

VTG 400, VTG 400D

Video Adjustments

Test pattern selection buttons

Depending on the currently selected video rate, press the Video Test Pattern ▲ and ▼ selection buttons to select from up to 28 different video test patterns. The LCD displays the newly selected test pattern's name for 3 seconds before returning to the previous menu. Refer to the test pattern chart in *Appendix A* of the user's manual for the table of available test patterns and their features.


Video output range button

Press the Video Range button to select from among eight output range categories.



Video output rate buttons

Press the ▲ and ▼ Video Rate buttons to select an output rate for the chosen output range. The output rates are displayed two-at-a-time on the LCD. After choosing the desired rate, press the Select button to activate the highlighted rate.

Test pattern invert/special function button

Press the  button to toggle the selected test pattern between normal and inverted (special) state (when available).

Video level adjustment buttons

Use the  and  buttons (next to pattern name) to adjust the test pattern's video level between 0% (0 IRE) and 100% (100 IRE), when available.

Audio Adjustments

Signal type selection button

The VTG 400/400D can selectively output seven different audio signal formats: pink noise, white noise, sine wave, square wave, frequency sweep, polarity test, and sine burst.

Audio level selection buttons

The RMS audio output level for each audio signal type is selected from a range of values using the ▲ or ▼ Level buttons.

Audio frequency selection buttons

The frequency for each audio signal type is selected from a range of values using the ▲ or ▼ Audio Frequency buttons. The following frequency adjustments are available for the signal types below:

- **Sine wave and sine burst:** 20 Hz - 20 kHz in 1/12 octave steps
- **Square wave:** 20 Hz - 5 kHz in 1/12 octave steps
- **Frequency sweep speed:** 1 - 120 seconds

Scope Trigger Adjustments

Scope trigger cursor buttons

Press the ▲ and ▼ selection buttons to move the trigger point between lines (y-axis) and press the ◀ and ▶ selection buttons to move the trigger point between pixels (x-axis) on the current line.

Scope trigger shape button



Press the Shape button to toggle the on-screen cursor's shape between crosshairs (useful for locating the cursor on the display screen) and single pixel (useful for locating the cursor on the oscilloscope screen).

Scope trigger hide button

Press the Hide button to toggle the cursor on (visible) and off (hidden).

Quick Select Preset Buttons

Up to four video and/or audio settings can be saved by pressing one of the four Quick Select buttons for about 2 seconds until the Quick Select setup menu appears.

1. Press the  and  on-screen buttons to select Audio settings, Video settings, or All settings (Audio and Video).
2. Press **SAVE** to save the setting(s) to the Quick Select button or press **CANCEL** to cancel the operation and not save the setting(s) to the Quick Select button.

Recalling a Preset

Press the desired Quick Select button to recall the stored settings.

Menu Adjustments

Press the Menu and Next buttons to navigate through the menus. Use the four arrow selection buttons adjacent to the LCD to make changes to the settings.

Audio Setup menu

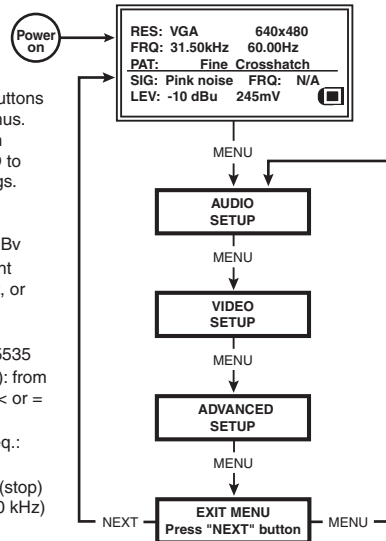
- Audio level units: dBu or dBv
- Output 2 enable: left & right channel output, left output, or right output
- Burst interval (cycles per interval): from 00001 to 65535
- Burst on (cycles per burst): from 00001 to 65535, must be < or = to burst interval
- Frequency sweep start freq.: 20.0 Hz to 19.0 kHz
- Frequency sweep ending (stop) frequency (21.2 Hz to 20.0 kHz)
- Frequency sweep format: logarithmic (default) or linear
- Frequency sweep direction: low- to-high (start freq. to stop freq.) (default) or high-to-low (stop to start)
- Audio mute: on or off (default)
- Square wave automatic attenuation: on (autoattenuate to -40 dBu) or off (default)

Video Setup menu

- RGB sync format: RGBHV (default), RGBS, RGSB, or RsGsBs

Button Lock Mode

Press and hold the Signal Type and Test Pattern ▲ buttons simultaneously for 2 seconds to enable/disable the top panel buttons.



- Raster border: 1-pixel white border on or off (default)
- On-screen display: on or off (default)
- Autosequence mode: on or off (default)
- Autosequence interval (display period per test pattern): 15 sec. (default), 30 sec., 60 sec.
- RGB color channel enable: enable (on) or disable (off) red, green, and/or blue channels (default = all channels on)

Advanced Setup menu

- Timeout interval (for screensaver): 5 (default), 10, 15, or 30 minutes, or never
- Screensaver mode: blank (black screen, default), or cycle (through test patterns in 4-second intervals)
- LCD display contrast: level 000 through 063
- System reset (to default settings): yes or no; if yes is selected, a confirmation menu appears. Custom rates are not affected or overwritten during reset.



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