# **5. Option Unit** 5.1 Installation of Interswitch Unit

## 5.1.1 End processing of Interswitch cable(2695111153)



Fig 5-1: Equipment cable end processing



Fig 5-2: End processing of each cable core

## 5.1.2 Connection of equipment cable

There is two type Interswitch(NQE-3141); NQE-3141-4A(4ch) and NQE-3141-8A(8ch).

#### **Connection Procedure**

- 1) Ground the earth plate to the hull ground.
- 2) Connect the Interswitch(NQE-3141) to the Radar I/F Circuit(CQD-2273) with the 2695111153 cable. Refer to Fig 5-5: NQE-3141-4A Inter-board connection diagram.

#### -When connect to the JAN-901/901M/701 and third-party ECDIS.

Connnect the input terminal : VD, TRG, BP, BZ(JAN-901/901M/701 and third-party ECDIS) and output terminal : VDOUT, TRGOUT, BPOUT, BZOUT(NQE-3141).

#### - When connect to the JMA-9100/7100, JMA-5300MK2, JMA-900B.

Connect the VD, TRG, BP, BZ, PWR terminal on JMA-9100/7100, JMA-5300MK2, JMA-900B and VD, TRG, BP, BZ, PWR terminal on the NQE-3141.

3) Refer to End processing of Interswitch cable(2695111153) for the end of processing of Interswitch cable. When connect to the Radar I/F Circuit(CQD-2273) in the Junction box(NQE-1143), fix the cable by the metal parts that surrounded by a dotted line. Refer to the below detailed fixed position. And connect the shield of the cable to the thumbscrew or hex spacer surrounded by the circle. (Recommended crimp terminal is V5.5)



Fig 5-3 Way of fixing and grounding(2695111153)

When connect to the interswitch unit, fix the shield portion of the cable by the metal parts that surrounded by the dotted line.



Fig 5-4 Cable inlet of the NQE-3141-8A



So that the braided shield is not shorted to the power supply terminal block, please insulate the cable and fix with cable tie. Please put the Extra length of the cable to the bottom of the display unit so that the not shorted to the UPS or SENSOR LAN switch unit.

4) After the installation is finished, refer to the 5.1.6 Confirmation after installation and check the operation.



5.Option Unit > 5.1 Installation of Interswitch Unit

## 5.1.3 NQE-3141-4A Inter-board connection diagram

Fig 5-5: NQE-3141-4A Inter-board connection diagram

## 5.1.4 Installation of interswitch unit







Fig 5-6: Outline Drawing of NQE-3141-4A Interswitch Unit (4ch)



SCNQE5085

## Fig 5-7: Outline Drawing of NQE-3141-8A Interswitch Unit (8ch)

## 5.1.5 Settings of Interswitch

Since settings have been normally made upon shipment from factory, it is advised to only confirm the settings.

**a.** Settings of NQE-3141-4A

Set dip switches SW11, SW12, and SW13 as shown below.



Fig 5-8: CML-304R DIP Switch

1) SW11 setting (expansion mode, master/slave setting)



2) SW12 setting (radar connection setting)



Radar Connection Setting

1	ON	No. 1 display unit connected
	OFF	No. 1 display unit NOT connected
2	ON	No. 1 antenna connectedd
	OFF	No. 1 antenna NOT connected
3	ON	No. 2 display unit connected
	OFF	No. 2 display unit NOT connected
4	ON	No. 2 antenna connected
	OFF	No. 2 antenna NOT connected
5	ON	No. 3 display unit connected
	OFF	No. 3 display unit NOT connected
6	ON	No. 3 antenna connected
	OFF	No. 3 antenna NOT connected
7	ON	No. 4 display unit connected
	OFF	No. 4 display unit NOT connected
8	ON	No. 4 antenna connected
	OFF	No. 4 antenna NOT connected

3) SW13 (unused)



**b.** Settings of NQE-3141-8A

The internal structure of NQE-3141-8A includes two units of CCL-304R in the two-storied structure.



Fig 5-9: NQE-3141-8A internal structure



Fig 5-10: Access to Lower Board of NQE-3141-8A

- Although dip switches settings are basically the same as the settings shown in Access, it is necessary to make settings for each of the two SW12.
- It is necessary to remove six screws marked in the above drawing in order to access the first story portion.
- With regard to SW12 board located at the upper position, make settings for CH1 to CH4.
- With regard to SW12 board located at the lower position, make settings for CH5 to CH8.
- CH1 to CH4 displayed on the terminal block mean CH5 to CH8.
- Settings have been made for SW11 and SW13 upon shipment. Do not change those settings.

