

AirPrint Users Manual

Revision 1.4

Star Micronics Corporation Special Devices Division

STAR MICRONICS CO., LTD.

Content

1	Introdu	lction
	1.1 Su	pport model3
	1.2 Su	pport OS3
	1.3 Tra	ademarks3
2	Setting	
	2.1 Aiı	Print Overview4
	2.2 Ho	w to setup Wired LAN
	2.2.1	Connect Ethernet cable to Access Point or Switching Hub.
	2.2.2	Self-Print
	2.2.3	Execute Browser, then Login
	2.2.4	IP Config Settings7
	2.2.5	AirPrint Settings
	2.2.6	Peripheral (DK Port) Settings10
	2.3 Hc	w to setup WLAN
	2.3.1	Put WiFi Dongle onto USB Type A connector and Ethernet cable to Access Point
	2.3.2	Self-Print
	2.3.3	Execute Browser, then Login
	2.3.4	Wireless Connection Settings
	2.3.5	WLAN IP Config
	2.3.6	AirPrint Settings
2	2.3.7	Peripheral (DK Port) Settings
3		J
	3.1 HC	W to Print *In case of printing photos
	3.1.1	Please select Photos , then select picture(s)
	3.1.2	Please select Print
	3.1.3	Please select Printer
	3.1.4 2.1 F	Please select HIA Printer
л	3.1.5 Trouble	Prease click Print, then you can get print out
4		20
	4.1 HC	w to initialize Ethernet settings to factory default settings

1 Introduction

AirPrint is a feature in Apple Inc.'s macOS and iOS operating systems such as iPhone, iPad and iPod touch for printing via a WLAN (Wireless LAN).

With AirPrint, it is easy to print photos and documents from your Mac, iPhone, iPad, or iPod touch without having to install additional software.

Also, you can control cash drawer or buzzer to be connected to the Star Micronics AirPrint printer via the DK-port.

Star Micronics AirPrint printer is designed for retail and hospitality environment.

1.1 Support model

TSP654IIHIA

"Please be aware that the print length is fixed with Airprint."

iOS : fixed to 140mm

macOS : default is fixed to 140mm (macOS can change fixed length by "Manage Custom Sizes")

TSP847IIHIA

"Please be aware that the print length is fixed with Airprint."

iOS : fixed to 158mm

macOS : default is fixed to 158mm (macOS can change fixed length by "Manage Custom Sizes")

TSP743IIHIA

"Please be aware that the print length is fixed with Airprint."

iOS : fixed to 140mm

macOS : default is fixed to 140mm (macOS can change fixed length by "Manage Custom Sizes")

1.2 Support OS

iOS/iPadOS

Devices using the latest version of iOS as following:

- iPhone
- iPad
- iPod touch

macOS

Please download Mac OS X CUPS Driver from below URL.

https://starmicronics.com/support/download/cups-driver-for-macos/

1.3 Trademarks

Please refer to below link.

https://www.star-m.jp/eng/trademarks.html

2 Setting

2.1 AirPrint Overview

ASUS

D-Link

ASUS

USB-AC53 Nano

DWA-131 HW Ver.E1

USB-N10 Nano B1

HIA model supports 2 kinds of Ethernet connection. One is Wired LAN and another is Wireless LAN (WLAN). If you select Wired connection, please go to <u>2.2 How to setup Wired LAN</u>. If you select Wireless connection, please go to <u>2.3 How to setup WLAN</u>.

Fig1. 2.2 How to setup

Fig2. 2.3 How to setup



1.9.3 or higher

1.9.3 or higher

1.9.3 or higher

2.4GHz / 5GHz

2.4GHz

2.4GHz

2.2 How to setup Wired LAN

2.2.1Connect Ethernet cable to Access Point or Switching Hub.



2.2.2Self-Print

Check the IP address of the IFBD-HI01X/02X by self-print by following below procedure.

