



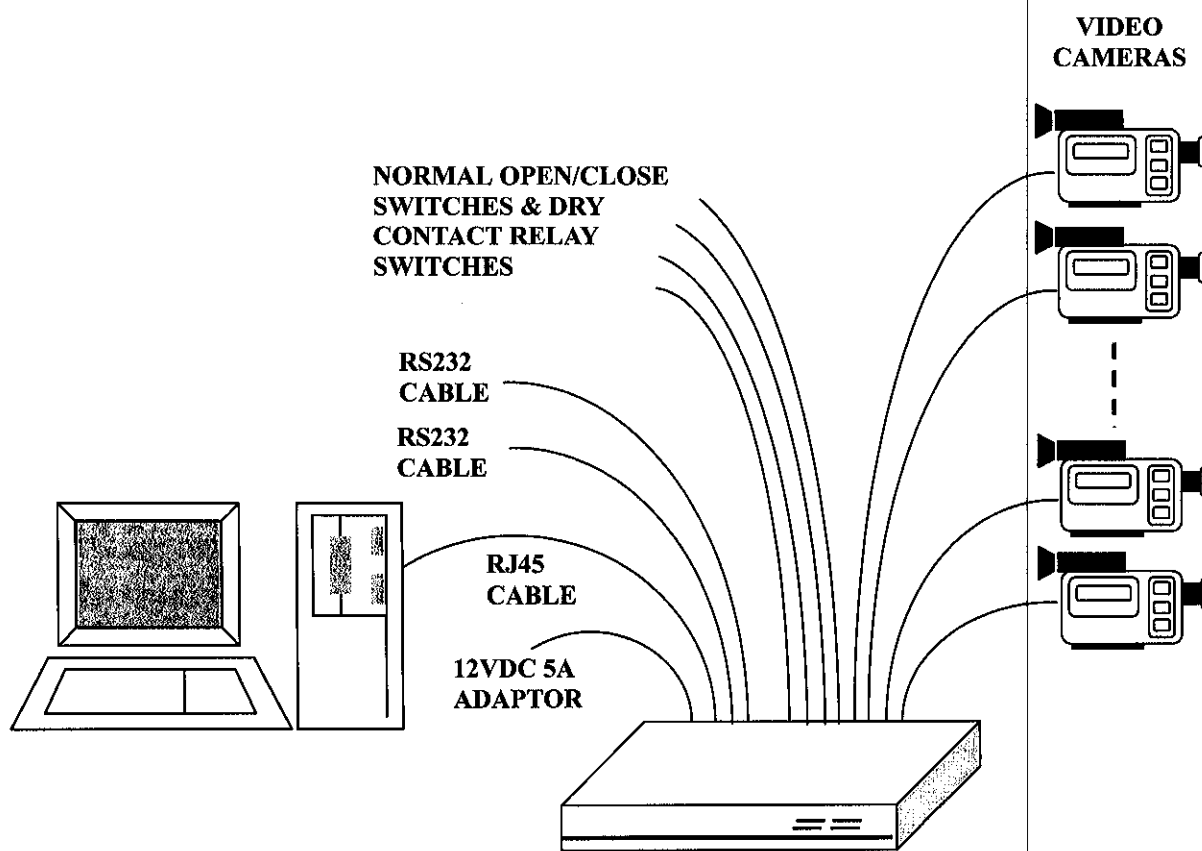
訊研科技有限公司  
**Signal Communications Ltd.**

TeleEye Group (SEHK: 8051)

