

KXR4116

DIGITAL VIDEO RECORDER



KXR4116

KXR4116 Digital Video Recorder (DVR) is an advanced, networked video management system that delivers a long term, low-maintenance digital video storage and retrieval solution. The KXR4116 DVR can be seamlessly integrated into existing CCTV systems, providing comprehensive solutions for security, monitoring, transaction, access control and safety applications.

The KXR4116 is a high quality digital video and audio recording unit that comes standard with 16 video inputs, 1 audio input/output and 16 alarm inputs. Intelligent video management allows simultaneous video recording, monitoring and playback, permitting real-time investigation of alarm events. The superior networkability of the KXR4116 allows remote monitoring and recording over IP networks or dial-up via POTS built-in modem. A networked system can be centrally configured to control any number of cameras enabling multi-site deployment and multi-user viewing and monitoring.

Installation and operation of the KXR4116 is fast and efficient. Initial set-up, including network configuration, camera recording parameters and alarm-based recording, is easily managed on-site or remotely. Superior system reliability, combined with remote diagnostics and maintenance functions, make the KXR4116 the ideal digital video solution.

- **100/120 images/sec Display**
- **Max. 100/120 images/sec Recording (640x480 CIF resolution)**
- **Pentaplex (Monitoring, Recording, Playback, Remote access at the same time)**
- **80GB Standard hard drive**
- **Up to 4 internal hard drives**
- **Graphic display of recorded video for easy searching**
- **Proprietary DB structure for added stability and quick searching**
- **Anti-Editing function using Chained Finger Print Encryption**
- **Remote Playback via LAN, PSTN, ISDN**
- **Real Time Remote Monitoring and Control**
- **ML-JPEG compression (Average 2 ~ 4KB / image in 320x240 CIF resolution)**
- **User Friendly GUI**
- **Hardware Watch Dog Timer Function**
- **Web enabled remote access via internet Explorer for live viewing**



KXR4116

TECHNICAL SPECIFICATIONS

MODELS

KXR4108N/4116N	NTSC models
KXR4108P/4116P	PAL models

GENERAL

Camera In	16 ch NTSC / PAL - BNC con.
Video Out	PC Monitor and NTSC/PAL Monitor SVGA
Display Speed	100/120 images/sec PAL/NTSC
Recording Speed	Max. 100/120 images/sec with 4 cameras, max. 90 fps over 5 - 16 cameras
Compression	JPEG, ML-JPEG
Data Size	2 - 4KB Average (ML-JPEG : 320x240 resol.)
Recording Resolution	160x120, 320x240, 640x240, 640x480
Screen Division	1, 4, 7, 9, 10, 16
Storage Structure	Proprietary DB structure (IBANK Structure)
Security	Chained Finger Print Encryption, Watermarked Video Export
Recording Schedule	Scheduled by Camera, Date and Time
Motion Detection	Provided
Remote Function	Remote Playback, Remote real time Monitoring (Option)
Transfer Rate	PSTN : 2 - 3 fps, LAN : Max. 30 fps
I/O	16/1 ports

Multi-Tasking	Monitoring, Recording, Searching, Transferring, Backup at the same time
---------------	---

Searching	Recording Table Provided, (time/date), Smart Search
Image Processing	Intpl, Blur, Sharp provided
Book Mark	Provided
Backup	Provided auto / manual backup to DVD, network driver
OSD (OnScreen Display)	Cam ID, Location, Status, Mode Display Time, Date
Special Playback Functions	Multi-Screen Playback, Smart Search, Panoramic Playback

ADDITIONAL ACCESSORIES

KXR4S080 -	Internal Hard Disk Drive, Additional 15 days storage with 16 inputs recording @ CIF resolution 1 PPS / camera
KXR4S100 -	Internal Large Hard Disk Drive, Additional 30 days storage with 16 inputs recording @ CIF resolution 1 PPS / camera
KX4CDRW -	Internal CDRW drive
KX4DVDRM -	DVD RAM Drive
KXR4U040 -	External 40GB hard disk drive for backups
KXR4U120 -	External 120GB USB hard disk drive for backups

