

# **J30 Thin Client**

# **User Guide**

Version 1.7

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Formatting Conventions:

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#### 1 Introduction

J30 thin client is based-on ARM cortex A9 4-cores 1.6GHz CPU and 1GB DDR3 memory. In additional, it is powered by deeply-optimized linux OS. The main features include:

- Up to 1080p resolution and 32bpp color depth.
- Small and exquisite without fan.
- Very low power consumption.
- Support Microsoft RDP 8.0 client.
- Support RemoteFX graphic feature.
- Smoothly on-line video.
- Support J-Player
- Easy firmware upgrade.
- Support USB redirection.

# 2 Interfaces

Size: 120 x 120 x 30 mm





System	Description			
CPU	ARM Cortex A9 1.6GHz, 4 Cores			
Memory	DDR3: 1GB			
Flash	NAND Flash: 2~8GB			
Network	10/100M based-T RJ45 port			
WiFi	Optional			
Audio Input	MIC input, 3.5mm mini jack			
Audio Output	Audio output, 3.5mm mini jack			
USB	3xUSB ports			
VGA	Up to 1920 x 1080, 60Hz, 32bpp color depth			



Power Input	DC, 5V, 2000mA			
Power Switch	Light push power switch			
Power Adapter	Input: AC, 100-240V, 50/60Hz			
	Output: DC, 5V, 2000mA			
Size	Height: 30mm, Width: 120mm, Depth: 120mm			
Power Consumption	< 7W			
Cooling	None fan			
Noise	0db			

# 3 Connection Diagram



FIG.3-1 Connect J30 thin client to a remote desktop server

# 4 System Guide

Please install the J30 thin client device as FIG.3-1 shows.

#### 4.1 Boot Screen







When the thin client power on, monitor will display the boot screen as FIG.4-1 shows, there is a progress bar under the logo stands for the boot status. While success boot, the device goes to "Network Initialization" phase.

A Notice, If the monitor cannot support the device's resolution output, it maybe display a black screen, please refer to the chapter 6 to restore the default resolution setting.

#### 4.2 Network Initialization

At the network initialization phase, show as FIG.4-2, the device will check the local network connection and the IP settings. After the successful network initialization, the device goes to auto connecting phase.



FIG.4-2 Network Initialization

Notice, if fail to initialize the network, please check the following possible reason:

- 1) No available cable connection.
- If the device is set to use dynamic IP address and fail to acquire IP settings from DHCP server, please check the DHCP services.

#### 4.3 Auto Connecting

If there is none automatic connection setting, the device will skip the auto connecting phase. Otherwise, the device starts the auto connecting after 5 seconds countdown. You can cancel the auto connect with 【Cancel】 button or "Esc" key, show as FIG.4-3a and FIG.4-3b.



FIG.4-3a 5-second Countdown





FIG.4-3b Starting Auto Connecting

When the auto connecting is failed, the device will retry after 15-second countdown, unless you cancel it, show as FIG.4-3c.

Re-connecting					
Fail to auto connecting, retry 15 seconds later					
	Cancel				

图 4-3c Auto Connecting Retry

#### 4.4 Control Centre

As FIG.4-4a shows, administrator password should be provided before enter the control centre.

Password	
Administrator Password:	
ОК	Cancel

FIG.4-4a Login to Control Centre

A Notice, If there is none administrator password setting, the device will skip FIG.4-4a dialog and enter control centre directly. Please refer to chapter 4.12 to set administrator password.



Control Centre							
	Connection Settings						
Connection Settings	Deskpool						
~	Add Deskpool Connection	on Add Microsoft RDP Connection					
<b>Display Properties</b>							
Network Settings	Name	Туре	Server Address	Auto Connect	A	Actions	
	Test1	MS RDP	192.168.1.10		Connect	Edit	Delete
	Test2	Deskpool	192.168.1.11		Connect	Edit	Delete
<b>N</b> ?	Test3	MS RDP	192.168.1.12		Connect	Edit	Delete
Network Diagnosis							
System							
					Networ	rk Status	s: Connected

FIG.4-4b Control Centre

As FIG.4-4b shows, control centre is divided into three function zones:

- Main Menu List
- Setting Window
- Status Bar

Main menu include the following menus:

- Connection Settings: Management the remote desktop connections
- Display Properties: Resolution and language settings
- Network Settings: Network parameters
- Network Diagnosis: Diagnose the network with ping
- System: Show the system information and system level functions

# 4.5 Connection Settings

Click 【Connection Settings】 menu, enter the connection setting window shown as

FIG.4-5a, the table surrounded by red dotted line is connection record table.



