 UB-E02 UB-R02 Multiple Interfaces TM Series printers feature a wide range of interfaces, including USB & Ethernet interfaces. Besides satisfying current customer needs, these enable easy upgrading in the future, an important consideration for growing businesses. Data transfer format Remarks UB-S01 RS-232 UB-S02 RS-485 UB-S09 RS-232 With DM-D connector UB-P02II IEEE1284 UB-U01III UB-U02III UB-U04 UB-E02 UB-R02 USB USB w / Power 10/100BASE-TX IEEE802.11b With hub & DM-D Connector With DM-D connector 24 VDC * For the other various options, please contact your Epson representative. 24 Drivers for Wide-Ranging Applications Unified POS Related Drivers Unified POS combines two existing device interface standards (OPOS and JavaPOSTM) in one specification of Point of Service Devices. Epson is a key player in these areas (Unified POS, OPOS and JavaPOSTM), and promotes the standardization of peripheral device control drivers for the retail market. At the same time, we also provide drivers to a wide range of customers to support POS applications development. Working from customer feedback, our future aims include offering still better functions. OPOS Architecture Epson OPOS ADK POS Application OPOS CO SO Windows OS Peripherals JavaPOSTM Architecture JavaPOS Application JavaPOSTM Device Control Device Service Java VM Comm API OS Peripherals Epson OPOS ADK, provides the versatility and convenience of applications development in Windows NT, Windows 2000, Windows XP and WEPOS environments. Besides dramatically reducing the number of application steps, Epson OPOS ADK makes system upgrading pretty easy. TM Epson JavaPOS ADK JavaTM is a platform-independent language widely used for POS and other applications. JavaPOSTM standard API makes peripheral devices easy to operate and supports quick system startup.

Epson JavaPOSTM ADK provides support in mainly Linux environments. Standard Specifications ~ OPOS APG 1.9 ~ JavaPOSTM PG 1.9 Migration To Non-POS Markets Epson offers the Advanced Printer Driver to meet the needs of non-retail markets. Epson Advanced Printer Driver Advanced Printer Driver: Windows Printer Driver + Status API 1. Status API allows use of Epson's original Printer Status function 2. Easy applications development in non-POS Windows environments 3. Enables use of unique TM Series printer functions for other environments (image printing, network connection, spooling processing, etc.) Application Status API Call Status API Printer Driver Windows or Linux ESC/POS TM Printer Windows GDI Epson Advanced Linux Printer Driver Epson is now developing a Linux Driver as an alternative operating system to Windows. Proprietary Command System Epson took the initiative by introducing ESC/POS, a proprietary POS printer command system including patented commands and enabling versatile POS system construction with high scalability.

Compatible with all types of Epson POS printers and displays, this proprietary control system also offers the flexibility to easily make future upgrades. Its popularity is worldwide. STRUCTURE BASIC Control codes EXTENSION Control codes SINGLE SHEET Control codes MULTIPLE SHEET Control codes MECHANICAL EXTENSIONS HARDWARE EXTENSIONS SOFTWARE EXTENSIONS ESC/POS is a registered trademark of Seiko Epson Corporation in the U. S. and other countries.

Epson is a member of the OPOS committee and JavaPOS initiative. 25 TM SERIES SPECIFICATIONS Inkjet Printer Item TM-J9000 / J9100 TM-J7000 Series Appearance Print method Font Column capacity (columns) Character size (mm) Serial Inkjet dot matrix (180 dpi x 180 dpi) 12 x 24 / 9 x 17 Receipt: 40 / 53, Validation: 62 / 82 1.69 (W) x 3.38 (H) / 1.27 (W) x 2. 40 (H) 95 Alphanumeric, 48 International, 128 x 11 Graphic, Bar code: UPC-A, UPC-E, JAN13 (EAN13), JAN8 (EAN8), CODE39, CODE93, CODE128, ITF, CODABAR (NW7) 15 cpi / 20 cpi USB 2.0, Dealer option: RS-232, Bi-directional parallel, Ethernet RS-232, Bi-directional parallel, RS-485, USB, 10 / 100 Base-T I/F 4 KB Character: 14.3 lps (8 lines/inch), Graphic: 43 mm / sec. (Receipt: High speed mode, paper width 76 mm, full columns print) Receipt: 76mm, Validation: 68 to 100 x 152 to 230 (H x W) Character: 14.3 lps, Graphic: 43 mm / sec. (Paper width 76 mm, Economy, High speed mode) Receipt: 57.5 0.5, 69.5 0.5, 76 0.

