Baxall Vivid Digital Video Recorder

Baxall Vivid, the new generation of digital recording products, combines the very best of traditional CCTV design and functionality with the latest hardware and software technology. Baxall Vivid is a combined digital video multiplexer recorder with 6, 10 and 16 camera input options with disk sizes ranging from 80GB to 1TB.

Unlike other digital recorders, Baxall Vivid gives you better picture quality for the same storage rates. Comparable image quality at much greater compression levels means drive sizes can be reduced by as much as 30%!

For a vivid account of the incident...

Baxall Vivid uses JPEG2000 compression giving recordings with far superior picture quality compared to leading competitors' products.

Images are sharper with less blurring - JPEG2000 reduces artefacts in pictures (artefacts are the blurring part of pictures after compression has been applied)

File size 24KB

Other DVR file size 24KB

Drop a disk size!

With comparable picture quality to leading digital recorder suppliers, Baxall Vivid uses up to 30% less disk space, so the user could drop a disk size!

Because the images are far superior on a like for like basis it is possible to reduce file sizes even further whilst maintaining comparable image quality and record rates. In practice this allows a reduction in the size of disk storage needed to achieve the same time period of recording.

File size 6KB

Other DVR file size 6KB

...Simply a better DVR

Easy to install

Baxall Vivid is simple to set-up:

Simply take the unit out of the box, plug in your cameras and monitors, apply the power and the unit will automatically optimise itself for 31 days recording.

31 days of vivid recordings securely stored and easily accessed

Easy connectivity

Almost any mass storage device can be connected to the Baxall Vivid DVR to quickly, and effectively export clips or images. For evidential purposes, you can connect any standard USB CD or DVD burner, which also allows a viewer to be loaded for playback.

Memory stick compatibility

USB connectivity on the front of the unit enables the quick download of images onto a USB memory stick for practical and affordable archiving. Furthermore, the USB stick can also be used to quickly download settings from one unit to another and is also a simple and cost effective means of administrating service packs.

Servicing and configuration

Connecting a PC keyboard to the front of the unit provides familiarity for configuration and operation enabling quick and efficient set up of lengthy camera titles.

Operating system

Baxall Vivid has an embedded Linux 2.4 operating system, renowned for it's stability and reliability.

BaxNet and dome control

The Baxall Vivid contains in-built telemetry protocols that enable the unit to control domes such as Baxall, Pelco D, Sensormatic RS422/485, Vista, VCL, Panasonic, Kalatel, Dennard and Philips.

Simple front panel control is available or alternatively, add an external BaxNet keyboard for full proportional control of domes and remote operation of the Vivid unit.

Ethernet connectivity

Baxall Vivid has Ethernet connectivity that enables remote users to view live and playback pictures without effecting local recording. As well as day-to-day operation, remote set-up and configuration of the unit can be achieved over the network. Even when the local unit is not being monitored, fast identification of incidents can still happen via e-mail alerts. This ensures immediate action can be taken upon any video loss, alarms or events – still images and video clips can be sent over the network, thus ensuring fast and effective responses.

Network administrator friendly

Baxall Vivid has a full suite of TCP IP protocols providing a complete standards based environment.

- SNMPv3 Network management
- Built in Firewall
- 10/100Base T
- DHCP
- Inbuilt Web-Server

...Simply a better DVR

Three product lines

The Baxall Vivid range consists of three product lines:

- VIVID Lite - No nonsense approach to digital recording
- VIVID - Designed to meet expectations
- VIVID+ - High speed with internal DVD

FEATURE SUMMARY

	VIVID Lite	VIVID	VIVID +
Record Speed	25PPS	50PPS	50PPS + Turbo*
Mode	Duplex	Triplex	Triplex
Internal Writer	CD	✗	DVD
Alarms	✓	✓	✓
SVHS Monitor	✗	✓	✓
Audio	✗	✓	✓
SCSII	✗	✓	✓
Front panel USB	✓	✓	✓
BaxNet	✓	✓	✓
Dome Control	✓	✓	✓
Ethernet	Optional	✓	✓

* In Turbo mode the VIVID+ unit will record at a rate of 100PPS at half image resolution.

