



DMNI UTILITY Software For use with all **DMNI** Series Recorders and IP Cameras

User Manual

Thank you for purchasing our products. If there is any question or request, please do not hesitate to contact your dealer. KT&C Certified Dealers can contact KT&C directly.

This manual is applicable to the OMNI UTILITY software and its use with OMNI Series recorders and IP cameras.

While KT&C makes every effort to insure the completeness and accuracy of the information contained in this Guide, we are not responsible for typographical errors or misprints. At the same time, KT&C reserves the right to make changes to improve the performance of our products at any time without notice, and so the specifications and content of this document are subject to change without notice. Every effort will be made to include corrections and updates in new versions of this manual and/or online.

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Chapter 1 Introduction

1.1 Overview

OMNI Utility software is a user-friendly tool for the discovery and configuration of OMNI recorders and IP cameras connected to the local area network [LAN] segments accessible from the PC on which the program is running. The program may be installed to run as one of the programs in the Windows menu/shortcut system. It can also run 'installation free' from any media (e.g. USB drive or CD/DVD) containing the executable files and libraries.

When launched, the OMNI Utility automatically searches for and displays information about all accessible OMNI devices. You can also modify the basic network configuration of those devices using this software.

1.2 System Requirements

Operating System:

Microsoft Windows 8 / Windows 8.1 / Windows 7 / Windows 2008 32 / 64-bit, Windows XP / Windows 2003 32-bit CPU: Intel Pentium IV @ 3.0 GHz or above RAM: 1G or above Video Card: RADEON X700 Series Display: 1024*768 resolution or above

1.3 Conventions

In order to simplify the manual, we refer to the "OMNI UTILITY software" as "the software" in the following sections.

1.4 Installation as a Windows Program

Click on the "Setup" icon. During setup, it is necessary to install/update the Microsoft C++ Redistibutable files as well as the WinPCap program in order for the OMNI

Utility to function. Check <u>http://www.winpcap.org/install/default.htm</u> for the latest version of WinPCap if you experience compatibility issues with your O/S. As of this printing, the latest version availabel for download is 4.1.3.

Follow the steps (click "Next") to choose a language for the installation,



Select both the vcredist_x86 patch and WinPCap and click "Next".

😥 Microsoft Visual C++ 2008 Redistributable Setup 🛛 – 🗆 💌	😾 🛛 Microsoft Visual C++ 2008 Redistributable Setup 🛛 🗕 🗖 🗙
Maintenance mode	Setup Complete
Select one of the options below:	Microsoft Visual C++ 2008 Redistributable has been successfully repaired.
Repair	It is highly recommended that you download and install the latest service packs and security updates for this product.
Repair Microsoft Visual C++ 2008 Redistributable to its original state.	For more information, visit the following Web site: Product Support Center
○ Uninstall	
Uninstall Microsoft Visual C++ 2008 Redistributable from this computer.	
Next > Cancel	Finish

If necessary, choose to "Repair" C++, as it is needed for the OMNI Utility to function. Then proceed to install WinPCap.

OMNI Utility - InstallShield Wizard 🛛 – 🗖 🗙	Program Compatibility Assistant 🗙
Setup Type Select the setup type that best suits your needs.	This program has compatibility issues
Select the features you want to install, and deselect the features you do not want to install. Click Next to continue.	WinPcap installer CACE Technologies
I vorediti,x86 patch I WinpCap	You can get help online and see more information about this program's compatibility issues.
	Get help online
	 Run the program without getting help
InstallShield	
< Back Next> Cancel	Don't show this message again Close

WinPCap is required; if there are compatibility concerns, check the website for updates. Select an installation location and proceed to install the Utility itself.



The installation should proceed. Create a desktop icon if desired.

OMNI Utility - InstallShield Wizard –	OMNI Utility - InstallShield Wizard 🚽 🗆 🗙
Setup Status	Setup Type Select the setup type that best suits your needs.
The InstallShield Wizard is installing OMNI Utility	Select the features you want to install, and deselect the features you do not want to install. Click Next to continue.
Installing	
C:\Program Files (x86)\OMNI Utility\	
	InstallShield
InstallShield	Cancel

Complete "Finish" the installation, and run the OMNI Utility if desired.

