Real Time Quad Processor
TXQP4

OWNER'S MANUAL

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OPERATING INSTRUCTIONS
DESCRIPTION OF FUNCTIONS AND FEATURES
INSTALLATION GUIDE

1.Preface

Thank your for choosing for our digital color quad processor!

Please read this instruction manual carefully before use.

1.Cautions ! ! !

The following circumstances should be avoided before installation:

1. Extremely high or low temperature
2. Rain, snow or moisture
3. Contact with oil or gas
4. Continuous vibration or collision
5. Exposure to strong light or outdoor placement
6. Strong magnetic field or high voltage

C autions in operation:

1. Do not remove it or insert unrelated external object into it.
2. DC 12V is applied for the system.
3. Avoid collision or rough handling.

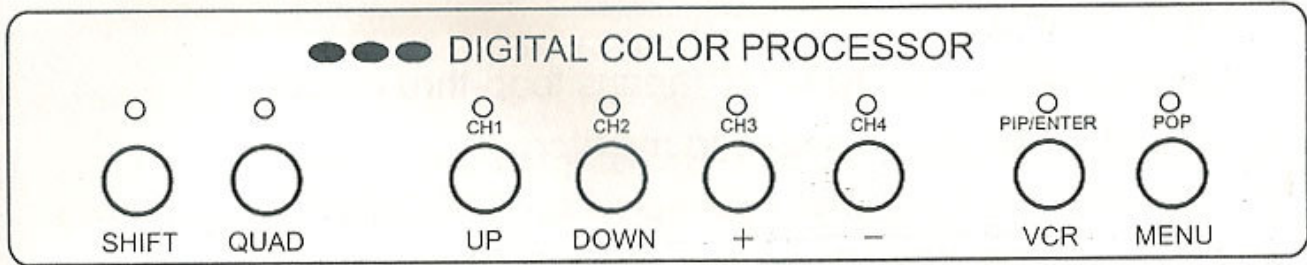Note: All parameters are subject to change without further notice!

2.Feature

This set is high-definition double-system color quad processor!

1. Double system(PAL/NTSC)
2. Picture freeze
3. 2x zoom
4. Quad and single picture switch
5. External alarm output
6. External video replay, completely real-time PAL 50Fields/sec; NTSC 60Fields/sec, synchronous live monitoring and video recording
7. PIP, POP functions 1. Up to 30 event records
8. Intelligent pull-down menu
9. The chroma, brightness and hue of every channel is adjustable respectively.

3. Components

3.1 Function descriptions of control panel

```
●●● DIGITAL COLOR PROCESSOR

  ○        ○        ○CH1     ○CH2     ○CH3     ○CH4    ○PIP/ENTER  ○POP

  ○        ○        ○        ○        ○        ○        ○          ○

SHIFT    QUAD      UP      DOWN      +        —        VCR        MENU
```

SHIFT: Together with QUAD key, it can offect automatic switch function

QUAD: Live mode, quad, switch the state of picture freeze

UP: Live mode: selection key of camera channel, CAM1 picture, single picture zoom

Main menu mode: move upward during the operation of menu.

DOWN: Live mode: selection key of camera channel, CAM2 picture, single picture zoom

Main menu mode: move downward during the operation of menu.

+: Live mode: selection key of camera channel, CAM3 picture, single picture zoom

Main menu mode: serve the role of "+" during the operation of menu.

--: Live mode: selection key of camera channel, CAM4 picture, single picture zoom
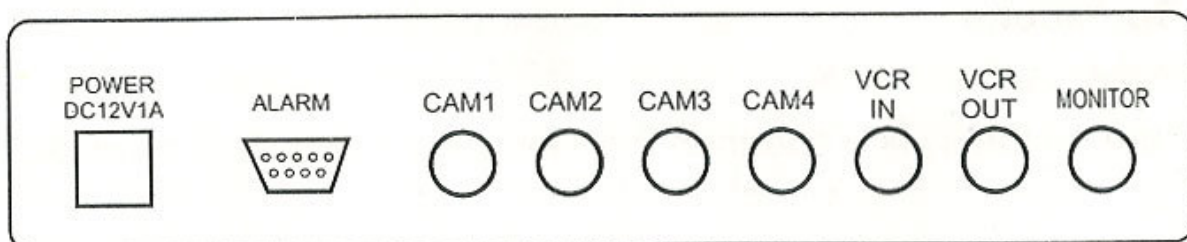
Main menu mode: serve the role of "-" during the operation of menu

