Ocean Systems

OS-DR1
MPEG4 Digital Recorder

Features

- 100 pictures per second
- 4 or 8 camera inputs (upgradeable)
- MPEG4 compression
- CIF, 2CIF and 4CIF (D1) image quality options
- 250 Gbytes to 1 Tbytes (upgradeable)
- USB ports for backup
- VGA and BNC monitor outputs
- Simultaneous record and play
- Alarms and activity detection
- Covert cameras (hidden)
- Audio
- Video loss detection
- Digital authentication
- Ethernet for remote IP viewing on a PC
- Password protected menu
- Supports remote keyboard
- Watchdog timer protection
- Double fan-cooled for high reliability
- Not PC or Windows based
- Manufactured in the UK

Order Codes

OS-DR14G2	Digital Recorder, 4 Cameras, 100pps, 250G
OS-DR14G5	Digital Recorder, 4 Cameras, 100pps, 500G
OS-DR14T1	Digital Recorder, 4 Cameras, 100pps, 1T
OS-DR18G2	Digital Recorder, 8 Cameras, 100pps, 250G
OS-DR18G5	Digital Recorder, 8 Cameras, 100pps, 500G
OS-DR18T1	Digital Recorder, 8 Cameras, 100pps, 1T

Overview

The OS-DR1 series Digital Video Recorders (DVR) use the latest MPEG recording technology to compress the maximum amount of video at the highest quality and the highest frame rates onto the hard drives. At the same time the latest SATA hard drives are used, providing reliability and a wide choice of capacity to suit the needs of the installation and the budget. Automatic monitoring of drives is featured and the user is alerted if replacement is due.

Ocean Systems Digital Video Recorders (DVR) are designed and manufactured in the UK to the highest quality standards by Ocean Systems Ltd, the leading UK digital recorder manufacturer. Users have the reassurance of a premium brand name and a stable and reliable UK built product, backed up by both pre-sales and post-sales technical assistance and long term product support.

Ocean Systems maintains stability in the product range so users can therefore commit to roll-outs that may extend over many months in the knowledge that models will not become unavailable during the process. When new products are designed, we aim to maintain familiarity of operation in the keys and menus so users can readily switch to newer models.

Ocean Systems provides hardware and software upgrades so installed products benefit from subsequent improvements and additions of features in the future. This includes upgrading of hard drive capacity, increasing the number of camera inputs and the addition of new software features. Most upgrades can be performed in-situ without having to remove the product.

Ocean Systems Ltd, Ocean House, Redfields Industrial Park, Redfields Lane, Church Crookham, Hants GU52 0RD
www.oceansystems.co.uk
Tel: 01252-851477 Fax: 01252-851296 Email: sales@oceansystems.co.uk

Ocean Systems

OS-DR1
MPEG4 Digital Recorder

Technical Data

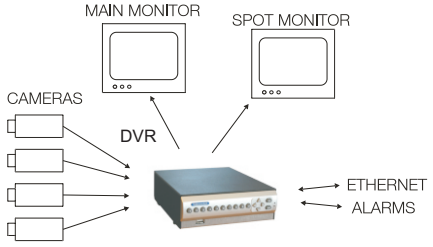
Storage	
Hard drive	SATA, single hard drive, 250 to 1Tbytes (upgradeable)
USB	External USB storage devices (e.g. memory sticks) may also be used for backup
Digital recording/Replay	
Camera inputs	4 or 8 with programmable titles
Maximum record rate	100 pictures per second (CIF), 50 (2CIF/4CIF)
Image retention	1 to 999 days, image rate calculated automatically or set via menu
Colour/Monochrome	Auto sense
Video gain	Auto (AGC)
Record resolution	704 x 576 (4CIF), 704 x 288 (2CIF), 352 x 288 (CIF)
Display resolution	720 x 576 pixels x 16.8 million colours
Average image size	3k to 20k bytes
Compression method	MPEG4
Hardware/Software	Embedded processor, proprietary Ocean Systems Ltd software
Simultaneous processing	Record, Live, Play, Remote and CD/DVD backup
Image authentication	Every image is tagged with time, date, image number and other information and is protected with a digital security signature for authentication
Video inputs	0.5 to 1V pk-pk, 75 Ohms (switchable via menu), composite PAL (BNC)
Display	
Main monitor output	VGA and 1V pk-pk composite PAL (BNC), full screen, quad, 8-way split, programmable titles
Spot monitor output	Full screen output (OS-M18 only), 1V pk-pk composite PAL (BNC)
Auto sequencing	1-99 seconds, full and quad, main and spot monitors
Covert (hidden)	Any cameras may be hidden from view on the monitors
Control and Interface	
Keypad	16 keys
Remote keyboard ports (x2)	Each with built-in balun for twisted pair video connection to remote keyboards with attached monitors
Passwords	4 passwords with fully programmable rights
Search modes	Date/time search, sweep, event list, incident list
Timers	Record, alarm and activity (weekday and weekend)
Alarm inputs	16 inputs, normally open or normally closed volt-free contacts
Motion detection	16 x 12 zones, programmable sensitivity
Relays	2 relays, 24Vdc, 200mA max normally open or closed
Alarm/activity response	Pull-up full screen display, programmable alarm record rate
Event log	Alarm, activity and system events
Incident list	Up to 10 incidents may be saved at once
Dome control	via external joystick keyboard
Watchdog timer	In the event of any unexpected condition, the system will automatically recover
Remote Viewing	
Ethernet	100baseT, TCP/IP, for LAN, WAN, broadband. View on PC using browser (ActiveX) or viewer provided.
Power, Physical & Environmental	
Power input	12V DC, 3A
Temperature	5 to 35deg C (operating), -10 to 40deg C (storage)
Humidity	10 to 90% non-condensing
Dimensions/Weight (Unit)	180mm x 70mm x 220mm (WxHxD), 2kg
Dimensions/Weight (Boxed)	380mm x 170mm x 320mm (WxHxD), 4kg
Accessories Included	
Power Supply	90-265 Vac input, 12VDC 40W output
Cables	Mains (figure of eight/13A), Ethernet (CAT5)
Other accessories	OS-X17 Alarm/Relay break-out module, user manual
PC Software	"OS-Viewer" remote access IP Viewer
Upgrades	
Firmware upgrades	Available on the Internet (free of charge)
Hard Drive Upgrades	Replacement and upgrade hard drives available
Camera input upgrades	The number of camera inputs can be upgraded from 4 to 8 with a OS-E6 channel card

Technical Data

The table below show examples of the relation between record image rates, hard drive capacity and number of days data retention. Divide by number of cameras to get the rate per camera. These examples are based on 6k image size.

Capacity	25pps	50pps	100pps
250 Gbytes	19 days	9.6 days	4.8 days
500 Gbytes	38 days	19 days	9.6 days
1 Tbytes	76 days	38 days	19 days

Example Configuration



Ocean Systems Ltd, Ocean House, Redfields Industrial Park, Redfields Lane, Church Crookham, Hants GU52 0RD
www.oceansystems.co.uk
Tel: 01252-851477 Fax: 01252-851296 Email: sales@oceansystems.co.uk