

CYGNUS uOTDR

SMPTE Hybrid Fiber Cable Tester · Product Datasheet

NEW

PRODUCT CLAIM

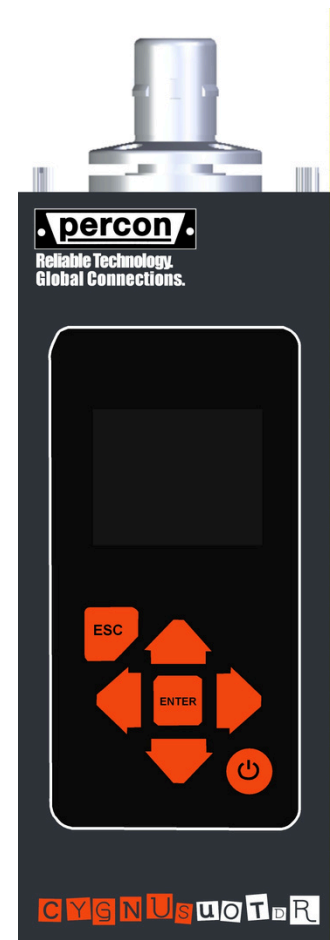
«Mission-critical connectivity, from design to deployment.»

The CYGNUS uOTDR by Percon is a cutting-edge portable tester delivering fast, precise and reliable testing of fiber optic and copper conductors in hybrid cable systems. Fully compatible with SMPTE 304M and ARIB connectors, it is the ideal solution for camera chains, live production setups and critical signal infrastructures.

Use it with 4 external AAA batteries or power it via USB-C: CYGNUS automatically detects and prioritizes the available power source, ensuring continuous operation in the field.

Key Benefits

- Accurate testing of hybrid fiber & copper cables
- Optimized for broadcast and professional AV environments
- Seamless compatibility with industry-standard connectors
- Portable, lightweight and field-ready
- Smart power management for uninterrupted workflows



CYGNUS PRO HD-Fiber Tester

The CYGNUS PRO HD-Fiber Tester is an essential companion for professionals who need to quickly validate fiber and hybrid cables with maximum efficiency, reducing downtime and ensuring optimal signal performance in any installation.

Features & Specifications

CYGNUS uOTDR · Features & Specifications

Features & Benefits

Robust and compact portable design

4 x AAA external batteries, or USB-C; USB-C to USB charging cable included

Checks both fiber and copper conductors in the same test

Clear identification of faults in the fiber or in the copper contacts

High-durability membrane keyboard, field-tested for a minimum of 20,000 uses

Black anodized aluminum outer casing

OLED color display, 160 x 128 resolution

Compatible with Lemo 3K.93C®, Fischer 1053®, Neutrik opticalCON QUAD®/DUO®, Stratos HX1080®, Simple Fiber Connectors and TYCO E-Beam® connectors

Easily interchangeable heads

Single Mode 1310 nm SFP with uOTDR option available

80-meter launcher box available on both channels

Automatic protection and detection of overvoltage on the copper pins

Applications

OB Vans

Live Events & Sports Broadcasting

Fixed / Mobile Installations

Specifications

Parameter	Value
Pin-for-pin checking	Yes
Wavelength	MM: 850/1300 nm · SM: 1310/1550 nm · SM uOTDR: 1310 nm
Display	OLED, 160 x 128
Optical loss display	> 18 dB (flashing when higher)
Traffic light (fiber)	Green 0–5.99 dB · Amber 6.00–17.99 dB · Red > 18 dB
Electrical display info	Low battery · Open/short via LED matrix · Copper error count
Keypad	4-way navigation · Enter, Esc & Power · user-selectable display
Screen resolution	160 x 128
Return loss	4.1 km / > 45 dB (other connector)
Patents	Mini USB charger / AC adaptor — patent pending
SFP uOTDR dead zone	50 m or less
SFP uOTDR resolution	10 m or better
SFP uOTDR accuracy	± 50 m or better



connector frontal view



Color OLED interface: green/amber/red traffic-light readout for fiber loss, with a Test · Setup · Help menu.