5, 82.5 0.5 Slip: 68 to 230 (W) x 68 to 297 (L) (min. 68 x 152) Endorsement: 68 to 101.6 (W) x 150 to 223 (L) (for J7000 / J7100) Receipt: 0.06 to 0.09, Slip: 0.09 to 0.2, Endorsement: 0.09 to 0.

13 (for J7000 / J7100) Single color: SJIC8 (K) : Black (for J7000 / J7500 / J9000 only) Two color: SJIC6 (K) : Black, SJIC7 (R) : Red, SJIC7 (B) : Blue, SJIC7 (G) : Green (for J7100 / J7600 / J9100) Single color: Approx. 20,000,000 Two color: Approx. 15,000,000 (2 colors combined) 24 VDC 10% Operating : Approx. 1.0A Stand-by: Approx.

0.2A 180,000 hours 2,960,000 transactions (This is an average failure interval based on failures relating to wearout and random failures up to the life of 1,000,000 transactions) 466(389) (W) x 232 (D) x 180 (H) (with ASF) 310(236) (W) x 232 (D) x 180 (H) (without ASF) 5.2 kg (with ASF) / 4.9 kg (without ASF) VCCI class A, FCC class A, CE marking, AS/NZS CISPR22 class A 50,000,000 lines 195 (W) x 237 (D) x 188 (H) (for J7000 / J7100) 251 (W) x 237 (D) x 188 (H) (for J7500 / J7600) 4.4 kg (for J7000 / J7100), 4.

9g (for J7500 / J7600) VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B PS-180 Auto Sheet Feeder (ASF) with Double Feed Detection Function and Pocket MICR device, Endorsement Printing (for J7000 / J7100) UL / CSA / EN lps: lines per second cpi: characters per 25.4 mm (character per inch) cps: characters per second Receipt: 82.



[You're reading an excerpt. Click here to read official EPSON TM-L90 user guide](http://yourpdfguides.com/dref/2458902)
<http://yourpdfguides.com/dref/2458902>

5 mm: 42 / 56, 76 mm: 40 / 53, 69.5 mm: 36 / 48, 57.5 mm: 30 / 40, Slip: 48 / 64, Endorsement: 46 / 61 (for J7000 / J7100), Slip: 80 / 106 (for J7500 / J7600)
1.69 (W) x 3.38 (H) / 1.27 (W) x 2.40 (H) 95 Alphanumeric, 37 International, 128 x 11 Graphic, Bar code: UPC-A, UPC-E, JAN13(EAN), JAN8(EAN),
CODE39, CODE93, CODE128, ITF, CODABAR(NW7), Two-dimensional code: PDF417 Print Font Character set Characters Per Inch Interfaces* Data
buffer Print speed Dimensions (mm) Paper Thickness (mm) Receipt: 0.06 to 0.

09 Validation: 0.09 to 0.13 Copy capability Ink cartridge Ink Life (characters) Power Power consumption D.K.D.function MTBF Operating: Approx. 0.5 A,
Stand-by: Approx. 70 mA (for J7000 / J7100) Stand-by: Approx. 80 mA (for J7500 / J7600) 2 drivers Reliability MCBF Overall dimensions (mm) Mass
(Approx.)

) EMC standards Power supply (option) Factory Options Safety Standards *Interface: Dealer option: RS-485, USB, 10 Base T I/F, Please contact your Epson
representative 26 TM SERIES SPECIFICATIONS Inkjet Printer TM-J2000 / J2100 TM-C100 Appearance Serial inkjet dot matrix (180 dpi x 180 dpi) 12 x 24
/ 9 x 17 82.5 mm: 42 / 56, 76 mm: 40 / 53 70 mm: 36 / 48, 58 mm: 30 / 40 1.69 (W) x 3.38 (H) / 1.27 (W) x 2.