- Connect Ethernet cable to the IFBD-HI01X/02X Printer.
- Turn on the IFBD-HI01X/02X Printer with pushing the feed button for 5 seconds.
- The IP address of the IFBD-HI01X/02X Printer is shown in 2nd print paper.

Ethernet Network:	
IP Address :xxx.xxx.xxx (<i>※Protocol</i>)	
Subnet Mask :xxx.xxx.xxx	
Default Gateway :xxx.xxx.xxx	

2.2.3 Execute Browser, then Login

Put IP address of IFBD-HI01X/02X into the web-browser. Then the web configuration utility is shown.

	a mengent network othry	
Display Status	Device Model:IFBD-HI01X/02X MAC Address :00:11:62:0D:82:B4	
 Network Status Device Info 	Network Card Infomation	
 Device Status Wireless Status 	Part Name: IFBD-HI01X/02X	
System Access		
Login Username is "root" Default password is "public"	Main F/W: V1.9.3	
If you forgot your password, initialize network settings	Boot F/W: V1.1.1	
Contact us	Application F/W:	
	V1.9.3-AirPrint	
> E-Mail		

To enter the setting of HI01X/02X page, click "Login" and put user name and password. User name: "root", Password: "public" as factory setting. (These has been indicated under "Login")

Star Intelligent ×	+	• - • ×
← → C ▲ Not secure 172	.16.212.115	\$ 😩 i
Network Card Info Network Status Network Status Device Info Device Status Wireless Status System Access	Sign in Cancel Password Sign in Cancel Part Name: IFBD-HI01X/02X	¥ ≞ :
Login Username is "root" Default password is "public" If you forgot your password, initialize network settings	Main F/W: V193 Boot F/W: V111	
Contact us	Application F/W: V1.9.3-AirPrint	
	IFBD-HI01X/02X Network Card Configuration Utility.	
	Copyright(C) 2016 Star Micronics Co., Ltd. All Rights Reserved.	

After Login, if login password for root is default, then "Change Password" contents show. Please input new password and click submit. If submit is succeeded, then go next step.

> Change Password	MAC Address :00:11:62:0D:82:B4	
Change default password to configure network settings.	Change Password	
Display Status Network Card Info	For "root" account, Web.	
Network Status Device Info Device Status	Input old password	
Wireless Status System Access Logout	Input new password	
	Input new password (re-Input)	
Contact us	Show characters	
 E-Mail 	submit cancel	

2.2.4 IP Config Settings

If you need to change IP Address Static, please change them, then save the settings.

stal st	ar Intelligent Network Utili	ity
Configuration > IP Parameters	Device Model:IFBD-HI01X/02X Mac Address :00:11:62:0D:51:67	
 System Configuration Change Password 	IP Parameters	
 Star Cloud Services CloudPRNT WebPRNT 	• Static //Following addresses are used.	
> AirPrint > SSL/TLS > WLAN IP Config	IP Address	
Wireless Connection Firmware Update Set Default Save	Subnet Mask	
Sove Display Status Network Card Info Network Status	Default Gateway	
 Device Info Device Status Wireless Status 	 Dynamic //Addresses are obtained from network. 	
System Access Logout	DHCP/BOOTP	
Contact us > Star Web Site > E-Mail	RARP ENABLE T	
	submit	cancel

IP Parameters

The following table shows the Static (fixed address) and Dynamic (dynamic address acquisition) items of the IP address that can be stored in the non-volatile memory.

Category	Setting Items	Input Range	Initial Value (Factory Default)
	IP Address	0.0.0.0 to 255.255.255.254	0.0.0.0
Static	Subnet Mask	0.0.0.0 to 255.255.255.255	0.0.0.0
	Default Gateway	0.0.0.0 to 255.255.255.255	0.0.0.0
Demonste	DHCP/BOOTP	ENABLE / DISABLE	ENABLE
Dynamic	RARP	ENABLE / DISABLE	ENABLE

Note: If setting Static to anything other than 0.0.0.0, set all Dynamic to DISABLE. If setting Dynamic to ENABLE, set all Static to 0.0.0.0.

