

# EQR400

Four Channel Simplex Digital Video Recorder



**EverFocus**<sup>®</sup>



# Affordable, Easy to Operate Four Channel Digital Video Recorder



The EQR400 is an economical digital video recorder designed specifically for entry-level digital security applications. EQR400's VCR-like operations allows the unit to be used as a simple, hassle-free DVR. This means that a PC, a mouse and complicated software are not required to operate it. A USB2.0 port is provided to give the user the option to control the unit from a PC. EQR400, incorporating all the benefits of digital video recording, is easy to install and operates just like a VCR. Whether for retail shops, banks or other small business applications, the EQR400 provides the entry level digital CCTV solution at a price that makes sense.

## ► Features

- 4-CH cost-effective DVR
- Camera inputs (NTSC/PAL)
- TV monitor out / Call (spot) monitor out
- Modified Motion JPEG compression with resolution up to 640x224 (NTSC) / 640x272 (PAL)
- Video is stored in up to 2 built-in IDE HDDs. Non-editable video data
- 3 kinds of recording schedule modes: Auto/ Manual/ Alarm
- 2 kinds of video recording modes: Multiplex/Quad
- Real time live display with total 120(NTSC)/100(PAL) fps
- Recording up to 6.25/7.5 fps per channel for multiplex mode
- Recording up to 25/30 fps for quad mode
- Quick start-up
- Quad or full-screen display
- Video is stored in up to 2 built-in IDE HDDs. Non-editable video data
- On screen display menu operated by front buttons
- Quick data search by date/time for playback
- PC-Link for retrieving the data in the HDD
- RS232 port for remote controller keypad

## ► Advantages

### LONG RECORDING TIME WITH LOW MAINTENANCE

Digital recording on two internal hard disks eliminates many service issues related to the traditional VCR. No longer will you have to stock spare units or clean recording heads and tape transport mechanism. Fewer moving parts mean less maintenance and repair, and less down time which adds up to big savings in time and money.

### AFFORDABLE AND POWERFUL

The EQR400 range has a price and feature set that now makes digital technology accessible to smaller applications where a dedicated CCTV system is required.

## ► Wide Variety of Applications for Security Surveillance



• Drugstore /  
Convenience store



• Parking lots / Gas station



• Day care center /  
Home security



• Warehouse / Office building



## ► Time Lapse Mode Recording Time

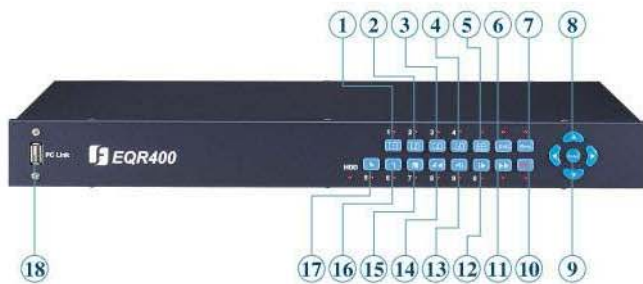
The total HDDs' capacity are 240 GB  
(The data is for reference based on mid-resolution cameras.)

Total Capture Rate (FPS)	NTSC (Multiplex)									NTSC (Quad)								
	High			Middle			Low			High			Middle			Low		
	day	hour	min	day	hour	min	day	hour	min	day	hour	min	day	hour	min	day	hour	min
30	5	21	13	7	18	24	9	17	1	3	11	13	4	9	55	5	9	27
15	11	18	26	15	12	49	19	10	2	6	22	26	8	19	50	10	18	54
10	17	15	40	23	7	14	29	3	3	10	9	39	13	5	45	16	4	21
7	25	5	14	33	6	54	41	14	38	14	20	39	18	21	55	23	2	48
4	44	3	10	58	6	6	72	19	37	26	0	9	33	2	22	40	10	54
3	58	20	13	77	16	8	97	2	10	34	16	12	44	3	10	53	22	32
2	88	6	20	116	12	12	145	15	15	52	0	18	66	4	45	80	21	48
1	176	12	40	233	0	24	291	6	30	104	0	36	132	9	30	161	19	36

Total Capture Rate (FPS)	PAL (Multiplex)									PAL (Quad)								
	High			Middle			Low			High			Middle			Low		
	day	hour	min	day	hour	min	day	hour	min	day	hour	min	day	hour	min	day	hour	min
25	7	12	24	8	15	7	11	2	18	3	14	2	4	7	33	5	7	6
12	15	15	50	17	23	30	23	2	48	7	11	14	8	23	45	11	0	47
8	23	11	45	26	23	16	34	16	12	11	4	51	13	11	38	16	13	11
6	31	7	40	35	23	1	46	5	36	14	22	29	17	23	30	22	1	35
4	46	23	30	53	22	32	69	8	24	22	9	43	26	23	16	33	2	22
3	62	15	20	71	22	3	92	11	12	29	20	58	35	23	1	44	3	10
2	93	23	0	107	21	4	138	16	48	44	19	27	53	22	32	66	4	45
1	187	22	0	215	18	9	277	9	37	89	14	55	107	21	4	132	9	30

