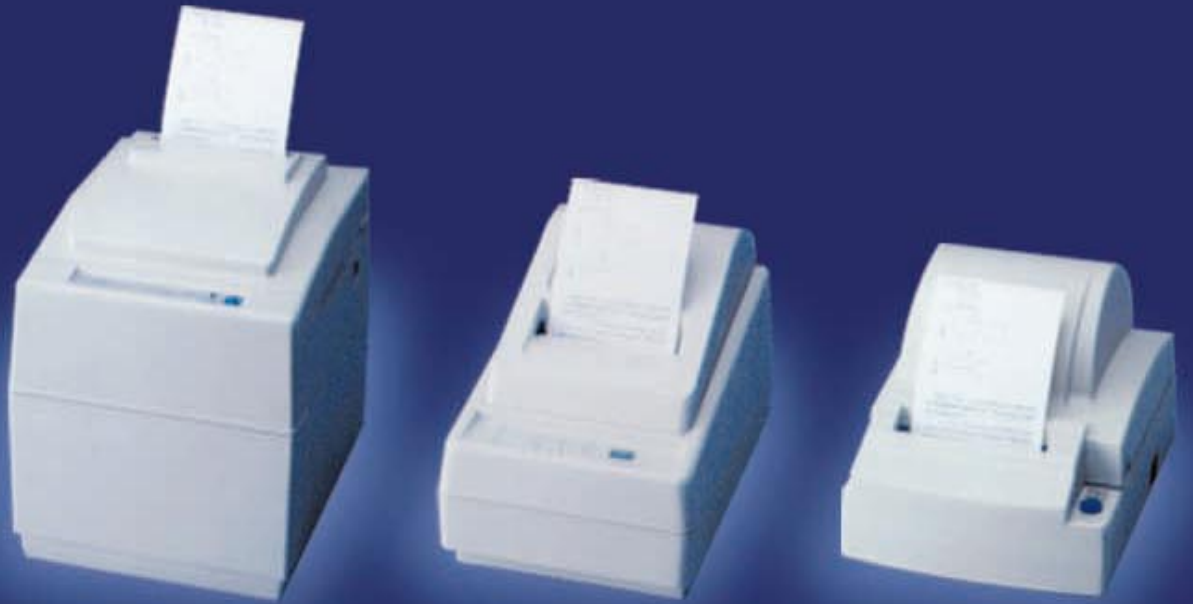


MULTI PRINTER

CITIZEN®



PRODUCTS GUIDE
1999

Japan CBM Corporation

CITIZEN PRINTERS — built with all the features and specifications required to satisfy the toughest jobs.

No matter what the application is, Citizen has a printer to meet your most demanding needs.

With a complete line of POS Printers and OEM mechanisms to choose from,

Citizen makes it easy for you to find the right printer for the right job.

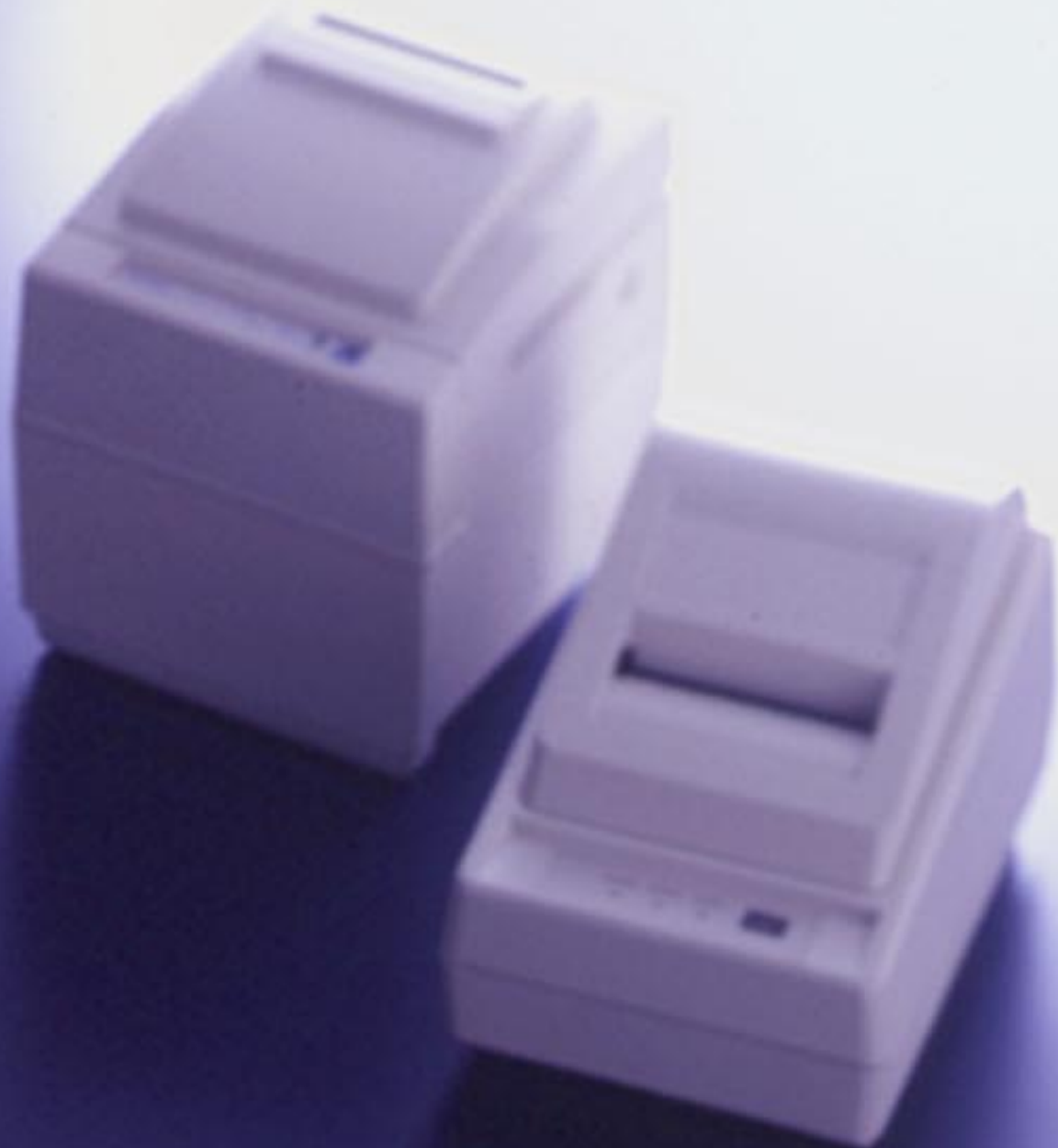
Select from one of the industry's widest varieties of dot matrix and thermal printers with standard features like semi-automatic paper loading, compact design, and high-speed performance.

Not to mention a range of options that include winders, auto cutters, and multicolor ribbons.

When it comes to quality, reliability and long lasting value you know you can depend on Citizen.

All Citizen products are backed by the resources and reputation of a worldwide leader in POS printers and OEM mechanisms.





C O N T E N T S

COMPLETE PRINTERS

LINE THERMAL PRINTERS

CBM-230/231/232/233	4
CBM-253	5
CBM-262	6
CBM-270	7
CBM-291/293	8
iDP-3221	9

IMPACT PRINTERS

iDP-3110/3111/CBM-910/920	10
iDP-3420/3421/3423	11
iDP-3550/3551	12
iDP-460/562	13
CBM-510/520	14
CBM-710/720/750	15
CBM-820	16

Application Reference Table	17
--	----

Feature Reference Table	19
--------------------------------------	----

KIOSK PRINTER

PPU-231/PHU-131	20
------------------------------	----

PRINTER MECHANISMS

LINE THERMAL PRINTER MECHANISMS

LT-282/283/286	22
LT-380	23
LT-280/480	24
LT-482	25

IMPACT PRINTER MECHANISMS

MD-910	26
DP-400	27
DP-505	28
DP-600	29
DP-620	30
DP-630/730	31

ACCESSORIES/OPTIONS

Control Boards/Chips	32
-----------------------------------	----

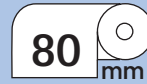
Cutters	33
----------------------	----

Ribbons/Winders/Drawers/CustomerDisplay	34
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Accessory Reference Table	35
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CBM-230/231/232/233

Paper roll



CBM-230/232



CBM-231/233

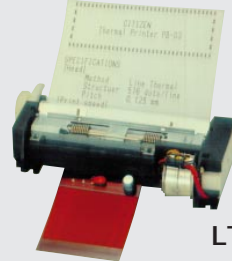
Features

- Compact design
- High-speed line thermal printing
- Automatic paper loading
- Bar-code printing
- Cash drawer kick out
- Compatibility (ESC/POS)
- Auto cutter available (CBM-231/233)
- Separate power supply (CBM-232/233)

Applications

- Receipt
- Coupon
- Ticket
- Daily report
- Kitchen
- Delivery
- Bar-code

Mechanism



LT-380

Specifications

Model	CBM-230	CBM-231	CBM-232	CBM-233
Printing method	Line thermal dot printing			
Printing width	72mm, 576 dots			
Printing speed	Max. 62.5mm/sec., 500 dot-line/sec.			
No. of columns	Font A: 44 columns (42 columns by special EPROM) Font B: 64 columns (56 columns by special EPROM)			
Character size (W × H)	Font A: 1.25 × 3.00mm (12 × 24 dots) / Font B: 0.88 × 2.13mm (9 × 17 dots)			
Dot pitch	8 dots/mm (Horizontal/Vertical)			
Bar-code type	UPC-A/E, JAN-13/8, Code 39, ITF, CODABAR, Code 128			
Line spacing	4.23mm (1/6 inch), can be set by a command (Min. 1/203 inch)			
Paper	Thermal paper roll, 80mm × ø83mm			
Interface	Parallel: Centronics / Serial: RS-232C			
Input buffer	4K bytes			
Power supply	120V AC±10%, 60Hz 230V AC±10%, 50 or 60Hz		AC adapter	
AC adapter	—		Input: AC 100-240V, 50/60Hz, 120VA Output: DC 24V, 1.8A	
Weight	1.70kg	1.85kg	Main unit: 1.2kg (232), 1.3kg (233) AC adapter: 0.45kg	
External dimensions (W × D × H)	145 × 216 × 150mm		Main unit: 145 × 216 × 130mm	
Operating temp. range	5 ~ 40°C			
Storage temp. range	-20 ~ 60°C			
Reliability	Head: 50,000,000 pulses or 30km Cutter: 300,000 cuts (231)		Head: 50,000,000 pulses or 30km Cutter: 500,000 cuts (233)	

Type Classification

CBM-231 R F 230

① ② ③ ④

① Model type

- 230: No auto cutter model
- 231: Standard model
- 232: No auto cutter/external power supply
- 233: Auto cutter/external power supply

② Interface

- P: Parallel
- R: Serial RS-232C

③ Character set

- F: International
- J: Japanese

④ Power source

- 100: 100 V
- 120: 120 V
- 230: 230 V

Further Information

Mechanism



Control Chip



Auto Cutter



CBM-253

Paper roll



CBM-253

Features

- Compact design
- High-speed line thermal printing
- Label printing
- Bar-code printing
- Cash drawer kick out
- Compatibility (ESC/POS)
- Rotary cutter

Applications

- Label
- Delivery
- Bar-code
- Receipt
- Coupon
- Ticket
- Daily report
- Kitchen

Mechanism



LT-280

Specifications

	CBM-253
Model	CBM-253
Printing method	Line thermal dot printing
Printing width	56mm, 448 dots (Thermal paper) 53mm, 424 dots (Thermal label paper)
Printing speed	Max. 50mm/sec., 400 dot-line/sec. (11 lines/sec.)
No. of columns	37 columns (Font A/Thermal paper) 35 columns (Font A/Thermal label paper) 49 columns (Font B/Thermal paper) 47 columns (Font B/Thermal label paper)
Character size (W × H)	1.25 × 3.0mm (Font A = 12 × 24 dots) 0.88 × 2.13mm (Font B = 9 × 17 dots)
Dot pitch	8 dots/mm (Horizontal/Vertical)
Bar-code type	UPC-A/E, JAN-13/8, Code 39, ITF, CODABAR, Code 128
Line spacing	4.23mm (1/6 inch), can be set by a command (Min. 1/203 inch)
Paper	Thermal paper roll, 60mm × ø83mm
Interface	Parallel: Centronics Serial: RS-232C
Input buffer	4K bytes
Power supply	120V AC±10%, 50/60Hz 230V AC±10%, 50/60Hz
Weight	2.2kg
External dimensions (W × D × H)	140 × 240 × 151.5mm
Operating temp. range	5 ~ 40°C
Storage temp. range	-10 ~ 40°C
Reliability	Head: 50 million pulses or 30km Cutter: 500,000 cuts

