CR04A
Entry Level 4-ch Standalone DVR
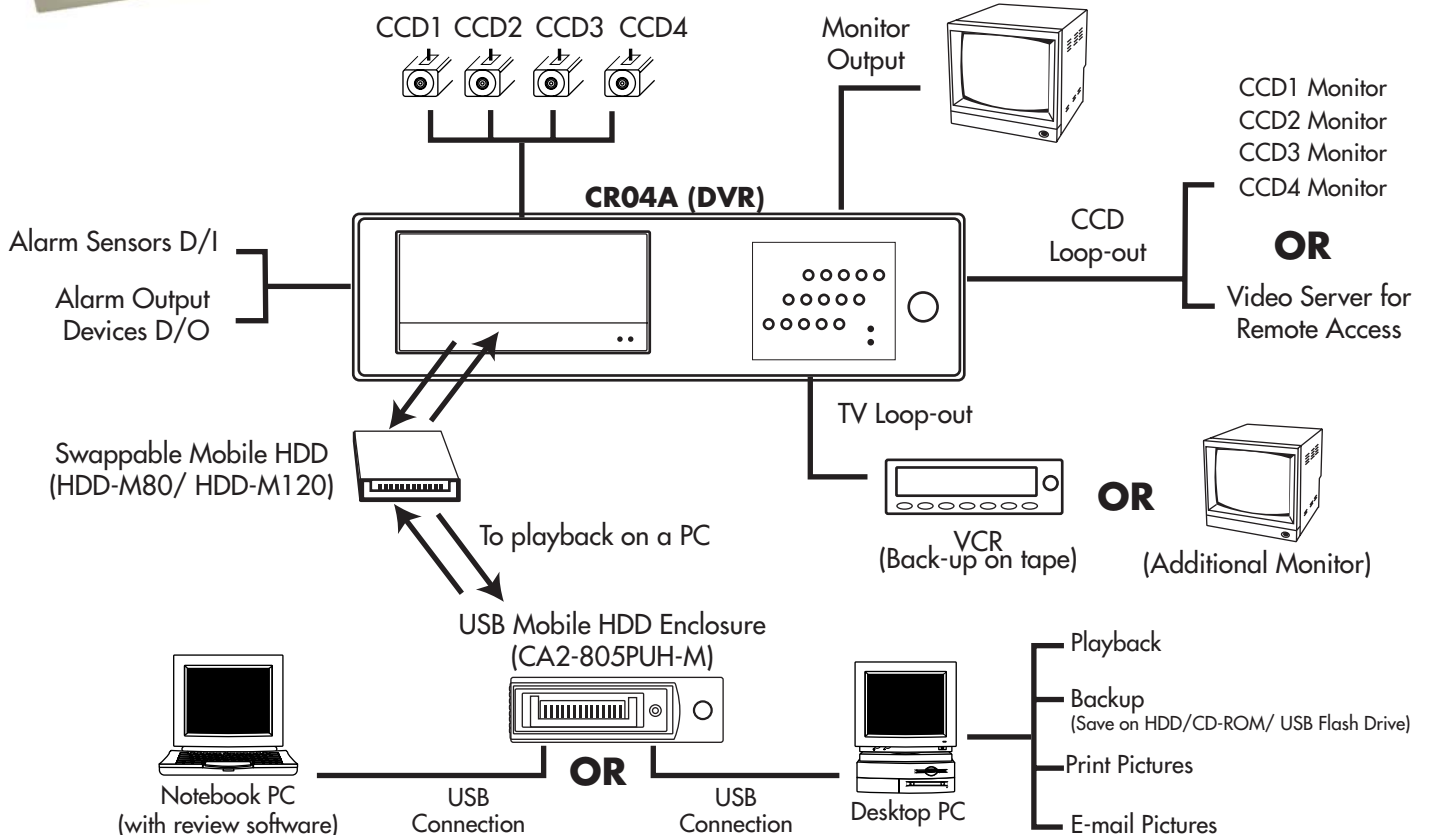

CR04A (DVR)

CA2-805PUH-M
(USB Mobile
HDD Enclosure)
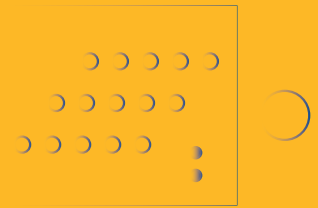
The **CR04A** is an affordable, easy to use, stand-alone DVR (digital video recorder). It displays clear and smooth Motion-JPEG images. There are two selectable recording modes and three recording quality levels, which could satisfy users' different requirements of picture quality, recording time length, motion speed, and screen displays. It is equipped with easy swappable hard drive and optional internal second hard disk allowing for longer time recording. It is also very easy to make a copy of any wanted video images to a tape by connecting a VCR to its TV loop-out connector. Furthermore, the four channel BNC loop-outs allow users to integrate with a video server for remote monitoring or to connect additional monitors for multi-site monitoring in full screen at the same time. In addition, the removable hard drive is also playable from a PC via USB connection (require USB Mobile HDD Enclosure CA2-805PUHM) and a free proprietary software. There is no doubt that the CR04A is an ideal video security system for homes and small businesses.

