Test & Measurement

- sales
- rentals
- calibration
- repair
- disposal

Complimentary Reference Material

This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.

TMG offers a wide range of test equipment solutions, from renting short to long term, buying refurbished and purchasing new. Financing options, such as Financial Rental, and Leasing are also available on application.

TMG will assist if you are unsure whether this model will suit your requirements.

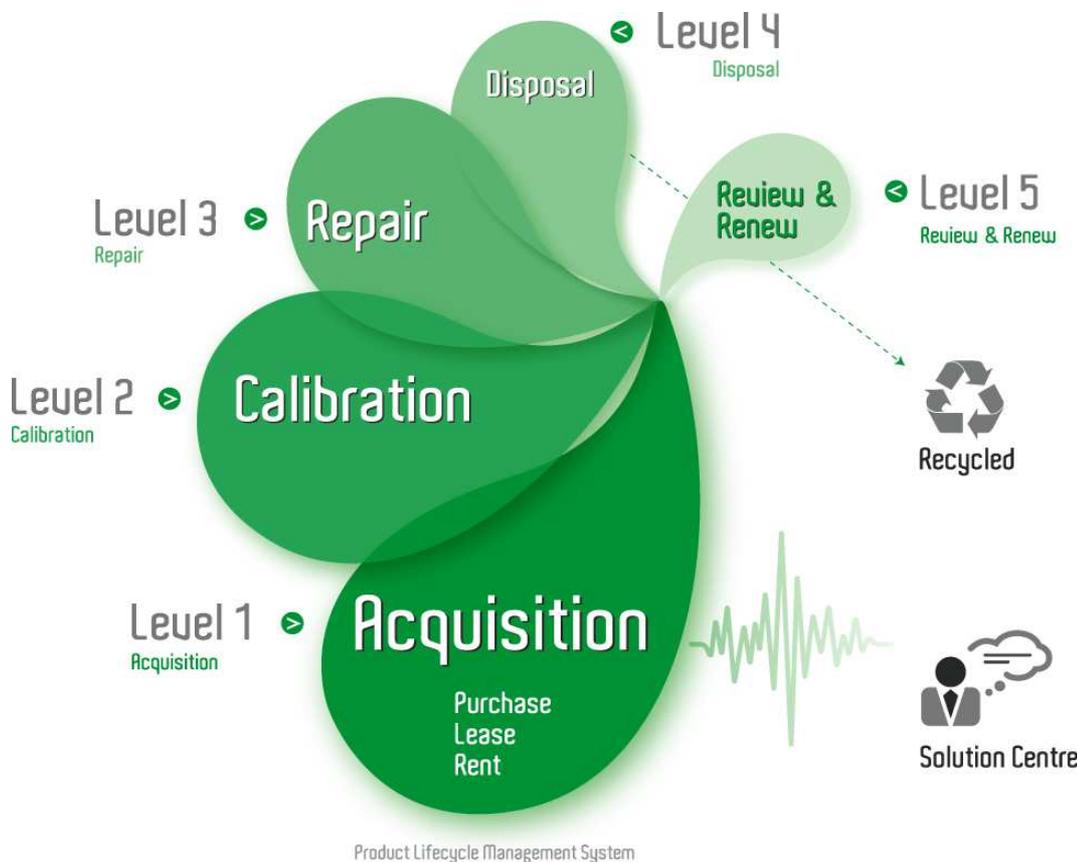Call TMG if you need to organise repair and/or calibrate your unit.

If you click on the "Click-to-Call" logo below, you can all us for FREE!

TMG Corporate Website   TMG Products Website

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Level 4
Disposal

Disposal

Level 3 — Repair
Repair

Review & Renew

Level 5
Review & Renew

Level 2 — Calibration
Calibration

Recycled

Level 1 — Acquisition
Acquisition

Purchase
Lease
Rent

Solution Centre

Product Lifecycle Management System

NATA
CERTIFIED MANAGEMENT SYSTEM
AIDN

MULTIFUNCTION FIBER-OPTIC TALK SET

VCS-20A

- Four instruments in one
- 50 dB dynamic range
- Clear digital voice transmission
- Hands-free operation
- Three-way powering
- Multiparty option
- Rugged casing

Flexibility

The VCS-20A brings together four convenient tools in a single test set, combining a full-duplex digital talk set, a stable light source, a 2 kHz tone generator and a 2 kHz tone detector. The VCS-20A can be configured for singlemode and multimode applications with LED or laser sources.

Efficient applications

The VCS-20A fulfills more than simple communication needs. In fact, the light source is calibrated and is stable in time and temperature. Use continuous wave selection to perform attenuation and insertion loss tests. Why carry an extra source when one VCS-20A does it all?

Extended dynamic range

Two new configurations have extended the VCS-20A's dynamic range to 50 dB. This wide range makes it possible to use new applications requiring clip-on devices.