4 (H) ASCII, WPC1252, PC437, PC850, PC852, PC858, PC860, PC863, PC865, PC866 Custom Graphic, Bar code: UPC-A, UPC-E, JAN8 (EAN), JAN13
(EAN), 2 of 5 (ITF), CODE39, CODE93, CODE128, CODABAR (NW7) 15 cpi / 20 cpi RS-232, Bi-directional parallel, RS-485, USB, 10 Base-T I/F 4 KB or
512 bytes Character: 14.7 lps (8 lines / inch) Graphic: 43 mm / sec. (76 mm width paper, Full columns print) 57.5 0.5, 69.

5 0.5 76 0.5, 82.5 0.5 Serial inkjet dot matrix (Max. 360 dpi x 360 dpi) Not equipped with print font and print all data as the graphic data This printer does
not have a bar code/two-dimensional symbol encoding function; however, a bar code/two-dimensional symbol that can be read with a bar code/two-
dimensional symbol reader can be created by printing bar code/two-dimensional symbol data (graphic data) provided by users. Font Print method Column
capacity (columns) Character size (mm) Print Font UPC-A, UPC-E, JAN8 (EAN), JAN13 (EAN), CODE39, CODE93, CODE128, ITF, CODABAR(NW7) Two-
dimensional code: PDF417 Character set Characters Per Inch USB Four-color: Max. 35 mm / sec. Single-color: Max. 51 mm / sec.

(printing width: 60 mm, 180 dpi x 180 dpi, bi-directional printing) Roll Paper model / Roll paper: 45 to 105 (W) x dia. 90.0 ASF model / ASF: 55 to 135 (W) x
85 to 210 (L) insertion by hand: 49 to 210 (W) x 120 to 297 (L) Roll Paper model / Roll paper: 0.06 to 0.23 ASF model / ASF: 0.08 to 0.25, insertion by hand:
0.08 to 0.25 Interfaces* Data buffer Print speed Dimensions (mm) Paper Thickness (mm) 0.06 to 0.

11 Copy capability Four-color: SJIC9P (4-color combined, pigment ink) Single-color: SJIC10P (K) (Black, pigment ink) Four-color: 660 pages (printable
area 100 x 280 mm, with each of the colors covering 8.5% of the area, high speed mode printing) Single-color: 2,500 pages (printable area 100 x 150 mm,
with each of the colors covering 6.0% of the area, high speed mode printing) AC adapter (included) Operating : Approx. 11W (mean) Ink cartridge Ink Life
(characters) Power Power consumption D.K.

D.function MTBF Single color: SJIC5 (K): Black (for J2000 only) Two color: SJIC3 (K): Black, SJIC4 (R): Red, SJIC4 (B): Blue, SJIC4 (G): Green (for
J2100) Single color: Approx. 24,000,000 Two color: Approx. 17,000,000 (2 colors combined) 24 VDC 10% Operating: Approx. 1A Stand-by: Approx.
65mA 2 drivers 180,000 hours 50,000,000 lines 195 (W) x 250 (D) (275 D with overhanging ledge) x 195 (H) 4.7 kg Reliability 30,000,000 passes Roll Paper
model / 210 (W) x 345 (D) x 152 (H) ASF model / 210 (W) x 367 (D) x 245 (H) Roll Paper model / 2.0 kg ASF model / 1.9 kg MCBF Overall dimensions (mm)
Mass (Approx.) EMC standards Power supply (option) Factory Options Safety Standards VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B
PS-180 UL / CSA / EN Exclusive AC adapter (included) 27 TM SERIES SPECIFICATIONS Thermal Line Printer Item TM-P60 TM-T88IV TM-L60II
Appearance Print method Font Column capacity (columns) Character size (mm) Thermal line printing 12 x 24 / 10 x 24 / 8 x 16 35 / 42 / 52 (58 mm), 36 / 43 /
54 (60 mm) 1.50 (W) x 3.0 (H) / 1.25 (W) x 3.0 (H) / 1.0 (W) x 2.