HDD calculator

The variables in the fields below have been considered the Max. Recording Capacity of IDR.			The values in the fields below are calculated from the values on the left under some assumption.									
Pictures per second per camera (variable)	Number of Cameras per DVR (variable)	File size per Second (in kB) (variable)	Rec. Duration for 1GB (in minutes)	Rec. Duration for 1GB (in hours)	Rec. Duration for 80 GB (in days)	Rec. Duration for 160 GB (in days)	Rec. Duration for 240 GB (in days)	Rec. Duration for 320 GB (in days)	Rec. Duration for 400 GB (in days)	Rec. Duration for 480 GB (in days)	Rec. Duration for 560 GB (in days)	Rec. Duration for 640 GB (in days)
1	1	3	5555.56	92.59	246.91	493.83	740.74	987.65	1234.57	1481.48	1728.40	1975.31
	4	12	1388.89	23.15	61.73	123.46	185.19	246.91	308.64	370.37	432.10	493.83
	9	27	617.28	10.29	27.43	54.87	82.30	109.74	137.17	164.61	192.04	219.48
	16	48	347.22	5.79	15.43	30.86	46.30	61.73	77.16	92.59	108.02	123.46
2	1	6	2777.78	46.30	123.46	246.91	370.37	493.83	617.28	740.74	854.20	987.65
	4	24	694.44	11.57	30.86	61.73	92.59	123.46	154.32	185.19	216.05	246.91
	9	54	308.64	5.14	13.72	27.43	41.15	54.87	68.59	82.30	96.02	109.74
	15	96	173.61	2.89	7.72	15.43	23.15	30.86	38.58	46.30	54.01	61.73
3	1	9	1851.85	30.86	82.30	164.61	246.91	329.22	411.52	493.83	576.13	658.44
	4	36	462.96	7.72	20.58	41.15	61.73	82.30	102.88	123.46	144.03	164.61
	9	81	205.76	3.43	9.14	18.29	27.43	36.58	45.72	54.87	64.01	73.16
	16	144	115.74	1.93	5.14	10.29	15.43	20.58	25.72	30.86	36.01	41.15
4	1	12	1388.89	23.15	61.73	123.46	185.19	246.91	308.64	370.37	432.10	493.83
	4	48	347.22	5.79	15.43	30.86	46.30	61.73	77.16	92.59	108.02	123.46
	9	108	154.32	2.57	6.86	13.72	20.58	27.43	34.29	41.15	48.01	54.87
	16	192	86.81	1.45	3.86	7.72	11.57	15.43	19.29	23.15	27.01	30.86
5	1	15	1111.11	18.52	49.38	98.77	148.15	197.53	246.91	296.30	345.68	395.06
	4	60	277.78	4.63	12.35	24.69	37.04	49.38	61.73	74.07	86.42	98.77
	9	135	123.46	2.06	5.49	10.97	16.46	21.95	27.43	32.92	38.41	43.90
	16	240	69.44	1.16	3.09	6.17	9.26	12.35	15.43	18.52	21.60	24.69
10 *	1	30	555.56	9.26	24.69	49.38	74.07	98.77	123.46	148.15	172.84	197.53
	4	120	138.89	2.31	6.17	12.35	18.52	24.69	30.86	37.04	43.21	49.38
	9*	270	61.73	1.03	2.74	5.49	8.23	10.97	13.72	16.46	19.20	21.95
30 *	1	90	185.19	3.09	8.23	16.46	24.69	32.92	41.15	49.38	57.61	65.84
	4*	360	46.30	0.77	2.06	4.12	6.17	8.23	10.29	12.35	14.40	16.46

* The unit can record up to 120FPS with 4 cameras or less, once more than 4 cameras are installed the unit records 90 global FPS.

Design and specifications subject to change without notice.

FORM 4204 REV. 05/9/02 ©Ultrak® is a registered trademark of Ultrak, Inc. 2002.

Ultrak Worldwide Support Center:

1301 Waters Ridge Drive
Lewisville, TX 75057
(800) 796-2288 (972) 353-6500
Fax (972) 353-6670



www.ultrak.com