Factory default setting (bit1-bit2-bit3-bit4)

SW11-upper OFF-OFF-OFF-ON SW11-lower OFF-OFF-ON-ON SW13-both OFF-OFF-OFF-OFF • Settings of upper CCL-304R, SW12 (radar connection setting)



1	ON	No. 1 display unit connected
	OFF	No. 1 display unit NOT connected
2	ON	No. 1 antenna connected
	OFF	No. 1 antenna NOT connected
3	ON	No. 2 display unit connected
	OFF	No. 2 display unit NOT connected
4	ON	No. 2 antenna connected
	OFF	No. 2 antenna NOT connected
5	ON	No. 3 display unit connected
	OFF	No. 3 display unit NOT connected
6	ON	No. 3 antenna connected
	OFF	No. 3 antenna NOT connected
7	ON	No. 4 display unit connected
	OFF	No. 4 display unit NOT connected
8	ON	No. 4 antenna connected
	OFF	No. 4 antenna NOT connected

• Setting of lower CCL-304R, SW12 (radar connection setting)



1	ON	No. 5 display unit connected
	OFF	No. 5 display unit NOT connected
2	ON	No. 5 antenna connected
	OFF	No. 5 antenna NOT connected
3	ON	No. 6 display unit connected
	OFF	No. 6 display unit NOT connected
4	ON	No. 6 antenna connected
	OFF	No. 6 antenna NOT connected
5	ON	No. 7 display unit connected
	OFF	No. 7 display unit NOT connected
6	ON	No. 7 antenna connected
	OFF	No. 7antenna NOT connected
7	ON	No. 8 display unit connected
	OFF	No. 8 display unit NOT connected
8	ON	No. 8 antenna connected
	OFF	No. 8 antenna NOT connected

#### 5.1.6 Confirmation after installation

- 1) After having checked connections, turn on the switchboard breaker.
- 2) Turn on the power to the radar display unit, and make sure that the interswitch button is displayed on the screen and pressing the button will switch antennas.
- 3) When a system consists of two devices, make sure that both left and right radars conform to the screen indication.
- 4) When a system consists of three devices, make sure that the CH number and the display unit position are arranged as intended.

## 5.2 Installation of Power Control Unit

Power control unit NQE-3167 is used when an antenna and a transmitter-receiver are installed at a location away from the bridge, such as a foremast.

In the case of a two-unit type antenna, the maximum length of the cable that connects between the display unit and the antenna is 65 meters. In the case of a three-unit type antenna, the maximum length of the cable that connects between the display unit and the transmitter-receiver is 35 meters.

By using NQE-3167 power control unit, the maximum length of the cable that connects between the display unit and the antenna (transmitter-receiver) can be extended up to 465 meters.

Maximum length of the cable connecting between the antenna and the transmitter-receiver	30m
Maximum length of the cable connecting between the transmitter-receiver and the PCU (NQE-3167)	35m
Maximum length of the cable connecting between the display unit and the PCU (NQE-3167)	400m

### 5.2.1 Connection with NKE-2103 type and NKE-2254-6HS type scanner units

Use 19-core composite cable CFQ-6912-\*\* for the installation of those types of antennas (Asterisks \*\* use the cable length, and the available cable length is 5, 10, 20, 30, 40, 50, and 65)

The display-unit side end of this cable is a metal shell round connector. (See 2.1.1CFQ-6912-\*\*) Connect that cable to J2 of the power control unit.

If the metal shell round connector is cut, connect the cable to TB3 located in the power control unit. For procedures for processing the cable end, see Section **2.1.4 Cable end processing method**.

With regard to six devices, such as MOTOR+ (2P), MOTOR-(2P), 1A (+48V), and 2A (48VG), two AWG16 cables must be connected to one terminal block. As necessary, use a bar-mould crimp-type terminal or the like. (See **Fig 5-11: Connection of CFQ-6912**)

The connection between scanner unit and AC/DC converter NBA-5135 is not necessary. Instead, power control unit NQE-3167 supplies DC power.



Fig 5-11: Connection of CFQ-6912

#### 5.2.2 Connections to NKE-1125, NTG-3225, NKE-1130, NTG-3230, NKE-1632 and NKE-2632

Use 14-core composite cable 2695110056 for the installation of those types of antennas.

For the procedures for processing the cable end, see Fig 5-12: Equipment cable end processing.

For the wiring procedures, see 5.2.7 Inter -board connection diagram of power control unit.