VCR: serve the role of confirmation

SHIFT+VCR: Video playback function

MENU: enter or exit from the menu

3.2 Rear panel wire connection

```
POWER                                              VCR    VCR
DC12V1A   ALARM   CAM1  CAM2  CAM3  CAM4   IN     OUT    MONITOR

  □       ⬡      ○     ○     ○     ○     ○      ○      ○
```

A. The switch of power supply

B. Connect the signals of camera to the rear panel, (CH1~CH4) VIDEO INPUT

CH1~CH4 VIDEO OUTPUT means loop-thru output

C. Output signal is connected to monitor.

D. VCR OUTPUT signal is connected to VIDEO INPUT of camera.

E. Connect VCR INPUT signal to VIDEO OUTPUT of camera.

F. External connection to DC+12V.1A

G. Wire connection of DB9 head (high or low level are applicable)
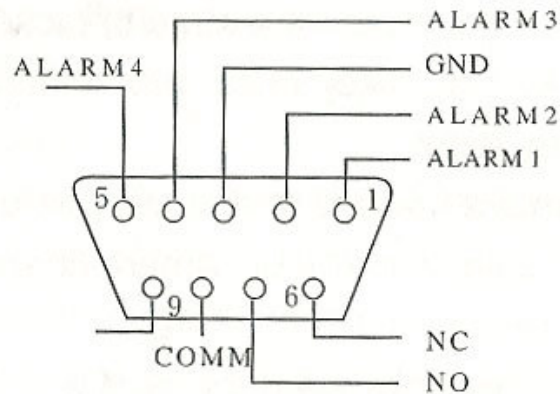
Pin	Value	Pin	Value
1	ALARM1	6	NC
2	ALARM2	7	NO
3	GND	8	COMN
4	ALARM3	9	
5	ALARM4		

NO: Normally open   NC: Normally close   COMM: Common pin

4.Operations

1.Power on

Turn on the switch and then the monitor will display a quad picture.

10:30:52 CAM1	06:05:02 CAN2
CAM3	CAN4

Picture 1

If your monitor and camera are NTSC system, please turn off the power supply. Continue pressing MENU key and turn on the power supply, then the system will enter into NTSC system. For PAL. Please turn off the power supply, continue pressing ENTER key and turn on the power supply, the system will enter into PAL system.

Then press CH1~CH4 to enter into single picture selection and the corresponding LED will light.

2.Quad and automatic switch

Press QUAD key, the whole set will enter into quad state as shown in picture 1.

Press SHIFT+QUAD key to enter into the state of automatic switch and the sequence will be as follows:

Channel 1 picture   Channel 2 picture   Channel 3 picture Channel 4 picture

10:30:52 06:05:02 CAM1	⇨	10:30:52 06:05:02 CAM2	⇨	10:30:52 06:05:02 CAM3	⇨	10:30:52 06:05:02 CAM4
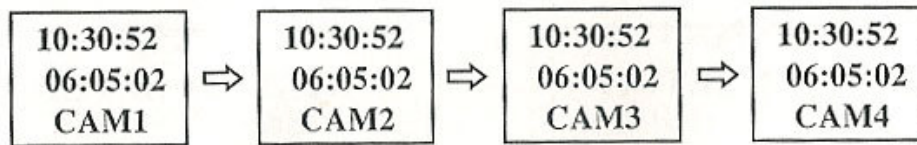
Picture 2

3.Zoom and picture freeze

In live single picture state, press corresponding channel key to freeze the picture

Turn on the camera and press SHIFT+VCR key, then LED will light and the whole set will enter into playback state.

Press QUAD key to freeze the picture, and press CH1~CH4 key to play back the zoomed picture of the corresponding channel

