

**GRANDTEC Electronic Corp.**

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## GRAND MAGIC GUARD III

( Color QUAD processor )



Grand Magic Guard III is designed for security monitor sub-system w / remote control. Input signal can up to 4 different video source. The 1<sup>st</sup> VIDEO output to TV and VGA out to monitor . The 2<sup>nd</sup> Video output can be recorded by VCR. Real time displays each video in 1/4 display area at the same time. Supports powerful PIP ( Picture in Picture ), OSD, **Auto Save**, **Sensitivity**, **Zoom**, **EVENT LIST**, Freeze, Date, Time , Auto Sequential, Decoder Setup, Channel Re-Name, Key Lock function.

**Features:**

1. Pure Hardware design, just Plug & Display, No software driver required, compatible with all OS.
2. Switchable NTSC/ PAL video system.
3. Support 2 Composite VIDEO out to TV or recording by VCR ; VGA out to Monitor ( 15.75KHz to 31.5KHz for NTSC , 15.625KHz to 31.25KHz for PAL ).
4. Support 4 independent composite video input connectors.
5. Can be applied to TV / VGA monitor security individually or security system.
6. Video 1~4 buttons are used to display single channel video and set main-channel for PIP mode.
7. Real time display each video on 1/4 display area at the same time.
8. Provides video loss detection and motion detection.
9. Provides horizontal image mirroring.
10. Apply with remote controller support: PIP, QUAD, MENU/ ENTER, ZOOM, Channel select, and setup function more user-friendly.
11. Supports GPIO port function : 4 input and 1 output.
12. Date, Time & Channel Name show status of each Quad display.

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13. Date, Time can be selected to be displayed ON or OFF the screen



14. Date, Time display format can be selected ( Year-Month-Day or Month-Day-Year )



15. Support **PIP ( Picture In Picture )** function : PIP window is movable and changeable.



\*PIP-window changeable: the video source ( VIDEO1~VIDEO4 ) can be changed



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\*Main window changeable: the video source ( VIDEO1~VIDEO4 ) can be changed



- 16. Support **Decoder Setup** function : BRIGHTNESS, CONTRAST, SATURATION, HUE can be adjusted for individual camera



- 17. Support **Sensitivity** function :

- Video lose detection



- Motion Detection to be full screen



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18. Support **EVENT LIST** function. : Max 20 events ( to view the events which have been triggered and recorded recently )



19. Support **ZOOM** function : ZOOM window is movable and enlargeable



20. Support **MIRROR** function.



21. Support Freeze function  
 22. Support Auto Sequential function.  
 23. Support AUTO SAVE function, it's can save ~

- TITLE
- DATE & TIME
- DECODER SETUP ( for individual camera )
  - Brightness
  - Contrast
  - Saturation
  - Hue

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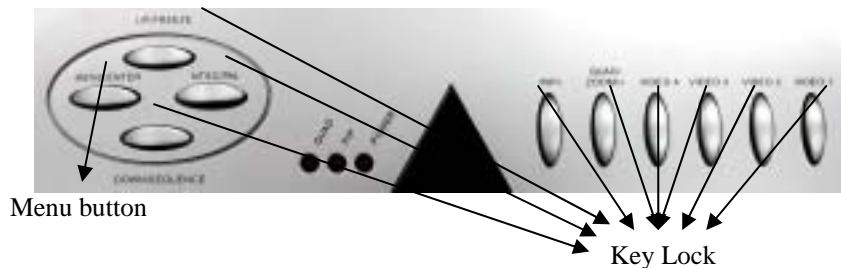
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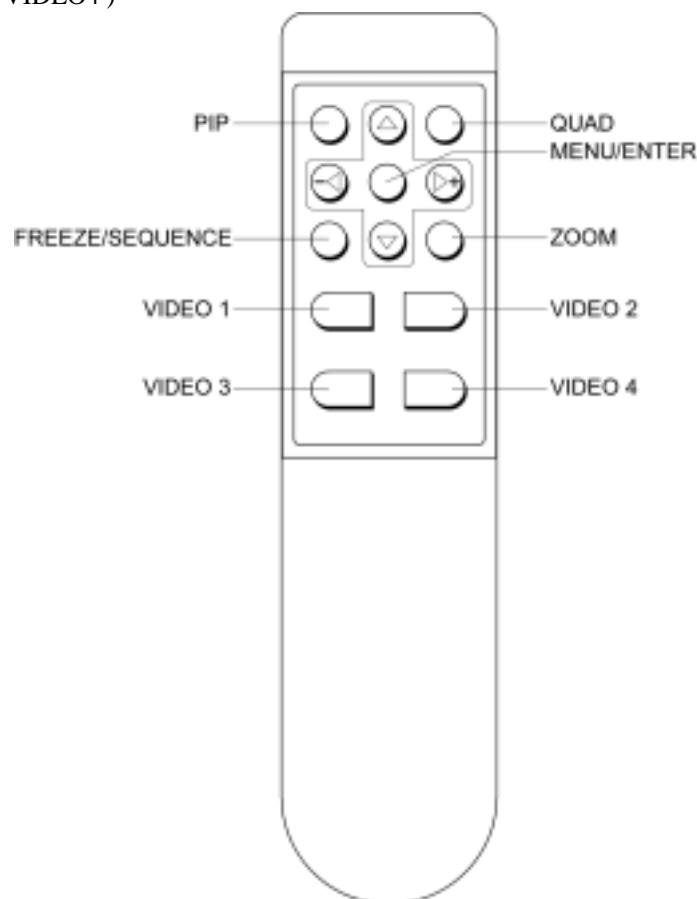
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- SENSITIVITY
- EVENT LIST
- AUTO SEQUENCE
- OTHER
  - Buzzer : Loss : OFF~99 sec ( video loss alarm )
    - Motion : OFF~99 sec ( motion detected alarm )
    - Alarm : OFF~99 sec ( GPIO port active alarm )
  - Mirror
  - Border : OFF / White / Black

22. Support KEY LOCK function: once key lock function on, all buttons are locked on the panel except “menu” button (prevent careless touching)



24. Remote Control support : QUAD, PIP, MENU/ENTER, FREEZE / SEQUENCE, ZOOM, Channel select ( VIDEO1 ~ VIDEO4 )



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**VGA Monitor Requirement**

1. For NTSC : HSYNC = 31.5KHz ; VSYNC = 60Hz
2. For PAL : HSYNC = 31.25KHz ; VSYNC = 50Hz