## 5.2.3 End processing of 2695110056 cable



Fig 5-12: Equipment cable end processing

## 5.2.4 End processing of each cable core



Fig 5-13: End processing of each cable core

#### 5.2.5 Connection to display unit

Use 14-core composite cable 2695110056 and coaxial cable RG-10/UY to connect power control unit NQE-3167 to each display unit.

Among the two cables, use coaxial cable RG-10/UY to connect the radar video signal.

For the procedures for processing the cable end and the wiring procedures, see Fig 5-12: Equipment cable end processing. For the wiring procedures, see 5.2.7 Inter –board connection diagram of power control unit.

## 5.2.6 Outline Drawing of NQE-3167 Power Control Unit



Fig 5-14: Outline Drawing of NQE-3167 Power Control Unit



Fig 5-15: NQE-3167 cable entrance



Fig 5-16: NQE-3167 terminal block

 $\triangle$  Securely ground the included earth plate to the hull's earth.



# 5.2.7 Inter –board connection diagram of power control unit 5.2.7.1 Inter-board connection diagram of JMR-9230-S3, JMR-7230-S3



5.2.7.2 Inter-board connection diagram of JMR-9230-S, JMR-7230-S



5–20



#### 5.2.7.4 Inter-board connection diagram of JMR-9282-S/SH, JMR-7282-S/SH



5.2.7.5 Inter-board connection diagram of JMR-9225-7X3/9X3, JMR-7225-7X3/9X3



5.2.7.6 Inter-board connection diagram of JMR-9225-6X/9X, JMR-7225-6X/9X



and NQE-3167 POWER CONTROL UNIT

5.2.7.7 Inter-board connection diagram of JMR-9225-6XH, JMR-7225-6XH



5.2.7.8 Inter-board connection diagram of JMR-9210-6X/6XH, JMR-7210-6X/6XH

## 5.3 Connection of VDR

## 5.3.1 Connection with LAN (IEC61162-450)

When the VDR have LAN port, use connection with the LAN (IEC61162-450). There is the LAN port J4122 which is located in central control unit (NDC-1590). See the drawing below.



Fig 5-17 VDR connection connector LAN(IEC61162-450)

After the connection, please set the display unit refers to the 4.15 Setting of VDR.

## 5.3.2 Connection with Analog RGB

When the VDR does not have LAN port, use connection with Analog RGB.

Analog RGB signal for VDR is output from J4205 which is located in the central control unit (NDC-1590). See the drawing below.



Fig 5-18: VDR connection connector Analog RGB

### 5.3.2.1 VDR I/F kit

The VDR I/F kit is used to connection with analog RGB.

VDR I/F kit CQD-1891 includes:

DSUB15P - BNC cable	(KB5BNC2K, 2 meters)	1 pcs

5 pcs

BNC to BNC adapter (BNC-A-JJ)

BNC connector (3CV-P2) 5 piece 5 pcs

Use 3C-2V coaxial cable for connection.







## 5.4 **Printer**

Set the printer accoding to the following procedures.



When there is no keyboard operating unit, prepare the keyboard of a USB interface.

There is a procedure that cannot be set for the keyboard not to exist.

### 5.4.1 Printer Composition

Externals of the printer are as follows.



#### Necessary for setting

No	名称	備考
1	Start Poster	
2	AC Adaptor	
3	CD for Printer Driver	
4	Two sided of automatic op-	
	eration print accessories	
5	Ink	
6	Printer Head	
7	Print Paper	
8	USB Keyboard	When NCE-5625 Keyboard Operation Unit is not equipped.

#### Not necessary for setting

No	名称	備考
	LAN Cable	It doesn't use.
		Use the specified LAN cable.
	USB Cable	It doesn't use.
	Warranty Card	Please keep it with the ship importantly.
	Directions of print paper	Please keep it with the ship importantly.
	Support documentation	Please keep it with the ship importantly.

## 5.4.2 **Printer Assembly**

Assemble a printer according to the following procedures.

① Set up the printer according to attached "Start" poster.



② Set some papers and push the power button.



## 5.4.3 Setting Printer

The setting method of the printer is described. Set the printer according to the following procedures.

#### 5.4.3.1 Connecting Power Cable and Printer LAN Cable

Connect power cable and printer LAN cable with the printer and main hub unit respectively. Connecting location is described to "Start" poster.



Connecting location of power cable



Connecting location of LAN cable

#### 5.4.3.2 Confirming Printer IP Address

Confirm IP address of the printer according to the following procedures.

- 1. Power on Printer and ECDIS.
- 2. Keep pressing "Resume" button and "Wireless" button (see below diagram) at the same time.

Confirm that 2 pieces of paper " HP Network Configuration Page" are printed.



