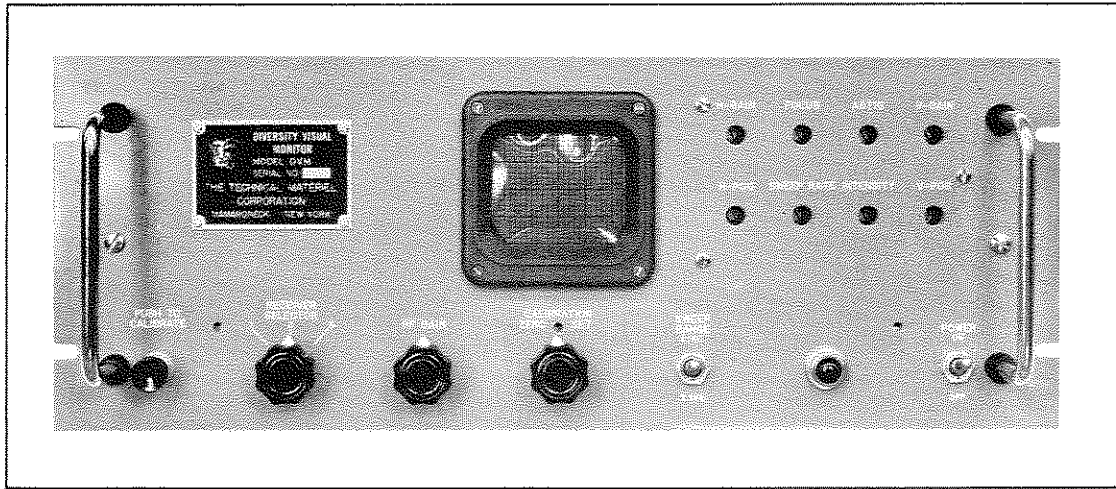


SALES SERVICE BULLETIN NUMBER 182 A

Visual Monitor, Model DVM-2
Model DVM-3



PH-1161

Front View, Model DVM

The Visual Monitor Unit, Model DVM, is designed to permit extremely accurate and simple visual receiver tuning. This accuracy is accomplished by a calibrated 3 inch oscilloscope screen which presents a positive picture of the signals in the IF sections of single or Diversity Receivers.

This special scope has practical operating versatility to furnish the operator with accurate visual information vital to operating efficiency.

- It will:
- A. IDENTIFY interfering signals as being other than FSK.
 - B. IDENTIFY the type signals being received. (Single or independent side-band, with or without carrier).
 - C. INDICATE the presence of modulation on a received signal.
 - D. INSPECT precisely a limited portion of the received spectrum.

Extensive controlled field tests have proven conclusively that the reliability of standard frequency shift radio teletype circuits can be improved substantially when receivers are precisely tuned. Despite the usual tuning indicators provided on frequency shift converters, the addition of the Model DVM to the system has provided this increased reliability.

A stable crystal is used as a standard reference and permits accurate calibration of the oscilloscope scale. The presence of an IF signal and its relation to the IF center frequency is presented on the screen and an incorrectly tuned signal can be quickly recognized. Sweep ranges of ± 1 Kc and ± 5 Kc may be selected by a front panel switch. Calibrated lines denote mark and space frequencies for standard 850 cycle FS signals. Front panel selector switches provide monitoring facilities for three receivers.

TECHNICAL SPECIFICATIONS:

INPUT: IF from three diversity receivers (minimum .1 volts)
DVM-2 - 500 Kc input
DVM-3 - 455 Kc input

Other frequencies available on request.

OUTPUT: Visual indication on an oscilloscope screen. Panoramic Monitor Operation. FS from .075 to 1 Kc shift.