Type Classification

CBM-253 R F 230

① ② ③ ④

- ① **Model type**
253: Label printer
- ② **Interface**
P: Parallel
R: Serial RS-232C
- ③ **Character set**
F: International
J: Japanese
- ④ **Power source**
100: 100 V
120: 120 V
230: 230 V

Further Information

Mechanism



Control Chip



Auto Cutter



CBM-262

Paper roll



CBM-262

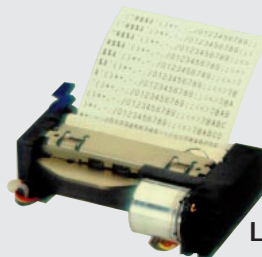
Features

- Two station printing (Receipt and journal with paper winder)
- High-speed line thermal printing
- Automatic paper loading
- Bar-code printing
- Cash drawer kick out
- Compatibility (ESC/POS)
- Auto cutter (Receipt only)
- Separate power supply

Applications

- Receipt
- Journal
- Coupon
- Ticket
- Daily report
- Kitchen
- Delivery
- Bar-code

Mechanism



LT-283

Specifications

CBM-262

Model	CBM-262
Printing method	Line thermal dot printing
Printing width	54mm, 432 dots
Printing speed	Max. 62.5mm/sec., 500 dot-line/sec. (Approx. 19 lines/sec.)
No. of columns	Font A: 36 columns Font B: 42 columns
Character size (W × H)	Font A: 1.25 × 3.00mm (12 × 24 dots) Font B: 0.88 × 2.13mm (9 × 17 dots)
Dot pitch	8 dots/mm (Horizontal/Vertical)
Bar-code type	UPC-A/E, JAN-13/8, Code 39, ITF, CODABAR, Code 128
Line spacing	4.23mm (1/6 inch), can be set by a command (Min. 1/203 inch)
Paper	Thermal paper roll, 58mm × ø83mm
Interface	Parallel: Centronics Serial: RS-232C
Input buffer	4K bytes
Power supply voltage	Main unit: DC 24V
AC adapter	Input: AC 100-240V, 50/60Hz, 120V, Output: DC 24V, 1.8A
Weight	Main unit: 2.25kg, AC adapter: 0.4kg
External dimensions (W × D × H)	128 × 359.5 × 162.5mm
Operating temp. range	5 ~ 40°C
Storage temp. range	-10 ~ 60°C
Reliability	Head: 50,000,000 pulses or 100km Cutter: 500,000 cuts

Type Classification

CBM-262 R F 230

① ② ③ ④

- ① **Model type**
262: Tandem 2 station printer
- ② **Interface**
P: Parallel
R: Serial RS-232C
- ③ **Character set**
F: International
J: Japanese
- ④ **Power source**
100: 100 V
120: 120 V
230: 230 V

Further Information

Mechanism

LT-283
→22P

Auto Cutter

ACS-220
→33P

CBM-270

Paper roll



CBM-270

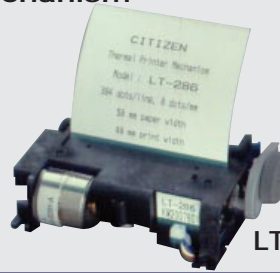
Features

- Compact design
- Light weight (approx. 600g)
- Availability of wall mount
- Automatic paper loading
- Bar-code printing
- Compatibility of ESC/POS
- Paper near end sensor equipped
- Large input buffer (2K)
- Label printing (option)
- Black & red printing (option) (with special paper)

Applications

- POS
- Banking
- Medical equipment
- Coupon
- Ticket
- Daily report
- Delivery
- Bar-code

Mechanism



LT-286

Specifications

Model	CBM-270
Printing method	Line thermal dot printing
Printing width	48mm (384 dots/line)
Printing speed	Max. 50mm/sec., 400 dot-line/sec. (11 lines/sec.)
No. of columns	Font A: 32 columns. Font B: 42 columns.
character size (W × H)	Font A: 1.25 × 3.00 mm (12 × 24 dots) Font B: 0.88 × 3.00 mm (9 × 24 dots)
Dot pitch	8 dots/mm
Bar-code type	UPC-A/E, JAN (EAN), ITF, CODABAR, CODE39, CODE128
Line spacing	4.23mm (1/6 inch), can be set by a command (Min. 1/203 inch)
Printing Paper	Thermal roll paper: 58 × ø83mm (max.) Thickness: 60 ~ 75µm Thermal label paper: 58 × ø83mm (max.) Thickness: 150µm Label width: 56mm (max.) Label length: 25mm/pc (min.)
Interface	Parallel: Centronics, Serial: RS-232C
Input buffer	2K bytes
Paper supply	DC 7.2V 2A (Peak 6A) or AC adapter AC 100-240V (27 AD)
Weight	Approx. 600g
External dimensions (W × D × H)	106 × 184 × 110mm
Reliability	Head: 50,000,000 pulses or 50km

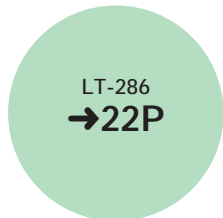
Type Classification

CBM-270 R F 230-N
① ② ③ ④

- ① Interface
R: Serial (RS-232C)
P: Parallel
- ② Character set
F: International
- ③ Power source
120: 120 V
230: 230 V
- ④ Label Paper Print Function
N: None
L: Label interval detection
M: Black mark detection

Further Information

Mechanism

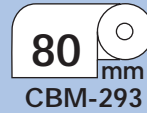
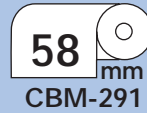


Control Chip



CBM-291/293

Paper roll Paper roll



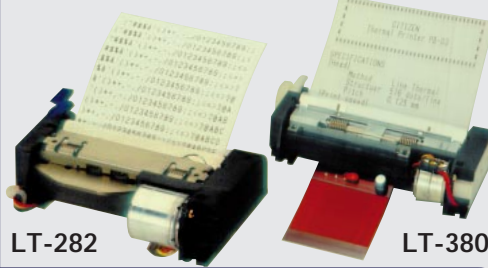
Features

- Compact design
- Panel mounting
- High speed line thermal printing
- Automatic paper loading
- Bar-code printing
- Compatibility (ESC/POS)
- Auto cutter
- DC 24V drive
- No auto cutter model available (290/292)

Applications

- Receipt
- Coupon
- Ticket
- Daily report
- Kiosk
- Kitchen
- Delivery
- Bar-code
- Industrial machine

Mechanism



Specifications

Model	CBM-291	CBM-293
Printing method	Line thermal dot printing	
Printing width	52mm, 416 dots	72mm, 576 dots
Printing speed	Max. 50mm/sec.	Max. 62.5mm/sec.
No. of columns	Font A: 34 columns Font B: 46 columns	Font A: 48 columns Font B: 64 columns
Character size (W × H)	Font A: 1.25 × 3.00mm (12 × 24 dots) Font B: 0.88 × 2.14mm (7 × 19 dots)	
Dot pitch	8 dots/mm (Horizontal and Vertical)	
Bar-code type	UPC-A/E, JAN-13/8, Code 39, ITF, CODABAR, Code 128	
Line spacing	4.23mm (1/6 inch), can be set by a command (Min. 1/203 inch)	
Paper	58 × Max. ø50mm	80 × Max. ø50mm
Interface	Parallel: Centronics Serial: RS-232C	
Input buffer	4K bytes	
Power supply voltage	DC 5V and DC 24V	DC 24V
Weight	0.56kg	0.67kg
External dimensions (W × D × H)	106 × 109 × 99mm	126 × 109 × 99mm
Operating temp. range	5 ~ 40°C	
Storage temp. range	-20 ~ 60°C	
Reliability	Head: 50,000,000 pulses or 30km Cutter: 300,000 cuts	

Type Classification

CBM-291 R F

① ② ③

- ① **Model type**
 291: Panel mount printer (58mm)
 293: Panel mount printer (80mm)
- ② **Interface**
 P: Parallel
 R: Serial RS-232C
- ③ **Character set**
 F: International
 J: Japanese

Further Information

Mechanism

LT-282
→22P

LT-380
→23P

Control Chip

CPU
202PC-03A
202PC-02A
Gate Array
202LA
→32P

Auto Cutter

ACS-220
ACS-230
→33P

iDP-3221

Paper roll



iDP-3221

Features

- Compact design
- High-speed line thermal printing
- Easy paper loading (See below)
- Bar-code printing
- Cash drawer kick out
- Compatibility (ESC/POS)
- Auto cutter
- Separate power supply
- Page mode

Applications

- Receipt
- Coupon
- Ticket
- Daily report
- Kitchen
- Delivery
- Bar-code

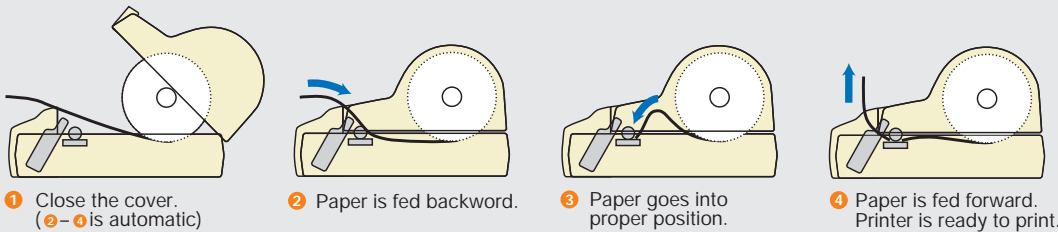
Type Classification

iDP-3221 R F 230

① ② ③ ④

- ① **Model type**
3221: Economy thermal printer
- ② **Interface**
P: Parallel
R: Serial RS-232C
- ③ **Character set**
F: International
J: Japanese
- ④ **Power source**
100: 100 V
120: 120 V
230: 230 V

Easy paper loading



Specifications

Model	iDP-3221
Printing method	Line thermal dot printing
Printing width	72.19 mm / 512 dots
Printing speed	Max. 63.45mm/sec., 450 dot-line/sec.
No. of columns	Font A: 42 columns Font B: 56 columns
Character size (W × H)	Font A: 1.41 × 3.39mm (12 × 16 dots) Font B: 0.99 × 3.39mm (9 × 24 dots)
Dot pitch	7 dots/mm (Horizontal/Vertical), 180 DPI
Bar-code type	UPC-A/E, JAN-13/8, Code 39, ITF, CODABAR, Code 128
Line spacing	4.23mm (1/6 inch), can be set by a command (Min 1/156 inch)
Paper	Thermal paper roll, 80 × ø83mm
Interface	Parallel: Centronics Serial: RS-232C
Input buffer	4K bytes
Power supply voltage	Main unit: DC 24V
AC adapter	Input: AC 100-240V, 50/60Hz, 120VA, Output: DC 24V, 1.8A
Weight	Main unit: 1.3kg, AC adapter: 0.45kg
External dimensions (W × D × H)	152 × 201 × 123mm
Operating temp. range	5 ~ 40°C
Storage temp. range	-20 ~ 60°C
Reliability	Head: 50,000,000 pulses or 50km Cutter: 500,000 cuts

Further Information

Control Chip

Gate Array
202LA
→32P

Auto Cutter

ACS-230
→33P

iDP-3110/3111/CBM-910/920

Paper roll



iDP-3110/3111



CBM-910



CBM-920

Features

- Palm size and Light weight
- High speed printing
- Bit image graphics printing
- 2K bytes memory buffer (CBM-910/920)
- Paper end sensor (CBM-910)
- Compatibility with CBM-700 series and iDP-3540 series (CBM-910/920)
- Rechargeable internal battery (iDP-3111)
- Panel mount (CBM-920)
- Paper auto loading (CBM-920)

Applications

- Receipt
- Ticket
- Credit/Debit
- Daily report
- Kitchen
- Delivery
- Portable (iDP-3111)
- Industrial machine (CBM-920)

Accessories

- Ink ribbon IR-91

Mechanism



MD-910/911

Specifications

Model	iDP-3110	iDP-3111	CBM-910	CBM-920
Printing method	Serial dot impact			
Printing direction	Left to right			
Font	5 × 8 matrix			
No. of columns	24/40 columns			
Printing speed	24 col = 2.5 lines/sec. 40 col = 1.8 lines/sec.			
Character size (W × H)	24 col = 1.62 × 2.4mm 40 col = 1.08 × 2.4mm			
Line spacing	Character = 3.52mm / Graphic = 2.4mm			
Character pitch	24 col = 1.98mm / 40 col = 1.19mm			
Line feed speed	5.0 lines/sec.			
Paper width	57.5mm			
Interface	Parallel: Centronics, Serial: RS-232C			
Input buffer	1 line		2K bytes	
Paper end sensor	None		Equipped	
Ink ribbon	Purple, Cassette			
Power supply	AC 100/120/230V DC 7V	Rechargeable internal battery	AC 100/120/230V DC 7V	DC 5V only
Power consumption	7VA			
Weight	0.4kg			
External dimensions (W × D × H)	106 × 180 × 88mm			115 × 119 × 65mm
Operating temp. range	5 ~ 35°C			
Storage temp. range	-20 ~ 60°C			
Reliability	MCFB 1.0 million lines (40 columns)			