HP Network Configuration Page		-	Bonjour Status Service Name		Enabled Officejet Pro 8100 [CEA168]	
MPS PIN 44968793 (good for 5 minutes from the time this i	report was printed!)		SLP Status		Enabled	
Beneral Information			Microsoft Web Georges			
Network Status	Neady		WS Discovery			
Active Connection Type	wwed		Status		Enabled	
URL(s) for Embedded Web Server	http://HPG5A01G		WS Driet		Enabled	
	ridp:)/169.254.161.107	1 1	Status		Enabled	
F #TTIWATE Provision	TSPIFNI131AR	1 1			Lingungo	
Hostname	HPC5A01C	1 1				_
Senal Number	CN2121K04B05MX	1 1	SNMP			
the state of the s		- 1	Status		Read-write enabled	
		1 1	SNMP Version		×1	
NUZ.3 WIRD	0-700	1 1	Set Community Name		Not Specified	
Hardware Address (NAC)	20.70.80.00.01.00		Clet Community Name		Not Specified	
Link Companion	1091X-FUE	1 1				
E trainer	400 004 404 407	1 1				
P Address Robert Mark	255 255 0.0		WINS			
Date in Contempor	0000		Status		Enabled	
Conference Control of	0.000			Address	Configured By	
Birman DNR Report	0000		Primary Server	0.0.0.0	None	
Primary UNS Derver	0.0.00		Secondary Server	0.0.0.0	None	
decordary bivo derver	0.0.00					
Tabi Darkate Received						
Total Packets Received	v		IPP			
Brinsen PMR Report			Status		Enabled	
Georgian DNS Server						
Address P	refix Length Configured By					
MA 11 Minutese		-				
Hoodsman Address (MAC)	2r-76-Barefrah-In					
Status	Disabled					
Communication Mode	Adhos					
Network Name (SSID)	HPN811a.C5A01C					
Port 9100						
Status	Enabled					
		1 1				
LPD		1 1				
OGRAJE	Enabled					
		- 1 I				
		1 1				
		- 1 I				
		1 1				
		1 1				
		1 1				
		1 1				
		1 1				

3. Confirm default "IP Address" and "Subnet Mask" on the "HP Network Configuration Page".



#### 5.4.3.3 Setting Printer IP Address

Set up the IP address of the printer according to the following procedures.

- 1. Power on this equipment.
- 2. After the default task starts, click the [Menu] button of the "Left Tool Bar". The "Menu" dialog is displayed.

### 3. Click [Code Input] button.

The "Password" dialog is displayed.



4. After the password "0009" is input with the software keyboard, click the [Enter] button.

The **[service]** button is added to the menu. Once the **[Service]** button is added, it will be displayed until the task menu is finished.



5. Click the [Service] button of the "Menu" dialog.

The sub menu of [Service] is displayed.



6. Click the [Installation] button.

The "Installation" dialog is displayed.

7. [System Configuration] is chosen by the first classification pane, and [Network] is chosen by the second classification pane.

The "Network" dialog is displayed on the edit pane. Make a note of the present IP address.

Installation										×
Installation Information	Language	System Configurat	ion	Ship's Parameters	Settin	igs				
Subsystem Ins	tallation	IPAd	ldress							
CCRP				Own Task Stat	ion ——					
Serial Port					IP Addre	172. 1	6. 60. 11	Set		
Contact										
Data Output		Netw	ork Li	st						
Network			No.	IP Addr	ess	File Form t		Unit Name		
				172.16.6	0.11	New	No.1 RADAR			
								Make a note	e of	
								the IP addre		
		Del	ete					Ad	d Edit	
Synchronize t										
ornen lask St										

8. According to the following explanation, input the IP address of "Own Task Station" and click the [Set] button.

$_{igstacle}$ Own Task Station ————————————————————————————————————			
IP Address 169 . 2	54.161.	11 Set	
rk List			Click after input
1st to 3rd octet Input the default IP address of the printer.	4th octet Input a differen address of the	nt value from th printer.	ne default IP

9. Click the [Code Input] button of the "Menu" dialog. And after the password "9999" is input with the software keyboard, click the [Enter] button.

The task is finished and it returns to the task menu screen.

10. Input the password "0913" into the "Code input" box of the task menu screen.

The "Internet Explore" is displayed.



11. Input [http://IP address of printer] into the address bar.



"HP Officejet Pro 8100 N811a" page is displayed.



