NETWORK VIDEO RECORDER
VR-N100U

JVC makes monitoring worldwide facilities easier than ever.

VR-N100U
Key Features

• Integrated network video recorder and IP camera management

• Easy access to live and archived video from anywhere and anytime

• Automatic camera discovery and configuration

• A single static IP address can support thousands of IP cameras

• Manages the camera's network usage, thus preserving bandwidth

• Storage of 600GB or 1320GB available (4 x HDDs in RAID-5), expandable up to 105TB

• Control via JVC NVR Client Software and/or web browser (e.g. Microsoft Internet Explorer®)

JVC®

The Perfect Experience

www.jvc.com/pro

VR-N100U NETWORK VIDEO RECORDER

SYSTEM CONFIGURATION

All IP cameras are connected directly to the VR-N100U. The VR-N100U records all cameras to the local hard disk drive according to the rules selected for each camera.

Each camera may be recorded at an individual frame rate and resolution.

The VR-N100U is connected to the facility's Ethernet network and will respond to requests to send live or previously recorded video from any camera connected to it.

Only the video that is being actively monitored by any of the authorized client systems will be sent over the main network by the VR-N100U, thus intelligently reducing unnecessary bandwidth usage.

HARDWARE

• Embedded Server Motherboard with CPU and RAM
• Embedded Video UX Operating System
    - Preinstalled on non-volatile flash
    - OS based on Linux Kernel
    - Secure like NSA Linux
• Embedded VR-N100U Application
    - Preinstall on non-volatile flash
    - Storage Proprietary Application
    - Networked Server Appliance
    - LAN & WAN Implementation
    - Multi-Network Support
    - Single IP Address for appliance and 16 cameras
    - Multi-level Security
    - Camera level Security
• Dual 10Base-T/100Base-TX Network Interface Cards
    - Front channel for connectivity to network backbone
    - Back channel for cameras
• SCSI
    - Support for VR-N100U-ST Expandable RAID Modules
• PCI Expansion Slot
    - Support for additional upcoming functionality and features
• 6 ATAPI Channels
    - Support for onboard RAID set

HARDWARE CONFIGURATION:
• 19" 1U Rack mount Chassis
• 1x 300 Watt ATX Power Supply
• 4x HDDs (RAID-set, 5th Optimized Recovery Cache)
• 1x X1 Server Motherboard w/CPU/Fan/RAM/OS/APP
• 1x LCD/LED System Status Display

SOFTWARE

• 16 Camera License
    - Automatic Camera Discovery and Configuration
    - Software RAID
    - 24x7x365 Operation
    - Simultaneous Real-Time Recording from 16 cameras, each camera up to 30fps (30fps capable cameras required)
    - Video Motion Detection (motion capable cameras required)
    - Optical Pan/Tilt/Zoom (PTZ capable cameras required)
    - Digital Pan/Tilt/Zoom (for all fixed cameras)
    - Random Access Search
    - Customized Setting for Each Camera
• Enterprise Client Management Windows Software Utility
    (JVC VR-N100U Controller)
    - Unlimited User License with VR-N100U
    - Unlimited Customized Software Multiplexer Switch
    - Unlimited NVR & Camera Support

MODEL NUMBERS

VR-N100U - With 720GB or 1320GB Hard Disk Drives

MECHANICAL

Dimensions: 22-13/16 x 16-3/4 x 1-3/4 inches (LxWxH)
                  580x426x45 mm (LxWxH)
Weight: 25 lbs.   11.34 kg.

ELECTRICAL

Input voltage: 120V AC
Power Consumption: 0.5A

TEMPERATURE RANGE

Operating Temperature: 10 C to 35 C
Operating Humidity: 10% to 80% non-condensing
Storage Temperature: -10 C to 65 C
Storage Humidity: 5% to 90% non-condensing

REGULATORY EMISSIONS / IMMUNITY

FCC Part 15 Subpart B, Class A
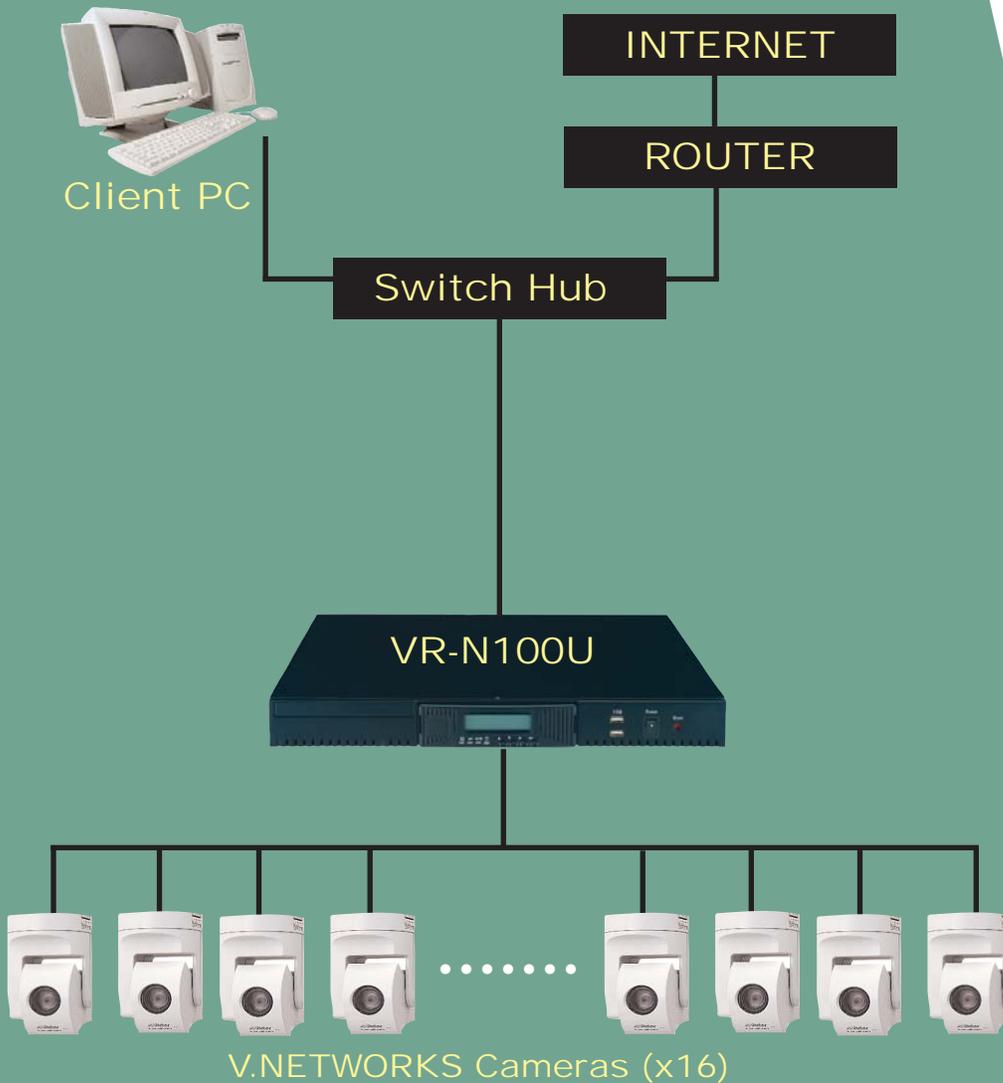CE: EN55022
      EN50130-4