Type Classification

iDP/CBM-3110-24 R F 230 - A

① ②③④ ⑤ ⑥

- ① Model type
 - 3110: Standard
 - 3111: With rechargeable battery
 - 910: With 2 K byte buffer
 - 920: Panel mount
- ② Column capacity
 - 24: 24 columns
 - 40: 40 columns
- ③ Interface
 - P: Parallel
 - R: Serial RS-232C
- ④ Character set
 - F: International
 - J: Japanese
- ⑤ Power source
 - 100: 100 V
 - 120: 120 V
 - 230: 230 V
 - DC: 920 only
- ⑥ Paper roll diameter
 - A: Max. 60 mmø
 - B: Max. 80 mmø
 - (920 is Max. 50 mmø)

Further Information

Mechanism

MD-910/911
→26P

Control Board

CBM-919
→32P

Control Chip

CPU
CBM-909PC-D
→32P

iDP-3420/3421/3423

Paper roll



iDP-3420



iDP-3421



iDP-3423

Features

- Auto cutter available (iDP-3421/3423)
- Auto winder available (iDP-3423)
- 6K bytes memory buffer
- Two color printing (Red/Black)
- ESC/POS, Star emulation available
- Paper auto loading

Applications

- Receipt
- Journal
- Ticket
- Credit/Debit
- Delay Report
- Kitchen
- Delivery

Accessories

- Ink ribbon IR-41

Mechanism



DP-400

Specifications

Model	iDP-3420	iDP-3421	iDP-3423
Printing method	Serial dot impact		
Printing direction	Bidirectional		
Font	7 × 7 matrix		
No. of columns	40/42 columns (Selectable by Dip switch)		
Printing speed	Approx. 3.0 line/sec.		
Character size (W × H)	1.31 × 3.1mm		
Character set	Alphanumeric, International, Code page 437, 850, 860, 863, 865, 852, 866, 857, Windows code		
Line spacing	4.23mm (1/6 inch) or 2.82mm (1/9 inch) Min. 1.41mm(1/18inch)		
Paper	76mm Roll paper		
Interface	Parallel: Centronics, Serial: RS-232C		
Input buffer	6K bytes / 256 bytes		
Paper end sensor	Equipped		
Paper near end sensor	Equipped		
Paper cutter	None	Equipped	Equipped
Paper winder	None	None	Equipped
Cash drawer control	2 drawers		
Ink ribbon	Red/Black, or Black (CBM Ink ribbon cassette)		
Power supply	AC 100/120/230V		
Power consumption	30W (During printing)		
Weight	2.4kg	2.6kg	2.8kg
External dimensions (W × D × H)	164 × 248 × 140mm		164 × 280 × 183mm
Operating temp. range	0 ~ 40°C (35 ~ 85% RH)		
Storage temp. range	-20 ~ 60°C (10 ~ 90% RH)		
Reliability	Printer: MCBF 2.5 million lines Head: 80 million characters	Printer: MCBF 2.5 million lines Head: 80 million characters Cutter: 500,000 cuts	Printer: MCBF 2.5 million lines Head: 80 million characters Cutter: 500,000 cuts

Type Classification

iDP-3420 R F 230

① ② ③ ④

- ① **Model type**
3420: Standard model
3421: With Auto Cutter
3423: With Auto Cutter and Winder
- ② **Interface**
CBM Mode
R: Serial RS-232C
P: Parallel
STAR Mode
S: Serial RS-232C
C: Parallel
ESC/POS Mode
T: Serial RS-232C
I: Parallel
- ③ **Character set**
F: International
- ④ **Power source**
120: 120 V
230: 230 V

Further Information

Mechanism

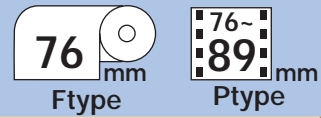


Auto Cutter



iDP-3550/3551

Paper roll Sprocket



iDP-3550



iDP-3551

Features

- Printing speed 3.6 lines/Sec.
- Paper auto loading
- CBM, IDP, ESC/POS, Star emulation
- 6K memory buffer
- Auto cutter available (iDP-3551)
- Auto winder option (AW-3)
- Cash drawer kick out (2 drawers)
- Pinfeed version available (iDP-3550P)
- Two color printing (red/black)

Applications

- Receipt
- Journal
- Ticket
- Label
- Credit/Debit
- Daily report
- Kitchen
- Delivery

Accessories

- Winder AW-3
- Paper basket 35PB-1
- Ink ribbon IR-61

Mechanism



DP-650

Specifications

Model	iDP-3550F	iDP-3550P	iDP-3551F
Printing method	Serial dot impact		
Printing direction	Bidirectional		
Font	7 × 7 matrix		
No. of columns	40 columns		
Printing speed	3.6 lines/sec.(DP-654), 3.0 lines/sec.(DP-657)		
Character size (W × H)	2.4 × 1.36mm(DP-654), 2.4 × 1.20mm(DP-657)		
Character set	Alphanumeric, International, Code page 437, 850, 860, 863, 865, 852, 866, 857, Windows code		
Line spacing	4.23mm, 1/6"(DP-654), 2.82mm(DP-657)		
Character pitch	1.59mm(DP-654), 1.46mm(DP-657)		
Line feed speed	18 lines/sec.(DP-654), 15 lines(DP-657)		
Paper feed method	Friction	Sprocket	Friction
Paper	76mm roll paper	76 ~ 89mm fanfold paper	76mm roll paper
Interface	Parallel: Centronics, Serial: RS-232C		
Input buffer	6K bytes		
Paper end sensor	Equipped	None	Equipped
Paper cutter	None		Partial/Full cut
Paper winder	AW-3 (Option)	None	AW-3 (Option)
Cash drawer control	2 drawers		
Ink ribbon	Red/Black, Cassette		
Power supply	AC 100/120/230V		
Power consumption	30W		
Weight	2.8kg		3.0kg
External dimensions (W × D × H)	160 × 212 × 173mm		160 × 184 × 199.3mm
Operating temp. range	0 ~ 40°C		
Storage temp. range	-20 ~ 60°C		
Reliability	Printer: MCBF 4.0 million lines Head: 80 million characters		Printer: MCBF 4.0 million lines, Head: 80 million characters, Cutter: 500,000 cuts

Type Classification

iDP3551-F 40 R F 230 C

① ② ③④⑤ ⑥ ⑦

- ① **Model type**
3550: No cutter
3551: With cutter
- ② **Paper**
F: Friction feed
P: Pin feed
- ③ **Column capacity**
40: 40 columns
- ④ **Interface**
R: Serial
P: Parallel
- ⑤ **Character set**
F: International
- ⑥ **Power source**
100: AC 100 V
120: AC 120 V
230: AC 230 V
- ⑦ **Mode**
C: Character
G: Graphic

Further Information

Mechanism

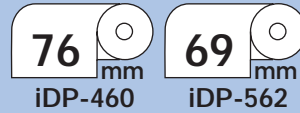
DP-650
→29P

Auto Cutter

AC-130
→33P

iDP-460/562

Paper roll Paper roll



iDP-460



iDP-562

Features

- High speed printing
- High reliability
- Metal tear bar
- Two color printing
- Compatible with most bankcard terminals
- Mini DIN interface model (iDP-460)
- Paper end sensor (iDP-460)
- Automatic paper loading (iDP-460)
- Graphic model is available (G type, iDP-562)

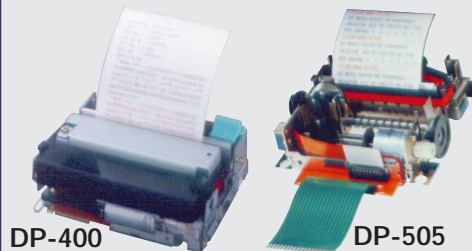
Applications

- Receipt
- Ticket
- Credit/Debit
- Kitchen
- Delivery

Option

- Ink ribbon
IR-41 (iDP-460),
IR-51 (iDP-562)

Mechanism



DP-400

DP-505

Specifications

	iDP-460	iDP-562
Model	iDP-460	iDP-562
Printing method	Serial dot impact	Serial dot impact
Printing direction	Bidirectional	Left to right
Font	7 × 7 matrix	5 × 7 matrix
No. of columns	40/42 columns	40 columns
Printing speed	3.0 lines/sec.	1.6 lines/sec.
Character size (W × H)	1.31 × 2.4mm	1.25 × 2.75mm
Line spacing	4.23 or 2.82mm Min. 1.41mm	5.5mm
Character pitch	1.52mm	1.5mm
Line feed speed	30 lines/sec.	6.2 lines/sec.
Interface	Parallel: Centronics, Serial: RS-232C	Parallel: Centronics, Serial: RS-232C 20mA Current loop/TTL
Input buffer	250 bytes	1 line
Paper end sensor	Equipped	None
Cash drawer control	option (1 drawer)	None
Paper	76mm roll paper	69mm roll paper
Ink ribbon	Exclusive ink ribbon cartridge IR-41	Exclusive ink ribbon cartridge IR-51
Power supply	AC adapter AC 100/120/230	AC 100/120/230V
Power consumption	30W	35W
Weight	Main: 1.25kg AC adapter: 0.95kg	2.3kg
External dimensions (W × D × H)	144 × 233 × 121mm	240 × 231.5 × 111.5mm
Operating temp. range	0 ~ 40°C	5 ~ 40°C
Storage temp. range	-20 ~ 60°C	-20 ~ 70°C
Reliability	MCBF 2.5 million lines 80 million characters	MCBF 1.0 million lines 50 million characters

Type Classification

iDP-460-RF 230 TYPE II D
① ② ③ ④ ⑤

- ① **Model type**
562: Standard
460: High speed printing
- ② **Interface**
RS: Serial (iDP-562)
RSL: Serial. Graphic (iDP-562)
CN: Parallel (iDP-562)
CNL: Parallel. Graphic (iDP-562)
RF: Serial (iDP-460)
PF: Parallel (iDP-460)
VF: Serial. Mini DIN interface (iDP-460)
- ③ **Power source**
100: AC 100 V
120: AC 120 V
230: AC 230 V
- ④ **ROM Type (iDP-562)**
Type I: EP ROM
Type II: Masked ROM
- ⑤ **Drawer kick-out connector**
None: No connector
D: With connector

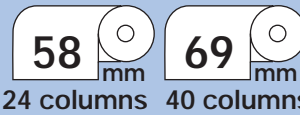
Further Information

Mechanism



CBM-510/520

Paper roll Paper roll



CBM-510



CBM-520

Features

- Durable aluminium cabinet
- Two color printing (red/black)
- Panel mount design (CBM-520)

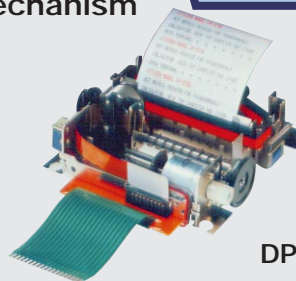
Applications

- Receipt
- Ticket
- Credit/Debit
- Daily report
- Kitchen
- Delivery
- Industrial machine

Accessories

- Ink ribbon IR-01

Mechanism



DP-505

Specifications

Model	CBM-510	CBM-520
Printing method	Serial dot impact	
Printing direction	L = Left to right / R = Right to left	
Font	5 × 7 matrix	
No. of columns	24/40 columns	
Printing speed	24 col = 1.9 lines/sec. / 40 col = 1.2 lines/sec.	
Character size (W × H)	24 col = 1.7 × 2.75mm / 40 col = 1.25 × 2.75mm	
Line spacing	Character = 5.5mm / Graphic = 2.75mm	
Character pitch	24 col = 2mm / 40 col = 1.5mm	
Line feed speed	8 lines/sec.	
Paper width	24 col = 57.5mm / 40 col = 69mm	
Interface	Parallel: Centronics, 8 bit hand shake Serial: RS-232C, 20mA Current loop/TTL	
Input buffer	1 line + 1 byte	
Paper end sensor	Option	
Ink ribbon	Red/Black, Spool	
Power supply	AC 100/120/220/240V / DC 12V	
Power consumption	20W	
Weight	3kg	
External dimensions (W × D × H)	197 × 240 × 74mm	150 × 149 × 199mm
Operating temp. range	5 ~ 40°C	
Storage temp. range	-20 ~ 70°C	
Reliability	Printer: 1.5 million lines Head: 36 million characters	

