# Lantech-View Pro

**User's Manual** 

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# Getting to Know Your switch

### 1.1 About the Lantech Switch

The Lantech Switches can be managed by a powerful utility-LANTECH-VIEW PRO. With Lantech-View Pro installed, which provides a powerful interface for users to manage all switches in the network, users can set parameters to multiple switches at the same time. LANTECH-VIEW PRO is not only a powerful utility for users to configure but also a useful utility to administrate and monitor the connected switches. When the monitored switches fail, the failure information will be displayed on the LANTECH-VIEW PRO interface



### 1.2 Installing Java Machine

Please make sure you have installed Java Runtime Environment (JRE) on your computer. If not, you can download JRE Version 6 Update 3 from SUN website: http://java.sun.com/javase/downloads/index.jsp.

### 1.3 System Requirements

#### **Operating System:**

Microsoft Windows XP, or 2000

#### Screen Resolution:

1024 x 768, 16-bit color or above

#### Processor:

Pentium 3/800 MHz, or AMD Athlon 1000, or above

#### Memory:

512 MB RAM (1 GB or above is recommended)

#### Hard Disk Space:

200 MB at least

#### **CD/DVD Burning Device:**

The CD or DVD recorder (CD-R/RW, DVD+R/RW or DVD-R/RW) is required to burn VCD/DVD/SVCD/Mini-DVD titles.

### 1.4 Preparing to Install Lantech-View Pro

Before using Lantech-View Pro, users need to install the driver for the security key first. Double click on the Sentinel System Driver Installer icon to start the installation process.



#### Step 1 After the execution of Lantech-View Pro.exe, the Lantech-View Pro installation wizard starts.



### Step 2

Select the I accept the items in the license agreement radio button and click Next.



#### Step 3 Select the setup type for the *Complete* or *Custom* installation.



#### Step 4

After selecting the setup type, click *Install* to begin the installation or click *Back* to return to the previous step.



#### Step 5

After clicking the *Install* button, the program is being installed. Please wait while the taskbar is in progress.



#### Step 6

When the installation is completed, click *Finish* to exit the installation wizard.



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## Applying LANTECH-VIEW PRO to Switch Connection

### 2.1 Getting Started with LANTECH-VIEW PRO

Select "Start" $\rightarrow$  "All Programs"  $\rightarrow$  "LANTECH-VIEW PRO" to launch LANTECH-VIEW PRO.

### 2.2 Confirming Network Setting of PC

First of all, double check the configuration of the PC's IP address, subnet mask, default gateway, etc. Make sure the PC and the switch are connected to default gateway which you wish to connect properly.

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192 . 168 . 16 . 66
255 . 255 . 255 . 0
192 . 168 . 16 . 254
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### 2.3 Discovering Devices in the Networks

#### Devices in the same network segment

As illustrated in the figure below, a PC with Lantech-View Pro installed and two switches are connected to the same subnetwork.



When the monitoring PC and the managed switches are connected to the same subnetwork, click "Discovery" directly on the Lantech-View Pro to search the switches

#### **Devices in different network segments**

If the monitoring PC and the managed switches are located in different networks, as illustrated in the figure below, then users need to use the advanced search function to search the switches.



Make sure the PC and the switches are connected to Default Gateway which you wish to connect properly. If the Network is proper, launch LANTECH-VIEW PRO and click "Add Discovery Task" to bring up the task dialog box.

If the Network is proper, launch LANTECH-VIEW PRO and click the "Add Discovery Task" button to bring up the task dialog box.

Add new o	liscovery task			X	
Begin IP:	0	. 0	. 0.	0	
End IP:	0	. 0	. 0.	0	
NetMask	255	. 255	. 255.	0	
Timeout(S):	5				
Retries:	1				
Port:	161				
snmpv1/s	nmpv2c	🔿 sn	mpv3		
Community:	Community: public				
RwCommu	RwCommunity: private				
OK Exit					

With the dialog box showing up, key in the values respectively to search the devices whose conditions accord with the specified values.

Begin IP: Key in the begin IP address as the searching condition.

**End IP**: Key the end IP address as the searching condition.

**NetMask**: Key in the netmask.

**Timeout(s)**: Key in the timeout period in seconds.

**Retries**: Key in the value determining how many times the search will retry. **Port**: Key in the port number as the searching condition.