After change the settings, please click "submit" and save the settings.

Dynamic address condition is accepted!	Save	
	$\circledast \textbf{Save} \rightarrow \textbf{Configuration printing} \rightarrow \textbf{Restart det}$	vice
DHCP:	Save → Restart device	
RARP:	execute	cancel
ENABLE		
Please execut "Save" n enu if these settings are correct.		
Return to Previous page <ip parameters=""> (Don't use "Back" button of browser to return.)</ip>		

2.2.5 AirPrint Settings

This is settings for AirPrint.

If you need to change below settings, please change them, then save the settings.

 C Star Intelligent × C ③ 192.168.10.20 		아 ☆ 🗉
star sta	r Intelligent Network Utility	
Configuration	Device Model:IFBD-HI01A/02A MAC Address :00:11:62:0D:51:67	
> IP Parameters	AirPrint	
System Configuration		
Change Password	AirPrint ENABLE T	
Star Cloud Services		
> CloudPRNT	StarMicronics-TSP847IIHIA	
> WebPRNT	Location	
➤ AirPrint	Printer location	
SSL/TLS	GEO Location (Latitude)	
> WLAN IP Config		
Wireless Connection	GEO Location (Longitude)	
> Firmware Update	Get Browser Location	
Set Default		
> Save	submit	cancel
Display Status		
Network Card Info		
> Network Status		

[Example of setting list]

Item	Value	Notes
AirPrint	ENABLE (*1) or DISABLE	
Bonjour Server Name	StarMicronics-TSP847IIHIA	max 63 characters
Location	Printer location	max 127 characters
GEO Location (Latitude)		(*2)
GEO Location (Longitude)		(*2)

(*1) Default value

(*2) If "Get Browser Location" button cannot work, please see following examples or set "SSL" setting and open by "https".

[Example of location]

Location	Star Micronics Japan	Star Micronics US	Star Micronics UK	Star Micronics Thailand
Latitude:	35.0144857	40.4846472	51.6199034	13.7269006
Longitude:	138.451635	-74.5119392	-0.7113674	100.5311396

Peripheral (DK Port) Settings

This is setting for Cash Drawer and Buzzer control for AirPrint, it can be changed at "System Configuration" on the menu list.

Refer to the below settings, then submit and save the settings.

Star Intelligent	×	Star Intelligent ×	, X
← → C ① 192.168.20.137 Q 型 ☆ :		← → C ① 保護されていません 192.168.20.137 Q 配	☆ :
11	·	Line 2 (WLAN)	
Sicol Sta	ar Intelligent Network Utility	NO HOST CONNECTION	
Deelin		Line 3 (WLAN)	
Configuration	Device Model:IFBD-HI01A/02A Mac Address :00:11:62:0D:51:67	Line 4 (WLAN)	
System Configuration Change Password	System Configuration	Default Message	
 Star Cloud Services CloudPRNT 	Network	Peripheral (DK Port)*Available with AirPrint	
 Jac Loudy Set Vices Could PNT VicePNT VicePNT Sul-Pint Sul-Vint 	Web Refresh Interval Time (Sec.)	Perinheral Unit 1	
	5 #9100/9101 port ENABLE • #9100 Multi Session DISABLE • #9100 Data Timeout (Sec.) 0 • EPR DISABLE • TCP Keep-Alive	Type: CashDrawer ▼ Timing: Document Bottom ▼ CashDrawer 1: 200 Buzzer 1: 00 On Time(msc): 20 Off Time(msc): 20 Repeat: 1 Peripheral Unit 2 Ype: Timing: No Use CashDrawer 2: 200 Buzzer 3: 00 On Time(msc): 200	
	DISABLE • Disconnect Message (Ethernet) Autro • Line 1 (Ethernet) Line 2 (Ethernet) No Host CONNECTION	Off Time(Insec): 20 Repeat: 1 2 USB Host USB Configuration Loading ENABLE • Barcode Reader Device	
	Line 3 (Ethernet)	Type: None 🔻	