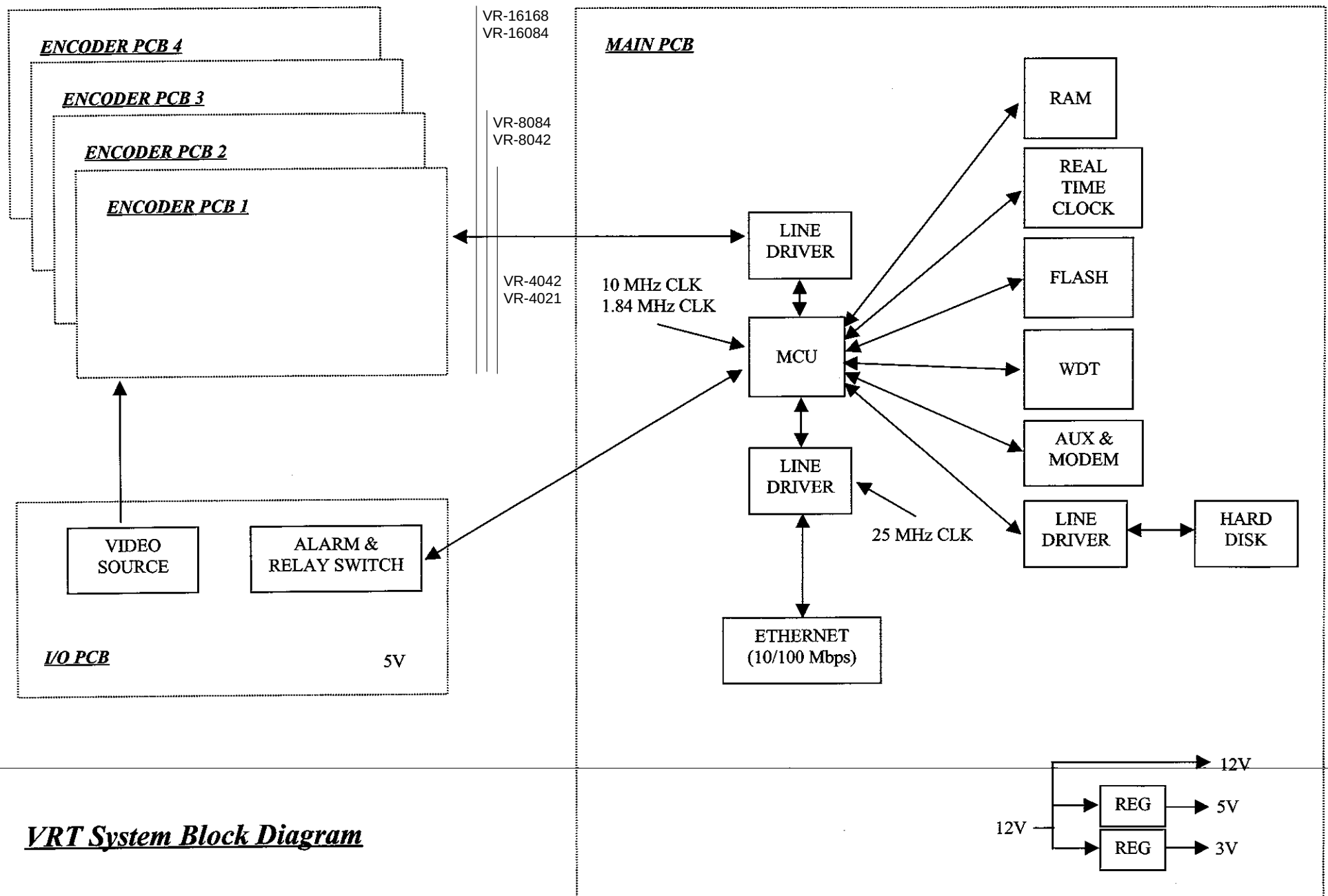
Units 216-217, Tech Centre  
72 Tat Chee Ave, Kowloon, Hong Kong  
Tel: (852) 23192151 Fax: (852) 23192550  
Email: info@TeleEye.com