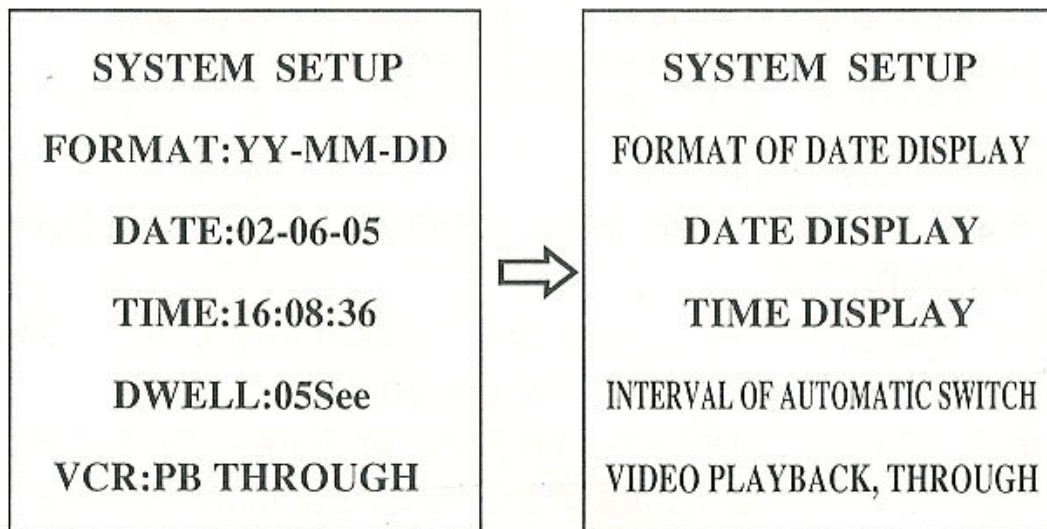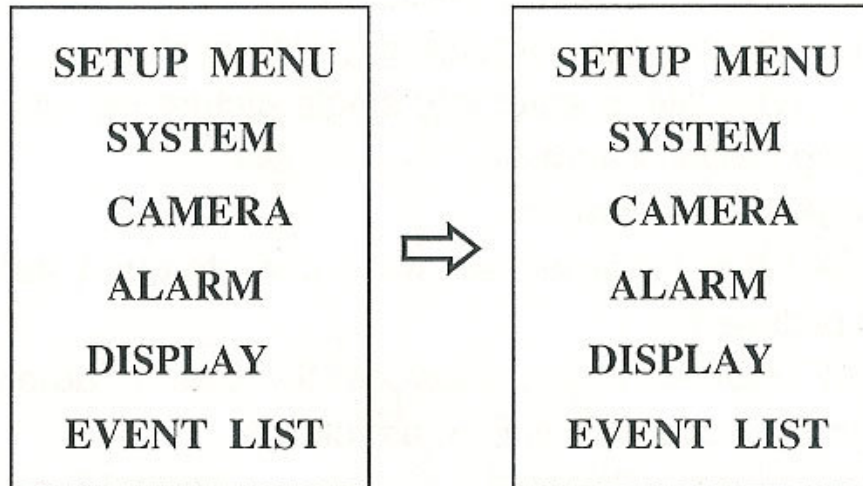4.Enter into the adjustment of PIP and POP

In the live state, press VCR key for PIP to adjust the main picture according to the corresponding channel. Press SHIFT key, the screen will display "SHIFT", the press CH1~CH4 key to shift the sub-picture, press MENU key to enter into POP.

5.Playback

Press SHIFT key to display the words "SHIFT", press VCR KEY to enter into the playback state.

6.Adjustment of main menu

Press SHIFT key to display the words "SHIFT", press MENU key to display the main menu as shown in the following left picture (menu in English).

```
┌─────────────────────┐        ┌─────────────────────┐
│    SETUP  MENU      │        │    SETUP  MENU      │
│                     │        │                     │
│      SYSTEM         │        │      SYSTEM         │
│                     │   =>   │                     │
│      CAMERA         │        │      CAMERA         │
│                     │        │                     │
│      ALARM          │        │      ALARM          │
│                     │        │                     │
│      DISPLAY        │        │      DISPLAY        │
│                     │        │                     │
│    EVENT  LIST      │        │    EVENT  LIST      │
└─────────────────────┘        └─────────────────────┘
```

```
┌─────────────────────┐        ┌──────────────────────────┐
│   SYSTEM  SETUP     │        │   SYSTEM  SETUP          │
│                     │        │                          │
│ FORMAT:YY-MM-DD     │        │ FORMAT OF DATE DISPLAY   │
│                     │        │                          │
│   DATE:02-06-05     │        │   DATE DISPLAY           │
│                     │   =>   │                          │
│  TIME:16:08:36      │        │   TIME DISPLAY           │
│                     │        │                          │
│  DWELL:05See        │        │ INTERVAL OF AUTOMATIC SWITCH │
│                     │        │                          │
│ VCR:PB THROUGH      │        │ VIDEO PLAYBACK, THROUGH  │
└─────────────────────┘        └──────────────────────────┘
```

(1) : Format of date display, YY-MM-DD

DD-MM-YY

Three types of formats is available by press "UP" or "DOWN"