		Value	Default Value
	Туре:	Cash Drawer / Buzzer	CashDrawer
Pe	Timing:	No Use / Document Top / Page Top / Page Bottom / Document Bottom	Document Bottom
rip	Cash Drawer 1		
her	Pulse Width(msec.):	20 to 5100 msec.	200msec.
all	Buzzer 1		
Uni	On Time(msec.):	10 to 1270 msec.	20msec.
t1	Off Time(msec.):	10 to 1270 msec.	20msec.
	Repeat:	1 to 20 times	1 time
	Туре:	Cash Drawer / Buzzer	CashDrawer
Pe	Timing:	No Use / Document Top / Page Top / Page Bottom / Document Bottom	No Use
rip	Cash Drawer 2		
her	Pulse Width(msec.):	200 msec. (Fix)	200msec.
all	Buzzer 2		
Uni	On Time(msec.):	10 to 1270 msec.	20msec.
t 2	Off Time(msec.):	10 to 1270 msec.	20msec.
	Repeat:	1 to 20 times	1 time

2.3 How to setup WLAN

2.3.1Put WiFi Dongle onto USB Type A connector and Ethernet cable to Access Point.

8			
- AL	•	100,1	

Brand	d Model Frequency		F/W
PLANEX	GW-USNANO2A	2.4GHz	1.5.0 or higher
EDIMAX	EW-7811UN	2.4GHz	1.5.0 or higher
D-Link	DWA-182 rev C1	2.4GHz / 5GHz	1.5.0 or higher
LINKSYS	WUSB6300	2.4GHz / 5GHz	1.5.0 or higher
EDIMAX	EW-7811UN V2	2.4GHz	1.9.3 or higher
TRENDnet	TEW-648UBM V2 0R	2.4GHz	1.9.3 or higher
D-Link	DWA-182 HW Ver.D1	2.4GHz / 5GHz	1.9.3 or higher
ASUS	USB-AC53 Nano	2.4GHz / 5GHz	1.9.3 or higher
D-Link	DWA-131 HW Ver.E1	2.4GHz	1.9.3 or higher
ASUS	USB-N10 Nano B1	2.4GHz	1.9.3 or higher

2.3.2Self-Print

Check the IP address of the IFBD-HI01X/02X by self-print by following below procedure.

- Connect Ethernet cable to the IFBD-HI01X/02X Printer.
- Turn on the IFBD-HI01X/02X Printer with pushing the feed button for 5 seconds.
- The IP address of the IFBD-HI01X/02X Printer is shown in 2nd print paper.

Ethernet Network:

IP Address :xxx.xxx.xxx (**Protocol*) Subnet Mask :xxx.xxx.xxx Default Gateway :xxx.xxx.xxx

2.3.3Execute Browser, then Login

Put IP address of IFBD-HI01X/02X into the web-browser. Then the web configuration utility is shown.

Star Intelligent X	+	•
C -> C AL NOUSECURE 1/2	15,212,115	ж н 🖷 :
Stal	Intelligent Network Utility	
Display Status	Device Model:IFBD-HI01X/02X MAC Address :00:11:62:0D:82:B4	
> Network Card Info	MAG Address .00.11.02.00.02.04	
Network Status	Network Card Infomation	
> Device Info		
> Device Status	Part Name:	
> Wireless Status	IFBD-HI01X/02X	
System Access		
> Login	Main F/W:	
Username is "root" Default password is "public"	V1.9.3	
If you forgot your password,	Boot F/W:	
initialize network settings	V1.1.1	
Contact us	Application F/W:	
> Star Web Site	V1.9.3-AirPrint	
> E-Mail		
	IFBD-HI01X/02X Network Card Configuration Utility.	
	Copyright(C) 2016 Star Micronics Co., Ltd. All Rights Reserved.	

