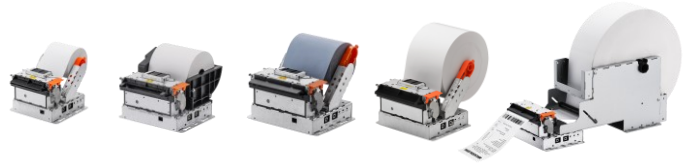


# Kiosk & Mechanism



		BK5-31
<b>Print Characteristics</b>		
Print Method	Direct Thermal	
Print Speed	Up to 150 mm/sec	
Print Resolution	203 dpi	
Print Width	12/48/54/72/ 80 mm	
Sensor	Paper End, Cover Open, Near End, Black Mark, Gap Sensor	
<b>Media Characteristics</b>		
Media Type	Ticket, Label (Gap, Black Mark)	
Media Width	20/58/60/80/83 mm	
Media Roll Diameter	130/150 mm	
Media Thickness	Width 80/83mm: 0.1 ~ 0.15 mm Width 20/58/60mm: 0.1 ~ 0.20 mm	
Supply Method	Easy Paper Loading	
<b>Physical Characteristics</b>		
Dimensions (W x L x H)	Φ130 130 x 181 x 123 mm	Φ150 130 x 188 x 130 mm
Weight	780 g	
Electrical	100-240 VAC, 50/60 Hz	
Lever Direction	Right	
Mount Direction	Horizontal	
<b>Performance Characteristics</b>		
NV Image Memory	256 Kbytes (Mono)	
Receive Buffer	64 Kbytes	
User Define Buffer	12 Kbytes	
Interface	USB V2.0 FS + Serial	
Connector Type	Power	DC-Jack or 2P Connector
	USB	USB B or 4P Connector
	Serial	9P Male or 5P Connector
<b>Environment Characteristics</b>		
Temperature	Operating: -20~60 °C (-4~140 °F) ※ Optimal printing performances and maximum reliability will be obtained between 0 and 40 °C Storage: -20~60 °C (-4~140 °F)	
Humidity	Operating: 10~95 % (non-condensing) Storage: 10~95 % (non-condensing) excluding paper	
<b>Software</b>		
Emulation	BXL/POS™	
Driver/Utility	Windows® Driver, OPOS Driver, Linux/Mac® CUPS Driver, Utility Program	
Developer Tools	Android SDK, Windows SDK, Linux SDK, Web Print SDK (Windows, Android)	
<b>Fonts/Graphics/Symbolologies</b>		
Character Size	Font A: 12×24 Font B: 9×17 Font C: 9×24 KOR, CHN, JPN: 24x24	
Characters Per Line	Print width 12 mm: Font A: 8 Font B, C: 10, KOR, CHN, JPN: 4 Print width 48 mm: Font A: 32 Font B, C: 42, KOR, CHN, JPN: 16 Print width 54 mm: Font A: 36 Font B, C: 48, KOR, CHN, JPN: 18 Print width 72 mm: Font A: 48 Font B, C: 64, KOR, CHN, JPN: 24	
Character Sets	Alphanumeric: 95 Extended Graphics: 128×35 page International: 32	
Graphics	Supporting user-defined fonts, graphics, formats and logos	
Barcode Symbolologies	1D: Coda Bar, Code 39, Code 93, Code 128, EAN-8, EAN-13, ITF, UPC-A, UPC-E 2D: Data Matrix, GS1-128, GS1 DataBar Stacked/Omnidirectional/Truncated/Limited/Expanded, PDF417, QR code	
<b>Accessories/Supplies</b>		
Accessories	AC/DC Adapter (DC Jack) AC/DC Adapter (2P Connector) Male to Male type Serial Cable 5P to Male type Serial Cable USB A-B Cable 1.8 m Power Cord	
<b>Options</b>		
Bezel	Non-Bezel, Standard-Bezel (4 types)	
	Paper Stock Direction	Upper
	Media Width	58/60/80 mm
	Media Thickness	0.10 ~ 0.15 mm
	Media Length	70 ~ 350 mm
Retractor (For ticket printing only)	Ejection & Retractor Speed	Eject: Up to 150 mm/sec Retractor: Up to 500 mm/sec
	Basic Movement	Retraction, Continuous

# Kiosk & Mechanism



		BK3-31 Series				BK3-21		
<b>Print Characteristics</b>								
Print Method		Direct Thermal				Direct Thermal		
Print Speed		Up to 250 mm/sec				Up to 250 mm/sec		