Type Classification

CBM-510 L-40 P F 230-C M O

① ②③④⑤ ⑥ ⑦⑧⑨

- ① Model type
510: Metal case printer
520: Panel printer
- ② Print direction
L: Left to right
R: Right to left
- ③ Column capacity
24: 24 columns
40: 40 columns
- ④ Interface
P: Parallel
H: Handshake
R: Serial RS-232C, TTL level, 20 mA Current loop
- ⑤ Character set
F: International
J: Japanese
- ⑥ Power source
12: DC 12 V
(Case is option)
100: AC 100 V
120: AC 120 V
220: AC 220 V
240: AC 240 V
- ⑦ Mode
G: Graphic
C: Character
- ⑧ ROM version
M: Masked ROM
R: EPROM
- ⑨ Character direction
O: Normal
A: Inverted

Further Information

Mechanism

DP-505
→28P

Control Board

CBM-505
→32P

Control Chip

PC-20
PC-2A
→32P

CBM-710/720/750

Paper roll



CBM-710



CBM-720+AW-2



CBM-750

Features

- High speed printing
- Auto cutter available (CBM-720/CBM-750)
- Auto winder option (AW-2)
- 7K memory buffer
- Two color printing (red/black)

Applications

- Receipt
- Journal
- Ticket
- Credit/Debit
- Daily Report
- Kitchen
- Delivery

Accessories

- Winder AW-2
- Ink ribbon IR-61

Mechanism



DP-600

Specifications

	CBM-710	CBM-720	CBM-750
Model	CBM-710	CBM-720	CBM-750
Printing method	Serial dot impact		
Printing direction	Bidirectional		
Font	7 × 7 matrix		
No. of columns	23/28/40 columns		
Printing speed	40 col = 3.0 lines/sec.		
Character size (W × H)	23 col = 1.8 × 2.4mm / 28 col = 1.5 × 2.4mm / 40 col = 1.35 × 2.4mm		
Line spacing	Character = 4.23mm, 1/6" / Graphic = 2.8mm		
Character pitch	23 col = 2.49mm / 28 col = 2.07mm / 40 col = 1.59mm		
Line feed speed	40 col = 16 lines/sec.		
Paper feed method	Friction		
Paper	76mm Roll paper		
Interface	Parallel: Centronics, Serial: RS-232C, 20mA Current loop		
Input buffer	7K bytes		
Paper end sensor	Equipped		
Validation	Option	None	None
Paper cutter	None	Partial/Full cut	Partial/Full cut
Paper winder	AW-2 (Option)		
Cash drawer control	None		
Ink ribbon	Red/Black, Cassette		
Power supply	AC 100/120/230V		
Power consumption	30W		
Weight	3.1kg	3.3kg	3.6kg
External dimensions (W × D × H)	176 × 255 × 125mm	176 × 255 × 146.5mm	178.6 × 203.2 × 330mm
Operating temp. range	5 ~ 35°C		
Storage temp. range	-20 ~ 70°C		
Reliability	Printer: MCBF 4.0 million lines Head: 80 million characters	Printer: MCBF 4.0 million lines Head: 80 million characters Cutter: 300,000 cuts	

Type Classification

CBM-710-40 R F 230 I B V

① ②③④ ⑤ ⑥⑦⑧

- ① **Model type**
710: Without auto cutter
720: With auto cutter
750: Vertical printer with auto cutter
- ② **Column capacity**
23: 23 columns
28: 28 columns
40: 40 columns
- ③ **Interface**
P: Parallel
R: Serial
RS-232
20 mA Current loop
- ④ **Character set**
F: International
J: Japanese
- ⑤ **Power source**
100: AC 100 V
120: AC 120 V
230: AC 230 V
- ⑥ **Mode**
C: Character (23, 28 columns)
I: Character (40 columns)
G: Graphic
- ⑦ **Memory back-up**
B: With back-up
N: Without back-up
- ⑧ **Validation function (710 only)**
V: Available
None: Not available

Further Information

Mechanism



Control Board



Auto Cutter



CBM-820

Slip
80~
182mm

CBM-820

Features

- Slip paper printing
- Easy paper loading
- 3 ply paper printing capability
- Cash drawer kick out
- ESC/POS
- Compact design
- Page mode

Applications

- Receipt
- Invoice
- Sales slip
- Daily report
- Ticket
- Delivery
- Credit/Debit
- Check endorsement
- Check

Accessories

- Ink ribbon
IR-82

Type Classification

CBM-820 R F 230
① ② ③

- ① Interface
R: Serial RS-232C
- ② Character set
F: International
- ③ Power source
100: 100 V
120: 120 V
230: 230 V

Specifications

	CBM-820
Model	CBM-820
Printing method	Serial impact dot matrix
Printing head	9 pins
No. of columns	42 col. (7 × 9 font), 35 col. (5 × 9 font)
Printing speed	3.1 lines/sec. (Maximum)
Character size (W × H)	7 × 9 font (half): 1.2 × 2.42mm 5 × 9 font (2 pulses per dot): 1.5 × 2.42mm 5 × 9 font (3 pulses per dot): 2.1 × 2.42mm
Character set	PC437, PC850, International
Dot spacing	Horizontal: 0.30mm Vertical: 0.35mm
Printing width	63mm
Emulation	ESC/POS
Ink ribbon	Purple or Black (CBM ink ribbon cassette)
Paper	80 to 182mm (W) × 80 to 257mm (H) Original + 2 copies / Thickness: 1 ply 0.09 to 0.2mm Duplicates 0.12mm to 0.25mm / (Max. 0.2mm for graphics printing)
Interface	Serial: RS-232C
Input buffer	2K bytes or 35 bytes
Cash drawer control	2 drawers
Sensors	Paper out top-of-form, bottom-of-form sensors
Power supply	AC adaptor (31 AD) 100/120/230V / Output 24V DC 5%, 1.9A
Power consumption	Peak current: 3.1A / Continuous ASCII printing + paper feed: 0.6A
Weight	2.1kg
External dimensions (W × D × H)	180 × 190 × 138mm
Operating temp. range	5 ~ 40°C
Storage temp. range	-20 ~ 60°C
Reliability	Mechanism (MCFB): 2.5 million lines / Printer head life: 70 million characters

Application Reference Table

Application	Model	LINE THERMAL PRINTERS							
		CBM-230 CBM-231	CBM-232 CBM-233	CBM-253	CBM-262	CBM-270	CBM-291 CBM-293	iDP-3221	PPU-231 PHU-131
Receipt		●	●	●	●	●	●	●	
Journal					●				
Sales Slip									
Coupon		●	●	●	●	●	●	●	
Ticket		●	●	●	●	●	●	●	●
Label				●		option			
Credit/Debit						●			
Check									
Invoice									
Daily Report		●	●	●	●	●	●	●	
Kitchen		●	●	●	●	●	●	●	
Delivery		●	●	●	●	●	●	●	
Check Endorsement									
Bar-code		●	●	●	●	●	●	●	●
Industrial machine							●		●
Portable									
Kiosk							●		●

Application Reference Table

Application	Model	IMPACT PRINTER										
		iDP-3420 iDP-3421	iDP-3423	iDP-3550 iDP-3551	iDP-3110 CBM-910	iDP-3111	CBM-920	iDP-460 iDP-562	CBM-710 CBM-720	CBM-750	CBM-510 CBM-520	CBM-820
Receipt		•	•	•	•	•	•	•	•	•	•	•
Journal			•	•					•			
Sales Slip												•
Coupon												
Ticket		•	•	•	•	•	•	•	•	•	•	•
Label												
Credit/Debit		•	•	•	•	•	•	•	•	•	•	•
Check												•
Invoice												•
Daily Report		•	•	•	•	•	•	•	•	•	•	
Kitchen		•	•	•	•	•	•	•	•	•	•	
Delivery		•	•	•	•	•	•	•	•	•	•	•
Check Endorsement												•
Bar-code												
Industrial machine							•				•	
Portable						•						
Kiosk												

Feature Reference Table

Model name	Auto cutter	Bar-code	Battery drive	Cash drawer kick-out	DC drive	ESC/POS	Internal power supply	Label printing	Metal case	Panel Mount	Paper winder	Paper auto loading	Sprocket feed	Two station	Validation print
CBM-230		●		●		●	●					●			
CBM-231	●	●		●		●	●					●			
CBM-232		●		●		●						●			
CBM-233	●	●		●		●						●			
CBM-253	●	●		●		●	●	●							
CBM-262	●	●		●		●					●	●		●	
CBM-270		●				●		Option				●			
CBM-291	●	●			●	●				●		●			
CBM-293	●	●			●	●				●		●			
iDP-3221	●	●		●		●						●			
PPU-231 PHU-131	●	●				●									
iDP-3110															
iDP-3111			●												
iDP-3420				●		●	●					●			
iDP-3421	●			●		●	●					●			
iDP-3423	●			●		●	●				●	●			
iDP-3550F				●		●	●				Option	●			
iDP-3550P				●		●	●	●					●		
iDP-3551F	●			●		●	●				Option	●			
CBM-510							●		●						
CBM-520					Option		●		●	●					
iDP-460				Option								●			
iDP-562							●								
CBM-710							●				Option				Option
CBM-720	●						●				Option				
CBM-750	●						●								
CBM-820				●		●									●
CBM-910															
CBM-920					●					●		●			

PPU-231/PHU-131

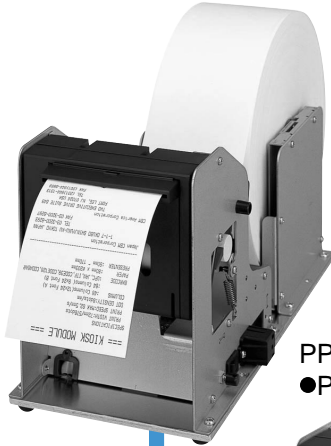
Printer Presenter Unit

Paper roll



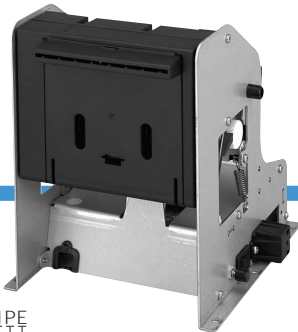
Unit breakdown

Complete unit
PPU-231/PHU-131



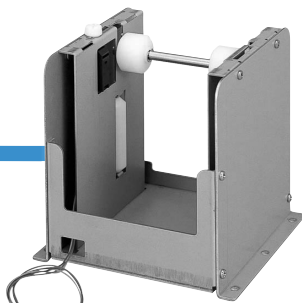
*The bottom plate is not included.

PPU series
●Printer presenter unit



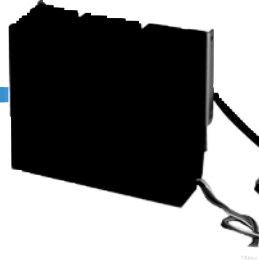
- PPU-231PE**
- Model
 - Printing method
2: Thermal
 - Paper width
3: 80mm
 - Product number
1: Standard
 - Interface
P: Parallel
R: Serial
 - Character set
K: Japan
U: US
E: Europe

PHU series
●Paper holding unit



- PHU-131**
- Model
 - Product number
 - Paper width
3: 80mm
 - Paper near end sensor
1: 1 sensor
2: 2 sensors

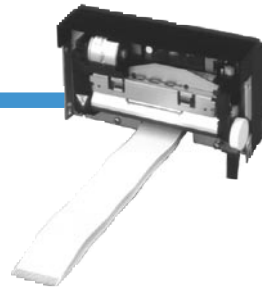
PRU series
●Presenter unit



- PRU-130**
- Model
 - Product number
 - Paper width
3: 80mm
 - Custom code

- < Configuration >
1. Presenter (PR-1)
 2. Auto cutter (ACS230F)
 3. Presenter bracket

PMU series
●Printer mechanism unit



- PMU-230**
- Model
 - Printing method
2: Thermal
 - Paper width
3: 80mm
 - Custom code

- < Configuration >
1. Printer mechanism (LT380V)
 2. Paper guide
 3. Intermediate PCB
 4. Mechanism bracket

BD2 series
●Control board set

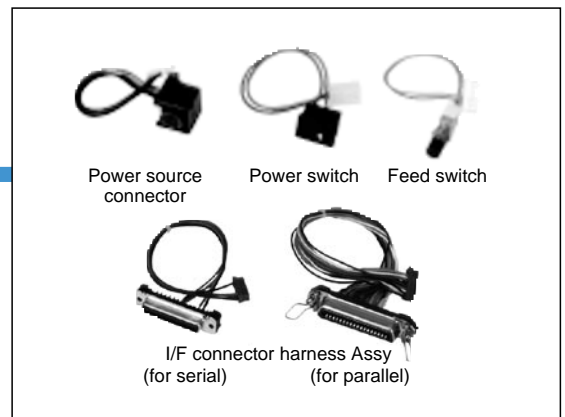


- BD2-380APE**
- Custom code
 - Interface
P: Parallel
R: Serial
 - Character set
K: Japan
U: US
E: Europe

- < Configuration >
1. Main control PCB
 2. Accessories

* Choose I/F connector harness Assy.