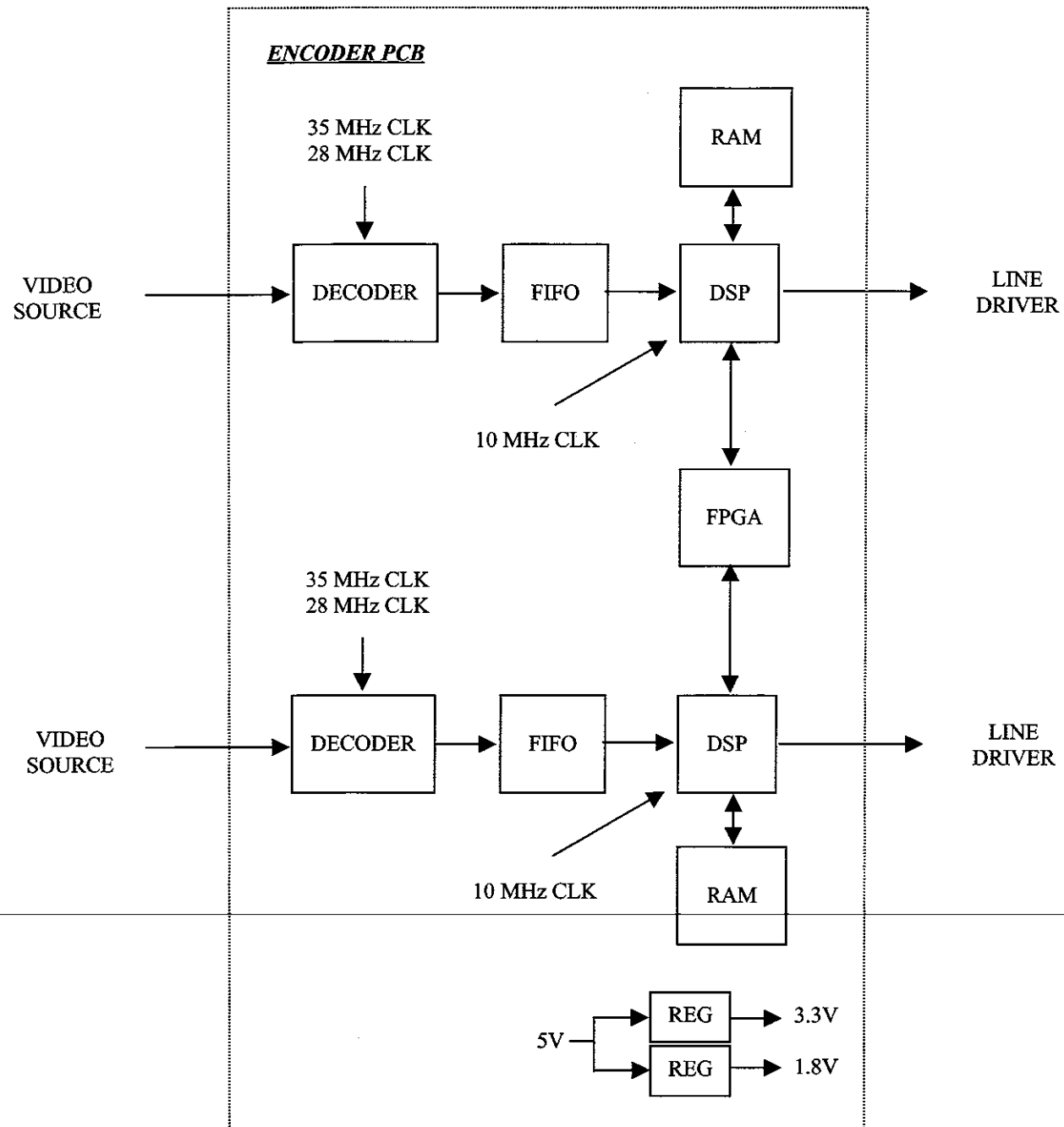
### **TeleEye III Plus Video Recording Transmitter**

**TeleEye III Plus Video Recording Transmitter** is a transmission unit that can accept up to 16 video inputs: Channel 1 to Channel 16 are all Line In video sources. The transmission unit compresses the video signal and transmits it to PC through a RJ45 network cable. The PC acts as a receiver that decompresses the signal data to reproduce the video image. Also, the transmission unit has installed with hard disks for video recording. Besides, the transmission unit has 16 normal open/close switches for alarm triggering purpose and 4 dry contact relay switches for control purpose. The two dedicated RS232 ports are used for future development.