Print Resolution		203 dpi				203 dpi		
Print Width		12/48/54/72 mm				12/48/54 mm		
Sensor		Paper End, Cover Open, Near End, Black Mark				Paper End, Cover Open, Near End, Black Mark		
<b>Media Characteristics</b>								
Media Type		Receipt				Receipt		
Media Width		20/58/60/80/83 mm				20/58/60 mm		
Media Roll Diameter		BK3-31/34: 80/102/120/150 mm BK3-32: Up to 250 mm BK3-33: Up to 83 mm				80/102/120 mm		
Media Thickness		0.05 ~ 0.12 mm				0.05 ~ 0.12 mm		
Supply Method		Easy Paper Loading				Easy Paper Loading		
<b>Physical Characteristics</b>								
Dimensions (W x L x H)		BK3-31/34 Φ80                      Φ102                      Φ120                      Φ150 130 x 130 x 91 mm    130 x 137 x 99 mm    130 x 144 x 105 mm    130 x 160 x 105 mm BK3-31/34 (Vertical) Φ80                      Φ102                      Φ120                      Φ150 130 x 159 x 91 mm    130 x 167 x 99 mm    130 x 173 x 105 mm    130 x 189 x 105 mm				BK3-21 Φ80                      Φ102                      Φ120 109 x 130 x 91 mm    109 x 137 x 99 mm    109 x 144 x 105 mm BK3-21 (Vertical) Φ80                      Φ102                      Φ120 109 x 160 x 91 mm    109 x 167 x 99 mm    109 x 173 x 105 mm		
Weight		BK3-31/34: 700 g BK3-32: 1,470 g BK3-33: 700 g				600 g		
Electrical		100-240 VAC, 50/60 Hz				100-240 VAC, 50/60 Hz		
Lever Direction		Left, Right				Right		
Mount Direction		BK3-31/34: Horizontal/Vertical BK3-32: Horizontal BK3-33: Horizontal				Horizontal/Vertical		
<b>Performance Characteristics</b>								
NV Image Memory		256 Kbytes (Mono)				256 Kbytes (Mono)		
Receive Buffer		64 Kbytes				64 Kbytes		
User Define Buffer		12 Kbytes				12 Kbytes		
Interface		Standard: USB V2.0 FS + Serial Optional: USB V2.0 FS + Serial + Ethernet				USB V2.0 FS+ Serial		
Connector Type	Power	DC-Jack or 2P Connector				DC-Jack or 2P Connector		
	USB	USB B or 4P Connector				USB B type (Default)		
	Serial	9P Male or 5P Connector				9P Male or 5P Connector		
<b>Environment Characteristics</b>								
Temperature		Operating: -20~60 °C (-4~140 °F) ※ Optimal printing performances and maximum reliability will be obtained between 0 and 40 °C Storage: -20~60 °C (-4~140 °F)				Operating: -20~60 °C (-4~140 °F) ※ Optimal printing performances and maximum reliability will be obtained between 0 and 40 °C Storage: -20~60 °C (-4~140 °F)		
Humidity		Operating: 10~95 % (non-condensing) Storage: 10~95 % (non-condensing) excluding paper				Operating: 10~95 % (non-condensing) Storage: 10~95 % (non-condensing) excluding paper		
<b>Software</b>								
Emulation		BXL/POS™				BXL/POS™		
Driver/Utility		Windows Driver®, OPOS Driver, Linux/Mac® CUPS Driver, Utility Program, Network Auto Installer				Windows Driver®, OPOS Driver, Linux/Mac® CUPS Driver, Utility Program, Network Auto Installer		
Developer Tools		Android™ SDK, Windows SDK, Linux SDK				Android™ SDK, Windows SDK, Linux SDK		
<b>Fonts/Graphics/Symbolologies</b>								