●Accessories



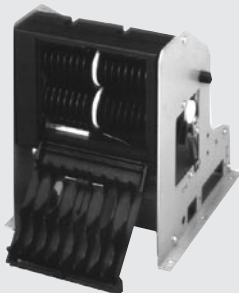
Features

- Easy paper handling — The presenter unit feeds the paper after print and cut.
- Auto paper loading.
- Bar codes printing.
- Capable of loading large diameter roll paper (203ø).
- Both parallel (Centronics) and serial (RS-232C) interfaces available.
- Equipped with a paper end sensor and paper near end sensor.
- AC adapter available.

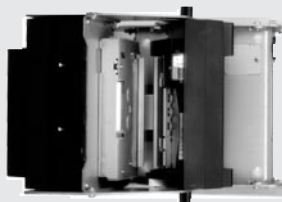
Standard Specifications

Printing method	Line thermal dot printing
Printing width	72mm/576 dots
Dot pitch	8 dots/mm
Printing speed	62.5mm/sec. [Max.] (500 dot lines/sec.)
No. of columns	48 columns (Font A), 64 columns (Font B)
Font size	1.25mm x 3.00mm (Font A: 12 x 24 dots) 0.88mm x 3.00mm (Font B: 9 x 24 dots)
Fonts	Alphanumeric, International characters
Bar codes	UPC-A, JAN (EAN) 13 col./8 col., ITF, CODE39, CODE128, CODABAR
Line spacing	4.23mm (1/6") Selectable by command set (Min. 1/203 inch).
Printing paper	Thermal roll paper Width: 80mm External diameter: ø203mm (with paper holder unit) Internal diameter: ø25.4mm Paper thickness: 60 to 85µm Recommended paper: TF-50KS-E, TF-62KS-E (Nippon Paper Industries)
Presenter	Standard length: 64~305mm (Max. 457mm)
Interface	Serial (RS-232C) or Parallel (Centronics)
Input buffer	4K bytes
Command	ESC/POS
Sensors	Paper near end sensor (adjustable, for PHU series) Paper end sensor (for PMU series) Black mark sensor (option)
Power source voltage	24V±7%
Power consumption	100W
Weight	PPU: 1.6 kg (incl. control PCB) PHU: 0.9 kg (excl. roll paper)
External dimensions	PPU: 153.7 x 160 x 172mm / PHU: 132.2 x 120 x 125.2mm
Operating temperature/humidity	5 to 40°C, 35 to 85%RH (No condensation)
Storage temperature/humidity	-20 to 60°C, 10 to 90%RH (No condensation)
Reliability	Head: 50 million pulses (12.5% printed area) 30 km (normal temperature/humidity with recommended paper) Auto cutter: 300,000 cuts (normal temperature/humidity with recommended paper)

Printer Presenter Unit PPU-231



Presenter unit (opened view)



Presenter unit and printer
(opened view, shown from above)

Easy access for maintenance and cleaning.

Power supply unit



31AD

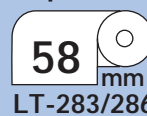
LT-282/283/286

Paper roll

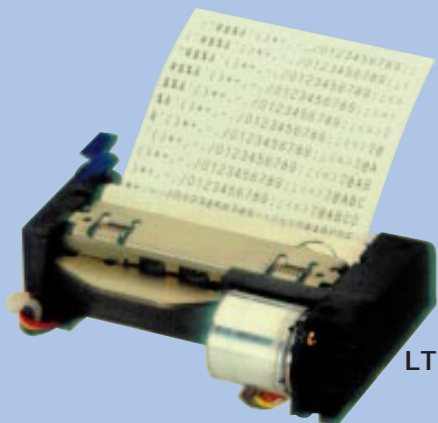


60 mm
LT-282

Paper roll



58 mm
LT-283/286



LT-282/283



LT-286

Features

- Compact design
- Lightweight
- Low noise printing
- High speed printing
- High resolution
- High reliability
- Variety of choice for
 - Paper width (58 or 60mm),
 - Voltage (5 or 24V)
 - Sensor position (rear or bottom)

Accessories

- Control board
 - BD2-2820 (LT-282/283)
 - BD2-2860 (LT-286)
- Control chip/Gate array
 - 202PC-03/202PC-04/202LA-00
- Auto cutter
 - AC-123/123F (LT-282/283)
 - ACS-223 (LT-282/283)
 - ACS-224 (LT-286)

Type Classification

LT-282 H

①②③④

- ① Size
 - 2: 2 inch class
- ② Dot density
 - 8: 8 dot/mm
- ③ Type
 - 2: 60mm, 24V
 - 3: 58mm, 24V
 - 6: 58mm, 5V
- ④ Sensor position (not for LT286)
 - H: Rear
 - V: Bottom

Specifications

Model	LT-282	LT-283	LT-286
Printing method	Line thermal dot printing		
No. of overall dots	448 dots/line	416 dots/line	384 dots/line
Dot density	8 dots/mm		
Print width	56mm	52mm	48mm
Print speed	Max. 500 dot-line/sec.		Max. 400 dot-line/sec.
Paper feed pitch	0.125mm		
Sensors	Head temperature: Thermistor Presence of paper: Photo-interrupter Head-up: Mechanical switch		
Voltage range	Vp system: DC 24V ±5% Vcc system: DC 5V ±5%		DC 4.2 – 8.5V DC 4.75 – 5.25V
Current consumption	Head (Vp): Max. 5.1A Average 0.3A Max. 0.36A Average 0.3A		Max. 3.3A Max. 1.25A Average 0.14A
Printing paper	Width: 60 +0/-1mm Thickness: 60 ~ 72μ		Width: 58 +0/-1mm
Recommended paper	Mitsubishi Paper Mills Limited FP220VP or equivalent		Shin-Oji KF50-HAD
Print head life	Pulse resistance: 50,000,000 pulses (12.5% print) Wear-resistance: 30km or more		50km or more
Operating environment	Temperature: 0 ~ 45°C / Humidity: 35 ~ 85% (No condensing)		
Storage environment	Temperature: -20 ~ 60°C / Humidity: 10 ~ 90%		
External dimensions (W × D × H)	83 × 53 × 20mm		75 × 56.5 × 21mm
Weight	102g		85g

Further Information

Control Board

BD2-2820
BD2-2860
→32P

Control Chip

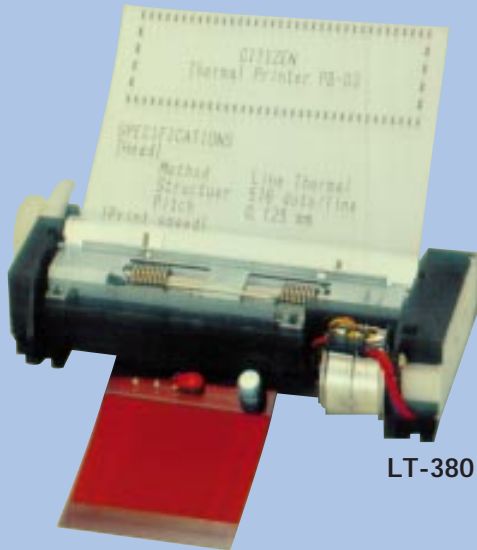
CPU
202PC-03
202PC-04
Gate Array
202LA
→32P

Auto Cutter

AC-120
ACS-220
→33P

LT-380

Paper roll



LT-380

Features

- Compact design
- Lightweight
- Low noise printing
- High speed printing
- High resolution (8 dots/mm)
- High reliability
- 80mm paper width
- 24V operation
- Choice of sensor position
Rear: LT-380H
Bottom: LT-380V

Accessories

- Control board
BD2-3800
- Control chip/Gate array
202PC-01/202LA-00
- Auto cutter
AC-132/132F
AC-133/133F
ACS-232/233

Specifications

	LT-380
Model	LT-380
Printing method	Line thermal dot printing
No. of overall dots	576 dots/line
Dot density	8 dots/mm
Effective printing width	72mm
Printing speed	Max. 500 dot-line/sec.
Paper feed pitch	0.125mm
Motor	4 phase stepping motor / Voltage: 24V DC ±10% / Current: Approx. 150mA
Printing head	Line thermal head / Circuit voltage: 5V DC ±5% 100mA Driving voltage: 24V DC ±5% / Current: 1A
Printing paper	Paper width: 80.00 ± 0.5mm / Recommended thermal paper TF50SK-EY / TF50KS-E2C manufactured by Jujo paper
Sensors	Head temperature sensor: Thermistor Head-up detector: Mechanical switch Paper end detector: Photo interrupter
External dimensions (W × D × H)	101 × 53 × 20mm
Weight	Approx. 135g
Operating environment	Temperature: 5 ~ 40°C Humidity: 35 ~ 80% (No condensing)
Storage environment	Temperature: -20 ~ 60°C Humidity: 10 ~ 90%
Reliability	Head life Pulse resisting property: 50 million pulses Printing distance: 30km

Type Classification

LT-380 H

①②③④

- ① **Size**
3: 3 inch class
- ② **Dot density**
8: 8 dot/mm
- ③ **Type**
0: 80mm, 24V
- ④ **Sensor position**
H: Rear
V: Bottom

Further Information

Control Board

BD-2-3800
→32P

Control Chip

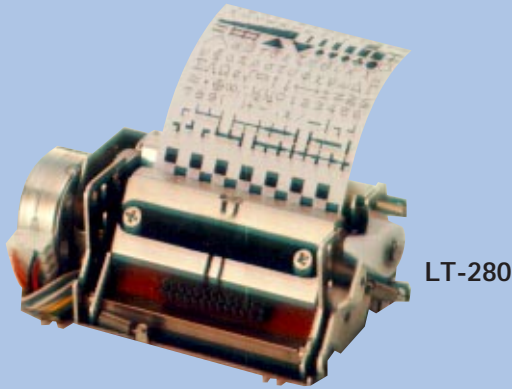
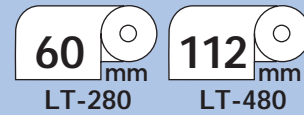
CPU
202PC-01
Gate Array
202LA
→32P

Auto Cutter

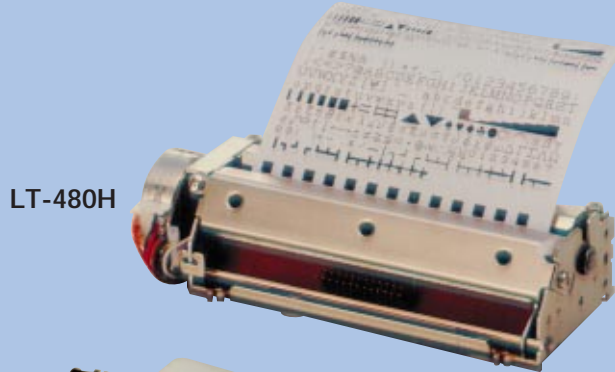
AC-130
ACS-230
→33P

LT-280/480

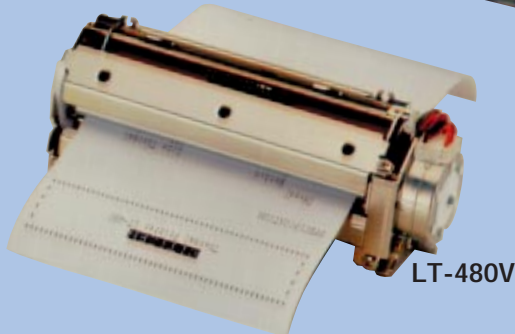
Paper roll Paper roll



LT-280



LT-480H



LT-480V

Features

- Low noise printing
- High speed printing
- High resolution (8 dots/mm)
- High reliability
- Thermal head opening function (LT-280)
- Paper sensors at rear and bottom (LT-280)
- Choice of sensor position (LT-480)
Rear: LT-480H
Bottom: LT-480V

Accessories

- Control board
CBM-202-20 (LT-280)
CBM-202-40 (LT-480)
- Auto cutter
AC-5/5F (LT-280/Guillotine)
AC-7 (LT-280/Rotary)
AC-6P/6F (LT-480)

Type Classification

LT-480 V

①②③ ④

- ① Size
2: 2 inch class
4: 4 inch class
- ② Dot density
8: 8 dot/mm
- ③ Type
280: 60mm, 24V
480: 112mm, 24V
- ④ Sensor position (not for LT-280)
H: Rear
H: Bottom