To enter the setting of HI01X/02X page, click "Login" and put user name and password. User name: "root", Password: "public" as factory setting. (These has been indicated under "Login")

Star Intelligent ×	+	0	-	C	3	×
← → C ▲ Not secure 172	16.212.115		i i	¢	4	÷
Star Intelligent ×	+ 16.212.115 Sign in http://72.16.212.115 Your connection to this site is not private Username Password Part Name: IFBD-HI01X/02X Main F/W: V1.9.3 Boot F/W: V1.1.1 Application F/W: V1.9.3-AirPrint	•		ά		· · · · · · · · · · · · · · · · · · ·
	IFBD-HI01X/02X Network Card Configuration Utility. Copyright(C) 2016 Star Micronics Co., Ltd. All Rights Reserved.					

After Login, if login password for root is default, then "Change Password" contents show. Please input new password and click submit. If submit is succeeded, then go next step.

Star Intelligent ×	+	0	-		×
← → C ▲ Not secure 172.	16.212.115		4	-	:
Star Star	Intelligent Network Utility				
Configuration Change Password	Device Model:IFBD-HI01X/02X MAC Address :00:11:62:0D:82:B4				
Change default password to configure network settings.	Change Password				
Display Status Network Card Info	For "root" account, Web.				
Device Info Device Status	Input old password				
> Wireless Status	Input new password				
> Logout	Show characters				
	Input new password (re-input)				
Star Web Site	Show characters				
> E-Mail	submit		ca	ncel	
	IFBD-HI01X/02X Network Card Configuration Utility.				

2.3.4 Wireless Connection Settings

There are two kinds of settings to connect to Access Point, one is Site Survey and another is Manual Connect.