Character Size		Font A: 12×24 Font B: 9×17 Font C: 9×24, KOR, CHN, JPN: 24x24				Font A: 12×24 Font B: 9×17 Font C: 9×24, KOR, CHN, JPN: 24x24		
Characters Per Line		Print width 12 mm: Font A: 8 Font B, C: 10, KOR, CHN, JPN: 4 Print width 48 mm: Font A: 32 Font B, C: 42, KOR, CHN, JPN: 16 Print width 54 mm: Font A: 36 Font B, C: 48, KOR, CHN, JPN: 18 Print width 72 mm: Font A: 48 Font B, C: 64, KOR, CHN, JPN: 24				Print width 12 mm: Font A: 8 Font B, C: 10, KOR, CHN, JPN: 4 Print width 48 mm: Font A: 32 Font B, C: 42, KOR, CHN, JPN: 16 Print width 54 mm: Font A: 36 Font B, C: 48, KOR, CHN, JPN: 18		
Character Sets		Alphanumeric: 95 Extended Graphics: 128×35 page International: 32				Alphanumeric: 95 Extended Graphics: 128×35 page International: 32		
Graphics		Supporting user-defined fonts, graphics, formats and logos				Supporting user-defined fonts, graphics, formats and logos		
Barcode Symbolologies		1D: Coda Bar, Code 39, Code 93, Code 128, EAN-8, EAN-13, ITF, UPC-A, UPC-E 2D: Data Matrix, GS1-128, GS1 DataBar Stacked/Omnidirectional/Truncated/Limited/Expanded, PDF417, QR code				1D: Coda Bar, Code 39, Code 93, Code 128, EAN-8, EAN-13, ITF, UPC-A, UPC-E 2D: Data Matrix, GS1-128, GS1 DataBar Stacked/Omnidirectional/Truncated/Limited/Expanded, PDF417, QR code		
<b>Accessories/Supplies</b>								
Accessories		AC/DC Adapter (DC Jack) AC/DC Adapter (2P Connector) Male to Male type Serial Cable 5P to Male type Serial Cable USB A-B Cable 1.8 m Power Cord				AC/DC Adapter (DC Jack) AC/DC Adapter (2P Connector) Male to Male type Serial Cable 5P to Male type Serial Cable USB A-B Cable 1.8 m Power Cord		
<b>Options</b>								
Bezel		Non-Bezel, Standard-Bezel (4 types), LED-Bezel (Green)				Non-Bezel, Standard-Bezel (4 types)		
Presenter (LED-Bezel default)	Paper Stock Direction	Upper						
	Media Width	80 mm						
	Media Thickness	0.05 ~ 0.10 mm						
	Media Length	50 ~ 250 mm						
	Ejection Speed	Up to 250 mm/sec						
Retractor	Paper Stock Direction	Upper						
	Media Width	58/80 mm						
	Media Thickness	0.05 ~ 0.10 mm						
	Media Length	70 ~ 350 mm						
	Ejection & Retractor Speed	Up to 500 mm/sec						
Basic Movement		Clamp, Retraction, Continuous						

# Kiosk & Mechanism



	SMP6350	SMP6200II	SMP6210	SMP695/695L
<b>Print Characteristics</b>				
Print Method	Direct Thermal	Direct Thermal	Direct Thermal	Direct Thermal
Print Speed	250 mm/sec (24 V)	150 mm/sec (24 V)	70 mm/sec (8.5 V)	100 mm/sec (9.5 V)
Print Resolution	203 dpi (8 dot/mm)	203 dpi (8 dot/mm)	203 dpi (8 dot/mm)	203 dpi (8 dot/mm)
Print Width	Up to 72 mm (576 dots)	Up to 54 mm (432 dots)	Up to 48 mm (384 dots)	Up to 48 mm (384 dots)
<b>Media Characteristics</b>				
Media Width	79.5 ± 0.5 mm	57.5 ± 0.5 mm	57.5 ± 0.5 mm	57.5 ± 0.5 mm
<b>Physical Characteristics</b>				
Dimensions (W x L x H)	100.8 x 41.5 x 27.3 mm	78.8 x 46.2 x 22.0 mm	78.8 x 46.2 x 22.0 mm	67.0 x 20.9 x 30.0 mm
Weight	170 g (0.38 lbs.)	168 g (0.37 lbs.)	168 g (0.37 lbs.)	35 g (0.07 lbs.)