POWER REQUIREMENTS: 105-115-125/210-230 volts;
50/60 cycles, single phase

POWER CONSUMPTION: 70 watts

FUSE PROTECTION: 1 amp

**TUBE AND CRYSTAL
COMPLEMENT:** 2 - OB2
1 - 3WP1

1 - 5Y3GT
2 - 6AG5

1 - 6BE6
1 - 6U8A
1 - 884
2 - 12AT7
1 - 12AU7
1 - IN-482A
2 - IN-39B

DIMENSIONS: 19" wide x 7" high x 14 1/2" deep

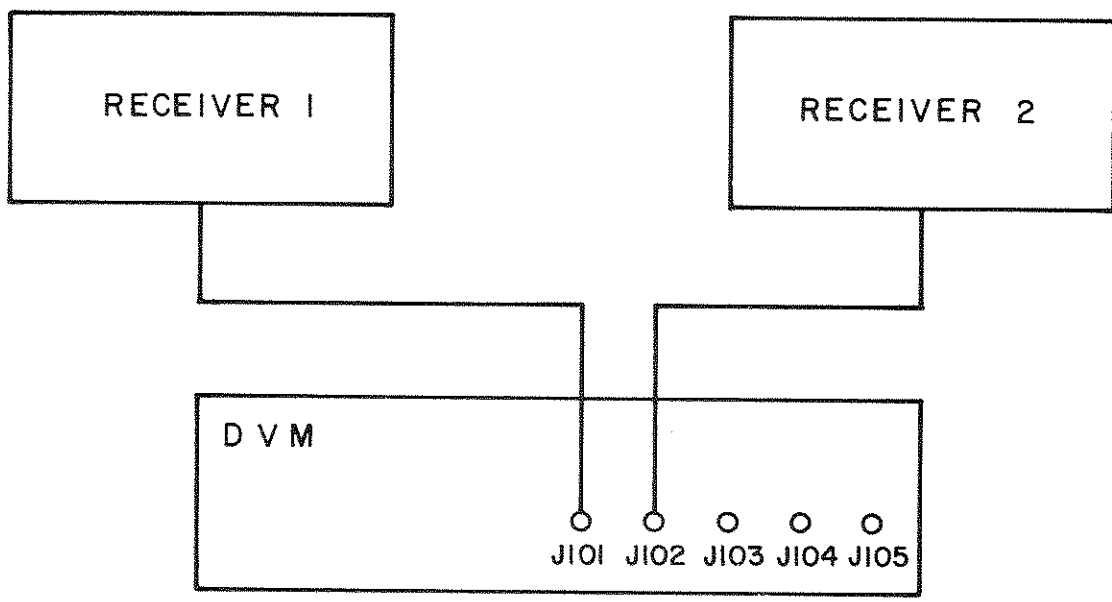
SIZE & WEIGHT: Net - 27 lbs.

Domestic - 50 lbs.
(carton pack) 21 1/2" x 14" x 24 1/2"

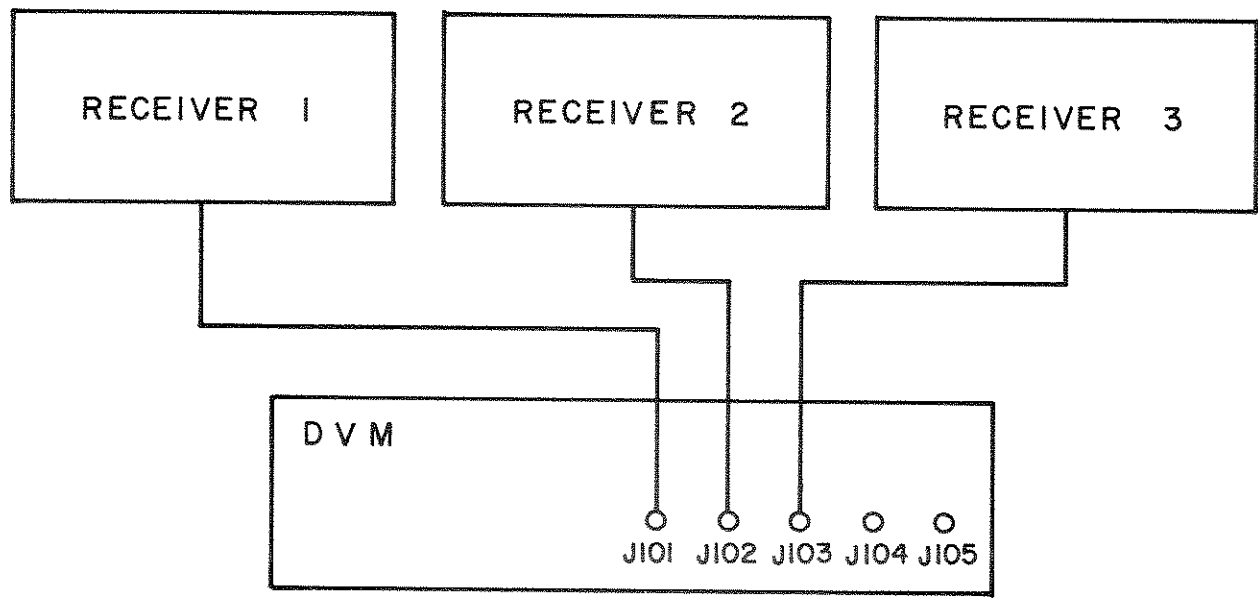
Foreign - 90 lbs.
(case pack) 25" x 16 1/4" x 27 1/4"

**COMPONENTS AND
CONSTRUCTION:** All equipment is manufactured in accordance with JAN/MIL Specifications wherever practicable.

DIVERSITY RECEIVERS



SINGLE RECEIVERS



SIMPLIFIED BLOCK DIAGRAM

THE TECHNICAL MATERIEL CORPORATION

700 FENIMORE ROAD

MAMARONECK, NEW YORK

CABLE
TEPEI
MAMARONECK, N.Y.



COMMUNICATION ENGINEERS

IN CANADA:
TMC (CANADA) LTD.
OTTAWA, ONTARIO