Control Centre							
	Connection Settings						
Connection Settings	Deskpool		<b>N</b>				
~	Add Deskpool Connection	Add	Microsoft RDP Connection				
Display Properties							
Network Settings	Name	Туре	Server Address	Auto Connect	/	Actions	
	Test1	MS RDP	192.168.1.10	$\checkmark$	Connect	Edit	Delete
	Test2	Deskpool	192.168.1.11		Connect	Edit	Delete
	Test3	MS RDP	192.168.1.12		Connect	Edit	Delete
Network Diagnosis							
							!
0							
System							
					Netwo	rk Status	: Connected

FIG.4-5a Connection Settings Window

# Connection Type

J30 thin client supports two kinds of connection:

- Deskpool Connection: Deskpool login-in connection configuration, adopt Microsoft RDP 8.0 version with RemoteFX graphic feature enabled.
- Microsoft RDP Connection: Microsoft remote desktop server accessing configuration, adopt Microsoft RDP 8.0 version with RemoteFX graphic feature enabled.

Notice, the web portal would act as an entry of a remote desktop system instead of a standard web browser.

#### Connection List

The connection table includes the following items:

- Name: Connection name.
- ◆ Type: Deskpool、Microsoft RDP.
- Server Address: Remote desktop server address.
- ◆ Auto Connect: Enable or disable the auto connecting setting.
- Actions: [Connect], [Edit], [Delete] operation buttons

#### 4.6 Add Deskpool Connection



Click 【Add Deskpool Connection】, popup the "Add Deskpool Connection" dialog as FIG.4-6 shows:

Add Deskpool Connection						
Connection Name:						
Server Address:						
	Remember Account					
User Name:						
Password:						
ОК	Cancel					

FIG.4-6 Add Deskpool Connection

Input the following information before click **[OK]** button:

[Connection Name] : Name of this connection

[Server Address] : Address of remote deskpool server

If you check the 【Remember Account】 check box, please fill the deskpool login account information:

[User Name] : A deskpool user name.

**[**Password **]** : Password of the deskpool user.

# 4.7 Add Microsoft RDP Connection

Click 【Add Microsoft RDP Connection】, popup the "Add MS RDP Connection" dialog as FIG.4-7a shows:

Input the following information before click **(OK)** button:

[Connection Name] : Name of this connection.

[Server Address] : Address of remote desktop server.

If you check the 【Remember Account】 check box, please fill the remote desktop login account information:

[User Name] : A remote desktop user name.

[Password] : Password of the remote desktop user.

[Domain] : Domain name. If no domain server, keep empty.



Add MS RDP Connection							
General Options Experience							
Connection Info							
Connection Name:							
Server Address:							
Remember Account							
User Name:							
Password:							
Domain:							
OK Cancel							

FIG.4-7a Add Microsoft RDP Connection

FIG.4-7b show the options for Microsoft RDP connection, include the personalized options and the auto-run program.

Add MS RDP Connection							
General Options Experience							
Personalization     Local disk mapping     Reconnect if connection is dropped     Sound mapping     WLAN compressing     Enable RemeteEX (For Hupper)/ Platform)							
Redefine the RDP port : 3389     Enable Network Level Authentication(NLA)							
Start a program							
OK Cancel							

FIG.4-7b Microsoft RDP Options

A Notice, When the RemoteFX successfully enabled, it will adopt the 32bpp color depth automatically.



FIG.4-7c show the experience settings for Microsoft RDP connection and the default selections.

Add MS RDP Connection
General Options Experience
Colors
© 32 bpp 💿 16 bpp
Performance
Desktop background
Font smoothing
Desktop Composition
☑ Themes
Bitmap caching
Show contents of window while dragging
Menu and window animation
OK Cancel

FIG.4-7c Microsoft RDP Settings

# 4.8 **Display Properties**

Click 【Display Properties】 menu, enter the display properties window shown as FIG.4-8a.

Control Centre				
		ĺ	Display Properties	
Connection Settings	Desclution	800 - 500	5	
	Resolution	800 x 600	Save	3
Display Properties	Language	English		•
			Save	9
Network Settings				
Network Diagnosis				
System				
				Network Status: Connected

FIG.4-8a Display Properties

Resolution Setting



Select a resolution at 【Resolution】 list box, and click 【Save】 button, a notification dialog will be popped up shown as FIG.4-8b to confirm the change.

Notification		
The device will r	eboot to apply the	new resolution setting, continue?
	Confirm	Cancel

FIG.4-8b Notification to Change Resolution

Click the **【**Confirm **】** button at FIG.4-8b to apply the new resolution, the device will auto reboot to apply it. When it reboot up, a confirm dialog will be shown as FIG.4-8c, the new resolution must be accepted before the 15-second timeout, Otherwise, the system will give up the new resolution setting and reboot to restore the original setting.