0 (H) 95 Alphanumeric, 48 International, 128 x 10 Graphic Bar code: UPC-A, UPC-E, JAN8 (EAN), JAN13 (EAN), CODE39, CODE93, CODE128, ITF,
CODABAR 16 cpi / 20 cpi / 25 cpi IEEE 802.11b or Bluetooth, RS-232 128 bytes Max. 70 mm / sec. Roll paper: 57.5 0.5 (W) x dia. 51.0 (max.) (59.5 0.
5 (W) by removing the spacer installed) 0.05 to 0.08 Max. 200 mm / sec. 9 x 17 / 12 x 24 56 / 42 0.

99 (W) x 2.4 (H) / 1.41 (W) x 3.39 (H) 95 Alphanumeric, 37 International, 128 x 11 Graphic Traditional / Simplified Chinese, Japanese, Korean Bar code:
UPC-A, UPC-E, JAN8 (EAN), JAN13 (EAN), CODE39, CODE93, CODE128, ITF, CODABAR Two-dimensional code: PDF417, QRCode 9 x 24 / 12 x 24 42 /
32 (Roll paper), 40 / 30 (Label) 0.99 (W) x 3.

39 (H) / 1.41 (W) x 3.39 (H) 95 Alphanumeric, 32 International, 128 x 7 Graphic Bar code: UPC-A, UPC-E, JAN8 (EAN), JAN13 (EAN), CODE39, CODE93,
CODE128, ITF, CODABAR Print Font Character set Characters Per Inch 20.0 cpi / 15.0 cpi RS-232, Bi-directional parallel Dealer option: RS-485, USB, 10
Base-T I/F RS-232, Bi-directional parallel Interfaces* Data buffer Print speed 4 KB or 45 bytes 50 mm / sec. (12 lps with 1 / 6" paper feed) Roll paper: 60.0
+0 (W) x dia. 83.0 -1 Label: 60.0 +0.

2 (W) x dia. 83.0 - 0.5 Label: 0.143 0.015 Dimensions (mm) Roll paper: 79.5 0.5 (W) x dia. 83.0 Paper Thickness (mm) 0.

06 to 0.07 Copy capability Autocutter Label peeler Power Power consumption D.K.D.function MTBF Available for autocutter model Available for peeler
model PS-10 Available 24 VDC 7% Approx.

1.8 A (mean) Approx. 1.0 A (mean) 2 drivers 120,000 hours 16,000,000 lines 103 (W) x 159 (D) x 65 (H) 0.67 kg (including battery) VCCI class B, FCC class
B, CE marking PS-10 Wall-hanging bracket WH-10 UL / CSA / EN lps: lines per second 360,000 hours 52,000,000 lines 145 (W) x 195 (D) x 148 (H) 1.
8 kg FCC, VCCI class A CE marking, AS / NZS CISPR22 class B 180,000 hours 29,000,000 lines (thermal paper) 12,000,000 lines (thermal label) 123 (W) x
201 (D) x 124 (H) 0.8 kg VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B Reliability MCBF Overall dimensions (mm) Mass (Approx.) EMC
standards Power supply (option) Factory Options Safety Standards PS-180 *Interface: Dealer option: RS-485, USB, 10 Base T I/F, Please contact your
Epson representative cpi: characters per 25.4 mm (character per inch) cps: characters per second 28 TM SERIES SPECIFICATIONS Thermal Line Printer
TM-T90 TM-L90 Appearance Thermal line printing 9 x 17 / 12 x 24 56 / 42 1.3 (W) x 2.4 (H) / 1.7 (W) x 3.4 (H) 64 / 48 1.1 (W) x 2.1 (H) / 1.

5 (W) x 3.0 (H) Font Print method Column capacity (columns) Character size (mm) Print Font 95 Alphanumeric, 37 International, 128 x 11 Graphic Bar
code: UPC-A, UPC-E, JAN13 (EAN), JAN8 (EAN), CODE39, CODE93, CODE128, ITF, CODABAR, Two-dimensional code: PDF417, Maxicode (L90 only),
QRCode (L90 only) 20.



[You're reading an excerpt. Click here to read official EPSON TM-L90 user guide](http://yourpdfguides.com/dref/2458902)

<http://yourpdfguides.com/dref/2458902>