-

/hen followin	g error is displayed, delete "Temporary Internet files" as follows.	
Iex	plore.exe - Application Error	×
6	The instruction at "0x7d5398e3" referenced memory at "0x00000048". The memory could not be "writte	en".
	<u> </u>	
) Start Inter	net explorer again. Select "Tools" - "Internet Options"	
<u> </u>		
	1) Select <b>"Too</b>	ls".
<u>ن</u>	🔻 🖾 👻 🖃 🔻 Page 🔻 Safety 🕇 Tools 🕶 🔞	
	Diagnose Connection Problems	
	Pop-up Blocker	
	Manage Add-ons	
	Work Offline	
	Compatibility View Compatibility View Settings	
	Full Screen F11	
	Toolbars Explorer Bars	
	Developer Tools     F12	
	2) Select "Internet Opt	tions".
	D Internet Options	
"Internet (	)ntions" dialog is displayed. Click [Doloto 1 button	
General Security Pri	acy Content Connections Programs Advanced	
Home page		
To create h	mine page tably, type each address on its own line. mitcrosoft.com/fwilmit/filmitd=69157	
Browsing history —	Click [Delete] button	
Delete temp and web fo	uruar yınes, nistory, cookes, saved passwords, m information.	]
	Delete Settings	
Search Change sea	rch defaults. Settings	
Tabs		
Change hor tabs.	w weupages are uispid yed in <u>Settings</u>	
Appearance	Languages Fonts Accessibility	

-

Delete Browsing History		
Preserve Favorites website data Keep cookies and temporary Internet file websites to retain preferences and display	) Check <b>"Temporary Internet file</b>	s"
Temporary Internet files Copies of webpages, images, and media viewing.	that are saved for faster	
Cookies Files stored on your computer by website such as login information.	s to save preferences	
✓ History List of websites you have visited.		
Form data Saved information that you have typed in	nto forms.	
Passwords Saved passwords that are automatically to a website you've previously visited.	filled in when you sign in	
InPrivate Filtering data Saved data used by InPrivate Filtering to be automatically sharing details about yo	detect where web 2) Click [Delete] button	
About deleting browsing history	ete Cancel	

12. Click [Network] and select "IPv4" of "Wired (802.3)".

New K Summary              • New K Summary         • New Neeb         Services         Network         Services         Services         Network         Services	Home	Interfacione Construction/Page	HP Officejet Pro 81
» Statu≴ » IPv4 » IPv6	a deal Vible Service No. 100 (1997) (1997	intermediation       intermediation         Network 24       Second Part Second Part Part Part Part Part Part Part Part	> Home > Web Services Network >          1) Click "Network" tab         1) Click "Network" tab         General         > Network Summary         > Host Name         > Network Protocols         > Proxy Settings         Wired (602.3)         > Status         > IPv4

13. Enter "Manual IP Address", "Manual Subnet Mask" and "Manual Default Gateway" according to bellow diagram. After enter the value, click Apply button.

Ø         Ø         B         Station binne		
HP Officejet Pro 8100 N811a Exclusion Mito Scene where with Scene street street street	Network > IPv4	
IPV4 General P Advance Confuguration Candidate Confuguration Candidate Confuguration Candidate Confuguration Candidate Confuguration Provide Participants Pr	IPv4	
Wind (RD.3)         © Astematic (P)           • Minut (P)         • Minut (P)           • Minut (P)         • Minut (P)	IP Address Configuration	
August the back back bit (1), (2), (3), (3), (3), (3), (3), (3), (3), (3	Caution: Changing the IP address can disrupt the current co	nnection to the embedded Web server.
Advance         Character (2015 Server)           - Brown         - Brown (2015 Server)           - State         - Server (2015 Server)	C Automatic IP	
Along     Ander DND Setting     Advector     Ander     Ander	Manual IP	
A benerips	Manual IP Address	172 . 16 . 60 . 181
	Manual Subnet Mask	255 _ 255 _ 255 _ 0
	Manual Default Gateway	172 . 16 . 60 . 225
· 🗖		Suggest a Manual IP Address
Apply Cancel		

	No.1 Printer	No.2 Printer
IP Address	172.16.60.181	172.16.60.182
Subnet Mask	255.255.0.0	255.255.0.0
Default Gateway	172.16.60.225	172.16.60.225

- 14. After setup, close the "Internet Explore" and start a task.
- 15. Return the IP address of this equipment to the original value according to the procedure of 8.
- 16. The IP address assigned for the printer setup is added to Network List of the Network dialog. Check the line of relevance and click the [Delete] button.

