

# Automatic Video Measurement Set

## VM100 \* VM101

This product is discontinued.  
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VM100.

[Features](#)

> [Specs](#)

Check [product support](#) status.

### Characteristics

**Front Panel** - LCD, 2 rows x 20 characters.  
Selection buttons with LED indicators. Navigation keys.

**Signal ID** - Displays name of vertical interval or full field test signals.

**Print** - Prints results on an external ASCII serial printer.

**Average** - Choices are off or on.

**Freeze Mode** - Stops all measurement activity.

**Inputs** - One composite video input loopthrough.  
One external sync loopthrough.

**Output** - Zero carrier reference trigger pulse.

### Measurements and Accuracy Specifications

**Differential Phase** -  $< 1.0^\circ$ .

**Differential Gain** -  $< 2\%$ .

**Chrominance to Luminance Gain** -  $< 2\%$ .

**Chrominance to Luminance Delay** -  $< 20$  ns.

**Luminance Non-linearity** -  $< 1\%$ .

**Frequency Response** -  $< 2\%$  50 kHz to 5 MHz.

**2T K-Factor** -  $< 2\%$ .

**Hum** -  $< 0.5\%$ .

**Group Delay** -  $< 20$  ns.

**Bar Amplitude** -  $< 1\%$ .

**Sync Amplitude** -  $< 1\%$



**Burst Amplitude - < 1%.**

**Signal to Noise -**

±1 dB -17 dB to -40 dB.

±2 dB -40 dB to -58 dB.

±3 dB -58 dB to -67 dB.

**Power Requirements**

**Mains Voltage Range - 90 to 250 V AC.**

**Mains Frequency - 50/60 Hz.**

**Power Requirements - < 30 W.**

**Environmental**

**Temperature -**

Operating: 0° to +50°C.

Nonoperating: -40° to +75°C.

**Altitude -**

Operating: To 15,000 ft. (4572 m).

Nonoperating: To 50,000 ft. (15240 m).

**Certifications**

**EMC -**

Certified to the EMC Directive 89/336/EEC.

**Safety -**

CSA1010.1, EN61010-1, IEC61010-1, ANSI S82.01.

**Physical Characteristics**

<b>Dimensions</b>	<b>cm</b>	<b>in.</b>
Height	4.34	1.71
Width	20.6	8.1
Depth	43.7	17.2
<b>Weight</b>	<b>kg</b>	<b>lbs.</b>
Net	1.43	3.875
Shipping	3.2	7.0625

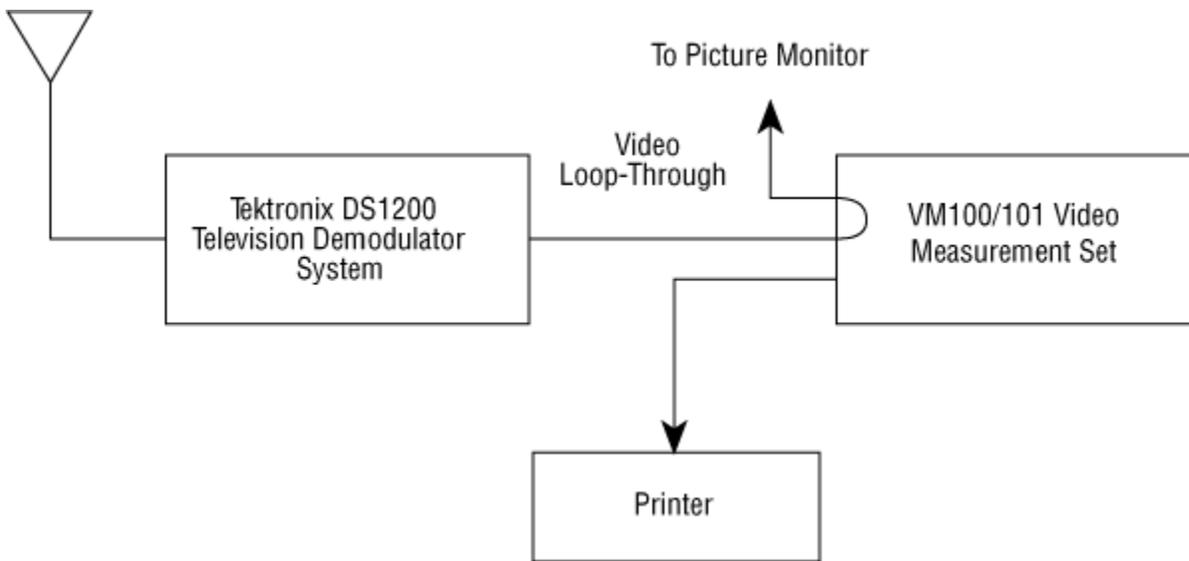
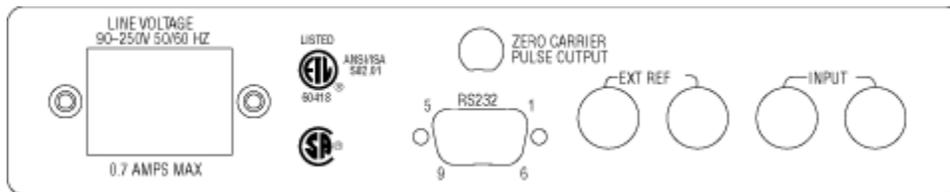


Figure 2. Typical test system configuration composed of a VM100 Video Measurement Set together with a printer for measurement hardcopy and the Tektronix DS1200 Television Demodulator System.



VM100 Rear Panel.