Star Intelligent Network Utility Wirtien-Sales-Biles Wirtien-Sales-Biles Star Sale Wirtien-Sales-Biles Wirtien-Sales-Biles Star Sale Wirtien-Sales-Biles Star Sale Wirtien-Sales-Biles Wirtien-Sales-Biles Wirtien-Sales-Biles Wirtien-Sal		
Start Intelligient Vetwork Offity gurding gurding with reductable black start intelligient vetwork of start with reductable black	Select	Encryption
winting Device Model: IBD-III03/02X Mice Address Social: IBD-III03/02X SCS_B-F485_2-240Hz Star-Methy 2-40Hz Star-Methy 2-40Hz Star-Methy 2-40Hz Maint Star-Methy 2-40Hz Star-Methy 2-40Hz Star-Methy 2-40Hz Maint Star-Methy 2-40Hz Star-Methy 2-40Hz	Select	WPA/WPA2-TRIP/AES
tarveters ter configuration per searcher ter configuration ter co	Select	WEP
straveberkni star-tech_fct070-g Mutual connect set for set fo	Select	WPA2-AES
Construction Performant State State <tr< td=""><td>Select</td><td>WPA2-AES</td></tr<>	Select	WPA2-AES
Mrd Lis for Convect (Connect Settings) SSID WRT160n-Sales-Bflets Key (Connect SSID: WRT160n-Sales-Bflets Security: WPA/WPA2-TKIP/AES Please execute San Return to Prev (Dont use "Ba" Save → Configuration	Select	WPA2-AES
It is contract It is solve a status		Back
Connect Connect Settings state SSID wR1600 SSID wR11600-Sales-Bflets Kev writy Connect D Mireless confi SSID WR11600-Sales-Bflets writy SSID SSID WR11600-Sales-Bflets writy SSID SSID WR11600-Sales-Bflets spirase (63 charg) WR11600-Sales-Bflets proton SSID writy SSID SSID WR11600-Sales-Bflets spirase (63 charg) Media charge multiconnect Please execute SSID WR11600-Sales-Bflets spirase (63 charg) Media charge multiconnect Connect SSID WR11600-Sales-Bflets spirase (63 charg) Media charge connect Connect Save Return to Prev (Don't use "Barge Save → Configuration		
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ItED-HIDLX/D2X Network Card Configuration Utility: Demonstrate SSID: WRT160n-Sales-Bflets Security: WPA/WPA2-TKIP/AES Please execute Connect Connect Connect Connect Connect Connect Connect		
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IFED-HIDUX/02X Net, ords Card Configuration Utility. copyont(2) 2015 Surver, ords Card Configuration Utility. nual Connect D T160n-Sales-Bflets spinaal spinaal<		
Image: Connect Image: Con		
nual Connect iD T160n-Sales-Bflets SSID: WRT160n-Sales-Bflets Security: WRT160n-Sales-Bflets Security: WPA/WPA2-TKIP/AES Please execute Sav Return to Prev (Don't use "Ba Save Save → Configuration		
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ID TT IGOn-Sales-Bflets Curity %A2_PSK- yFormat ssphrase (8-63 chars)* Cryption S - y Connect Connect Cancel Wireless confi WRT160n-Sales-Bflets Security : WPA/WPA2-TKIP/AES Please execute [Sav Return to Prev (Don't use "Ba		
D TIGOn-Sales-Bflets SSID : WRT16On-Sales-Bflets SSID : WRT16On-Sales-Bflets Security : WPA/WPA2-TKIP/AES Security : Please execute [Save Return to Prev (Don't use "Ba	au una t	ion is accented
ITEOn-Sales-Effets surity A2-PSK- /Format ssphrase (8-63 chars)- Sryption S- / Connect Cancel SSID: WRT160n-Sales-Bflets Security: WPA/WPA2-TKIP/AES Please execute [San Return to Prev (Don't use "Ba Save Save Save Save → Configuration	gurat	ion is accepted.
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A2_PSK- Format sphrase (8+63 chars)- s- ryption s- r connect cancel Save Save Save Save Save Save Save		
<pre>#Format sphrase (8-63 chars). *ryption S * Please execute "Save Return to Prev (Don't use "Ba ** Save **Save → Configuration ************************************</pre>		
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connect cancel Return to Prev. (Don't use "Back Save • Save → Configuration	ve menu i	i uiese setungs are correct.
connect (Don't use "Ba Save Save → Configuration	vious page	< WLAN IP Config>
Save ●Save → Configuration	ick" button	of browser to return.)
Save ●Save → Configuration		
Save Save → Configuration		
Save Save → Configuration		
●Save → Configurati		
Save → Configuration		
	on printi	ng \rightarrow Restart device
Save → Restart dev	/ice	

I

2.3.5 WLAN IP Config

If you need to change IP Address Static, please change them, then save the settings.

> IP Parameters	Device Model:IFBD-HI01X/02X Mac Address :00:11:62:0D:51:67	
System Configuration Change Password	WLAN IP Config	
Star Cloud Services CloudPRNT WebPRNT	• Static //Following addresses are used.	
> AirPrint	IP Address	
> WLAN IP Config	0.0.0.0	
Kineless Connection Eirmware Undate	Subpet Mask	
> Set Default	Subject Plask	
> Save	0.0.0.0	
Display Status	Default Gateway	
> Network Card Info	0.0.0.0	
Network Status		
Device Info		
Device Status Wireless Status	Dynamic	
· · · · · · · · · · · · · · · · · · ·	//Addresses are obtained from network.	
System Access		
* Logour	Submit	Cancer
Contact us		
Star Web Site		
> E-Mail		

IP Parameters

The following table shows the Static (fixed address) and Dynamic (dynamic address acquisition) items of the IP address that can be stored in the non-volatile memory.