(2) DATE: 02 - 06 - 05

      ↓   ↓   ↓

      MM-DD-YY

Move the cursor by pressing "UP" or "DOWN" to change the format, and regulate the value by "+" or "-"
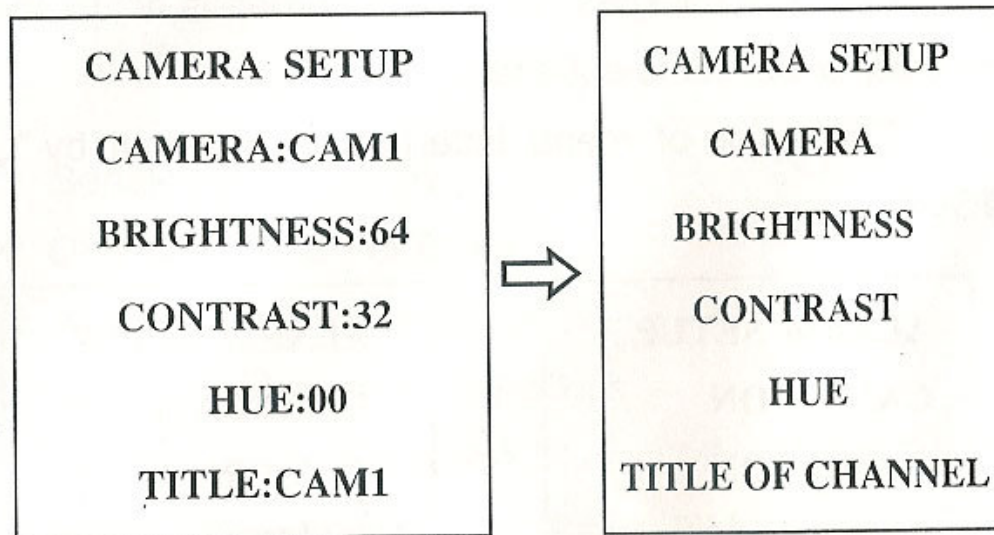
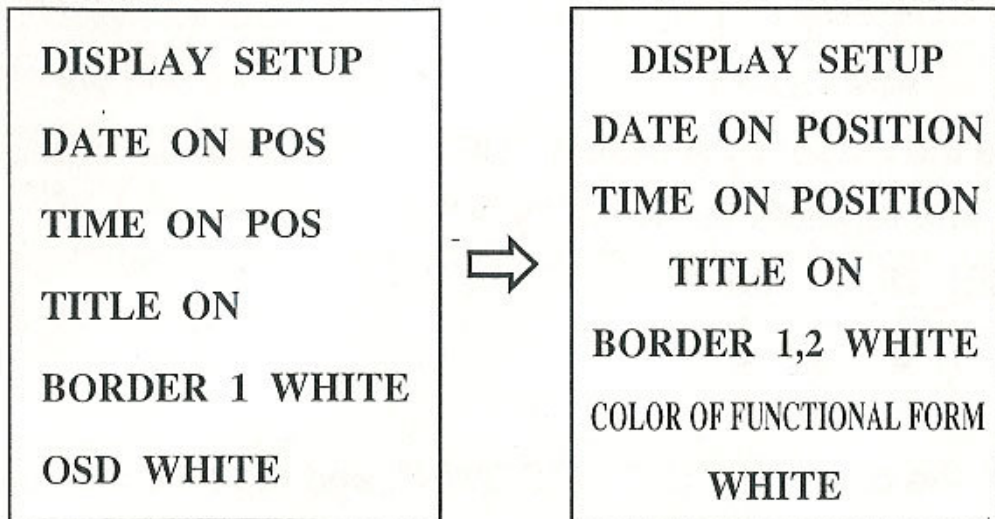(3) TIME: 16 : 08 :36

      ↓   ↓   ↓

      H   M   S

Move the cursor by "UP" or "DOWN", and regulate the value by "+" or "-"

