

DIGITAL sprite₂

9 & 16 camera, high performance digital multiplex recorder

Digital Sprite 2 combines digital multiplexing, digital recording, multiple-user network viewing and dome control in a single, easy to use and install, cost-effective package.

Digital Sprite 2 provides true flexibility by functioning as either a standalone plug and play system, or the ideal platform for digital system integration. Built-in network video transmission, including bandwidth limitation offers matrix-style multiple user network viewing and control. Supplied free with Digital Sprite 2 the IR remote gives the operator front panel control of multiple racked units with no need for additional wires or cabling, and the new ergonomically designed keyboard can be used to control up to 16 units. A multi-directional joystick delivers swift, seamless control of leading manufacturer's domes.

Up to two internal hard disks and the ability to archive to external RAID units can provide up to 8 months high quality, continuous digital recording. All hard disk recordings have a digital signature applied and are accessible to the user at the touch of one button or via powerful GOTO and event preview facilities. Events can be copied to external archive media as standard JPEG images for PC playback.

New network remote support provides an excellent training and diagnostics tool. Digital Sprite 2 together with free DM Network viewer software enables system adjustments to be made remotely over the network. One user may connect to the unit in a password protected admin mode that allows direct access to the menus. System adjustments can then be made remotely over the network **without the need for a site visit.**



benefits

- INSTANTLY FAMILIAR DIGITAL VIDEO MULTIPLEXING
- FAST ACCESS TO UP TO 1 MONTH OF HIGH QUALITY DIGITAL RECORDINGS *
- ALL RECORDINGS TO HARD DISK HAVE A DIGITAL SIGNATURE APPLIED AT SOURCE
- SIMULTANEOUS RECORD, PLAYBACK, BACKGROUND IMAGE ARCHIVING, MULTIPLE USER NETWORK VIEWING
- NETWORK REMOTE SUPPORT ALLOWS ONE ADMIN USER TO ACCESS DIRECTLY THE MENU SYSTEM ON THE UNIT, ALLOWING SYSTEM CHANGES TO BE MADE REMOTELY
- FILE EXPORT OF DIGITALLY SIGNED IMAGES OVER THE NETWORK
- ARCHIVE TO CD-R (CD WRITER)
- ALARM NOTIFICATION VIA E-MAIL
- IR REMOTE CONTROL OFFERS FRONT PANEL CONTROL INCLUDING PLAYBACK AND VIEW OF EVENT LOG
- AUDIO RECORDING
- ACTIVITY SEARCH - ALLOWS THE USER TO SEARCH BACK THROUGH RECORDINGS FOR MOVEMENT IN A PARTICULAR AREA OF THE IMAGE

* 320GB model, recording at the equivalent of 24 hour timelapse mode, SVHS quality ie, 6pps with 18KB file size.

Specification

LANGUAGES

English, French, German, Spanish, Italian, Chinese, Czech and Russian.

CAMERAS

9 or 16 camera models available
Loop through BNC connectors provided for each camera input, with software configured termination.
Cameras auto detected on power up.
Relay trigger option on camera fail.

HIDDEN CAMERAS

Option to view all or selected cameras, without affecting cameras recording.
Hidden cameras can be viewed via the network.

MONITOR VIEWING

Main monitor:

Full screen, programmable sequence.
Programmable multi-screens: picture-in-picture, quad,
9 way, 8+2, 12+1, 16 way
x2 electronic zoom, freeze frame.
Mon A: Composite video BNC connector or S-video 4 pin mini
DIN connector.

Spot monitor:

Full screen, programmable sequence.
Mon B: Composite video BNC connector.

SCHEDULING

Choice of day, night or weekend offers the ability to automatically:

- Select the cameras to be recorded
 - Switch alarms and activity on/off
 - Select whether alarms and activity are interleaved or exclusively recorded
 - Alter the record rate for standard, alarm and activity recording
- Activation is via timer or alarm panel link to AUX input.

ACTIVITY DETECTION

Programmable 16 x 8 masking grid for each camera view
5 levels of sensitivity

Options:

- Up to 30 minutes of tagged pre and post activity recording per event
- Auto copy to external backup device (Zip only)
- Main monitor display of last alarm, 2 second dwell per alarmed camera, return to pre-alarm display
- Spot monitor sequences activity
- Buzz on activity
- Trigger light duty relay output R2 (500mA @ 12V-48V max)

ALARMS

9 or 16 normally open/closed alarm contacts available via remote alarm module supplied separately.
Alarm contacts have individually programmable polarity.