OMN	l Utility - InstallShield Wizard 🛛 – 🗖 🗙
	InstallShield Wizard Complete The InstallShield Wizard has successfully installed OMNI Utility. Click Finish to exit the wizard. I run the application
	< Back Finish Cancel

1.5 Installation Free Operation

OMNI Utility requires no external libraries to run. The contents of the installation folder may be copied to other folders and run. The program may be installed to removable disks. Or, download and unzip the contents of **OMNI Utility.zip** to the desired drive/folder and run the OMNI Utility executable.

1.6 Running the Program/Checking Version Information

After installing the software, click the icon on the desktop (or the executable in the folder containing the program) to run the software.

Click the **Help > About** tab at the top to view version information or click **Help > User Manual** to access a User Manual for the software.

To save the information for discovered devices for your records or further use, please click **Save as Excel** and enter the file name and file path in the pop-up window to save the information as an excel file. The file is an Excel snapshot of all the data captured by the OMNI Utility, both visible and hidden columns. This provides a convenient method of documenting the names, network addresses and firmware versions for all devices in a system.

Save	
File Name: Device data	
G.J	
OK Cance	

Chapter 2 Operating OMNI UTILITY Software

2.1 Searching for Online Devices

Option 1: Automatic Search

When you launch the OMNI UTILITY software, it automatically searches the local LAN connections on your computer every 15 seconds. It will display a list of discovered devices, along with information about the discovered devices in the ONLINE DEVICES main window. Information displayed includes a count of the number of listed devices; the device model (type) and serial number; IP address, subnet mask, gateway and MAC address; control port number; Firmware (software) version and DSP (build) number; number of encoding channels; and the Start Time (time stamp at last reboot/startup). By moving the slide bar at the bottom of the screen, additional columns are revealed, including IPv6 configuration information, and IPv4 DHCP status.

						OMNI Utility					- 8 ×
C	OMNI Utility	🕡 About									
T	otal number o	of online devices: 4								Save as Ex	cel @ Refresh
	Device Type	/ IPv4 Address	Port Softwa	re Version IPv4 G	ateway Device Serial	I No.	Subnet Mask	MAC Address	Encoding Channel(s)	DSP Version	Start Time
	KNC-p3DR4	IR 192.168.10.9	8000 V5.2.0	ouild 141016 192.1	8.10.1 KNC-p3DR4	R20140508CCWR46376	255.255.255.0	44-19-b6-2f-35-94	1	V5.0, build 140714	2014-10-16 13:31
	KVR-p16Px1	192.168.10.222	8000 V3.1.4	ouild 140911 192.1	8.10.1 KVR-p16Px1	61620140509BBRR4642.	255.255.255.0	8c-e7-48-65-c8-9a	16	V1.0, build 140904	2014-10-14 13:45
	OMNI960-16	192.168.10.223	8000 V3.1.0	ouild 140830 192.1	8.10.1 OMNI960-16	1620140614AAWR46928.	255.255.255.0	8c-e7-48-6f-b2-a7	18	V5.0, build 140529	2014-10-16 17:33
	OMNI960-8	192.168.10.224	8000 V3.1.0	ouild 140830 192.10	8.10.1 OMNI960-80	820140614AAWR469285.	255.255.255.0	8c-e7-48-6f-b2-a4	10	V5.0, build 140529	2014-10-14 14:52
	Ф т	otal number of online of	devices: 4								Rena en Frank
		Encoding Channel(s)									Bave as Excel up R
		Encoding onumer(o)	DSP Version	Start Time	IPv6 Address	IPv6 Gateway	IPv6 Prefix Length	Support IPv6	IPv6 Modifiable	Support DH	CP IPv4 DHCP St
	35-94	1	V5.0, build 140714	Start Time 2014-10-16 13:31:	IPv6 Address	IPv6 Gateway	IPv6 Prefix Length	Support IPv6 Yes	IPv6 Modifiable Yes	Support DH	CP IPv4 DHCP St Off
	35-94 c8-9a	1 16	USP Version V5.0, build 140714 V1.0, build 140904	Start Time 2014-10-16 13:31: 2014-10-14 13:45:	12 12 12 fe80::8ee7:48ff.fe65:	IPv6 Gateway	IPv6 Prefix Length 0 64	Support IPv6 Yes Yes	IPv6 Modifiable Yes No	Support DH Yes Yes	CP IPv4 DHCP St Off Off
	35-94 c8-9a 12-a7	1 16 18	V5.0, build 140714 V1.0, build 140904 V5.0, build 140904	Start Time 2014-10-16 13:31: 2014-10-14 13:45: 2014-10-16 17:33:	IPv6 Address 12 28 fe80::8ee7:48ff;fe65: 29 fe80::8ee7:48ff;fe6f;1	IPv6 Gateway	IPv6 Prefix Length 0 64 64	Support IPv6 Yes Yes Yes	IPv6 Modifiable Yes No No	Support DH Yes Yes Yes	CP IPv4 DHCP St Off Off Off
	35-94 c8-9a 12-a7 12-a4	1 16 18 10	DSP Version V5.0, build 140714 V1.0, build 140904 V5.0, build 140529 V5.0, build 140529	Start Time 2014-10-16 13:31: 2014-10-14 13:45: 2014-10-16 17:33: 2014-10-16 17:33:	IPv6 Address 12 28 fe80::8ee7:48ff;fe65: fe80::8ee7:48ff;fe6f:1 fe80::8ee7:48ff;fe6f:1	IPv6 Gateway cc89a b2a7 b2a4	IPv6 Prefix Length 0 64 64 64	Support IPv6 Yes Yes Yes Yes	IPv6 Modifiable Yes No No No	Support DH Yes Yes Yes Yes	CP IPv4 DHCP St Off Off Off