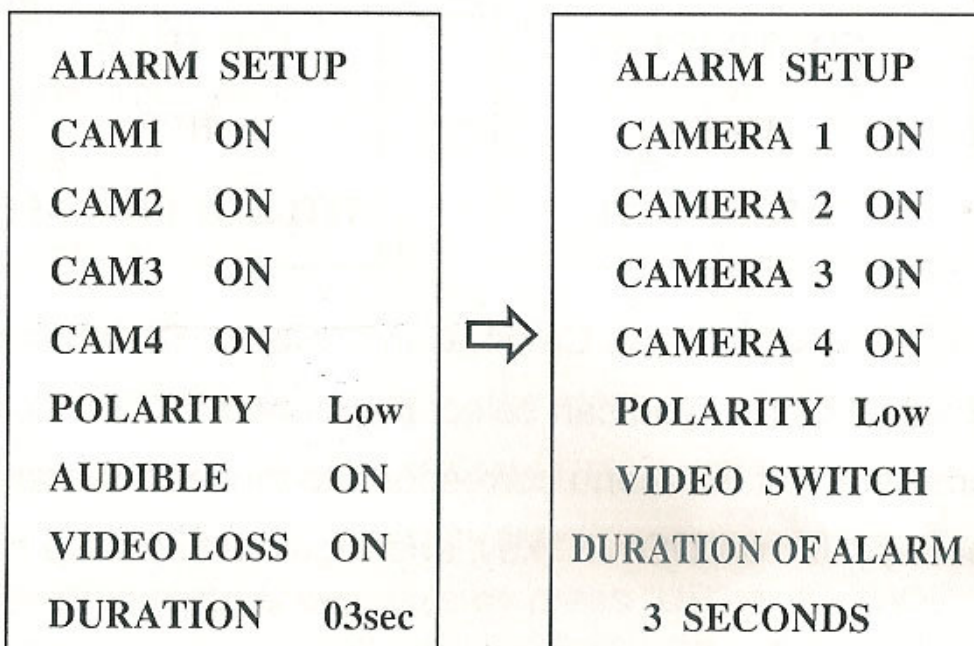(4) DWELL: The interval of automatic switch, make a adjustment in the scope varying from 1Sec to 9 Sec.

(5) Playback can control the switch of adjustment.

CAMERA SETUP	CAMERA SETUP
CAMERA:CAM1	CAMERA
BRIGHTNESS:64	BRIGHTNESS
CONTRAST:32	CONTRAST
HUE:00	HUE
TITLE:CAM1	TITLE OF CHANNEL

CAMERA: The camera has Cam1, Cam2, Cam3, Cam4 for you to select. If select Cam1, you can select the camera of channel 1, and other parameters of the menu correspond to those of channel 1, You can select by "UP" or "DOWN" key, and regulate the value by "+" or "-"

DISPLAY SETUP	DISPLAY SETUP
DATE ON POS	DATE ON POSITION
TIME ON POS	TIME ON POSITION
TITLE ON	TITLE ON
BORDER 1 WHITE	BORDER 1,2 WHITE
OSD WHITE	COLOR OF FUNCTIONAL FORM WHITE

(1) The switch of date display: you can make an adjustment by moving the cursor with "UP" or "DOWN". POS: the position of date display is adjustable, and you can move its position by "+" or "-"

(2) BORDER: The thickness of QUAD border is adjustable, and the color of border is optional.

(3) OSD: The color of menu letterform is optional by "UP" or "DOWN".

ALARM SETUP	ALARM SETUP
CAM1 ON	CAMERA 1 ON
CAM2 ON	CAMERA 2 ON
CAM3 ON	CAMERA 3 ON
CAM4 ON	CAMERA 4 ON
POLARITY Low	POLARITY Low
AUDIBLE ON	VIDEO SWITCH
VIDEO LOSS ON	DURATION OF ALARM
DURATION 03sec	3 SECONDS

(1) CAM1~CAM4 are the switch of exterior alarm state

(2) POLARITY is the polarity of exterior signal, and its initial value is very low.

(3) AUDIBLE means "on" or "off" of audio alarm.

(4) VIDEO LOSS means "on" or "off" of the alarm of video loss.

(5) DURATION means the length of alarm and the default value is 30Sec.

Select EVENT LIST to enter into the following state:

NO.	CH	A/L	YY_MM_DD			HH:MM:SS		
01	·	·	·	·	·	·	·	·
02	·	·	·	·	·	·	·	·
03	·	·	·	·	·	·	·	·
·	·	·	·	·	·	·	·	·
·	·	·	·	·	·	·	·	·
10	·	·	·	·	·	·	·	·

NO: Serial Number 01-30

CH: CH1-CH4 record of channel

A/L: A: record of alarm attachable

L: record of alarm of video loss

YY_MM_DD: date of alarm record YY(year) MM(month) DD(day)

HH:MM:SS: time of alarm record HH(hour) MM(minute) SS(second)

30 event records, 10 events display per page, page turning by "+" or "-"

5.Attachents

1. Technical parameters

- Thanks for purchasing Telxtron products -