Installation										×
Installation Information Lang	uage	System Configuratic	on Par	Ship's rameters	Setti	ngs				
Subsystem Installati	on	IP Add	ress							
CCRP			Owi	n Task Stat	tion —					
Serial Port					IP Addr	ess <u>172</u> .	16. 60. 11	Set		
Contact										
Data Output		Networ	k List –							
Network			No.	IP Addr		File Forma		Unit Name		
				172.16.6	60.11	New	No.1 RADAR			
				169.254.1	61.11	New	No.1 RADAR			
Synchronize the		Delet		1) Cheo 2)	ck ) Click	(Delete	e]button		Add Edit	
other Task Station										

5.Option Unit> 5.4 Printer

## 5.4.4 Equipment setup

The existence of a printer is set up by equipment setup of a subsystem.

Change the equipment setup of the subsystem in the "Subsystem Installation" dialog.

Note: Refer to 4.4 "Subsystem Installation".

1. Click the [Menu] button of the "Left Tool Bar".

The "Menu" dialog is displayed.

#### 2. Click [Code Input] button.

The "Password" dialog is displayed.

Menu	>										2/2	X
· 🔯	ÉS	×	?	*** *								
Settings	Chart Maintenance	Maintenance	Help	Code Input								
					* :	* * ;	*					
					1		2	3	CLR	×		
					4	1	5	6	Car	ncel		
					7	7	8	9	En	tor		
					÷	-	0	→		Lei -		

- 3. After the password "0009" is input with the software keyboard, click the [Enter] button. The [service] button is added to the menu. Once the [Service] button is added, it will be displayed until the task menu is finished.
- 4. Click the [Service] button of the "Menu" dialog.

The sub menu of [Service] is displayed.

Menu > Service	>		1/1	×
Adjustment	💦 Installation	📲 Maintenance		
				K

5. Click the [Installation] button.

The "Installation" dialog is displayed.

6. [System Configuration] is chosen by the first classification pane, and [Subsystem Installation] is chosen by the second classification pane.

The "Subsystem Installation" dialog is displayed on the edit pane.

Installation		×
Installation Information	System Ship's Settin	ngs
Subsystem Installation CCRP Serial Port Contact Data Output Network	Own Task Station Task Station 1 None IP Address(Main): IP Address(Sub): USB OPU TrackbalL	Device Installation          Task Station 1       None         Task Station 2       None         Task Station 3       None         Task Station 4       None         Task Station 5       None         Task Station 6       None         Task Station 7       None
Synchronize the	Serial OPU Trackball Junction Box 1 None Junction Box 2 None Junction Box 3 None None Junction Box 4	<ul> <li>RADAR1</li> <li>RADAR2</li> <li>VDR(JRC)</li> <li>Printer</li> <li>Heading Sensor 1</li> <li>Gyro</li> <li>Log 1</li> <li>2AX</li> <li>Log 2</li> <li>2AX</li> <li>GPS 1</li> <li>GPS 3</li> <li>GPS 4</li> </ul>
other Task Station		Set

7. Check [Printer] in "Device Installation" and click the [Set] button.

-	□ VDR(JRC)	1) Check		
	Printer			
	✓ Heading Sensor 1	Gyro	•	
	🗆 Heading Sensor 2	Gyro	•	
	⊡ Log 1	2AX	•	
	🗆 Log 2	2AX	•	
	GPS 1			
	🗆 GPS 2			
	GPS 3			
	GPS 4		<b>•</b>	
	2)(			
Set	t		_	

## 5.4.5 Confirming Printing Operation

Confirm the printer prints normally on the sheet according to the following procedures.



1. Click the [Print] button of "Left Tool Bar".



2. Confirm a screen image on display is printed.

#### When the image cannot printed

Set the printer port refer to the following steps.