SAFETY

UL 60950-1
UL/GS

CLIENT PC MINIMUM REQUIREMENTS

Operating System:	Microsoft ®Windows XP® or Windows 2000
Processor:	Pentium 4, 2.8 GHz
Memory:	512MB
Video Card:	128MB
Screen Resolution:	XGA, 1024 x 768 Pixels
Connectivity:	100 Base-TX
Web-Browser:	Microsoft® Internet Explorer 6.0
Plug-in Software:	JRE (JAVA Java 2 Runtime Environment v 1.4.2

External LAN for Client PC or Other Servers

Client PC

INTERNET

ROUTER

Switch Hub

VR-N100U

V.NETWORKS Cameras (x16)

COMPATIBLE COMPONENTS

VN-C655U Network Video Camera
1/4" CCD sensor, 25x Optical and 10x Electronic Zoom, Up to 30fps in VGA mode, Day&Night with Mechanical IR Cut Filter, 0.06lux in B&W mode, Extended Dynamic Range, 360 degree Endless Rotation, Privacy Mask, Auto Patrol, Auto Pan

VN-C11U

Network Video Camera
1/3" CCD sensor, 1.5 Lux, CS mount, Selectable JPEG/ MPEG4 Compression Ethernet connection, JPEG Multicast, Pre/Post alarm recording, Includes analog monitor output

VN-C30U Network Video Cameras
1/3" CCD sensor, Pan/Tilt, 15X optical zoom, Selectable JPEG/ MPEG1 Compression Ethernet connection, JPEG Multicast, Pre/Post alarm recording, Includes analog monitor output

VN-A1U

Single Channel Encoder
Connection for analog cameras, Ethernet connection, RS-422/RS-232C, Pre/Post Alarm recording, Motion detection, Camera control software, Built in web server

Design, dimensions and specification are subject to change without notice.

VR-N100U NETWORK VIDEO RECORDER

The VR-N100U includes the following features:

Integrated network video recorder and camera management.

Excellent picture quality.

Records network cameras at up to 30 images per second for each camera.

Integrates into any TCP/IP-based Ethernet network.

A single static IP address can support thousands of IP cameras.

Controls and records 16 network cameras.

Storage of 600GB or 1320GB available, expandable up to 105TB.

Uses standard web browser (e.g. Microsoft Internet Explorer®) or JVC Network Client Software included with each unit.

Eliminates the need for bulky coaxial cable.

Uses commonly available CAT 5, CAT5e or CAT 6 cable and can integrate into a wireless environment.

Intelligently manages the camera usage on the network to preserve bandwidth.

Write Once Read Many (WORM) file system provides unalterable video storage.

Cameras are added to VR-N100U with a single-click, self-discovery and then it is automatically added to the dynamic firewall.

If the main company network is down, all cameras will still continue to record on the VR-N100U and video can be retrieved once the network is restored.

The JVC VR-N100U, Network Video Recorder offers a convenient recording solution for your network video cameras. It allows you to manage and record thousands of network IP cameras over a VPN, LAN, WAN or Internet.

The VR-N100U solves the bandwidth overload issues currently associated with most IP camera solutions. The VR-N100U allows you to finally have the benefits of network video without over taxing your Ethernet network.

The VR-N100U provides management and recording for 16 network cameras on a private local network that is not part of your LAN. Cameras are recorded full time on the VR-N100U on a 720GB or 1320GB local hard disk drive. All critical cameras can be constantly monitored over the LAN. The user may predetermine how alarms and events may transmit other cameras to the LAN for monitoring.

All cameras attached to VR-N100U servers are available for review by any authorized user on the network. Live video and well as archived video can be quickly and easily reviewed at any work station on the network. The video can be reviewed via a web browser (e.g. Microsoft Internet Explorer®) or JVC Network Client Software included with each unit. Additional features access can be available if JVC Controller software is used.

The VR-N100U records and controls JVC VN-C11U fixed cameras, VN-C30U PTZ cameras, VN-C655U PTZ Dome cameras, and VN-A1U encorders over your existing Ethernet network.

JVC®

The Perfect Experience

www.jvc.com/pro