



# PRODUCT SPECIFICATION

**MODEL:** VM520 AND VM520-230

**PRODUCT CODE:** REFER TO TABLE 1

**DESCRIPTION:** 20-INCH MONOCHROME VIDEO MONITORS

- Convenient front panel controls
- Rugged steel cabinet with built-in carrying handles
- Crisp, high-resolution picture
- VCR compatible horizontal and vertical time constants



Vicon's VM520 Monochrome Video Monitor, with a resolution of 1000 TV lines (center), produces sharp video images on a 20-inch (51 cm) (measured diagonally) screen. The VM520 is available in two input power configurations, 120 V, 60 Hz, and 230 V, 50 Hz (Model VM520-230). The monitor automatically detects the television system (EIA or CCIR) and adjusts accordingly. This compact unit is housed in a rugged steel cabinet with convenient built-in carrying handles.

Rear panel loop-through connectors are included and termination is internal and automatic. Operating controls for brightness, contrast, and power are conveniently located on the front panel. A power indicator is also located on the front panel for easy viewing.

The VM520 meets the requirements for an FCC Class A computing device. The VM520-230 complies with European Community EMC directive 89/336. The product was subjected to the testing outlined in European Normalization Standard EN 50081-1 (Electromagnetic Compatibility-General Emissions Standard Part 1: Residential, Commercial and Light Industry), and EN 50082-1 (Electromagnetic Compatibility-Generic Immunity Standard Part 1: Residential, Commercial, and Light Industry).

NOTES	SPEC NO.	REV.	SEC.
SUPERSEDES PRODUCT SPECIFICATION 919-198	919	499	3



VM520 MONOCHROME MONITOR

TABLE 1  
MODELS, PRODUCT CODES AND DESCRIPTIONS

Model	Product Code	Description
VM520	5735-05	120 V, 60 Hz, EIA TV system
VM520-230	5735-08	230 V, 50 Hz, CCIR TV system

### COAXIAL CABLE SELECTION

Using the correct coaxial cable is critical for proper system operation. The cable must meet these requirements: (1) pure copper center conductor; (2) pure copper braid shield with a minimum of 95% coverage; (3) polyethylene dielectric. If the cable is connected to a camera on a pan-and-tilt, use a multi-strand center conductor. Other cable properties, such as outer jacket material, should be determined by the physical requirements of the installation.

## CONTRACTORS' SPECIFICATION

### 20-INCH MONOCHROME VIDEO MONITOR

The monitor shall be a monochrome video monitor with a 20-in. (51 cm) picture tube. It shall have a resolution of 1000 TV lines (center). It shall provide looping video output located on the rear panel and internal and automatic termination.

Front panel controls shall include power on/off, brightness, and contrast. Input power shall be 120 V, 60 Hz. A 230 V, 50 Hz version shall be available. Power consumption shall be 28 W typical.

Dimensions shall not exceed: height, 18.5 in. (47.0 cm); width, 19.35 in. (49.1 cm); depth, 15.0 in. (38.1 cm). The weight shall not exceed 43.6 lb (19.8 kg). The monitor shall comply with Dept. of Health & Human Resources Rule 21, CE standards and with FCC limits for a Class A computing device in accordance with the specifications in Part 15 of FCC rules. The monitor shall be Vicon Model VM520 or VM520-230.

Product specifications subject to change without notice.  
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## TECHNICAL INFORMATION

### VIDEO

**Screen Size:** 20 in. (51 cm), measured diagonally.

**Horizontal Resolution:** 1000 TV lines at center of picture tube, 700 TV lines in corner.

**Video Input Signal:** 1.0 V p-p composite video (sync negative).

**Video Input Impedance:** 1 V p-p/75 ohm composite video signal.

**Scanning System:** EIA: RS-170 525 lines, 60 fields/second, 2:1 interlace.  
CCIR: 625 lines, 50 fields/second, 2:1 interlace.

### ELECTRICAL

**Input Voltage:** Refer to Table 1.

**Power Consumption:** 28 W .

**Heat Equivalent:** 1.6 btu/min (0.4 cal/min).  
NOTE: These figures represent the conversion of 100% of the electrical energy to heat. Actual percentage of heat generated will be less and will vary from product to product. These figures are provided as an aid in determining the extent of cooling required for an installation.

**Safety Standard:** Dept. of Health & Human Services Rule 21.

**Radio Emission Standard:** FCC Class A.

**European Community (CE) Standards:** EN 50081-1 generic emissions.  
EN 50082-1 generic immunity.

### CONTROLS

**Front Panel Controls:** Power ON/OFF with LED indicator.  
Contrast adjustment.  
Brightness adjustment.

### CONNECTORS

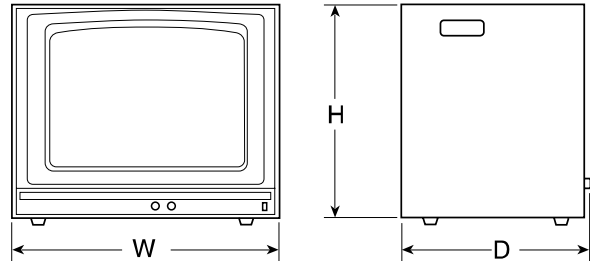
**Video Input:** BNC connector.

**Video Output:** BNC connector.

**Power Cable:** Detachable IEC 320 power connector. 3-conductor SVT VW-1 18 AWG cable with grounding plug.

### MECHANICAL

**Dimensions:** Height (H): 18.5 in. (47.0 cm).  
Width (W): 19.35 in. (49.1 cm).  
Depth (D): 15.0 in. (38.1 cm).



**Weight:** 45.0 lb (20.4 kg).

**Shipping Dimensions:** Height: 24.0 in. (61 cm).  
Width: 24.5 in. (62.2 cm).  
Depth: 20.0 in. (50.8 cm).

**Shipping Weight:** 55.3 lb (25.1 kg).

**Shipping Volume:** 6.8 ft<sup>3</sup> (0.2 m<sup>3</sup>).

### ENVIRONMENTAL

**Operating Temperature Range:** 14 to 104°F (-10 to 40°C).

**Humidity Range:** Less than 80% relative, noncondensing.

**Storage Temperature Range:** -20 to 140°F (-29 to 60°C).

**Storage Humidity:** 85% relative, noncondensing.