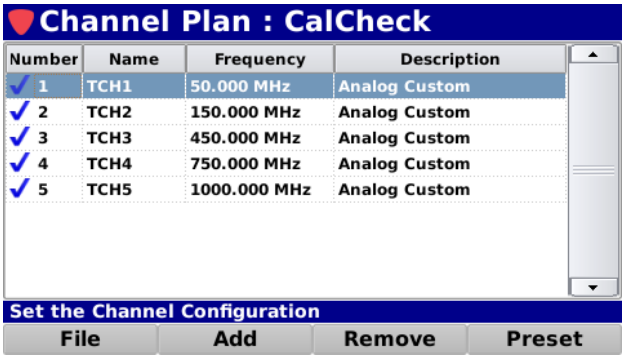
VIAVI Solutions

Data Sheet

VIAVI
MCV-1
Mobile Calibration Verification

The MCV-1 Mobile Calibration Verification station provides a known set of signals to verify the calibration of your signal level meters by generating a set of signals that are extremely stable over time and temperature.

To automatically perform a meter calibration verification with the VIAVI signal level meters such as the 360 DSP and 860 DSPi, you can simply execute an autotest that is included by default in the ViewPoint Integrated Server.



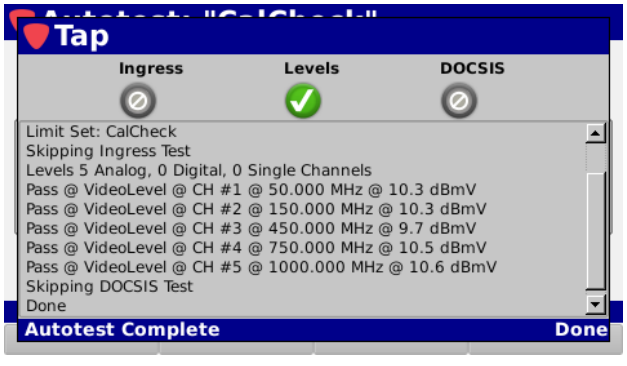
This autotest or macro will use a standard channel plan with six custom analog channels set to match each test signal frequency generated by the MCV-1.

When this autotest or macro has been executed, the measured test signals will be compared to a custom limit set that is set to match the combined accuracy error of the meter and included test lead.

Once the autotest has completed, the Pass/Fail result will be displayed by the meter to indicate whether the meter is within its factory specification.

Key Features

- Used as a signal source for calibration of field installation meters
- Six CW carriers from 5 to 1000 MHz
- Fixed output level of +10 dBmV per carrier
- RF ON/OFF control of all carriers at once via front panel
- Output terminated with 75 Ohm load when carriers are off
- Replaceable F-type connector



Specifications

Operational	
Carrier Type	Continuous Wave (CW)
Carrier Frequencies	5, 50, 150, 450, 750 & 1000 MHz
Output Type	Replaceable F-Type Barrel Connector (Female to Female)
Output Impedance	75 Ohm
Output Level	+10 dBmV per carrier ±0.25 dB (15 to 30 °C)
Spectral Purity	≥ 50 dBc
Return Loss	> 18 dB
Recommended Calibration Period	One (1) Year

Physical	
Output Type	Replaceable F-Type Barrel Connector (Female to Female)
Output Impedance	75 Ohm
Circuit Protection	ESD protected
AC Power Input	100 to 240 VAC, 50/60 Hz, 5 Watts Maximum
AC Line Cord Type	2-Prong Male Plug (NEMA 5-15P) to 2-Pin Female Shroud Plug (IEC 320 C8)
RF Test Lead Type	RG6 Coaxial Cable with Male to Male F-Type Screw-On Connectors
RF Test Lead Loss (typical values, actual loss is listed on supplied cable)	-0.01 dB @ 5 MHz -0.05 dB @ 50 MHz -0.08 dB @ 150 MHz -0.14 dB @ 450 MHz -0.19 dB @ 750 MHz -0.27 dB @ 1000 MHz
Size (H x W x D)	7.4 x 4.0 x 9.5 in (19.56 x 10.16 x 24.13 cm)
Weight	6.2 lbs (2.81 kg)

VIAVI Solutions

Contact Us **+1 844 GO VIAVI**
(+1 844 468 4284)

To reach the VIAVI office nearest you,
visit viavisolutions.com/contacts.

mvc1-ds-cab-nse-ae
30186433 900 0418