Note: Devices will be discovered and displayed in the list in 15 seconds after coming online; devices will not be removed from the list until 45 seconds after they go offline.

Option 2: Search Online Devices Manually

You can also click **Refresh** to update the device list on demand. Any newly discovered devices will be added to the list.

Note: You can click \square or \square on each column heading to control the sort order for the list; you can click \blacksquare to expand the device table and hide the network parameter panel on the right side, or click \blacksquare to show the network parameter panel.

To access the web login screen for a specific device, double-click <u>on the IPv4 Address field</u> of that device; your default browser should open and display the login screen for that IP address. Enter the user name and password to log into that device.

2.2 Modifying Network Parameters

Task 1: Modifying the Network Parameters for a Single Device

Steps:

- 1. Select one device to be modified from the device list and the network parameters of the device are displayed in the **Modify Network Parameters** panel on the right side.
- If the DHCP function is enabled on the device, you can only edit the server port number of the device; the web port is set from within the web GUI for the device. The rest of the IP configuration (IP address, subnet mask, gateway IP, DNS server IP) will be obtained from the DHCP host on the network.

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© 80 802 801 804	Tatal number of an Device Tase HINC a Statement Kink a Statistic Calavation IS Calavation IS	400 General (192,44 Ogeneral 192, 194, 19,9 192, 194, 19, 20 192, 194, 194, 20 194, 194, 194, 194, 20 194, 194, 194, 194, 20 194, 194, 194, 194, 194, 20 194, 194, 194, 194, 194, 194, 194, 194,	Part 8000 8000 8000	Enforce require 15.2 (Sould 141916 11.1 August 140915 13.1 August 140200 11.1 Ocular 140200	PV4 Calmenty 192 194 50 1 192 194 50 1 192 194 50 1 192 194 50 1	Смиля била так. КОС-распинестичарание соверсионные соверсионности посотолого соверсии на соверсионности посотолого соверсии на соверсионности на соверсии на соверсии на соверсии на соверсии на соверсии на соверсии на соверсии соверсионности на соверсии на соверсии соверсионности на соверсии на соверсии соверсионности на соверсии на Соверсии на соверсии на соверс	factorer Marco 1988 2013 2013 2013 2013 2013 2013 2013 2013	8° 100 a 100 4 100 400 0 100 400 2054 100 4040 4040 100 4040 400 204 100 4040 204	P Robert	Haldy rocketer P P Address Part Daniel Mans Pel Adress Pel Adress	112 102 102 102 102 102 102 102 102 102	
										Person Could Read The set of the row send device to the r	offs code will be refurred the date and senal file. of sendacture	20