Category	Setting Items	Input Range	Initial Value
Caregory		Pao rande	(Factory Default)
	IP Address	0.0.0.0 to 255.255.255.254	0.0.0.0
Static	Subnet Mask	0.0.0.0 to 255.255.255.255	0.0.00
	Default Gateway	0.0.0.0 to 255.255.255.255	0.0.00
Dunamia	DHCP/BOOTP	ENABLE / DISABLE	ENABLE
Dynamic	RARP	ENABLE / DISABLE	ENABLE

Note: If setting Static to anything other than 0.0.0.0, set all Dynamic to DISABLE. If setting Dynamic to ENABLE, set all Static to 0.0.0.0.

After change the settings, please click "submit" and save the settings.

Dynamic address condition is accepted!	Save	
	\circledast Save \rightarrow Configuration printing \rightarrow Restart dev	rice
DHCP:	Save → Restart device	
ENABLE		
RARP:	execute	cancel
ENABLE		
Please execut "Save" nenu if these settings are correct.	1	
Return to Previous page <ip parameters=""></ip>		
(Don't use "Back" button of browser to return.)		

2.3.6AirPrint Settings

This is settings for AirPrint.

If you need to change below settings, please change them, then save the settings.

C Star Intelligent × ← → C ① 192.168.10.20		아 ☆ 🗊
Star Sta	r Intelligent Network Utility	
Configuration	Device Model:IFBD-HI01A/02A MAC Address :00:11:62:0D:51:67	
> IP Parameters	AirPrint	
System Configuration		
Change Password	AirPrint	
Star Cloud Services		
> CloudPRNT	StarMicronics-TSP847IIHIA	
> WebPRNT	Location	
➤ AirPrint	Printer location	
SSL/TLS	GEO Location (Latitude)	
> WLAN IP Config		
Wireless Connection	GEO Location (Longitude)	
> Firmware Update	Get Browser Location	
> Set Default		
> Save	submit	cancel
Display Status		
> Network Card Info		
> Network Status		

[Example of setting list]

Item	Value	Notes
AirPrint	ENABLE (*1) or DISABLE	
Bonjour Server Name	StarMicronics-TSP847IIHIA	max 63 characters
Location	Printer location	max 127 characters
GEO Location (Latitude)		(*2)
GEO Location (Longitude)		(*2)

(*1) Default value

(*2) If "Get Browser Location" button cannot work, please see following examples or set "SSL" setting and open by "https".

[Example of location]

Location	SMJ (Japan)	SMA (US)	SME (UK)	SMSA (Thailand)	
Latitude:	35.0144857	40.4846472	51.6199034	13.7269006	
Longitude:	138.451635	-74.5119392	-0.7113674	100.5311396	

2.3.7 Peripheral (DK Port) Settings

This is setting for Cash Drawer and Buzzer control for AirPrint, it can be changed at "System Configuration" on the menu list.

Refer to the below settings, then submit and save the settings.