Notification		
New resolution setting has been applied, accept it ? 15		
Accept Cancel		

FIG.4-8c Notification to Accept Resolution Setting

A The monitor maybe show black screen when it is not comparable with the resolution changing, please do nothing, just wait for the device restore to the original resolution automatically.

# Language Setting

You can change the language setting by selecting 【简体中文】 or 【English】 at language list box, and then click 【Save】 button, the control centre will switch to the new language mode.

# 4.9 Network Settings

Click [Network Settings] menu, enter the network setting window shown as FIG.4-9a.



Control Center	
	Network Settings
Connection Settings	Wired Network PPPoE
Display Properties Display Properties Network Settings Network Diagnosis	Setting:       DHCP         IP Address:       192.168.1.30         Subnet Mask:       255.255.255.0         Gateway:       192.168.1.1         DNS 1:       192.168.1.70         DNS 2:       202.96.134.133         Refresh
System	
	Network Status: Connected

FIG.4-9a Network Settings

# Wired network settings

Two kings of settings for wired network parameters

1) DHCP mode

In DHCP mode, the network parameters will be dynamically acquired from DHCP server, you can click 【Refresh】 button to refresh them.

2) Static IP mode

In static IP mode, you have to input the IP address, subnet mask, gateway IP, DNS 1 and DNS 2 IP.

A Notice, in the static IP mode, you must make sure none IP address conflict.

Click **[PPPoE]** button, enter the PPPoE setting window shown as FIG.4-9b.

#### PPPoE settings

Input the account for PPPoE connection in 【Username】 and 【Password】 edit boxes, and press 【Connect】 button to start the PPPoE connection. 【Save】 button is used to save the account information.

If you select the 【Auto Connect】 check box, the device will start the PPPoE connection automatically when it boots up.

Pressing [Log] button to show the log information of the last PPPoE connection.



When the PPPoE connection is established successfully, the IP address information will be shown at the half bottom of this window.

Control Center	
	Network Settings
Connection Settings	Wired Network PPPoE
Display Properties	Username : Password : Auto Connect : Connect Save Log
Network Settings	IP Address :
Network Diagnosis	Subnet Mask : Gateway : DNS 1 :
System	DNS 2 :
	Network Status: Connected

FIG.4-9b PPPoE Settings

#### 4.10 Network Diagnosis

Click 【Network Diagnosis 】 menu, enter the network diagnosis window shown as FIG.4-10.

Control Centre	
	Network Diagnosis
Connection Settings	Destination address to ping : For example : 192.168.1.10 or www.example.com
Display Properties	Ping parameters
Network Settings	<ul> <li>Keep sending packages</li> <li>Send only</li> <li>Packages</li> <li>Ping package length:</li> <li>bytes</li> </ul>
Network Diagnosis	Ping Cancel
System	
	Network Status: Connected

FIG.4-10 Network Diagnosis



In the <Network Diagnosis> window, You can check whether the network connection or destination server is available with ping operation, in additional, the parameters of ping command could be adjusted.

#### 4.11 System

Click [System] menu, enter the system window shown as FIG.4-11a.

Control Center				
		System		
Connection Settings	Information Voice	Operation Time		^
	System Information			
	System Name :	JY0000001		
Display Properties	Device Name :	J30		
	Device Type : Dist: Connaity :	130131010A		
	Memory Capacity :	1GB		
<b>N</b>	CPU Info :	Cortex A9,4Cores,iHz		
Network Settings	Wired NIC :	4a:59:5a:76:90:6d		
	Wireless NIC :	N/A		
	Image Release Time :	201312070011017		
Network Diagnosis	Software Information			
	Operation System :	JYThinclient 1.5		
	RDP Protocool :	7.1		
	Deskpool VDI Agent :	1.0		
System				$\sim$
			Network Status: Con	mected

FIG.4-11a System Information

# System Information

The system information includes the following entries: [System Name], [Product Name], [Product Key], [Disk Capacity], [Memory Capacity], [CPU Info], [Wired NIC], [Wireless NIC], [Image Release Time].

#### Software Information

The software information includes the following entries: [Operation System], [RDP Protocol], [Deskpool VDI Agent].

Click [Voice] button, enter the voice setting window shown as FIG.4-11b. There are earphone volume and microphone volume settings.



Control Center	
	System
Connection Settings	Information Voice Operation Time
Disnlay Properties	Volume  Mic Volume
Network Settings	
Network Diagnosis	
<b>U</b> System	
	Network Status: Connected

FIG.4-11b Voice Setting

Click [Operation] button, enter the operation button window shown as FIG.4-11c. There are [Restart], [Upgrade], [Export Log] and [Password] buttons.