Power	Drive: DC 24 V ± 10% Logic: DC 2.7 V ~ 5.5 V	Drive: DC 24 V ± 10% Logic: DC 5 V ± 5%	Drive: DC 8.5 V Logic: DC 2.75 V ~ 5.25 V	Drive: DC 4.5 V ~ 9.5 V Logic: DC 2.75 V ~ 5.25 V
<b>Environment Characteristics</b>				
Temperature	Operating: 0 ~ 45 °C	Operating: 0 ~ 45 °C	Operating: 0 ~ 45 °C	Operating: -5 ~ 45 °C
<b>Fonts/Graphics/Symbologies</b>				
Dot Size	0.125 x 0.125 mm	0.125 x 0.125 mm	0.125 x 0.125 mm	0.125 x 0.125 mm
Character Size	Font A: 12 × 24, Font B: 9 × 24	Font A: 12 × 24, Font B: 9 × 24	Font A: 12 × 24, Font B: 9 × 24	Font A: 12 × 24, Font B: 9 × 24
Characters Per Line	Font A: 32 Font B: 42	Font A: 32 Font B: 42	Font A: 32 Font B: 42	Font A: 32 Font B: 42
Line Pitch	3.75 mm (30 dots)	3.75 mm (30 dots)	3.75 mm (30 dots)	3.75 mm (30 dots)
<b>SMP690/691</b>				
<b>Print Characteristics</b>				
Print Method	Direct Thermal	-	Direct Thermal	-
Print Speed	100 mm/sec (9.5 V)	52.5 mm/sec (7.2 V)	62.5 mm/sec (8.5 V), 50 mm/sec (7.2 V), 20 mm/s (5V)	-
Print Resolution	203 dpi (8 dot/mm)	203 dpi (8 dot/mm)	203 dpi (8 dot/mm)	-
Print Width	Up to 48 mm (384 dots)	Up to 48 mm (384 dots)	-	-
Sensor	-	-	Paper End	-
<b>Media Characteristics</b>				
Media Width	57.5 ± 0.5 mm	57.5 ± 0.5 mm	57.5 ± 0.5 mm	-
Media Roll Diameter	-	-	Up to 40 mm	-
<b>Physical Characteristics</b>				
Dimensions (W x L x H)	SMP690: 66.6 x 24.5 (38.2) x 15.0 mm SMP691: 67.4 x 15.3 (29.5) x 31.6 mm	73.8 x 42.3 x 20 mm	80.0 x 74.8 x 45.0 mm	-
Weight	SMP690: 48 g (0.10 lbs.) SMP691: 49 g (0.10 lbs.)	70 g	104 g (0.22 lbs.)	-
Power	Drive: DC 4.75 V ~ 9.5 V Logic: DC 2.7 V ~ 5.25 V	Drive: DC 3.6 V ~ 7.2 V Logic: DC 2.7 V ~ 5.25 V	DC 5.0 V ~ 8.5 V, 2.4 A (at 7.0V)	-
<b>Performance Characteristics</b>				
Interface	-	-	Serial + USB	-
<b>Environment Characteristics</b>				
Temperature	Operating: 0 ~ 45 °C	Operating: 0 ~ 45 °C	Operating: 0 ~ 45 °C	-
<b>Software</b>				
Emulation	-	-	BXL/POS™	-
<b>Fonts/Graphics/Symbologies</b>				
Dot Size	0.125 x 0.125 mm	0.125 x 0.125 mm	-	-
Character Size	Font A: 12 × 24, Font B: 9 × 24	Font A: 12 × 24, Font B: 9 × 24	Font A: 12 × 24, Font B: 9 × 17, Font C: 9 x 24 24 x 24 (KOR,Big5,Shift JIS,GB2312)	-
Characters Per Line	Font A: 32 Font B: 42	Font A: 32 Font B: 42	Font A: 32 Font B: 42, Font C: 42 24 x 24 :16	-
Barcode Symbologies	-	-	1D: Codabar, Code 39, Code 93, Code 128, EAN-13, EAN-8, ITF, UPC-A, UPC-E 2D: PDF417, QR CODE	-
Line Pitch	3.75 mm (30 dots)	3.75 mm (30 dots)	-	-