Star Intelligent	×	0 – 🗆 X	Star Intelligent	×	0	-		×
← → C ① 192.168.20	.137	< 및 ☆ :	← → C ① 保護さ	れていません 192.168.20.137		Q	a d	2
		A		Line 2 (WLAN)				
Sto Sta	ar Intelligent Network Utility			NO HOST CONNECTIO	N			
				Line 3 (WLAN)	*****			
Configuration	Mac Address :00:11:62:0D:51:67			Line 4 (WLAN)				
System Configuration	System Configuration			Default Message				
> Star Cloud Services	Network			e court ricesegs		0.000		
> CloudPRNT > WebPRNT	Network			Peripheral (DK Port	t)*Available with AirPrint		٦	
> AirPrint	Web Refresh Interval Time (Sec.)			Peripheral Unit 1				
 > SSL/TLS > WLAN IP Config > Wireless Connection > Firmware Update > Set Default > Save > Display Status > Network Card Info 	5 #9100/9101 port ENABLE •			Type: Timing: CashDrawer 1: Pulse Width(msec): Burser 1:	CashDrawer Document Bottom 200		l	
	#9100 Multi Session DISABLE T			On Time(msec): Off Time(msec): Repeat:	20 20 1		l	
Network Status Device Info	#9100 Data Timeout (Sec.)			Peripheral Unit 2	CashDrawer V			
Wireless Status	LPR			Timing:	No Use 🔻		н	
ystem Access	DISABLE V			CashDrawer 2: Pulse Width(msec):	200		L	
ontact us	TCP Keep-Alive			Buzzer 2: On Time(msec): Off Time(msec):	20		I	
> Star Web Site				Repeat:	1 9		J	
> E-Mail	Disconnect Message (Ethernet)			USB Host				
	Line 1 (Ethernet)			UCD Confirmation Lond				
	******************* Ethernet ***************			Configuration Load	my			
	Line 2 (Ethernet)			ENABLE V				
	NO HOST CONNECTION			Barcode Reader Device				
	Line 3 (Ethernet)			Type: None				

		Value	Default Value	
	ype: Cash Drawer / Buzzer		CashDrawer	
Pe	Timing:	No Use / Document Top / Page Top / Page Bottom / Document Bottom	Document Bottom	
rip	Cash Drawer 1			
her	Pulse Width(msec.):	20 to 5100 msec.	200msec.	
all	Buzzer 1			
Uni	On Time(msec.):	10 to 1270 msec.	20msec.	
t1	Off Time(msec.):	10 to 1270 msec.	20msec.	
	Repeat:	1 to 20 times	1 time	
	Туре:	Cash Drawer / Buzzer	CashDrawer	
Pe	Timing:	No Use / Document Top / Page Top / Page Bottom / Document Bottom	No Use	
rip	Cash Drawer 2			
her	Pulse Width(msec.):	200 msec. (Fix)	200msec.	
all	Buzzer 2			
Uni	On Time(msec.):	10 to 1270 msec.	20msec.	
t 2	Off Time(msec.):	10 to 1270 msec.	20msec.	
	Repeat:	1 to 20 times	1 time	

3 Printing

- 3.1 How to Print*In case of printing photos
- 3.1.1 Please select "Photos", then select picture(s)



3.1.2 Please select "Print".



3.1.3 Please select "Printer".



3.1.4 Please select "HIA Printer".



3.1.5 Please click "**Print**", then you can get print out.

4 Trouble shooting

4.1 How to initialize Ethernet settings to factory default settings.

If you need the Ethernet settings to factory settings, please do the following operation.

While the TCP/IP is operating, if the *push switch* is continued to be held down, the LED display pattern will change according to the times shown below.



Phase	Phase CM/ Pressing Time	LED Pattern		Creasial Manda	
	Phase Sw Pressing Time	Color	Pattern	Special Mode	
1	1 second to less than 5 seconds	Yellow	Blinking	Reserved (Undefined)	
2	5 second to less than 9 seconds	Red	Blinking	NIC setting initialize mode (*2)	
3	9 second to less than 13 seconds	Green	Blinking	Reserved (Undefined)	
	over 13 seconds (*1)				

*1 When Phase 3 is exceeded, press the switch for 1 second to return to Phase 1.

*2 Execution procedures for the NIC setting initialize mode

- A) After entering this mode, press the push switch once and release it. The LED display will be "Extinguished" and the initializing of the NIC settings in the non-volatile memory will begin.
- B) If the initialization is successful, the printer will automatically be reset.

Do not turn off the power or apply a reset until this reset has been applied.

Also, if the NIC setting initialization fails, the LED display will be "Red Lit" and all operations will stop.

If so, turn the power off.

Note: When turning the power on, a different mode (automatic firmware update function using TFTP client) will startup that is different to the above functions, for the operations when turning the power on with the push switch pressed.