3. You can also uncheck the **Enable DHCP** checkbox to specify static network parameters (e.g., IP address, subnet mask and gateway) manually.

£						OWNI Utility					- 6
st.	OMNI Utility	About									
Q	Total number of onlin	e devices: 4						Save as Excel	P Refresh	Modify Network Pa	rameters
ID 001 002 003 004	Device Type / KNC-p3DR4IR KVR-p16Px16 ONN960-16 ONN960-8	IPv4 Address 192 168 10.9 192 168 10.222 192 168 10.223 192 168 10.224	Port 8000 8000 8000	Software Version V5.2 Obuild 141016 V3.1 Abuild 140911 V3.1 Obuild 140830 V3.1 Obuild 140830	IPv4 Gateway 192.168.10.1 192.168.10.1 192.168.10.1 192.168.10.1	Device Benal No. NNC-320R4R20140508CCWR445376. KVR-316P-1616201420508BR4442. OMM890-1616201405164WR446228. OMM890-06201406144WR469285.	Subnet Mask 255.255.255.0 255.255.255.0 255.255.255.0 255.255.255.0	MAC Address 44-19-b5-2135-94 8c-e7-48-65-c8-93 8c-e7-48-61-b2-37 8c-e7-48-61-b2-34	Encoding 1 16 18 10	Modify Network Pa P Address: Port Subnet Mask: IPv6 Address: IPv6 Address: IPv6 Gateway: IPv6 Prefix Length: Device Serial No: Enable DHCP Password	192,168,10,223 8000 255,255,0 192,168,10,1 1600,3ee7,4815/65/227 64 OMM9960-161620140614AA
										Note: Enter the device before y parameters. Password Recove Security Code Note: The secu- device to the m	e admin password of the rou save the network ry OK wrth code will be returned the date and serial No. of the anutacturer.

Notes:

- IPv4 and IPv6 DHCP is supported by these devices.
- If using DHCP, the IPv4 and/or IPv6 DHCP functions should be enabled in the device and the router/DHCP host on the network should be enabled and configured to issue an IPv4/IPv6 configuration to the devices.
- 4. Enter the password of the admin account for the device into the **Password** field and click **Save** to make the changes.

Task 2: Modifying Network Parameters of Multiple Devices (Batch Modification) *Steps:*

- 1. Click and drag or use control+click to select multiple devices to be modified from the device list. When multiple devices are selected the options in the right-side panel will change.
- 2. In what is now the **Batch Modification of Network Parameters** panel on the right side, edit the modifiable network parameters, e.g. starting IP address and server port. Web port is set in the web GUI for each device.

Example: If you select 3 devices for modification and set the start IP address as 10.16.1.21, then the IP addresses of the devices will be assigned as 10.16.1.21, 10.16.1.22 and 10.16.1.23 in order.

