



## Meinberg Radio Clocks

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## IMS-VSG: Video-Sync Generator

The VSG is a video signal reference for Studio Equipment with four BNC outputs. The Module generates 1x bi-level sync (Black Burst), 1x Tri-Level Sync, 1x Sync Signals (H-Sync, V-Sync, ..) and 1x DARS (Digital Audio Reference Signal). The LANTIME Web Interface can be used for output signal configuration and to query the state of the VSG.

### Functionality

The board is synchronized by an external 10MHz signal. It generates configurable video signals in different formats. The generated signals have a phase reference to 1PPS.

### Key Features

- Four BNC outputs with configurable video formats and Sync Signals Out 1: HD-Syncs (Tri-Level Sync) Out 2: SD-Syncs (Bi-Level-Sync) Out 3: Sync Signals (H-Sync, V-Sync, ...) Out 4: DARS (Digital Audio Reference Signal)
- Four LEDs: Signal status of module and outputs
- Supported Video Formats: PAL (SMPTE259M/ITU-R BT.470-6) NTSC (SMPTE170M/ITU-R BT.470-7) 720p/50Hz (SMPTE296M3) 1080i/25Hz (SMPTE274M6) 720p/59,94Hz (SMPTE296M1) 1080i/29,97Hz (SMPTE274M7) Supported Time Code Formats (SD formats only): VITC (SMPTE12M-1/SMPTE ST309M) with Time of Day and Timezone informations and selectable lines for insertion Digital Audio Reference Signal (DARS): Resolution: 24bits Sample Frequency: 48kHz Format: professional

## Characteristics

<b>Status info</b>	ST: Status of VSG180 In: Status of reference input A: Status HD Out 1 B: Status SD Out 2
<b>Electrical connectors</b>	96-pin VG-rail DIN 41612
<b>Current consumption</b>	5 V $\pm$ 5%, 250 mA
<b>BNC Connectors</b>	 * 2x BNC female, unbalanced, 300mVpp @ 75
<b>Ambient temperature</b>	0 ... 55°C
<b>Humidity</b>	Max. 85%
<b>Warranty</b>	Three-Year Warranty
<b>RoHS-Status of the product</b>	This product is fully RoHS compliant
<b>WEEE status of the product</b>	This product is handled as a B2B category product. In order to secure a WEEE compliant waste disposal it has to be returned to the manufacturer. Any transportation expenses for returning this product (at its end of life) have to be incurred by the end user, whereas Meinberg will bear the costs for the waste disposal itself.

### Manual

There is no online manual available for this product: [1][Contact us](#)

### Links:

[1] <mailto:info@meinberg.de>