Control Center	
	System
Connection Settings	Information Voice Operation Time
	Action
	Restart Upgrade Export Log
Display Properties	Dassword
Network Settings	
<€	
Network Diagnosis	
<b>i</b> System	
	Network Status: Connected

FIG.4-11c Operations

# Restart System

Click [Restart] button and confirm this operation, the device will reboot automatically.

# System Upgrade

The procedure to upgrade the system firmware:



Phase I, prepares to upgrade:

- 1) Download upgrade package from <u>www.jieyung.com</u> (update.jytc);
- 2) Prepare a USB storage with FAT format;
- 3) Copy the update.jytc file to root directory of the USB storage ;

Phase II, upgrade the firmware:

- Power on the thin client and remember the value of [Firmware Version] at 
   System> window;
- 5) Insert the USB storage to the device;
- 6) At <System> window, click [Upgrade] button, and confirm the operation;
- System prompt: "System is upgrading, please wait...", After a few minutes, the device will reboot automatically;
- If there is a new [Firmware Version] in system window, the upgrade is successful.

ANote: Please do not power off the device at the step 7 of upgrade phase II.

#### Export Log

Click **[**Export Log**]** to export the system log with the following steps:

- 1) Insert a FAT formatted USB storage to a USB port.
- 2) In <System> window, click [Export Log] button and confirm to export the log;
- 3) Unplug the USB storage, there will be a latest log file at root directory named system.tar.gz.

#### Change Password

Click 【Password】 button to set or change the administrator password shown as FIG 4-11d.

Change Password	
Old Password :	
New password :	
Password Confirm :	
ОК	Cancel

FIG.4-11d Change Password





- 1) None administrator password with the factory default settings.
- 2) If lost the administrator password, please refer to chapter 6 to restore the factory default settings.

Click **【**Time **】** button, enter the time setting window shown as FIG.4-11e.This device supports internet time, please enable the NTP check box and input the time server URL.

Control Center		
	Syst	em
Connection Settings	Information Voice Operation Time	T
	Date & lime	I imezone
Display Properties	<b>3</b> Jan 🗸 2014 🗸 <b>9</b>	Zone Asia
	Su Mo Tu We Th Fr Sa	City Chongqing
(*)	5 6 7 8 9 10 11	Internet Time
Network Settings	12 13 14 15 16 17 18 19 20 21 22 23 24 25	Enable NTP
	10         10         11         12         13         14         15           26         27         28         29         30         31	Example: 192.168.1.10 or www.example.com
Network Diagnosis		
System		Save
		Network Status: Connected

FIG.4-11e Time Settings

# 5 Restore Factory Default Settings

To restore the factory default settings will clear user configuration and system log, There are three steps to restore factory default setting:

Step 1: Power on the device and cancel auto connecting;

Step 2: Press 【Ctrl+Alt+Shift+F2】;

Step 3: Click 【Confirm】 button in the notification dialog shown as FIG.5-1. The

device will reboot to restore the factory default setting.







#### 6 FAQ

#### 6.1 How to restore default resolution?

Three steps to restore the device output resolution to default setting with 800x600: Step 1: Power on and waiting for the end of boot screen (Shown as FIG.5-1); Step 2: Keep pressing 【Ctrl+Alt+Shift+s】 keys for 5~10 seconds; Step 3: Waiting for reboot and check the new resolution.

#### 6.2 How to resolve the audio problem with google chrome browser?

With the recent release of Google Chrome Version 21 and later, Google made a change and instead of using Adobe's Flash, they now use something new called Pepper Flash. The problem is that the Pepper Flash cannot work well with Microsoft RDP, which will degrade the remote audio mapping. Please follow the steps below to disable the new Pepper Flash:

1. Open the chrome plugins page by typing this URL into the address bar: chrome://plugins



2. Find the "[+] Details" button in the upper right to show the details of each installed plugin and click this button.

ste Plug-ins ×	
← → C fi C chrome://plugins	4 2 4
Plug-ins	
Plug-ins (17)	① Details
Flash (3 files) - Version: 11.3.31.222 Shockwave Flach 11.3 /31	

3. Find the flash plugin section in the list of plugins. There may be (1 file), (2 files) or (3 files) in this section.





- 4. In the Flash section there should be 2 or 3 different versions of flash listed. If the flash section only has one flash file listed, <u>click here</u> to go to the Adobe website and download and install the <u>Adobe Flash Plugin</u> for non-Internet explorer browsers.
- 5. The first plugin listed in the flash section is the pepper flash implementation. You can tell that the first one is pepper flash by looking for "Pepper Flash" in the Location string. See yellow highlight below.
- 6. Find the "Disable" link and click that link.



7. Now close all open chrome windows and tabs and restart chrome and it should work well with remote desktop protocol.