NUMBER OF INPUTS / DRIVE SIZE OPTIONS

	VIVID Lite	VIVID	VIVID +
6Ch 80GB	✓	✓	✓
6Ch 320GB	✓	✓	✓
10Ch 160GB	✓	✓	✓
10Ch 320GB	✓	✓	✓
10Ch 500GB	✗	✓	✓
16Ch 160GB	✓	✓	✓
16Ch 320GB	✓	✓	✓
16Ch 600GB	✓	✓	✓
16Ch 1TB	✗	✓	✓

Turbo mode*

Turbo mode enables the unit to record at 100pps instead of the usual 50pps by recording at half the resolution.

Ideal for when an event/alarm is triggered, alarmed cameras can be recorded at a fast update rate, without compromising the update rate of the other cameras ensuring the full incident is captured.

*available on Baxall Vivid Plus models

Extra features as standard include:

- 16 alarm inputs on all models
- Audio recording
- In-built motion detection with individual zone sensitivities
- E-mail notification
- Pre and post alarm recording to partitioned parts of the drive (selectable by size)
- Covert cameras
- Schedules – record what you need when you need it
- Comprehensive system logs
- Multi-lingual support (English (UK), English (US), French, German, Spanish, Italian, Russian, Dutch, Portuguese)

PRODUCT CODE	DESCRIPTION
VIVIDLite6/80	DVR, Duplex, CD, 6 channel, 80GB HDD
VIVIDLite6/320	DVR, Duplex, CD, 6 channel, 320GB HDD
VIVIDLite10/160	DVR, Duplex, CD, 10 channel, 160GB HDD
VIVIDLite10/320	DVR, Duplex, CD, 10 channel, 320GB HDD
VIVIDLite16/160	DVR, Duplex, CD, 16 channel, 160GB HDD
VIVIDLite16/320	DVR, Duplex, CD, 16 channel, 320GB HDD
VIVIDLite16/600	DVR, Duplex, CD, 16 channel, 600GB HDD
VIVID6/80	DVR, Triplex, 6 channel, 80GB HDD
VIVID6/320	DVR, Triplex, 6 channel, 320GB HDD
VIVID10/160	DVR, Triplex, 10 channel, 160GB HDD
VIVID10/320	DVR, Triplex, 10 channel, 320GB HDD
VIVID10/500	DVR, Triplex, 10 channel, 500GB HDD
VIVID16/160	DVR, Triplex, 16 channel, 160GB HDD
VIVID16/320	DVR, Triplex, 16 channel, 320GB HDD
VIVID16/600	DVR, Triplex, 16 channel, 600GB HDD
VIVID16/1000	DVR, Triplex, 16 channel, 1TB HDD
VIVID+6/80	DVR, Triplex, DVD, 6 channel, 80GB HDD
VIVID+6/320	DVR, Triplex, DVD, 6 channel, 320GB HDD
VIVID+10/160	DVR, Triplex, DVD, 10 channel, 160GB HDD
VIVID+10/320	DVR, Triplex, DVD, 10 channel, 320GB HDD
VIVID+10/500	DVR, Triplex, DVD, 10 channel, 500GB HDD
VIVID+16/160	DVR, Triplex, DVD, 16 channel, 160GB HDD
VIVID+16/320	DVR, Triplex, DVD, 16 channel, 320GB HDD
VIVID+16/600	DVR, Triplex, DVD, 16 channel, 600GB HDD
VIVID+16/1000	DVR, Triplex, DVD, 16 channel, 1TB HDD