Easy-to-use talk set

This unit is rugged and provides high-quality voice communication over a single fiber. The unit's hands-free operation is convenient and simple: press the Talk button to send or receive a call. As usual, conversations are as clear as if both operators were in the same room.

Powerful and durable

For hours of flawless operation, the three-way powering function automatically selects the best alternative among the choices of rechargeable NiMH battery, 9 V alkaline backup and AC adapter/charger input. Its rugged waterproof casing and protective holster make the VCS-20A the preferred field-testing instrument in the outside plant industry.

EXFO

EXPERTISE REACHING OUT

Multifunction Fiber-Optic Talk Set

SPECIFICATIONS [1]

Model	–02C	–02BL	–02BL-ER	–03BL	–03BL-ER
Emitter type	LED	laser	laser	laser	laser
Wavelength (nm)	1300 ± 30	1310 ± 25	1310 ± 25	1550 ± 25	1550 ± 25
Spectral width (typical) (nm)	80	5	5	5	5
Optimum fiber type (µm)	50/125	9/125	9/125	9/125	9/125
Distance range [2] (approximately) (km/mi.)	55/34 [3]	128/80	142/89	180/112	200/125
Power output (dBm)/dynamic range (dB)					
9/125 µm	–32/13	–5/45	–5/50	–5/45	–5/50
50/125 µm	–17/33	–5/30	–5/35	–5/30	–5/35
62.5/125 µm	–17/26	–5/28	–5/33	–5/28	–5/33
Stability (dB) 1 hour [4]	± 0.05	± 0.10	± 0.10	± 0.10	± 0.10
8 hours [5]	± 0.20	± 0.20	± 0.20	± 0.25	± 0.25

GENERAL SPECIFICATIONS

Size (H x W x D)		22 cm x 11 cm x 5 cm	(8 ³/₄ in x 4 ¹/₂ in x 2 in)
Weight	unit	0.88 kg	(1 ³/₄ lb)
	shipping	2.5 kg	(5 lb)
Temperature	operating	–10 °C to 50 °C	(14 °F to 122 °F)
	storage	–30 °C to 60 °C	(–22 °F to 140 °F)
Relative humidity		0 % to 95 % non-condensing	
Power		Built-in rechargeable NiMH battery lasts 17 hours from full charge, recharges in 6 hours; 9 V battery backup supply lasts 10 hours. Automatic transfer to disposable batteries when rechargeable battery pack runs low. AC adapter/charger for continuous use.	

STANDARD ACCESSORIES

User guide, AC adapter/charger, built-in rechargeable batteries, two 9 V alkaline batteries, carrying case, protective holster, shoulder strap, headset with boom microphone and Certificate of Compliance.

Notes

1. All tests performed at 23°C ± 1°/73.4°F ± 4° after 1 minute warm-up period.
2. 9/125 µm SMF 28 CPC 3 singlemode fiber.
3. 50/125 µm CPC 3 multimode fiber.
4. After a 10-minute warm-up period.
5. After a 20-minute warm-up period.
6. For multimode sources only.
7. For singlemode sources only.

SAFETY

This product complies with 21 CFR 1040.10 and 1040.11, and with IEC 60825-1:1993+A2:2001.
CLASS 1 LASER PRODUCT
CLASS 1 LED PRODUCT

ORDERING INFORMATION

VCS-20A-XX-XX

Source

02C = 1300 nm LED multimode
02BL = 1310 nm laser singlemode
03BL = 1550 nm laser singlemode
02BL-ER = Extended range 1310 nm laser singlemode
03BL-ER = Extended range 1550 nm laser singlemode

Example: VCS-20A-02BL-EI-EUI-89

Connector

50 = FC/PC [6]
54 = SC/PC [6]
58 = FC/APC narrow key
74 = ST/PC [6]
89 = FC/UPC
90 = ST/UPC
91 = SC/UPC
EI-EUI-28 = UPC/DIN 47256
EI-EUI-76 = UPC/HMS-10/AG
EI-EUI-89 = UPC/FC narrow key
EI-EUI-90 = UPC/ST
EI-EUI-91 = UPC/SC
EI-EUI-95 = UPC/E-2000
EA-EUI-28 = APC/DIN 47256 [7]
EA-EUI-76 = UPC/HMS-10/AG
EA-EUI-89 = APC/FC narrow key [7]
EA-EUI-90 = UPC/ST
EA-EUI-91 = APC/SC [7]
EA-EUI-95 = APC/E-2000 [7]

Find out more about EXFO's extensive line of high-performance portable instruments by visiting our website at **www.exfo.com.**

Rugged Handheld Solutions
– OLTS
– Power meter
– Light source
– Talk set

Optical Fiber	DWDM Test Systems	Telecom/Datacom
– OTDR	– OSA	– 10/100 and Gigabit Ethernet
– OLTS	– PMD analyzer	– SONET/SDH (DS0 to OC-192c)
– ORL meter	– Chromatic dispersion analyzer	– SDH/PDH (64 kb/s to STM-64c)
– Switch	– Multiwavelength meter	

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