## In this steps need the keyboard. When there is no keyboard operating unit, prepare the keyboard of a USB interface.

1. Input the password [9999], and click the [Enter]. Task manager will open.



## 2. Select the [File]-[New Task(Run...)].

New Task (Rur	ı)	Pe formance	Networking	Users		
Exit Task Mana	iger	CPU	Memory (	Handles	Image Path Name	Command Line
		00	780 K	57	C:\Windows\System32\svchost.exe	C:\Windows\System32\
sychost.exe	LOCAL	00	6,368 K	405	C:\Windows\System32\svchost.exe	C:\Windows\System32
SMSvcHost.exe	LOCAL	00	4,916 K	266	C:\Windows\Microsoft.NET\Framework\v4.0	C:\WindowsWicrosoft.M
sychost.exe	LOCAL	00	3,952 K	387	C:\Windows\System32\svchost.exe	C:\Windows\system32\
audiodg.exe	LOCAL					
svchost.exe	LOCAL	0	Solor	t the	Now Tack/Pup	system32
svchost.exe	LOCAL	0	Selec		Elivew Task(Rull	system32
TCPSVCS.EXE	LOCAL	0				System32
svchost.exe	LOCAL	00	1,340 K	123	C: \Windows\System32\svchost.exe	C:\Windows\system32\
taskhost.exe	mfd	00	1,836 K	179	C:\Windows\System32\taskhost.exe	"taskhost.exe"
dwm.exe	mfd	00	1,132 K	71	C:\Windows\System32\dwm.exe	"C:\Windows\system32
JRCShell.exe	mfd	00	1,740 K	139	C:\Windows\JRCShell.exe	JRCShell.exe
cmd.exe	mfd	00	852 K	25	C:\Windows\System32\cmd.exe	C:\Windows\System32
conhost.exe	mfd	00	1,184 K	51	C:\Windows\System32\conhost.exe	\??\C:\Windows\system
mspaint.exe	mfd	00	4,572 K	131	C:\Windows\System32\mspaint.exe	C:\Windows\system32
taskmgr.exe	mfd	00	2,936 K	133	C:\Windows\System32\taskmgr.exe	taskmgr.exe /3
explorer.exe	mfd	00	9,296 K	442	C:\Windows\explorer.exe	C:\Windows\explorer.e
mqsvc.exe	NETWO	00	2,228 K	229	C:\Windows\System32\mqsvc.exe	C:\Windows\system32\
svchost.exe	NETWO	00	2,060 K	255	C:\Windows\System32\svchost.exe	C:\Windows\system32\
svchost.exe	NETWO	00	3,552 K	336	C:\Windows\System32\svchost.exe	C:\Windows\system32\
mqtgsvc.exe	NETWO	00	1,292 K	173	C:\Windows\System32\mqtgsvc.exe	C:\Windows\system32
nfscint.exe	NETWO	00	1,188 K	102	C:\Windows\System32\nfsdnt.exe	C:\Windows\system32\
SMSvcHost.exe	NETWO	00	2,684 K	172	C:\Windows\Microsoft.NET\Framework\v4.0	"C:\Windows\Microsoft.
ennews eve	NETWO	00	1 444 K	157	C+\Windows\System37\snnsvc.eve	C+IWindowsIsvetem321
•						•
Show processe	s from all user	s				End Process

3. Following dialog opens. Input the [explorer] and click the [OK] button.

Windows Task N	/lanager				
Options Vi	ew Help				
Create New Ta	sk				
Type t	he name of a pr	rogram, folder,	document, or l	Internet	1)Input the [Explorer]
resource	ce, and Window	vs will open it f	or you.	/	dows\System32\svchost.exe
					dows\System32\WUDFHost.exe
Open: explo	121				dows (System 32 (svchost, exe
🚱 ТІ	nis task will be o	created with ad	ministrative pri	vileges.	dows/System32/sychost eve
					dows\System32\audiodq.exe
	_	_			dows\System32\svchost.exe
	ОК	Canc	el Bro	wse	dows\System32\svchost.exe
	L				dows\System32\TCPSVCS.EXE
		_		1	dows\System32\sychost.exe
taskhost.exe	mfd	00	1,832 K	2)0	lick the TOK L button
dwm.exe	mfd	00	1,132 K		
JRCShell.exe	mfd	00	1,740 K	139	C:\Windows\JRCShell.exe
dinotify.exe	mfd	00	1,036 K	68	C:\Windows\System32\dinotify.exe
and ava	mfd	00	852 K	25	C:\Windows\System32\cmd.exe
unu.exe					

4. Click the [Open Control Panel] from the open explorer.

Windows Tas	sk Manager		
le Options	🚱 🔍 💌 🕨 Computer 🕨		
Image Nan	File Edit View Tools Help		
svchost.ex	Organize  Properties System pro	operties Uninstall or change a program	Map network drive Open Control Panel
SMSvcHos svchost.ex audiodg.ex svchost.ex svchost.ex TCPSVCS.8	<ul> <li>✓ ☆ Favorites</li> <li>■ Desktop</li> <li>B Downloads</li> <li>W Recent Places</li> </ul>	Hard Disk Drives (2)      Local Disk (C:)      2.06 GB free of 6.87 GB	Loral Disk (D:) 54.0 GB free of 167 GB
svchost.ex taskhost.e dwm.exe	Click the [Open	Control Panel].	]/
dinotify.ex rundll32.ex cmd.exe conhost.ex	<ul> <li>Image: Masic</li> <li>Pictures</li> <li>Videos</li> </ul>		
mspaint.ex taskmgr.ex explorer.e explorer.e	Computer     Local Disk (C:)     Local Disk (D:)		

