



Network Master

Optical Channel Analyzer

The **MU909020A Optical Channel Analyzer** is a fast and accurate solution to measure and monitor power and wavelength over the 18 channels of a CWDM network.

The OCA friendly software interface eases the CWDM network diagnosis by providing an instantaneous view of all the channels characteristics, as well as the measurement of the wavelength and power drifts over time, and a quick comparison to pass and fail indicators.

MU909020A Connections

Optical Connection

Open the cover of the measurement port on the top of the MU909020A (see figure 1) and connect a fiber with the appropriate connector (check on the unit labels).



Figure 1: measurement port

Cleaning the Optical Connector

Remove the universal connector adapter, and wipe the surface of the internal connector with a lint-free swab moistened with isopropyl alcohol. This operation must be made carefully in order not to damage the internal connector.

AC Power Connection

Open the cover over the DC input port, located on the top connector panel of the OCA and plug the jack from the AC charger/adaptor to the port.

Plug the AC charger/adaptor transformer into an AC outlet.

CAUTION

Use the OCA only with AC charger/adaptor provided by Anritsu. Anritsu does not guarantee the safety and functionality of other AC charger/adaptor.

The MU909020A can also operate on batteries.

Starting the OCA application

1. Press the **Menu/power key**  to display the top menu (see figure 2).

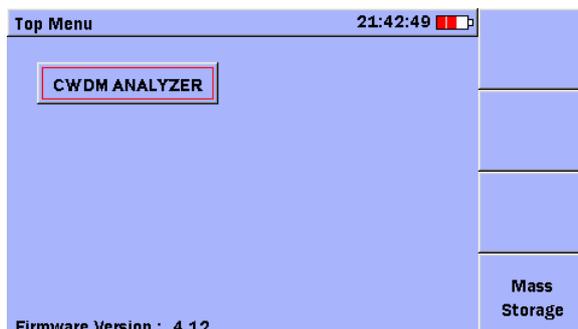


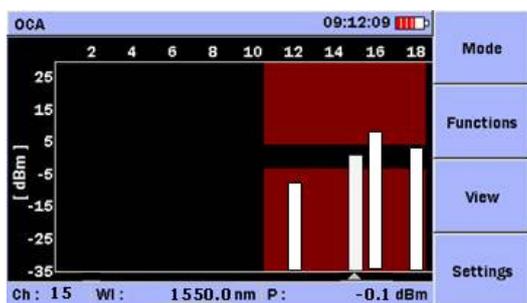
Figure 2: Top menu

2. Use the Left/Right/Up/Down Arrow keys to highlight the CWDM Analyzer application and then press the Set key.

Testing a CWDM network

The 8 following screens allow to check the network parameters as recommended in the ITU-T G.695 standard.

To display these screens, press the F1 key and select the mode with the arrow keys.



Normal Graph Mode:

- overview of detected channels
- λ and P of each channel (by moving the cursor)

Ch	Wl (nm)	P (dBm)	Ch	Wl (nm)	P (dBm)
1			10		
2			11		
3	1311.1	-12.8	12	1492.2	-3.0
4			13		
5			14		
6			15		
7			16	1572.2	-2.2
8			17		
9	1430.2	2.9	18		
Total Power = 4.1 dBm					

Normal Table Mode:

- λ and P of each channel
- total power



Drift Graph Mode:

- overview of channels
- λ and P drifts over time (select a channel – by moving the cursor – to display the Channel Drift Plot)



Channel Drift Plot Mode:

- one channel λ and P drifts over time

OCA 11:54:29

Ch	Wlavg[nm]	dWl[nm]	Pavg[dBm]	dP[dB]
3	1311.5	0.6	-12.8	0.1
9	1431.3	2.0	1.9	2.2
12	1492.3	1.0	-3.0	0.1
16	1573.0	1.0	-2.2	0.1

Total Power = 3.1 dBm

Mode
Functions
View
Settings

Drift Table Mode

(general statistics view)

- overview of λ and P statistics over time

OCA 11:54:36

Ch	Wlavg[nm]	Wl<[nm]	Wl>[nm]	dWl[nm]
3	1311.5	1311.0	1311.6	0.6
9	1431.4	1430.2	1432.2	2.0
12	1492.3	1492.2	1493.2	1.0
16	1573.0	1572.2	1573.2	1.0

Total Power = 3.0 dBm

Mode
Functions
View
Settings

Drift Table Mode

(wvl statistics view)

- overview of λ statistics over time

OCA 11:54:44

Ch	Pavg[dBm]	P<[dBm]	P>[dBm]	dP[dB]
3	-12.8	-12.8	-12.7	0.1
9	1.8	0.9	3.0	2.2
12	-3.0	-3.1	-3.0	0.1
16	-2.2	-2.2	-2.1	0.1

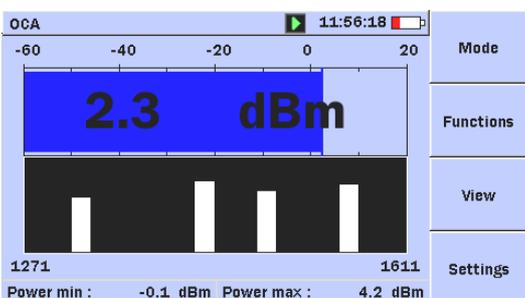
Total Power = 2.9 dBm

Mode
Functions
View
Settings

Drift Table Mode

(P statistics view)

- overview of P statistics over time



Powermeter Graph Mode

- total power

- quick overview of detected channels

CE/C-Tick Compliance Information



Anritsu affixes the CE Conformity marking on the following product(s) in accordance with the Council Directive 93/68/EEC to indicate that they conform to the EMC and LVD directive of the European Union (EU).

Anritsu affixes the C-tick marking on the following product(s) in accordance with the regulation to indicate that they conform to the EMC framework of Australia/New Zealand.

Please Recycle.



NiMH

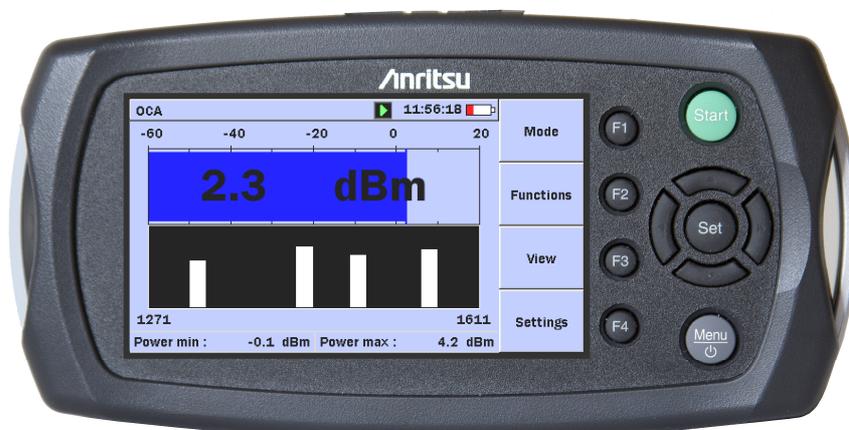


The product that you have purchased contains a rechargeable battery. The battery is recyclable. At the end of its useful life, under various state and local laws, it may be illegal to dispose of this battery into the municipal waste stream. Check with your local solid waste officials for details in your area for recycling options or proper disposal.

Technical Support, Services, and Repairs

Our Technical Support Center is at your service to answer technical questions and provide return authorization for service, repairs, or other returns.

See contact information on www.anritsu.com



See MU909020A User Guide for more information