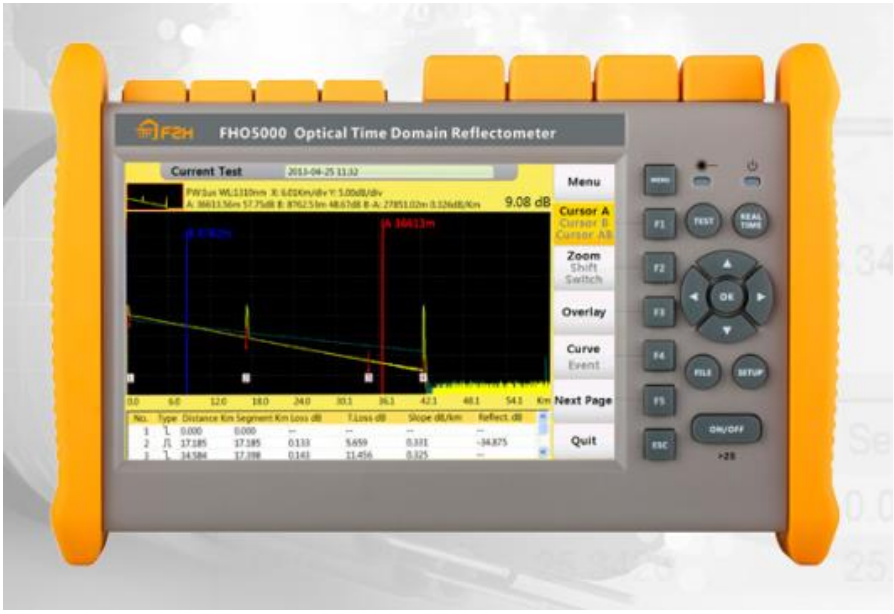
# OTDR FH5000 –Modelo T40F (1625) + FLM

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|---|---|
| **DESCRIPCION** | OTDR + FLM, Medidor de Potencia Óptica Pantalla Táctil |
| **MODELO** | FHO5000-T40F 1625 + FLM |
| **CODIGO WT** | 4273113 |

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# 1 - CARACTERISTICAS

- Rango dinámico de 26dB a 50dB, pequeña zona muerta de 0,8 m/3 m
- Capacidad optimizada de prueba PON para pasar a través de 1x128 divisor, la distancia mínima entre divisores es de 30 metros
- Excelente rendimiento de prueba FLM (Mapa de Enlace de Fibra)
- Informe PDF de prueba de traza OTDR y FLM integrado
- Control remoto disponible en el software para PC
- Diseño integrado multifuncional, inteligente y resistente
- Bluetooth y aplicación móvil disponibles en la versión PRO

| Model | Wavelength | Dynamic Range | Dead-zone |
|---|---|---|---|
| FHO5000-D26 | 1310/1550nm±20nm | 26/24dB | 1/4m |
| FHO5000-D35 | | 35/33dB | 1/4m |
| FHO5000-D40 | | 40/38dB | 0.8/3m |
| FHO5000-D43 | | 43/41dB | 0.8/3m |
| FHO5000-D45 | | 45/43dB | 0.8/3m |
| FHO5000-D50 | | 50/48dB | 0.8/3m |
| FHO5000-TP35 | 1310/1490/1550nm±20nm | 35/33/33dB | 1/4m |
| FHO5000-T26F | 1310/1550/1625nm±20nm | 26/24/24dB | 1/4m |
| FHO5000-T35F | | 35/33/33dB | 1/4m |
| FHO5000-T40F | | 40/38/38dB | 0.8/3m |
| FHO5000-T43F | | 43/41/41dB | 0.8/3m |
| FHO5000-T45F | | 45/43/43dB | 0.8/3m |
| FHO5000-T50F | | 50/48/48dB | 0.8/3m |
| [illegible] | 1310/1550/1650nm±20nm | [illegible] | [illegible] |
| FHO5000-TC40F | | 40/38/38dB | 0.8/3m |
| FHO5000-TC43F | | 43/41/41dB | 0.8/3m |
| FHO5000-TC45F | | 45/43/43dB | 0.8/3m |
| FHO5000-M21 | 850/1300nm±20nm | 19/21dB | 1/4m |
| FHO5000-MD21 | 850/1300nm±20nm | 19/21dB | 1/4m |
| | 1310/1550nm±20nm | 35/33dB | 1/4m |
| FHO5000-MD22 | 850/1300nm±20nm | 19/21dB | 1/4m |
| | 1310/1550nm±20nm | 40/38dB | 0.8/3m |