8 contacts per camera. Multiple alarms can trigger one camera and/or 1 alarm can trigger multiple cameras.

Options:

- Up to 30 minutes of tagged pre and post alarm recording per event
- Auto copy to external backup device (Zip only)
- Main monitor display of last alarm, 2 second dwell per alarmed camera, return to pre-alarm display
- Spot monitor sequences alarm
- Trigger telemetry preset on alarm
- Buzz on alarm
- Trigger light duty relay output R1 500mA @ 12V-48V max

E-MAIL NOTIFICATION ON ALARM

Up to five email addresses can be emailed on alarm.
Notifies the following events on a camera by camera basis:

- Alarm
- Activity
- Camera fail

Also power up, global alarm, panic alarm or date change

E-mail contains - JPEG picture of camera image on first alarm, machine I.D., camera number, alarm number, time and link to network viewer.

IR REMOTE CONTROL

Provides operator with front panel control of single or multiple racked units including:

- The ability to change cameras and camera views
- Search using the GOTO function and review of the event list
- Playback of images from the hard disk

AUDIO

The user has the option to record and play back a single channel of audio in real time. If recorded with images from camera one, audio can be played back either directly from the unit via external speakers, copied to standard audio recording media or exported across the network.

Connections:

Mic in: 3.5mm jack socket (requires an electret microphone with a sensitivity of -50dBV or better)
Line in: 47K Ω input impedance, 1V pk-pk, RCA phono socket
Line out: 1V pk-pk, RCA phono socket

SEARCH AND PLAYBACK

VCR style keys offer:

- One button touch playback
- Frame advance/rewind, fast picture search and pause keys
- Event list, including event list filter with unique thumbnail preview facility
- GOTO time and date
- Playback in quad, picture in picture and full screen

ACTIVITY SEARCH FACILITY

Allows the user to search through hard-disk recordings for movement in a particular area of the image.

RECORDING

Playback and record to hard disk simultaneously

- Disk select option allows user to select which of the available disks they would like to record video and event logs to, ie either internal or external RAID only.

Internal hard disk options:

Choice of single or dual internal drives are available
At time of press the maximum internal storage is 320GB.

High capacity RAID storage:

Offers up to 2.25TB of external hard disk storage in addition to internal storage.

Access to hard disk recordings will be seamless, regardless whether the images are stored on RAID or Digital Sprite2.

Hard disk sizes are rapidly increasing in capacity. Please contact customer services or DM web site, for latest available disk size configurations for Digital Sprite2 and RAID.

Event partition:

Separate area on disk can be defined for protected storage of alarms and events.
Area is configured by the user in GB and overwrites itself

Digital tape:

Images can be archived to various external devices. Please check for latest options. Play back of images is via PC playback Software, supplied with the product and as a free download from the DM web site.

The table below shows the disk size required for VHS, S-VHS and S-VHS+ image qualities, at the equivalent of 24 hour record speeds - 6 pictures per second (across all cameras), and audio disabled.

RECORD DURATION	IMAGE QUALITY*		
	VHS	S-VHS	S-VHS+
	14K	18K	25K
1 day	9GB	11GB	14GB
7 days	53GB	68GB	94GB
31 days	231GB	297GB	412GB

*Approximate image quality comparisons to VHS and S-VHS standards. Digital Sprite can record a single camera at up to 25 PPS (PAL), 30 PPS (NTSC). Please refer to our record calculator on the DM website for other possible calculations.

TIMED EXPIRY

- Timed expiry option allows images to be held for a selected number of days.
- Images on the disk which are older than the number of days selected are not accessed.

EVENT ARCHIVING

Individual images, event sequences and user defined recorded sequences can be saved to an external CD-R connected to the SCSI port. The CD containing the images, the sequences and images themselves are digitally signed for authentication purposes. Playback of images from the CD is via a standard CD ROM drive. The Video CD playback software will auto-run and does not require the installation of software on the users PC. Archived images can be viewed using DM's FREE PC playback software, supplied with the product and as a free download from the DM website.

DIGITAL SIGNATURE

Images have a digital signature applied as they are recorded to hard disk both internally and externally with no loss of record performance. The application of the digital signature makes it possible to detect whether single image or a sequence of images have been tampered with and also provides the date, time and ID of the unit recorded on.

NETWORK CAPABILITIES

Standard ethernet connection provides live and recorded viewing on a networked PC using DM's Network Viewer software or via web pages using a standard internet browser. Network viewing is independent and does not affect the recording or local operation.