J.						OMNI Utility						- @ ×
1	C OMNI Utility	🕡 About										
	Total number of on	line devices: 4						Save as Excel	P Retrest	Batch Modification	of Network Paramete	er
ID	Device Type /	IPv4 Address	Port	Software Version	IPv4 Gateway	Device Serial No.	Subnet Mask	MAC Address	Encoding	Stort IR Address:	100 160 10 000	
00	I KNC-p3DR4IR	192.168.10.9	8000	V5.2.0build 141016	192.168.10.1	KNC-p3DR4IR20140508CCWR46376	255.255.255.0	44-19-b6-2f-35-94	1	Det	192.108.10.230	
003	2 KVR-p16Px16	192.168.10.222	8000	V3.1.4build 140911	192.168.10.1	KVR-p16Px161620140509BBRR4642	255.255.255.0	8c-e7-48-65-c8-9a	16	Port	8000	
003	3 OMNI960-16	192.168.10.223	8000	V3.1.0build 140830	192.168.10.1	OMNI960-161620140614AAWR46928	255.255.255.0	8c-e7-48-6f-b2-a7	18	Subnet Mask:	255.255.255.0	
00-	4 OMNI960-8	192.168.10.224	8000	V3.1.0build 140830	192.168.10.1	OMNI960-80820140614AAWR469285	255.255.255.0	8c-e7-48-6f-b2-a4	10	IPv4 Gateway:	192.168.10.1	
										IPv6 Address:		
										IPv6 Gateway:		
										IPv6 Prefix Length:		
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												ave
										Note: Enter the device before	e admin password of you save the network	the
										parameters.		
										Enable DHCP	in Batch	
1									Þ	Password		Save

3. Or you can check the **Enable DHCP** in **Batch** checkbox to enable the DHCP function for the selected devices. In this way, the IP Address, Subnet Mask, IPv4 Gateway, IPv6 Address and IPv6 Gateway of the devices can be obtained automatically from the DHCP host on the LAN.

₽°						OMNI Utility					- 6
1º	OMNI Utility	About									
•	Total number of online	devices: 4						Save as Excel	@ Retresh	Batch Modification of Networ	k Parameter
ID 001 002 003 004	Device Type IP KNC-p3DR4IR 19 KNF-p16Pr16 19 OMNI960-8 19	v4 Address 22.168.10.9 22.168.10.222 22.168.10.223 22.168.10.224	Port 8000 8000 8000 8000	Software Version V52.0build 141016 V3.1 Abuild 140911 V3.1 0build 140930 V3.1 0build 140830	IP-4 Gateway 192,168,10,1 192,168,10,1 192,168,10,1 192,168,10,1 192,168,10,1	Device Serial No. KINC-p30R4IR20140508CCWR48376 KINC-p10F101520140509EBR1482 OMM956-1615201405015484WR469285 OMM950-8092014051444WR469285	Subnet Mask 255 265 265 255 0 255 255 0 25	MACAdress 44-19-56-235-94 8-6-47-86-56-59- 8-6-47-48-66-56-99 8-6-47-48-66-56-99 8-6-47-48-66-20-94 8-6-47-48-66-20-94	Encoding 1 16 18 10	Start IP Address: Port Subnet Mask IP-4 Gateway: IP-4 Gateway: IP-6 Gat	Save ssevoid of the is network
										Enable DHCP in Batch	Save

Notes:

- IPv4 and IPv6 DHCP is supported by these devices.
- If using DHCP, the IPv4 and/or IPv6 DHCP functions should be enabled in the device and the router/DHCP host on the network should be enabled and configured to issue an IPv4/IPv6 configuration to the devices.
- 4. Enter the password of the admin account for the device into the **Password** field and click **Save** to make the changes. The default password is "12345".

2.3 Restoring Default Passwords

Purpose:

If you no longer have the admin password for a device, you can restore the default password.

- 1. Note the "START TIME" date displayed in the device data screen.
- 2. Contact our technical support with your serial number and that "start" date to get a serial code.

It may take 24~48 hours to create this unique code. This code is only valid for the specific

"start" date; the date is typically the day on which the unit was last rebooted. Please note that

if the unit is rebooted between the time the serial code is requested and the time it is entered,

the 'start date' changes, and the serial code becomes invalid.

One approach is to specify a future date (e.g. two business days in the future). Request the code; reboot the unit on the specified day, then enter the serial code which is now valid for

that reboot date.

3. Once you have the serial code, in the OMNI Utility, highlight the specific device to be reset, and enter the code in the *Security Code* field of the *Password Recovery* area and click **OK** to restore the default password.

Note: The default password is 12345; for security reasons it is highly recommended that you immediately log into that device and change the default password.

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