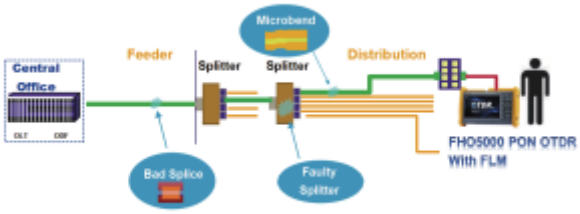
- Generación de informes PDF OTDR/FLM multilingüe incorporada
- Detección de fibra en vivo: Verifica la presencia de luz de comunicación en la fibra óptica
- Análisis de doble longitud de onda (1310nm/1550nm) - Detección de flexión macro
- Función de análisis de prueba bidireccional incorporada
- Superposición y comparación de trazas (máximo 8 trazas)
- Definir el resultado de Aprobado/Reprobado de cada evento a través de la configuración de umbral
- Potente software de análisis para PC "OTDRviewer“
- Control remoto en el software de PC "Server" mediante cable RJ45
- Bluetooth y aplicación móvil Android disponible en la versión PRO
- Conversión de traza OTDR y mapa de enlace de fibra
- Función de iniciar el cable y recibir la fibra al final

# 2 – PARAMETROS TECNICOS

| Items | Specifications |
|---|---|
| Pulse Width | 3ns, 5ns, 10ns, 30ns, 50ns, 100ns, 275ns, 500ns, 1us, 2us, 5us, 10us, 20us |
| Distance Range | 500m, 2km, 5km, 10km, 20km, 33km, 40km, 80km, 120km, 160km, 265km |
| Sampling Resolution | Minimum 5cm |
| Sampling Points | Maximum 256,000 points |
| Linearity | ≤0.05dB/dB |
| Loss Threshold | 0.01dB |
| Loss Resolution | 0.001dB |
| Distance Resolution | 0.01m |
| IOR Setting | 1.2000~1.7000, 0.0001 step |
| Distance Accuracy | ±(0.75m+test distance×3×$10^{-5}$+sampling resolution) (excluding IOR uncertainty) |
| Memory Capacity | 16G TF card |

| Items | Specifications |
|---|---|
| **Visual Fault Locator Module** | |
| Working Wavelength | 650nm±20nm |
| Power | 10mw, CLASSIII B Laser |
| Launching Mode | CW/2Hz |
| Connector | Universal 2.5mm |
| **Optical Power Meter Module** | |
| Wavelength Range | 800~1700m |
| Calibrated Wavelength | 850/1300/1310/1490/1550/1625/1650nm |
| Test Range | TypeA:-60~+5dBm(standard); Type B: -40~+23dBm(optional) |
| Accuracy | ±0.35dB |
| Resolution | 0.01dB |
| **Optical Laser Source Module** | |
| Working Wavelength | Consistent with OTDR |
| Output Power | ≥-10dBm |
| Output Accuracy | ±0.5dB |
| Output Mode | CW/270Hz/1kHz/2kHz |
| **Others** | |
| Interface | 1×RJ45 port, 3×USB port (USB 2.0, Type A USB×2, Type B USB×1) |
| Display | 7-inch touch screen TFT-LCD |
| Available Lanaguage | English, traditional Chinese, French, Korean, Russian, Spanish, Portuguese, Turkish, Italian, German, Thai, Hungarian, Czech, Vietnamese, Polish (please contact sales for other languages) |
| Battery | 7.4V/5.2Ah lithium battery (with air traffic certification) |
| Power Supply | 10V(dc)/4A, 100V(ac) to 240V(ac), 50~60Hz |
| Temperature | Working Temp: -10℃~+50℃; Storage Temp: -20℃~+70℃ |
| Humidity | ≤95% (No-condensation) |
| Dimension | 253×168×73.5mm |
| Weight | 1.5kg (with battery) |
| Accessories | Main unit, Power adapter, Charge cord, Lithium battery, FC adapter, USB cable, Quick guide, Test report, Carrying bag, Wrist strap |
| Optional | SC/LC adapter, Fiber microscope, Launch cable box |