Generic product specification

PRODUCT CODES

Please see the table on the previous page

VIDEO

Video Inputs	6,10 or 16 looped composite (NTSC / PAL) BNC connectors (1Vpp – 75 ohm) with software termination
Video Outputs	Main and spot monitor BNCs, S-video mini-DIN. Main monitor viewing options: full screen, programmable sequence, 4,6,9,10,13,16 split mutliscreens, picture in picture
Image Compression	JPEG2000
Picture Resolution	720(H) x 576/480(V) displayed PAL/NTSC
Recorded Picture Quality	Up to 720(H) x 288/240(V) pixels recorded PAL/NTSC, depending on operating mode
Record Speed	User selectable within a range, depending on operating mode
Video Replay	User selectable up to a maximum system rate of 60pps (NTSC), 50pps (PAL), depending on operating mode. Simultaneous video recording, local replay and remote viewing, depending upon operating mode
Internal Video Storage	Up to 2 x standard IDE/ATA internal hard disks drives
External Video Storage	SCSI-2 for external storage, e.g. RAID5

ALARM INTEGRATION

Alarm Inputs/Relay Outputs	16 alarm inputs, 2 relay outputs plus grounds
Alarm Connection	3.5mm COMBICON screw terminal connectors
Alarm Recording	Programmable: duration (2 – 999 seconds) with optional: priority, interleaved, exclusive, no change, pre and post alarm recording (pre 0-10 secs, post 0-30 hours)

AUDIO

Audio Recording	User selectable single channel
Audio Inputs	3.5mm Microphone and Line-in (1Vpp)
Audio Output	3.5mm Line-out (1Vpp)

ACTIVITY DETECTION

Matrix	Selectable 15 x 16 matrix
Sensitivity Levels	5 levels
Tracking Delay	Programmable 0 – 5 seconds
Target Information	Programmable for size and location

SYSTEM MONITORING

Watchdog	Monitors key system parameters for power up, power down, camera connection, camera loss, user login, user logoff, and set-up changes

ALL EVENTS (ALARM, MOTION OR SYSTEM)

Event Buzzer	1 Selectable on/off
Event Notification	Programmable Spot monitor activation. Programmable e-mail notification, On-screen display warning
Event Log	Date, time, camera, event trigger
Log Protection/Expiry	Timed event log protection and/or expiry
Event Outputs	2 NO/NC, 0.5A continuous, 1A momentary. 3.5mm COMBICON screw terminal connectors
Event protection	Separate event partition, programmable storage / archive parameters – such as over-write, write protect against time parameters
Scheduling	Comprehensive scheduling facilities

NETWORKING

Type	Auto-sensing 10/100Base-T Fast Ethernet (RJ45)
Protocols	Full TCP/IP suite
Network Management	SNMPv3 (includes secured encrypted communication)
Network Set-up	DHCP, BOOTP, or manual, user selectable
Inbuilt Web-Server	HTTP 1.1
Inbuilt Firewall	Packet filtering with data logs

TELEMETRY

Dome Protocols supported	Baxall, Vista, Pelco, Sensormatic RS422/485, VCL, Panasonic, Kalatel, Dennard, Philips
Keyboard Interface	BaxNet

MECHANICAL

Dimensions	65mm (2¾"/1.5U)H* x 440mm (19")W x 370mm (14")D *excludes feet
Weight	5kg (11lb) – single disk configuration

GENERAL

User Interface	Front panel keypad and on-screen menus, PC USB keyboard (not supplied) and/or remote PC viewing and control software
Language Options	English (UK), English (US), French, German, Dutch, Spanish, Italian, Portuguese, and Russian
Power requirement	33W
Input voltage	12V DC, 100V – 240V AC/DC adapter included
User Help	In-built on-line help
Set-up Protection	Parameter protection during power outs
Password Protection	Programmable passwords, 3 levels: user, installer, network
Operating System	Linux®
Environmental	Min 0° to 40°C (32° to 104°F). 90% humidity, non-condensing

APPROVALS

Unit	CE, FCC
External Power Supply	CE, UL & GS (indoor use only)

PC REQUIREMENTS

(For supplied remote viewing and control software)	Windows 98 or later, Pentium 500MHz or faster, 16MB disk space, SVGA Monitor, 10/100Base-T LAN

BAXALL
CCTV AND NETWORK VIDEO SOLUTIONS

...Simply a better DVR