Specifications

Model	LT-280	LT-480
Printing method	Line thermal dot printing	
No. of overall dots	448 dots/line	832 dots/line
Dot density	8 dots/mm	
Effective printing width	56mm	104mm
Printing speed	Max. 50mm/sec. (400 dot-line/sec.)	
Paper feed pitch	0.125mm	
Voltage	24V DC ±5% (motor and head) / 5V DC ±5% (logic)	
Current	200mA (motor) Max. 11.7A (Head)	
Printing paper	Paper width: 59.5 ± 0.5mm Recommended thermal paper TF50SY-EY TF50KS-E2C manufactured by Jujo paper	Paper width: 111.5 ± 0.5mm Recommended thermal paper TF50SY-EY TF50KS-E2C manufactured by Jujo paper
Sensors	Head temperature sensor: Thermistor Head-up detector: Mechanical switch Paper end detector: Photo interrupter	
External dimensions (W × D × H)	111.5 × 53.5 × 40.8mm	161 × 54 × 36mm
Weight	Approx. 300g	Approx. 450g
Operating environment	Temperature: 5 ~ 40°C Humidity: 35 ~ 80% (No condensing)	
Storage environment	Temperature: -20 ~ 60°C / Humidity: 10 ~ 90%	
Reliability	Head life Pulse resisting property: 50 million pulses Printing distance: 30km	

Further Information

Control Board

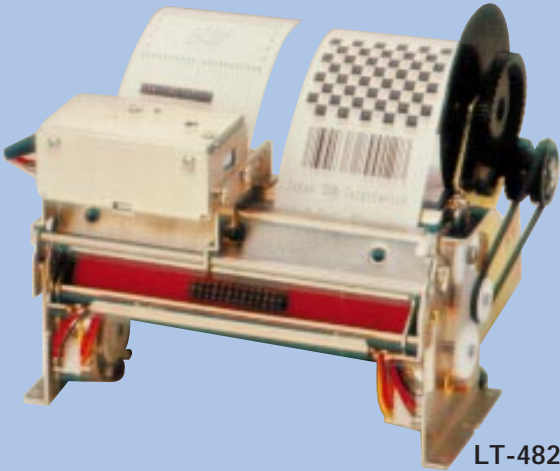
CBM-202-20
CBM-202-40
→32P

Auto Cutter

AC-5/6
→33P

LT-482

Paper roll



LT-482

Features

- 2 station
- Low noise printing
- High speed printing
- High resolution (8 dots/mm)
- High reliability
- 50mm × 2 paper width
- 24V operation

Accessories

- Control board
CBM-202-50PFG (Parallel interface)
CBM-202-50RFG (RS-232C interface)
- Auto cutter
AC-4P/4F (Supplied with mechanism)
- Paper winder
AW-4H/4V

Type Classification

LT-482 C F

①②③④⑤

- ①Size
4: 4 inch class
- ②Dot density
8: 8 dot/mm
- ③Type
482: 2Station, 112mm, 24V
- ④Cutter
C: With Cutter
None: No Cutter
- ⑤Power source
F: Full cut blade
P: Partial cut blade

AW-4 H

①②

- ①Type
4: for LT-482
- ②Shape
H: Horizontal
V: Vertical

Further Information

Control Board

CBM-202-50
→32P

Specifications

	LT-482
Model	LT-482
Printing method	Line thermal dot printing
No. of overall dots	832 dots/line
Dot density	8 dots/mm
Effective printing width	44mm × 2
Printing speed	400 dot-line/sec.
Paper feed pitch	0.125mm
Motor	4 phase stepping motor / Voltage: 24V DC ±5% / Current: 200mA
Printing head	Line thermal head / Circuit voltage: 5V DC ±5% 100mA Driving voltage: 24V DC ±5% / Current: Max. 11.7A
Printing paper	Paper width: 49.5 ± 0.5mm Recommended thermal paper TF50SK-EY TF50KS-E2C manufactured by Jujo paper
Sensors	Head temperature sensor: Thermistor Head-up detector: Mechanical switch Paper end detector: Photo interrupter
External dimensions (W × D × H)	154 × 54 × 72mm
Weight	Approx. 600g
Operating environment	Temperature: 5 ~ 40°C / Humidity: 35 ~ 80% (No condensing)
Storage environment	Temperature: -20 ~ 60°C / Humidity: 10 ~ 90%
Reliability	Head life Pulse resisting property: 50 million pulses Printing distance: 30km

MD-910

Paper roll



MD-910

Features

- Compact design
- Lightweight
- High speed printing
- High reliability
- 58mm paper width
- 5V operation
- Number of columns: MD-910 24 columns
MD-911 40 columns
- Low temperature operating model available (type A)
- Knob model available (vertical or horizontal)

Accessories

- Control board
CBM-909-2D (MD-910)
CBM-909-4D (MD-911)
CBM-919-PF
CBM-919-RF
- Control chip
909PC-2D/F (MD-910)
909PC-4D (MD-911)
- Paper winder
AW-5
(not supported by CBM-909)
- Ink ribbon
IR-91
IR-91L (Long life)

Type Classification

MD-910 - SS A

① ② ③

- ① **Type**
910: 24 columns
911: 40 columns
- ② **Knob**
SS: No knob
HS: Horizontal knob
VS: Vertical knob
- ③ **Special feature**
None: Regular model
A: Cold temperature model

Specifications

Model	MD-910	MD-911
Printing method	Serial impact dot matrix	
Printing direction	One-way printing	
Printing speed	Approx. 2.5 lines/sec.	Approx. 1.8 lines/sec.
No. of columns	24 columns: 144 dots/line	40 columns: 180 dots/line
Font	(5+1) × 7	(4+0.5) × 7
No. of wires	4 × 2	
Character size (W × H)	Approx. 1.7 × 2.4mm	Approx. 1.1 × 2.4mm
Character pitch	1.98mm (Interval of columns) 4.23mm (Interval of lines)	1.19mm (Interval of columns) 4.23mm (Interval of lines)
Motor	Voltage: 5.0 ^{+0.2} V DC / Peak current: Approx. 1A / Average current: 0.3A max.	
Dot pulse sensor	Photo interrupter	
Home pulse sensor	Leaf switch	
Printing sensor	Voltage: 5.0 ^{+0.2} V DC / Resistance: 1.7 ± 0.3Ω (25°C)	
Paper feed solenoid	Voltage: 5.0 ^{+0.2} V DC / Resistance: 9 ± 2Ω (25°C)	
Connecting method	Copper foil patterns at 2.54mm pitch.	
Drive voltage	3.5 ~ 5.5V DC	
Printing paper	57.5 ± 0.5mm	
Copy	Original print + 1 copy	
Ink ribbon	Special ribbon cartridge of black or purple	
Paper feed speed	Approx. 5 lines/sec.	Approx. 3.6 lines/sec.
External dimensions (W × D × H)	90 × 45.5 × 16mm	
Weight	105g ± 10%	
Operating temperature	0 ~ 50°C	
Storage temp. range	-25 ~ 70°C	
Reliability	MCBF: 1.5 million lines	MCBF: 1.0 million lines

Further Information

Control Board



DP-400

Paper roll



DP-400

Features

- Very compact design
- Lightweight
- High speed printing
- High reliability
- 2 color printing (black/red)
- 76mm paper width
- 42 columns
- 24V operation
- Graphic printing (DP-410)
- Sprocket feed model available
- Sensor for paper auto loading
- Black mark sensor (option)

Accessories

- Auto cutter
ACS-234
- Ink ribbon
IR-41
- Control board available soon
- Paper winder available soon

Type Classification

DP-410 D F

- ①Type
400: 7 pin head
410: 9 pin head
- ②Ribbon
D: 2 color
- ③Paper feed method
F: Friction feed

Further Information

Auto Cutter

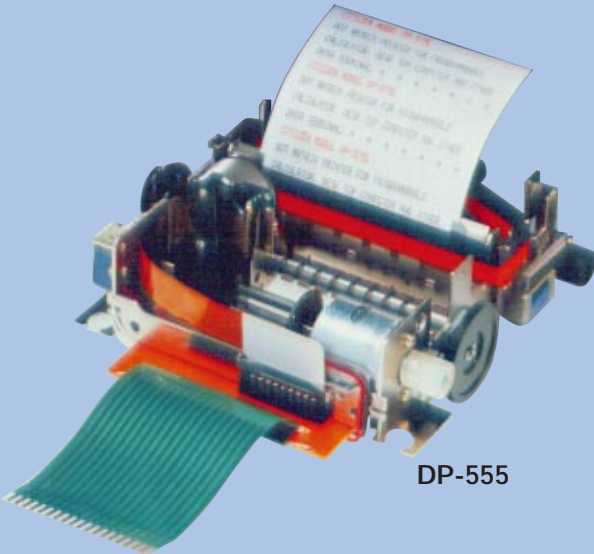
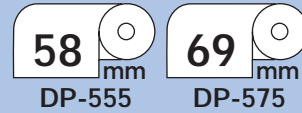
ACS-230
→33P

Specifications

Model	DP-400	DP-410
Printing method	Serial impact dot matrix	
Printing direction	Bi-directional	
Printing speed	Approx. 3 lines/sec.	
No. of columns	42 columns, 189 dots/line	
Font	7 × 7	7 × 9
No. of wires	7 pins	9 pins
Character size (W × H)	1.31 × 2.4mm	1.31 × 3.1mm
Character pitch	1.52mm	
Line spacing	4.23 or 2.82mm (1/6 or 1/9 inch) / Minimum 1.41mm (1/18 inch)	
Motor	Voltage: 24V ±5% V DC / Current: Peak Approx. 1A / Average less than 0.2A	
Reset pulse sensor	Photo interrupter	
Dot pulse sensor	Photo interrupter	
Home position sensor	Photo interrupter	
Paper out sensor	Photo interrupter	
Black mark sensor (option)	Photo interrupter	
Printing solenoid	Voltage: 24V ±5% V DC / Resistance: 17Ω (25°C)	
Printing feed solenoid	Voltage: 24V ±5% V DC / Resistance: 34Ω (25°C)	
Color change solenoid	Voltage: 24V ±5% V DC / Resistance: 34Ω (25°C)	
Connecting method	FFC or FPC cable	
Paper feed	Friction feed or sprocket feed	
Printing paper	Friction feed: 76 ±0.5 × ø83mm / Sprocket feed: 76mm fanfold paper	
Copy	Friction feed: original + 1 copy / Sprocket feed: original + 2 copies	
Ink ribbon	Exclusive ink ribbon cartridge / 2 color (Black/red), black or purple	
Paper feed speed	Approx. 28 lines/sec.	
External dimensions (W × D × H)	120 × 90 × 45mm	
Weight	Approx. 470g	
Operating temp. range	0 ~ 50°C	
Storage temp. range	-20 ~ 70°C	
Reliability	Mechanism: MCBF 2.5 million lines / Head: 80 million characters	

DP-505

Paper roll Paper roll



DP-555

Features

- Compact design
- Lightweight
- 2 color printing (black/red)
- Paper width/Number of columns
DP-555 58mm/24 columns
DP-575 69mm/40 columns
- 12V operation
- Graphic model available (G type)
- 2 station model available
(DP-535: 17 columns×2)
- Cassette ribbon type available (A type)

Accessories

- Control board
CBM-505PF (Parallel interface)
CBM-505RF (Serial interface)
- Control chip
505PC-2A/2O
- Auto cutter/Paper winder
AC-3/3F
NW-58 (DP-555)
NW-69 (DP-575)
(not supported by CBM-505)
- Ink ribbon
IR-01

Type Classification

DP-575 L 12 A

① ② ③ ④

- ① **Type**
555: 24 columns
575: 40 columns
- ② **Printing direction**
L: Left to right
R: Right to left
- ③ **Voltage**
12:12V
17:17V
- ④ **Special feature**
None: Regular model
A: Cassette ribbon model

Specifications

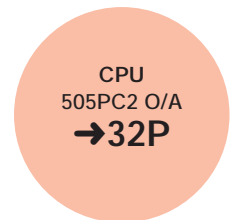
Model	DP-555	DP-575
Printing method	Serial dot impact method	
Printing direction	L Series Left to right (Horizontal) R Series Right to left (Horizontal)	
Printing speed	Approx. 1.9 lines/sec.	Approx. 1.2 lines/sec.
No. of columns	24 columns	40 columns
Font	5 × 7 matrix	
Character size (W × H)	1.7 × 2.75mm	1.25 × 2.75mm
Character pitch	2mm	1.5mm
Line spacing	5.5mm	
Motor	Voltage: 12V ±1V DC / Peak current: Approx. 2.5A (12V, 25°C) Average current: Approx. 0.25A	
Dot pulse sensor	Photo interrupter	
Home switch	Voltage: 5V DC ~ 20V DC / Current: 100µA ~ 3mA (Resistance load)	
Printing solenoid	Voltage: 12V ±1V DC / Resistance: 4.9±0.5Ω (25°C) Energized time: 2 dot pulses (700±50µS) / Peak current: Approx. 2A	
Main solenoid	Voltage: 12V±1V DC / Resistance: 18.4±1Ω (25°C) Energized time: 16ms±10% (Max. of 5 continuous seconds)	
Color change solenoid	Voltage: 12V±1V DC / Resistance: 18.4±1Ω (25°C) Energized time: 20±2ms (Max. of 5 continuous seconds)	
Connecting method	Flexible cable (SMCD 18 × 91 ES10)	
Ink ribbon	Color 2 colors (Red and black), black or purple Spool diameter: 30ms or 35mm, width: 13mm	
Paper feeding speed	Approx. 8 lines/sec.	
Printing paper	57.5 ± 0.5mm	69 + 1mm
External dimensions (W × D × H)	120.5 × 114 × 44.5mm	
Weight	Approx. 450g	
Operating temp. range	0 ~ 50°C	
Paper feed traction	More than 100g (Citizen recommended paper)	
Reliability	Printer mechanism MCBF: 1.5 million lines / Dot head 50 million characters	