#### SNMPv1/SNMPv2c:

SNMPv3: Select the radio button

Click "OK" to start searching for switches or "Exit" to quit the dialog box.

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# LANTECH-VIEW PRO Main Interface

The LANTECH-VIEW PRO main interface shown as below mainly consists of the following parts:

- 1. Menu Bar
- 2. Tool Bar
- 3. Event Bar
- 4. Tree View
- 5. Inspector Area
- 6. Data Grid

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Event 🗙 0 🚹 0 🚯 0	<b>□</b> 3.				
in tanoman	🔩 topoMap	💧 User Management 🔀			×
Benormal States St	Sers	UsenName Password Confirm Password Email Address Department Mobile		5.	
			Add Modify Rem	love	
TrapView 🛛 😥 ThresholdE	ivents				X
ID		IP	Description		ReceiveTime
		6.			
Total: 0					
root					Version 1.1.20 🔩 38/54Mb

### 3.1 File Menu

Click File to pull down the menu for Discovery, Clear Events, Export, Import and Exit functions.



Task	Description		
Discovery	Click Discovery to discover the switches on the same subnet.		
	All discovered switches will be displayed on the management		
	interface of LANTECH-VIEW PRO. LANTECH-VIEW PRO discovers		
	switches in accordance with the conditions of the discovery task.		
Clear Events	Click to clear all events.		
Export	Click to export/save the topology data.		
Import	Click to import/read the topology data.		
Exit	Close the Lantech-View Pro.		

### 3.2 Edit Menu

Click Edit to pull down the menu for Delete, Map Info, Symbol Info, Tool Bars and Exit functions.



Task	Description	
Delete	Delete the selected node.	
Map Info	Click to bring up the Map Info window.	
System Info	Click to bring up the System Info window.	
Tool Bars	Click to extend the submenu allowing users to enable/disable the buttons showing on the tool bar.	
Device Detail	Click to bring up the device detail window.	

### 3.3 Tools Menu

Click Tools to pull down the menu for Mib Browser, Web Browser, Connect Telnet, Poll Node, Mib Compiler, View PerfStatics, Throughput Monitor, Group IP and Group Firmware Update functions.



Task	Description
Mib Browser	Click to open the MIB Browser tab.
Web Browser	Click to open Web Browser.
Connect Telnet	Click to open Telnet Terminal.
Poll Node	Node polling.
Mib Compiler	Click to open the MIB compiler.
View PerfStatics	Click to open the Performance Statistics window.
Throughput Monitor	Click to bring up the Throughput Monitor window.
Group IP Setting	Click to open the Group IP Configuration tab.
Group Firmware Update	Click to open the Group Firmware Update tab.

### 3.4 Monitor Menu

Click Monitor to pull down the menu for Status Monitor, System event, Trap View, Discovery Monitor and Threshold Event Monitor functions.



Task	Description
Status Monitor	Click to open the Status Monitor tab.
Syslog Event	Click to open the Syslog Event tab.
Trap View	Click to open the Trap View data grid at the bottom of the main window.
Discovery Monitor	Click to open the Discovery Monitor tab at the bottom of the main window.
Threshold Event Monitor	Click to open the Threshold Events data grid at the bottom of the main window.

### 3.5 View Menu

Click View to pull down the menu to close the particular tab or close all tabs at a time.



### 3.6 Help Menu

Click Help to pull down the menu to get help or read information related.



### 3.7 Tool Bar

The functions grouped on the menus can also be launched by clicking the icons on the tool bar. Please see the table below for quick reference.

Icon	Description
	Click to return to the previous page.
Þ	Click to return to the next page.
2	Refresh the current screen.
	Click to show the Topology Map screen.
6	Clear events.
9	Click to bring up the discovery task dialog box.
	Export/save the topology data.
	Import/read the topology data.
-	Close the Lantech-View Pro client.
•••	Click to open the MIB Browser tab.
۲	Click to open the web browser interface.
Т:	Click to open the Telnet Terminal applet.
	Nodes polling.
1	Click to open the MIB Compiler tab.
Ū.	Click to view Performance Statistics.
di	Click to open the throughput monitor.
*	Open the Group IP Configuration wizard.
*	Open the Group Firmware Update wizard.

-0	Open the Status monitor.		
1	Click to view the Syslog Event information.		
<b>Q</b>	Click to open the Trap viewer.		
Q	Click to open the Discovery Message viewer.		
<b>(</b>	Open the Threshold Event monitor.		