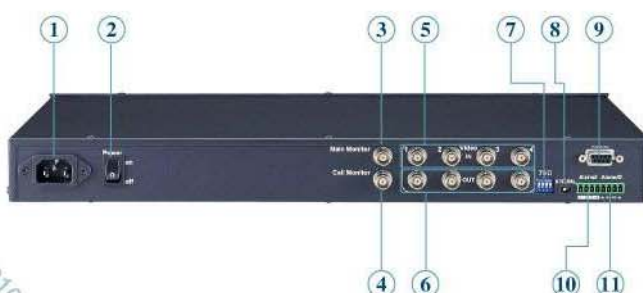
## ► Major Operating Controls

### Front Panel Keypads



- ① Camera 1 full screen display
- ② Camera 2 full screen display
- ③ Camera 3 full screen display
- ④ Camera 4 full screen display
- ⑤ Quad display
- ⑥ Full screen sequence display
- ⑦ Setup menu
- ⑧ Arrow buttons
- ⑨ Enter button
- ⑩ Rec. button
- ⑪ Time search and fast forward playback
- ⑫ Time search and step forward playback
- ⑬ Time search and step reverse playback
- ⑭ Time search and fast reverse playback
- ⑮ Stop playback
- ⑯ Pause
- ⑰ Time search and playback
- ⑱ USB port for PC link

### Back Panel keypads



- ① Power socket
- ② Power switch
- ③ Main monitor connector
- ④ Call monitor connector
- ⑤ Video Input connectors 1-4
- ⑥ Video Output connectors 1-4
- ⑦ 75ohm termination 1-4
- ⑧ NTSC/PAL switcher
- ⑨ RS 232 connector
- ⑩ Alarm Inputs: Connect to alarm inputs 1-4 and 1 common ground.
- ⑪ Alarm Outputs: Connect to 1 Normally Closed alarm output, 1 Normally Open alarm output and 1 common ground

## ► Specifications

<b>Model No:</b>	<b>EQR400</b> ( Four Channel Simplex Digital Video Recorder )
	
<b>Video Format</b>	NTSC/EIA or PAL/CCIR, DIP switch selectable
<b>Video Input</b>	4 camera inputs, 1Vp-p/75ohm
<b>Video Loop-through</b>	4 camera loop-through outputs, 1Vp-p/75ohm
<b>Video Output</b>	Main Monitor: 1 BNC composite video output, 1Vp-p/75ohm Call Monitor: 1 BNC composite video output, 1Vp-p/75ohm
<b>Video Compression</b>	Modified Motion JPEG with 3 levels recording quality
<b>Video Resolution</b>	Up to 640x224 (NTSC) or 640x272 (PAL)
<b>Video Display</b>	Quad or full screen display
<b>Display Resolution</b>	720x480 for NTSC, 720x576 for PAL
<b>Sequential Switch</b>	Yes, with adjustable dwell time (2-90 seconds)
<b>Live Display Rate</b>	Total 120 fps (NTSC) or 100 fps (PAL)
<b>Recording Rate</b>	Multiplex: Up to 7.5 fps (NTSC) or 6.25 fps (PAL) per camera Quad: Up to 30 fps (NTSC) or 25 fps (PAL)
<b>Playback Rate</b>	Multiplex: Total 30 fps for NTSC, 25 fps for PAL Quad: Total 120 fps (NTSC) or 100 fps (PAL)
<b>Hard Disk Storage</b>	IDE HDD storage, expendable up to 2 HDDs. "Auto Overwrite" or "Stop" for selectable while HDDs are full
<b>Alarm Input</b>	4 inputs, Contact or TTL/CMOS signal, polarity selectable
<b>Alarm Output</b>	1 Normally Open, 1 Normally Closed relay outputs
<b>RS-232</b>	DB-9 male connectors for remote keypad control
<b>USB</b>	USB2.0 connectors for PC Link
<b>Buzzer</b>	Yes
<b>Video Loss Detection</b>	Yes
<b>User Interface</b>	On screen display setup
<b>User Input Device</b>	Keypad
<b>Playback Function</b>	Play / Pause / Stop / Fast Forward / Step Forward / Fast Reverse / Step Reverse
<b>Security</b>	Password protection
<b>Timer</b>	Built-in real time clock
<b>Power Source</b>	110V/220V AC, selectable
<b>Power Consumption</b>	30W (Two HDD typical)
<b>Dimension</b>	438(Width)x262(Depth)x44(Height)mm
<b>Weight</b>	4.4kg(HDD not included)
<b>Operating Temperature</b>	0°C ~ +40°C

- Design and specifications are subject to change without prior notice
- Based on United States Federal Regulation: It's required to post warning sign if an audio device is used in conjunction with this machine.

## ► Ordering Information

**EQR400-N:** Four Channel Digital Video Recorder, NTSC,  
AC100/240V

**EQR400-P:** Four Channel Digital Video Recorder, PAL,  
AC100/240V

Distributed by

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MKE-EQR400A4

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