5. Click the [Devices and Printers] from [Control Panel].

File Options			
Applications	🚱 🗢 💷 🕨 Control Panel 🕨 All Con	trol Panel Items 🕨	• fy
Image Nan	File Edit View Tools Help		
sychost.ex			
SMSvcHost.ex	Adjust your computer's settings		View by: Small icons 🔻
audiodg.es svchost.ex	😨 Administrative Tools	📑 AutoPlay	Color Management
svchost.ex	Credential Manager	骨 Date and Time	
TCPSVCS.	📑 Desktop Gadgets	🚔 Device Manager	B Devices and Printers
svchost.ex taskhost.e	🕎 Display	Ease of Access Center	Devices and Printers
dwm.exe	💦 Fonts	🝓 HomeGroup	View and manage devices, printers,
JRCShell.e	🚇 Indexing Options	🛃 Intel(R) Graphics and Media	and print jobs
rundll32.ex	📖 Keyboard	Mouse	Network and Sharing Center
cmd.exe	🛄 Notification Area Icons	Personalization	🛄 Phone and Modem
mspaint.ex	Power Options	Programs and Features	🔊 Region and Language
ex ex m	ick the [Devices and	Printers].	Sync Center     User Accounts
svchost.ex	C20		

6. Right-click the [HP Officejet Pro 8100(Network)] and select the [Printer properties].



7. Click the [Add Port] button from[Ports] tab.

Print to the for	P Officejet Rro 8100 (	Color Management   Se     Se     Detwork     Dick the uments will print to the	curity Device Settings e [Ports] tab. first free		
Port	Description	Printer			
COM1:	Serial Port				
COM2:	Serial Port				
COM5:	Serial Port				
COM6:	Serial Port				
FILE:	Print to File		E		
XPSPort:	Local Port	Microsoft XPS Do	ocument Writer		
🔽 CN212	HP network re-dise	ov HP Officejet Pro 8	8100 (Network) 📼		
Add Port Delete Port Configure Port					
Z Enable bid	iraction a support				
Enable printer pooling 2)Click the [Add Port].					

8. Select the [Standard TCP/IP Port] and click the [New Port...] button.

HP Officejet Pro 8100 (Network) Properties				
General Sharing Ports Advanced Color Management Security Device Settings				
Available port types: 1)Click the [Standard TCP/IP Port] tab.				
Local Port Lick Port Standard TCP/IP Port				
New Port Type Cancel				
HILE: Print to File     XPSPort: Local Port Microsoft XPS Document Writer     ✓ CN212 HP network re-ofscov HP Officejet Pro 8100 (Network)				
2)Click the [New Port] button.				
Enable bidirectional support     Enable printer pooling				
OK Cancel Apply				

9. Following dialog opens. Check the printer is connected to the network and turned on. After checking, click the [Next] button.

Add Standard TCP/IP Printer Po	rt Wizard	
	Welcome to the Add Standard TCP/IP Printer Port Wizard	
	This wizard helps you add a port for a network printer.	
	Before continuing be sure that:	
	1. The device is turned on.	
	2. The network is connected and configured.	
Click the [N	ext] button.	
	To continue, click Next.	
	< Back Next > Cancel	

10. Input the No.1 Printer IP address-[172.16.60.181] and click the [Next] button. When set the No.2 Printer, input the IP address [172.16.60.182].

	L					
	Add Standard TCP/IP Printer Port Wizard					
	Add port For which device do you want to add a port?					
1)Input the IP address.						
	Printer Name or IP Address:	172.16.60.181				
	Port Name:	172.16.60.181				
-						
	2)Click the [Next] button.					
		< Back Next > Cancel				

11. Click the [Finish] button.

Add Standard TCP/IP Printer Po	rt Wizard				
	Completing th Printer Port W You have selected a	Completing the Add Standard TCP/IP Printer Port Wizard You have selected a port with the following characteristics.			
	SNMP: Protocol:	Yes RAW, Port 9100			
	Device:	172.16.60.181			
	Port Name:	172.16.60.181			
	Adapter Type:	Officejet Pro 8100 N811a			
1)Click the [Finish] button.					
To complete this wizard, click Finish.					
		< Back Finish Cancel			

Setting of the printer port is end. Restart the display unit, and confirm a screen image on display is printed. Refer to the **5.4.5 Confirming Printing Operation**.

12. Set the other display unit about the printer port By the same procedure(When the image cannot print 1-11).

Setting of the printer port is end above.