## RENESAS

TW2880

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# DATA SHORT

w.intersil.com/products/tw2880

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Multi-Channel Surveillance Camera Controller with VGA/HDTV Display Capability

### Summary

### **Display Controller Features List**

Supports 1080p HDTV and VGA Display

- Horizontal size: 640 ~ 1920, Vertical size: 480 ~ 1080
- Max pixel clock: 174 MHz (if MCLK > 166 MHz)
- Vertical Refresh frequency: Flexible, can be programmed as 50, 56 or 60 Hz
- Flexible output interface, Analog VGA (HD15), Digital VGA (DVI) and HDMI (V1.2)
- Capable of displaying up to 33 Channels in one screen, live video or playback combined.
- 2 HD channels through playback interface and in BT.1120 format.
- Motion Box (MD) on all display channels.
- User selectable Weave/2D/3D de-interlacing method for video quality enhancement
- Up / down scaler for arbitrate windows size
- Three layers of OSG overlay with High-color (16 bit) bit map
- OSD display layer for title and channel ID
- Single Box Display for highlighting and Mouse / Cursor Overlay
- Video Input from Decoder Interface
- Support 27 MHz BT.656 input
- Support 54,108 MHz BT.656 byte-interleaved input
- Motion Box (MD) on all display channels.
- D1/Half D1/CIF selection
- System clock at 108MHz, Memory clock 166 180 MHz
- I<sup>2</sup>C and 108 MHz parallel MCU host interface

#### Recording Controller Features List

- High flexibility record output function
- Real time field interleaved, frame interleaved output
- Priority recording
- Multi-mode output controlled by user
- High flexibility Spot output function
- Four individual output
- Full/Half/CIF display with OSD
- Automatic switching
- Random sequence recording(Table recording) function
- Motion Detector & Channel ID Encoding / Decoding
- Embedded font-RAM for color OSD
- Split border and background color setting





HD 1080p Main Display \_ive/Playback Video + Map + Control Panel

Advanced 16 - Channel DVR System

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