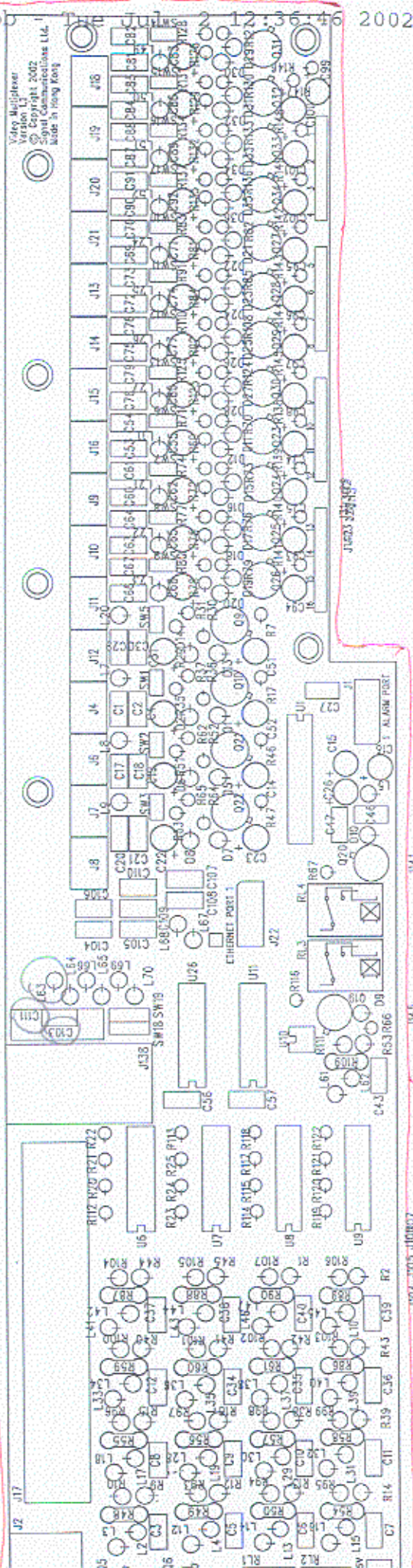
**TeleEye III Plus Video Recording Transmitter**





## Functional block diagram description

|                  |                                                                                                                                           |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| DECODER:         | It converts the video signal from analog to digital form.                                                                                 |
| FIFO:            | It stores the digital data temporarily in the FIFO format.                                                                                |
| DSP:             | It encodes and compresses the digital data.                                                                                               |
| FPGA:            | It performs the logic control.                                                                                                            |
| RAM:             | It stores the data temporarily.                                                                                                           |
| FLASH:           | It stores the application program that will be loaded to MCU during start-up.                                                             |
| MCU:             | It is used as the main system controller. Its duty includes alarm sensing, control handling, video image delivering through the Ethernet. |
| LINE DRIVE:      | It drives up the voltage signals for transmission.                                                                                        |
| AUX & MODEM:     | It is used for system setup or expansion.                                                                                                 |
| ALARM:           | Where the alarm signal comes from.                                                                                                        |
| RELAY SWITCH:    | It supports control for other device.                                                                                                     |
| ETHERNET:        | Where the video data is sent.                                                                                                             |
| REAL TIME CLOCK: | It supports time keeping for the system.                                                                                                  |
| HARD DISK:       | It stores the digital video data.                                                                                                         |
| WDT:             | It is watch dog timer.                                                                                                                    |
| REG:             | It is regulator.                                                                                                                          |
| POWER SUPPLY:    | 12V, 5V, 3.3 V and 1.8V are used.                                                                                                         |



IO PCB  
Silk Screen

for  
VR-16168 and VR-16084.

- All Components are installed.

Solder all





for

VR-8084 and VR-8042

- Highlighted part is component installed



I/O PCBs  
 Silk Screen  
 for  
 VR-4042 and VR-4021

- Highlighted part is component installed