### 3.8 Event Bar

The event bar displays the count of events including error, warning and information events.



### 3.9 Tree View & Inspector Area

The tree view structure on the left side gives users an obvious view to handle the powerful functions in advance. Note that a tab for the related tree node will shows up in the Inspector Area when you double click any one of the tree node.



### 3.9.1 ТороМар

1. Double click the tree node of TopoMap to open the topomap tab.

2. Click the discovered network segment(s) to view the devices located in the network. And the topology map will display on the topomap tab.



#### A. Pop-up Panel

Double click on any of the devices to pop up the window of panel of the clicked device, which displays the ports layout and status concerning the device.



The pop-up window gives users the powerful interface to manage the device by selecting the functions on the menu bar. The functions may differ among models. Please consult user's manuals for web-based management for the respective models.

#### B. Pop-up Menu of the Device

Right click on any of the discovered devices to show the pop-up menu.



#### **View Details**

Click to bring up a dialog box showing the device details. You can modify the Timeout, Retries, Port, SNMP version and click the *Change I...* button to change the icon for the device.

Device Det	ails	×		
IPAddress MACAddress NetMask SysName Status Timeout Retries Port IconFile Version	192.         168.         16.         1           00:         0f.         38:         01:         c9:         7c           255.         255.         255.         255.         0           Minor         5         0         181         11           181         0.         0.         101         0.           181         0.         0.         0.         101           Image: a constraint of the property of	ReadCommunity public		
Apply Close				

#### **View Connection**

Click to bring up a dialog box showing the connection information.



#### **View PerfStatics**

Click to bring up a dialog box showing the performance statistics information.

Collecting infomation	X
Daily Weeky Monthly oidName Port isThresholdEnabled	TimeInterval From 2010-07-14 16:35:08 To 2010-07-14 16:35:08
Add ] Eemone ] Modify ]	Current Graph Statistics Graph Data Export

#### **Throughput Monitor**

Click to bring up the dialog box that users can tick checkboxes to select ports and their frame size. And the click the Monitor button to show the throughput monitor window.



Click the up/down arrows to increase/decrease the number in seconds to specify the interval between information collections.



#### Remove

Click to delete the device discovered.

#### **Refresh Link**

Click to refresh the topology map.

#### 3.9.2 User Management

The User Management tab allows you to add new user accounts, modify and remove the user accounts.

File Edit Tools Monitor V	iew <u>H</u> elp		
Event 🔀 877 <u>1</u> 0	<b>1443</b>		
topomap     Topomap     Topomap     Topomap     Security Management     Solution     Solution     Solution     Systep Gevent     Systep Gevent     Systep Gevent     Systep Gevent	🐮 topoMap	Imagement     Imagement       UserName     Imagement       Password     Imagement       Confirm Password     Imagement       Email     Imagement       Tel     Imagement       Address     Imagement       Department     Imagement       Mobile     Imagement	
		Add Modify Remove	

#### Add

Click the Add button to bring up the Add New User dialog box. And fill the data in the fields respectively.

Password Confirm Password	]
Confirm Password	
Email	
Tel	
Address	
Department	
Mobile	
	,

#### **Modify/Remove**

Double click the user account to change the data field by field, and click Modify for account modification. Double click the user account and click Remove to delete the user account.

### 3.9.3 MIB Browser

The MIB Browser tab gives users the interface to manage the devices with the MIB database.

Eile Edit Iools Monitor View Help		
	▝▋▝▆▝▋▆▝▓▖▖▖▖▖▝▖▝▖▓▖▓▖▓▖▓ ▓▔▓₦⋭₽⋳⋳⋳⋳∊ૹ	<u></u>
<ul> <li>topomap</li> <li>192.168.16.0</li> <li>192.168.16.1_00:0f;38:01:c9:7d</li> </ul>		
<ul> <li>Scult/Management.</li> <li>Mit Drowser</li> <li>Mit Browser</li> <li>Mit Browser</li> <li>Mit Browser</li> <li>Statis Kombr</li> <li>Statis Kombr</li> <li>Styling Event</li> <li>Witzards</li> </ul>	P     P       2(1)     Hest IP Address:       0 dot (7)     Oto Colstatistic (2)       Image: Statistic (2)     Oto Colstatistic (2)	92 168 16 1 PortNumber 161
	Name: dot3StatsIndex	MIB: EtherLike-MIB
	OID: 1.3.6.1.2.1.10.7.2.1.1	Type: InterfaceIndex
	Interface to an ethernet-like medium. The Interface identified by a particular value of this index is the same interface as identified by the same value of inflotex.	•

- Click 🛁 to load the MIB file to MIB database.
- Click 🕦 to remove the MIB file from MIB database.
- Click to expand the MIB tree.
- Click to close the MIB tree.
- Click  $\mathbf{X}^{-}$  to bring the SNMP Settings dialog box.
- Click i to export/save data.