Further Information

Control Board



Control Chip

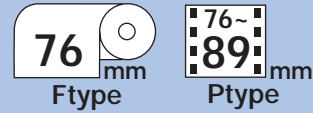


Auto Cutter



DP-600

Paper roll Sproket



Features

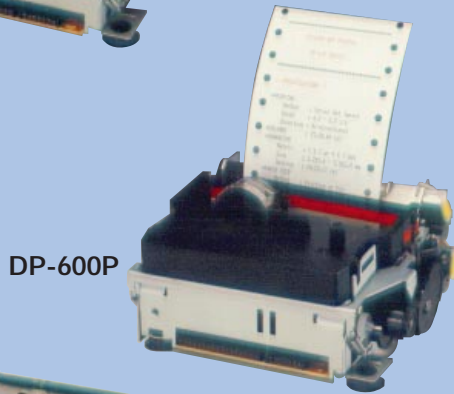
- High speed printing
- High reliability
- 2 color printing (black/red)
- 76mm paper width
- Number of columns: DP-610 23 columns
DP-612 28 columns
DP-614 40 columns (360 dots)
DP-617 40 columns (400 dots)
- 24V operation
- Sprocket feed model available (P type)
- Graphic model available (G type)
- No platen model available (H type)
- Faster models available (DP-654=3.6L/S)

Accessories

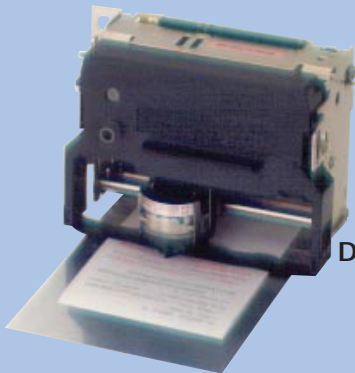
- Control board
CBM-606PF (Parallel interface)
CBM-606RF (Serial interface)
- Auto cutter
AC-2/2F
AC-134/134F
- Paper winder
AW-2FA
- Ink ribbon
IR-61



DP-600F



DP-600P



DP-600H

Specifications

Model	DP-610	DP-612	DP-614	DP-617
Printing method	Serial dot impact method			
Printing direction	Bidirectional			
Printing speed	Approx. 4.0 lines/sec.	Approx. 3.5 lines/sec.	Approx. 3.0 lines/sec.	Approx. 2.4 lines/sec.
No. of columns	23 columns, 230 dots/line	28 columns, 280 dots/line	40 columns, 360 dots/line	40 columns, 400 dots/line
Font	7 × 7 matrix			
Character size (W × H)	1.8 × 2.4mm	1.5 × 2.4mm	1.36 × 2.4mm	1.2 × 2.4mm
Line spacing	1/6 inch			
Motor	Voltage: 24V DC $\frac{1}{2}$ V DC / Peak current: Max. 21A (12V, 25°C) Average current: Approx. 0.2A or less			
Dot pulse sensor	Photo interrupter			
Home position sensor	Photo interrupter			
Paper feed motor	Voltage: 24V DC $\frac{1}{2}$ V DC / Resistance: 48Ω (25°C) Driving pulse width: 30 DP, Approx. 20ms			
Printing solenoid	Voltage: 24V ±1V DC / Resistance: 17Ω (24V DC, 25°C)			
Color change solenoid	Voltage: 24V DC $\frac{1}{2}$ V DC / Resistance: 48Ω (24V DC, 25°C)			
Connector terminals	Connector 1 (MMP17R-1: Counterpart MMH17-1 manufactured by BURNDY) Connector 2 (MMP7R-1: Counterpart MMH7-1 manufactured by BURNDY)			
Paper feed	Friction feed or sprocket feed			
Printing paper	Friction feed: 76mm Roll paper × ø83mm / Sprocket feed: 76 – 89mm fanfold paper			
Copy	Friction feed: original + 1 copy / Sprocket feed: original + 2 copies			
Paper feed power	More than 100g (Citizen recommended paper)			
Ink ribbon	Two colors (Red and black) / Single color (Black or purple)			
Paper feed speed	Approx. 25 lines/sec.	Approx. 21 lines/sec.	Approx. 18 lines/sec.	Approx. 15 lines/sec.
External dimensions (W × D × H)	Two colors: 137 × 136 × 63.5mm / Single color: 134 × 136 × 63.5mm			
Weight	Approx. 690g			
Operating temp. range	0 ~ 50°C			
Reliability	Printer: MCBF 4.0 million lines / Head: 80 million characters			

Type Classification

DP-614 D F C V
① ② ③ ④ ⑤

- ① Type
610: 23 columns
612: 28 columns
614: 40 columns (360dots)
617: 40 columns (400dots)
- ② Ribbon
D: 2 color
M: 1 color
- ③ Paper feeding method
F: Friction feed
P: Sprocket feed
- ④ Character / Graphic
C: Character only
G: Graphic
- ⑤ Validation sensor
None: No validation
V: Equipped

Further Information

Control Board

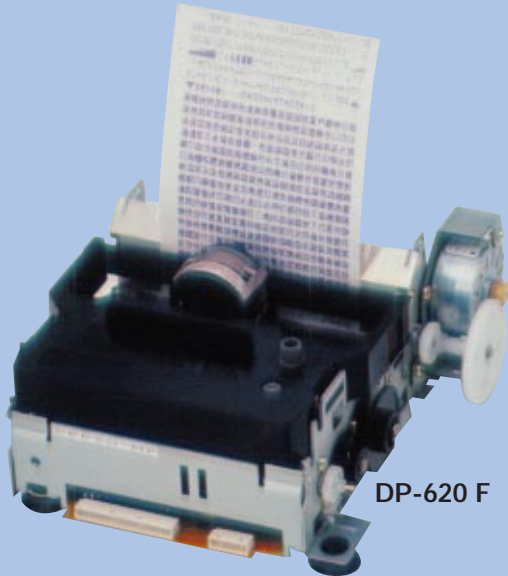
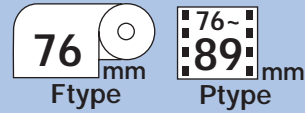
CBM-606
→32P

Auto Cutter

AC-2
AC-130
→33P

DP-620

Paper roll Sproket



DP-620 F

Features

- High speed printing
- High reliability
- 2 color printing (black/red)
- Graphic printing
- 76mm paper width
- Number of columns: DP-622 28 columns
DP-624 40 columns (360 dots)
DP-627 40 columns (400 dots)
- 24V operation
- Sprocket feed model available (P type)

Accessories

- Control board
CBM-626PF (Parallel interface)
CBM-626RF (Serial interface)
- Auto cutter
AC-134/134F
- Paper winder
AW-2FA
- Ink ribbon
IR-61

Type Classification

DP-624 M P C S
① ② ③ ④ ⑤

- ① **Type**
622: 28 columns
624: 40 columns (360 dots)
627: 28 columns (400 dots)
- ② **Ribbon**
M: 1 color
- ③ **Paper feeding method**
F: Friction feed
P: Sprocket feed
- ④ **Copy capability**
None: standard
C: 4 copies
- ⑤ **Auto loading sensor**
None: No sensor
S: with sensor

Further Information

Auto Cutter

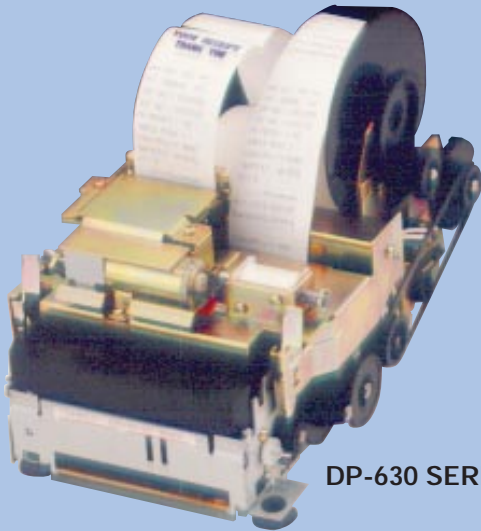
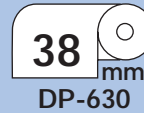
AC-130
→33P

Specifications

Model	DP-622	DP-624	DP-627
Printing method	Serial dot impact method		
Printing direction	Bidirectional		
Printing speed	Approx. 4.2 lines/sec.	Approx. 3.6 lines/sec.	Approx. 3.0 lines/sec.
No. of columns	28 columns, 280 dots/line	40 columns, 360 dots/line	40 columns, 400 dots/line
Font	7 × 7 matrix		
Character size (W × H)	1.5 × 2.4mm	1.36 × 2.4mm	1.2 × 2.4mm
Line spacing	Min. 1/144 inch		
Motor	Voltage: 24V DC ^{±1} V DC / Peak current: Max. 1.5A Average current: Approx. 0.3A or less		
Dot pulse sensor	Photo interrupter		
Home position sensor	Photo interrupter		
Paper feed motor	4 shase 48 poles permanent magnet type stepping motor 24V DC ±10% (Drive voltage) / 5V DC ±15% (Hold voltage) Mean current: Approx. 300mA / Hold current: Approx. 150mA		
Printing solenoid	Voltage: 24 ±1V DC / Resistance: 17Ω (24V DC, 25°C)		
Connector terminals	Connector 1 (53156-1710, Connector part 51049-1700, Morex) Connector 2 (53015-0510, -51004-0600 M) Connector 3 (51004-0600, -53014-0610 M)		
Paper feed	Friction feed or sprocket feed		
Printing paper	Friction feed: 76mm roll paper × ø83mm / Sprocket feed: 76 ~ 89mm fanfold paper		
Copy	Friction feed: original + 1 copy / Sprocket feeds: original + 2 copies		
Paper feed power	More than 100g (Citizen recommended paper)		
Ink ribbon	Single color (Black or purple)		
Paper feed speed	Approx. 25 lines/sec.		
External dimensions (W × D × H)	140.9 × 153.2 × 63.5mm		
Weight	Approx. 730g		
Operating temp. range	0 ~ 50°C		
Reliability	Printer: MCBF 5.0 million lines / Head: 80 million characters		

DP-630/730

Paper roll Paper roll



Features

- 2 station printer mechanism (Receipt and Journal)
- Validation printing (option)
- High speed printing
- High reliability
- 24V operation
- Variety of options

Options

- Validation sensor
- Auto cutter
- Paper winder
- Paper near end sensor
- Mark sensor
- Stamp

Accessories

- Winder
PW-2 (DP-630)
- Ink ribbon
IR-61 (DP-630)
IR-71 (DP-730)



Type Classification

DP-630 V S C

① ② ③

- ① **Validation sensor**
V: Equipped
None: No validation sensor
- ② **Stamp**
S: Equipped
None: No stamp
- ③ **Cutter**
C: Equipped
None: No cutter

PW-2 V S

① ②

- ① **Near end sensor**
S: Journal side
W: Both side
N: No sensor
- ② **Shape**
H: Horizontal
V: Vertical

DP-730F R C B

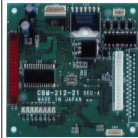
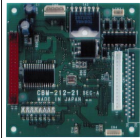

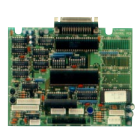
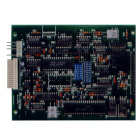


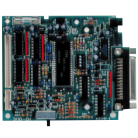
① ② ③

- ① **Validation sensor**
R: No validation sensor
M: Multi-line validation sensor
P: 1 line L/R sensor
None: 1 line right sensor
- ② **Cutter**
C: Equipped
None: No cutter
- ③ **Stamp/Winder**
None: No stamp/winder
B: Both equipped
S: Stamp only
W: Winder only