CCD1 CCD2 CCD3 CCD4

Monitor Output

CCD1 Monitor
CCD2 Monitor
CCD3 Monitor
CCD4 Monitor

CR04A (DVR)

CCD Loop-out

OR

Alarm Sensors D/I

Alarm Output Devices D/O

Video Server for Remote Access

TV Loop-out

Swappable Mobile HDD
(HDD-M80/ HDD-M120)

To playback on a PC

VCR
(Back-up on tape)

OR

(Additional Monitor)

USB Mobile HDD Enclosure
(CA2-805PUH-M)

Playback

Backup
(Save on HDD/CD-ROM/ USB Flash Drive)

Print Pictures

E-mail Pictures

OR

Notebook PC
(with review software)

USB Connection

USB Connection

Desktop PC

Features:

1. Great picture quality of MJPEG format.
2. Proprietary review software on the system itself (embedded) or a PC to ensure authenticity.
3. Real time live display.
4. Up to 30fps (25fps for PAL) global recording frame rate.
5. Selectable two record modes and three video quality levels.
6. Selectable viewing and recording camera channels.
7. Hard disk "overwrite" function available.
8. Easy swappable hard drive and optional internal 2nd hard disk for video recording.
9. Password protection.
10. Power recovery auto record.
11. Schedule record and alarm record.
12. Easy search and playback
13. With 80GB, it records about 50 hrs at 30fps or 100 hours at 15fps and Normal quality. Or, records longer hours at reduced frame rate and lower quality, up to 1,852 hours.
14. Value-added free PC review software for recorded videos on the removable HDD. Requires optional CA2-805PUH-M (USB Mobile HDD Enclosure).

Specifications	
Compression Format:	MJPEG (12~20 Kbytes/frame)
Video System:	NTSC/PAL
Live Display Resolution:	NTSC 720x480 PAL 720x576
Live Display Frame Rate:	NTSC 120 fps PAL 100 fps
Recording Resolution:	NTSC 640x224 PAL 640x272
Recording Frame Rate:	Up to NTSC 30 fps / PAL 25 fps (Quad mode) Up to NTSC 7.5 fps / PAL 6.25 fps (Each mode)
Recording Quality:	Low: 12 Kbytes/frame Normal: 15 Kbytes/frame High: 20 Kbytes/frame
Storage:	IDE HDD. One removable and one optional internal
Monitor Output:	1 BNC (1.0 Vp-p / 75 ohm)
TV Loop-out :	1 BNC (1.0 Vp-p / 75 ohm)
Video Inputs:	4 BNC (1.0 Vp-p / 75 ohm)
Video Loop-out:	4 BNC (1.0 Vp-p / 75 ohm)
Alarm I/O:	4 Sensor Inputs / 1 Alarm Output
Recording:	Continuous / Manual / Sensor Event / Schedule
Search:	Date / Time / Event / Camera
Power Source:	100 ~ 240 VAC / 50~60Hz
Power Consumption:	30 Watt for 1 HDD; 45 Watt for 2 HDD
Operating Temperature:	0 degree˚C ~ 40 degree˚C
DVR Dimension (W x D x H):	422 x 298 x 88 mm
Package Size (W x D x H):	530 x 410 x 210 mm
Weight (N.W./G.W.):	4.0Kgs / 5.0 Kgs
Certifications:	UL, CUL, LVD, FDA, FCC, CE

Models:

CR04A-80, DVR system with 80GB
CR04A-120, DVR system with 120GB
(Please contact for possible larger GB configuration.)

Options:

1. Peripheral for playback on a remote PC
CA2-805PUH-M (USB Mobile HDD Enclosure without hard disk)

2. Additional swappable mobile hard drive
HDD-M80 (80GB mobile hard drive)
HDD-M120 (120GB mobile hard drive)
(Larger GB may be available while the system supports in the future. Please contact.)

Recording time calculation formula:
(A GB x 1,000,000 k/GB) / (BxC) k per sec. = D sec (Recording time)
D sec. / 60 / 60 / 24 = H days. (Recording time)

A: Hard disk capacity
B (Video quality): Low (12k/frame); Normal (15k/frame);
                                  High (20k/frame).
System defaults at High.
C (Recording Frame Rate): 30fps, 15fps, 10fps, 7fps, 5fps,
                                  4fps, 3fps, 2fps, or 1fps.

For example: Continuous recording with Normal quality and
                  max. 30fps on an 80GB hard disk.
(80GB x 1,000,000 k/GB) / (15k/f x 30fps) k/sec=177,777.77 sec
177,777.77sec / 60 = 2,962.96 min.
2,962.96 min. / 60 = 49.38 hrs.
49.38 hrs / 24 = 2.06 days (continuous recording time for 80GB)