Host IP Address: Specify the IP address for the target machine.

**Port Number**: Specify the port number accompanying the IP address.

With the content of the MIB tree selected, click

Get: to fetch and show the complete information of the selected OID at a time.

Get Next: to fetch and show the OID information one row with one click.

Walk: all the information of the MIBs will be fetched and displayed.

**Get Bulk**: all the information beneath the selected node will be fetched and displayed.

Stop: to stop fetching.

Clear: to clear the fetched data.

### 3.9.4 MIB Compiler

The MIB Compiler tab gives users the interface to verify whether the scanned MIB file is available without errors.

Elle Edit Iools Monitor View Help		
□ □ ∅ 0 9, 8 8 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	u ili 🦄 🦄 📓 😤 🛠 🍳 🕸	
Event 🔀 1853 🖡 0 🚯 2562		
Mib Browser 🚫 Mil	b Compiler 🔀	E
♥ 🔩 topomap ♥ 🔹 192.166.16.0 ■ 192.169.16.1 000002001±90.7	8 6	
Control Material Control on	IVALUE group DANGERDAL 6) OBLECT DENTIFIER           :=1.3           VALUE group DANGERDAL 6) OBLECT DENTIFIER           Description Analus used for null identifiers.           )           :=0.8           VALUE group DANGERDAL 6) OBLECT DENTIFIER           :=1.3           VALUE group DANGERDAL 6) OBLECT DENTIFIER           :=1.3.6           VALUE group (DANGERDAL 6) OBLECT DENTIFIER           :=1.3.6.11           VALUE group (DANGERDAL 6) OBLECT DENTIFIER           :=1.3.6.11           VALUE group (DANGERDAL 6) OBLECT DENTIFIER           :=1.3.6.12	

1. Click and to bring up the dialog box for MIB files selection.

Select a mib to compile.		
Look in: 🔁 mibs	•	) 🏠 💕 🔡 🔚
名稱	大小類型	修改日期
📄 IGS-2404_v111k270.mib	152 KB MG-SOFT MI	B Co 2010/6/23 🔺
📄 IGS-2404E.mib	153 KB MG-SOFT MI	B Co 2011/4/15
IPES-2208C-v112k270.mib	158 KB MG-SOFT MI	B Co 2010/7/6 T
IPES-2224C-24-10Jun08	158 KB MG-SOFT MI	B Co 2010/7/15
IPES-2224C-24_10Jun08	158 KB MG-SOFT MI	B Co 2008/6/30 🦰
IPES2208C.mib	167 KB MG-SOFT MI	B Co 2011/5/9 T
IPES2208C V100K500a	169 KB MG-SOFT MI	B Co 2011/2/21 💌
•		
File Name: IPES-2208C-v11	2k270.mib	
Files of Type: All Files		-
		Open Cancel

2. Select a MIB file and click the Open button to startAfter scanning, a message box shows up telling users no error scanned. Click OK to close the message box.



- Click 📩 to load the MIB file for scanning.
- Click 📤 to remove the MIB file from MIB database.
- Click to expand the MIB tree.
- Click to close the MIB tree.
- Click 🥔 to clear the listed contents.

### 3.9.5 Status Monitor

The Status Monitor tab gives users the information about IP address, MAC address, model name, last update and status for all devices. The control items are described as follows:

**Query Time(S)**: Specify the interval for querying the devices to collect the required information. The default value is 10 seconds.

**Time Out(S)**: Specify the time out for querying the devices. The default value is 5 seconds.

When query time or time out is changed, click the **Set** button to have the settings take effect.

You can also click the *Refresh* button to get the information as needed.