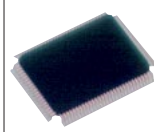



Specifications

	DP-630	DP-730
Model	DP-630	DP-730
Printing method	Serial impact dot matrix	
Printing direction	Bi-directional	
Font	7 × 7 matrix	7 × 7 or 9 × 7 matrix
No. of columns (validation)	18 columns × 2 (40 columns)	24 columns × 2 (55 columns)
No. of total dot/line (half dot)	180 (360) dots	248 (495) dots
No. of wires	9 pins (dot pitch 0.353mm)	
Printing speed	Approx. 3 lines/sec.	
Character size (W × H)	1.36 × 2.4mm	1.36 × 2.4mm or 1.36 × 3.1mm
Line spacing	5.08mm	4.23mm (1/6 inch)
Character pitch	Character = 1.59mm	
Ink ribbon	Exclusive ink ribbon cartridge (single color, black or purple) IR-61	IR-71
Motor	Voltage: 24V +1/-2V DC Current: Peak Approx. 1A Average less than 0.2A	Voltage: 24V ±10% Current: Peak Approx. 2.5A Average less than 0.45A
Reset pulse sensor	Mechanical leaf switch	
Dot pulse sensor	Photo interrupter	
Home position sensor	Photo interrupter	
Printing solenoid	Voltage: 24V±1V DC Resistance: 17Ω	Voltage: 24V±10% Resistance: 10.5Ω±10%
Paper feed solenoid	Voltage: 24V +1/-2V DC Resistance: 32Ω±10%	Voltage: 24V±10% Resistance: 34Ω±10%
Connecting method	Pin connector	
Paper feed	Friction feed	
Printing paper		
Receipt and journal	37-38mm Outer dia Max. ø83mm	44.5±0.5mm Outer dia Max. ø83mm
Validation	135-210 (W) × 70 (H) mm	
Paper feed speed	18 lines/sec.	30 lines/sec.
External dimensions (W × D × H)	134 × 136 × 63.5mm	151 × 234.6 × 123.7mm
Weight	Approx. 690g	Approx. 1,250g
Operating temp. range	0 ~ 50°C	
Storage temp. range	-25 ~ 70°C	
Reliability		
Mechanism	MCBF 2.5 million lines	MCBF 4 million lines
Head	50 million characters	100 million characters


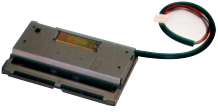


Control Boards

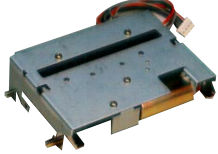
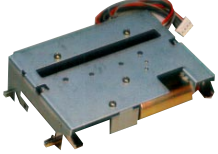
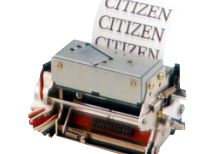

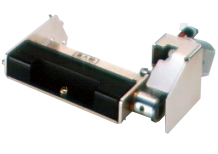
								
Model	BD2-2820	BD2-2860	BD2-3800	CBM-202	CBM-505	CBM-606	CBM-909	CBM-919
Printer mechanism	LT-282/283	LT-286	LT-380	LT-280/480/482	DP-555/575	DP-610/612/614/617	MD-910/911	MD-910/911
Auto cutter	ACS-223	ACS-224	AC-132 AC-133 ACS-232 ACS-233	AC-5 (LT-280) AC-6 (LT-480) AC-4 (LT-482)		AC-2 AC-134		
Winder						AW-2FA		
Interface	Parallel and RS-232C	Parallel and RS-232C	Parallel and RS-232C	Parallel or RS-232C	Parallel, RS-232C, Current loop or TTL	Parallel, RS-232C, Current loop or RS-422	Parallel and serial	Parallel or RS-232C
Command set	ESC/POS	ESC/POS	ESC/POS	Unique	CBM standard	CBM standard	Unique	CBM standard
No. of columns	LT-282/Font A: 37 LT-283/Font A: 34 LT-282/Font B: 49 LT-283/Font B: 46	Font A: 32 Font B: 42	Font A: 42 or 48 Font B: 56 or 64	LT-280: 28 LT-480: 52 LT-482: 22x2	DP-555: 24 DP-575: 40	DP-610: 23 DP-612: 28 DP-614: 40 DP-617: 40	MD-910: 24 MD-911: 40	MD-910: 24 MD-911: 40
Font	Font A: 12x24 dots Font B: 9x17 dots	Font A: 12x24 dots Font B: 9x24 dots	Font A: 12x24 dots Font B: 9x17 dots	16x32 dots	5x7 dots	7x7 dots (including half dot)	MD-910: 5x7 MD-911: 4x7 (including half dot)	MD-910: 5x7 MD-911: 4x7 (including half dot)
Buffer	4K or 72 bytes	2k bytes	3K or 72 bytes	1 line	1 line	7K bytes or 2 lines	1 line	2k bytes
Supporting devices	Auto cutter Paper sensor Head-up sensor LF switch Error LED Paper out LED	Auto cutter Paper sensor Head-up sensor LF switch Error LED Paper out LED	Auto cutter Paper sensor Head-up sensor LF switch Error LED Paper out LED	Auto cutter Paper sensor Head-up sensor LF switch SEL switch On-line LED	—	Auto cutter Auto winder Paper end sensor LED's (Power/Error/ On-line) Switches (LF/On-line)	LF switch On-line switch	LF switch On-line switch
Dimensions	80x80mm	80x80mm	80x80mm	150x118mm	135x95mm (PF) 155x119mm (RF)	114x152mm	80x55.5mm	90x55.5mm
Source voltage	5.0±5% and 24V±5%	5.0±5%	5.0±5% and 24V±5%	5.0±5% and 24V±5%	5V±5% and 13±1.0V	5.0±5% and 24±1.0V	4.0 +0.7/-1.0V	7V±1V
Custom control chip	202PC-03	202PC-04	202PC-01	—	PC-2A/2O	—	909PC-2D/4D	—
Gate array	202LA-00	202LA-00	202LA-00	—	—	—	—	—

Control Chips/Gate Array

Type	Control chip	Control chip	Control chip	Gate array	Control chip	Control chip	Control chip
Model	202PC-01	202PC-03	202PC-04	202LA-00	PC-20 PC-2A	909PC-2D 909PC-4D	909PC-2F
							
Printer mechanism	LT-380	LT-282/283	LT-286	LT-series	DP-555/575	MD-910/911	MD-910/911

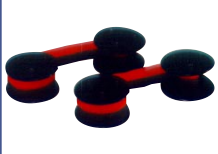

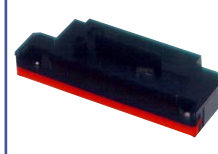
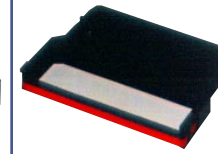
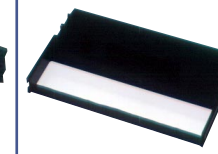

Cutters

	AC-120	AC-130	ACS-220	ACS-230
				
Cutting method	Guillotine	Guillotine	Slide cutting	Slide cutting
Paper width thickness	38 — 69 mm 0.06 — 0.09 mm	50 — 89 mm 0.06 — 0.09 mm	45 — 69 mm 0.06 — 0.15 mm	50 — 89 mm 0.06 — 0.15 mm
Max. cutting frequency	20 cut/min	20 cut/min	20 cut/min	20 cut/min
Voltage*	24V ±10%	24V ±10%	24V ±10%	24V ±10%
Current (peak)	0.8A	0.8A	0.8A	0.8A
Operating temperature	0 — 45°C	0 — 45°C	0 — 45°C	0 — 45°C
Size	80 × 57 × 15 mm	102 × 57 × 15 mm	80 × 55.7 × 15 mm	102 × 55.7 × 15 mm
Weight	130g	160g	140g	180g
Reliability	300,000 cuts	300,000 cuts	500,000 cuts	500,000 cuts
Number of tab left (F)ull cut blade type (P)artial cut blade type	0 or several tabs 1 or several tabs	0 or several tabs 1 or several tabs	0 or 1 tabs —	0 or 1 tabs —
Applicable mechanism (Cutter model name with mounting bracket and paper guide)	LT-282 (AC-123) LT-283 (AC-123)	LT-380 (AC-132) LT-380 (AC-133) DP-6xx (AC-134)	LT-282 (ACS-223) LT-283 (ACS-223) LT-286 (ACS-224) LT-280 (ACS-229)	LT-380 (ACS-232) LT-380 (ACS-233) DP-400 (ACS-234)

	AC-2	AC-3	AC-5	AC-6	AC-7
					
Cutting method	Guillotine	Guillotine	Guillotine	Guillotine	Rotary
Paper width thickness	76 ±0.5 mm Ma 0.06 — 0.085 mm	76 ±0.5 mm Ma 0.06 — 0.085 mm	59.5 ±0.5 mm 0.065 mm	111.5 ±0.5 mm 0.065 mm	59.5 ±0.5 mm 0.15 mm
Max. cutting frequency	20 cut/min	20 cut/min	6 cut/min	6 cut/min	10 cut/min
Voltage*	24V ±10%	12V ±10%	24V ±10%	24V ±10%	24V ±10%
Current (peak)	0.8A	1.2A	1.3A	1A	1.3A
Operating temperature	0 — 40°C	0 — 40°C	5 — 40°C	5 — 40°C	5 — 40°C
Size	99 × 74 × 30 mm	93 × 74 × 25 mm	70 × 55 × 31.7 mm	130 × 55 × 21.5 mm	96.5 × 85.5 × 40 mm
Weight	200g	200g	160g	260g	150g
Reliability	300,000 cuts	300,000 cuts	300,000 cuts	300,000 cuts	500,000 cuts
Number of tab left (F)ull cut blade type (P)artial cut blade type	0 or 2-5 tabs 1 or 3-5 tabs	0 or 2-5 tabs 1 or 3-5 tabs	1 tabs 8 tabs	1 tabs —	0 tabs —
Applicable mechanism (Cutter model name with mounting bracket and paper guide)	DP-6XX (AC-2)	DP-5XX (AC-3)	LT-280 (AC-5)	LT-480 (AC-6)	LT-280 (AC-7)

* For some models, other voltages are also available.

Ribbons

					
IR-01 RB/BL/P For DP-505	IR-41 RB/B/P For DP-400	IR-51 RB/B/P For IDP-562	IR-61 RB/B/P For DP-6xx	IR-71 P For DP-730	IR-91 P/B IR-91 L (long life) For MD-910/911

Winders

	
NW-58 for DP-555 NW-69 for DP-575	AW-5 for MD-910

Drawers


7XXDR For CBM-7XX Series 23XXDR For other models

Customer Display



Specification

Display method	Vacuum fluorescent display
Display color	Blue green
Number of character	20 columns x 2 lines
Brightness	700 cd/m2
Character font	5 x 7 dot matrix, comma, decimal point
Character size	9.2 x 5.25 mm
Character pitch	8.3 mm
Code page	PC-437 / 850 / 860 / 863 / 865, Slavonic, Russian, Katakana
Emulation	CBM standard, ESC/POS
Interface	RS-232C (with path through function)
Power supply	12V DC
Power consumption	4.5 W
MTBF	25,000 hours
Dimension	230(W) x 100(H) x 42(D) mm
Viewing angle	±30 degrees
Rotation angle	Maximum 270 degrees
Weight	0.9 kg
Safety	FCC class B, CE

Included items

- Display unit
- Base unit
- Short pole
- Long pole
- AC adapter
- AC cable
- Interface cable (DB25 female - DB9 male)
- User's manual

Accessory Reference Table

COMPLETE PRINTERS											
MODEL		CBM-23X CBM-253 CBM-262 iDP-3221	iDP-3420 iDP-3421 iDP-3423	iDP-3550 iDP-3551	DP-460	iDP-562	iDP-3110 iDP-3111 CBM-910 CBM-920	CBM-510 CBM-520	CBM-710 CBM-720	CBM-750	CBM-820
RIBBON	IR-01RB/B/P							•			
	IR-41RB/B/P		•		•						
	IR-51RB/B/P					•					
	IR-61RB/B/P			•					•	•	
	IR-71P										
	IR-82P										•
	IR-91B/P						•				
WINDER	NW-58										
	NW-69										
	AW-2							•			
	AW-2FA										
	AW-3			•							
	AW-4										
	AW-5										
DRAWER	7XXDR							•	•		
	23XXDR	•	•	•	•						•

PRINTER MECHANISMS											
MODEL		MD-910	DP-400	DP-505	DP-600 DP-620	DP-730	LT-280	LT-282 LT-283 LT-286	LT-380	LT-480	LT-482
RIBBON	IR-01RB/B/P			•							
	IR-41RB/B/P		•								
	IR-51RB/B/P										
	IR-61RB/B/P				•						
	IR-71P					•					
	IR-82P										
	IR-91(L)P/B	•									
CUTTER	AC12X							•			
	AC13X				•				•		
	AC-22X						•	•			
	AC-23X		•						•		
	AC-2				•						
	AC-3			•							
	AC-5						•				
	AC-6									•	
AC-7						•					
WINDER	NW-58			•							
	NW-69			•							
	AW-2										
	AW-2FA		•		•						
	AW-3										
	AW-4										•
	AW-5	•									

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