Network Viewer software features include:

- Live full and quad screens
- VCR style fast forward and rewind, playback and frame advance/rew
- GOTO time and date and unique thumbnail event review
- File export of digitally signed images over the network using Network Viewer software
- Copy single images as JPEG and sequence of images as AVI to save to PC
- Telemetry control, including PTZ and telemetry presets
- Multiple user access
- Configurable password protection

Web pages features include:

- Viewing of live images in full screen and quad format including telemetry control
- Playback (full screen only) including GOTO function
- Password authentication

Web pages are also compatible with Mac and Linux Netscape browsers version 4.x

NETWORK REMOTE SUPPORT

Enables system adjustments to be made remotely over the network. One user may connect to the unit in a password protected admin mode, that allows access to the menus as they appear on the unit themselves. System adjustments can then be made remotely over the network, such as change the record rate, set up the activity grid, program presets and more - without the need for a site visit.

COLOR RESOLUTION

Sampling rate: 13.5 MHz to CCIR 60I
 Number of pixels:
 Live images PAL 720h x 512v
 NTSC 720h x 448v
 Multiplexed/
 recorded images PAL 720h x 256v
 NTSC 720h x 224v

16.8 million colors 256 levels of grey, 8-bit luma.

COMPRESSION

Standard JPEG format files.
 User definable compression for file sizes from 6 to 45KB's per image.

DATA

2x 485 BUS MMJ connectors for 485 BUS peripheral devices.
 RS-485 serial port.
 SCSI 2 narrow.
 1x Ethernet 10base-T, RJ45 twisted pair.

TEMPERATURE RANGE

Operating temperature 5 - 55°C (41 - 131°F)

RELATIVE HUMIDITY

5% - 85% Non-condensing.

DIMENSIONS

Multiplexer: 74mm (H) x 440mm (W) x 409mm (D)
 2 7/8" (H) x 17 5/16" (W) x 16 1/8" (D)
 Keyboard: 65mm (H)* x 410mm (W) x 183mm (D),
 (* 105mm including Joystick)
 2 9/10" (H)* x 16 1/8" (W) x 7 1/4" (D)

WEIGHT

6.8kg (15lbs) without PSU
 7.6kg (16.7lbs) with PSU

POWER SUPPLY

Input Voltage: 100 - 230 V.a.c. 50/60 Hz.
 Output Voltage: 5, +12, - 12 V.d.c.

Ordering Information

Description	Short code
9 camera color duplex	DS2 DX9C
16 camera color duplex	DS2 DX16C

Associated products

Optional remote keyboard	KBS3
Video switcher	CX02
Remote Alarm Box	CI01
RAID Tower	RAIDT
RAID Rack	RAIDR

Please contact customer services for latest available disk sizes. Choice of single or dual internal drives are available. At time of press the maximum internal storage is 320GB. Standard model offers a single 40GB hard disk at time of press.



KBS3

remote keyboard



TELEMETRY

Multi directional joystick control of either single or multiple units is available via the remote keyboard. If operating more than one racked product the keyboard provides an LCD display identifying the name and number of the unit.

Tracking dome camera can be removed from spot sequence. Built-in RS485/twisted pair protocols provide direct control of the following domes:

- JVC TK-C675BE & TK-C553E
- Ultrak Ultradome™ KD6
- Ademco Orbiter & Jupiter Microspheres™
- Airtech/Kalatel CyberDome™
- Dennard 2050
- Panasonic WV-CS850A, WV-CS854, WV-CW860 external
- Sensormatic Speeddome™ V
- Pelco P Spectra II

Please check the website for latest available protocols. Also compatible with BBV telemetry receivers, including RX100 protocol converter for control of major manufacturer's domes.

Coaxial telemetry is available with Pelco Spectra II (please note that autopan and patrol modes are not available).

DM 485-bus telemetry is also available via DTMF with external TAD3 device.

9 camera 16 camera

range

color	duplex	DS2 DX9C	DS2 DX16C
optional remote keyboard			KBS3
Video switcher			CX02
IR Remote control			IR Remote
A choice of hard disk options are available including the latest 320GB storage option			
Please contact Customer Services in your region or check the website at www.dedicatedmicros.com			

PLEASE CHECK THE WEBSITE FOR DETAILS OF COMPATIBLE SCSI CD-R PRODUCTS AND OTHER LATEST DEVELOPMENTS

FOR FURTHER INFORMATION PLEASE CONTACT



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REF: DM04/02