Bile Edit Tools Montor Yow Help     Instantion     Instantion <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
Image: Second Part of the second part of	<u>File Edit Tools Monitor </u>	⊻iew <u>H</u> elp					
Event.       Image: 2583         • bpoMap       Mb Compiler         • SecurityManagement       Status Monitor         • Min Compiler       Setury Management         • Status Monitor       Eeffe         • Witzards       Model Name       LastUpdate         • Witzards       192 168.18.1       00.01 38.01 : 9.79       IPES-2208C       14.02.27       Online		9, 🛢 🗑 🚽 🖪	. 💓 🖻 🖷 🐼	ш II 🦄 🦄 📷	🗟 🛠 🔍 🗭		
Important       Important       Important       Important         Security Management       Important       Important       Important       Important         Status Monitor       Site Monitor       Important       Important       Important       Important         Status Monitor       Site Monitor       Important       Important       Important       Important       Important         Status Monitor       Systep Event       Important       Impor	Event 1952 1 0	A 2583					
topomap     topomap     Security Management     Mole Toware     Mole Toware     Mole Toware     Status Monitor     Status     Status	LINIT 1033 1 0			Ctatua Manifar	1		
Security Management       Status Monitor         We borowser       Mo Compiler         Status Monitor       Site         Systag Event       192.168.16.1         Witzards       192.168.16.1         Object       0000738.01.0.9.70         IPES-32208C       14.02.27         Omline       0000738.01.0.9.70	👁 🏣 topomap	topomap	Mib Complier				×
Image: State Montor     Image: State Montor       State Montor     Image: State Montor       Image: Stat	🗢 者 Security Management	Status Monitor					
Immeduation       B       Bet       Befere         ID       IP       MAC Address       Model Name       LastUpdate       Status         Sorial period       192.168.16.1       00.0f38.01.09.7d       IPES-2208C       14.02.27       Online	Mib Tools     Mib Browser	QueryTime(S)					
D     IP     MAC Address     Model Name     LastUpdate     Status       Syslog Event     1     192.168.16.1     00.0738.01:09.7d     IPES-3208C     14.02.27     Online	Mib Compiler	TimeOut(S)	5 · Set				<u>R</u> efre
	- Monitor	ID	IP	MAC Address	Model Name	LastUpdate	Status
	Syslog Event		192.100.10.1	00.01.38.01.08.70	IPE 5-22080	14.02.27	Onine
							]
Wersion 1.1.1 V - Stopkin	root						Version 1 1 19 35/56MH

### 3.9.6 Syslog Event

The Syslog Event tab collects system log events and allows users to export the statistics. Click Refresh to get the newly collected information. Click Clear to clean the screen.



### 3.9.7 Group IP Setting

Th Group IP Setting will guide you through the process on how to set multiple devices at the same time. When the wizard screen shows up, click Next to continue.



Click to select the items among the left list and click the blue arrow to move them to the list on the right side. Also, you can move the items on the right list to the left by selecting them and clicking the red arrow. when finished, click Next to continue.



To assign IP addresses to multiple devices, user can choose methods between using a DHCP server and giving a range of IP addresses with netmask and gateway. Verify the DHCP server IP or IP range is correct, and then click the Apply button to start the task.



### 3.9.8 Group Firmware Update Wizard

Th Group Firmware Update Wizard will guide you through the process on how to update firmware for multiple devices at the same time. When the wizard screen shows up, click Next to continue.



Click to select the items among the left list and click the blue arrow to move them to the list on the right side. Also, you can move the items on the right list to the left by selecting them and clicking the red arrow. when finished, click Next to continue.



Users can choose the update ways between using built-in support and using remote TFTP server.



When selecting the **Use built-in support** radion button, click the opening files icon to bring the dialog box to browse the firmware file. Alternatively, you can select the **Use remote tftp server** radion button to specify the server IP adress and the file name on the server.

Verify the file is exactly what you want to update and then click Apply to start firmware updating.

### 3.9.9 Trap View

Click Monitor  $\rightarrow$  ThresholdEventMonitor to open the tab which displays the trap messages.



### 3.9.10 Discovery Monitor

Click Monitor  $\rightarrow$  DiscoveryMonitor to open the tab which displays the process of discovering devices. The inromation displays row by row in accordance with the settings of the discovery task dialog box.



### 3.9.11 Threshold Events

Click Monitor  $\rightarrow$  ThresholdEventMonitor to open the tab which displays the threshold events.



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