# 4 –FUNCION FLM


- Ajuste adaptativo de múltiples pruebas de ancho de pulso según el enlace, combine y analice
- FLM puede probar cualquier estructura PON, incluyendo divisores balanceados o no balanceados
- No es necesario analizar curvas, los resultados de las pruebas se muestran mediante íconos, de manera simple y clara
- Diagnóstico y análisis integral de fallas en fibra óptica
- Función de Aprobado/Reprobado definida por el usuario y generación automática de informes FLM
- Adecuado para el análisis de redes PON, puede pasar a través de divisores de hasta 1x128
- Identificación de divisores, la distancia más corta entre divisores es de hasta 30 m

# 5 - GENERALIDADES

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|---|---|
| **Dimension** | 253×168×73.6mm \| 1.5kg(battery included) |
| **Display** | 7-inch TFT-LCD with LED backlight (touch screen function is optional) |
| **Interface** | 1×RJ45 port, 3×USB port(USB2.0,Type A USB×2, Type B USB×1) |
| **Power Supply** | 10V(dc), 100V(ac) to 240V(ac), 50~60Hz |
| **Battery** | 7.4V(dc)/4.4Ah lithium battery (with air traffic certification)<br>Operating Time: 12 hours①, Telcordia GR-196-CORE<br>Charging time: <4 hours (power off) |
| **Power Saving** | Backlight off: Disable/1 to 99minutes<br>Auto shutdown: Disable/1 to 99minutes |
| **DataStorage** | Internal memory: 4GB (about 40,000 groups of curves) |
| **Language** | User selectable (English,Simplified Chinese, Traditional Chinese, French, Korean, Russian, Spanish and Portuguese -contact us for availability of others) |
| **Environmental Conditions** | Operating temperature and humidity: -10°C~+50°C, ≤95% (non-condensation)<br>Storage temperature and humidity: -20°C~+75°C, ≤95% (non-condensation)<br>Proof: IP65 (IEC 60529) |
| **Accessories** | Standard: Main unit, power adapter, Lithium battery, FC adapter, USB cord, User guide, CD disk, carrying case. Optional: SC/UPC adapter, ST/UPC adapter, LC/UPC adapter, Bare fiber adapter. |

# 5 – PARAMETROS A TESTEAR

## Test parameter

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|---|---|
| **Pulse Width** | Single mode: 3ns, 5ns, 10ns, 20ns, 50ns, 100ns, 200ns, 500ns, 1μs, 2μs, 5μs, 10μs, 20us.<br>Multi mode: 3ns, 5ns, 10ns, 20ns, 50ns, 100ns, 200ns, 500ns, 1μs, 2μs |
| **Distance Range** | Single mode: 100m, 500m, 2km, 5km, 10km, 20km, 40km, 80km, 120km, 160km, 240km<br>Multi mode: 500m, 2km, 5km, 10km, 20km, 40km |
| **Sampling Resolution** | Minimum 5cm |
| **Sampling Point** | Maximum 128,000 points |
| **Linearity** | ≤0.05dB/dB |
| **Scale Indication** | X axis: 4m~70m/div, Y axis: Minimum 0.09dB/div |
| **Distance Resolution** | 0.01m |
| **Distance Accuracy** | ±(1m+measuring distance×3×10 +sampling resolution ) ( excluding IOR uncertainty) |
| **Reflectance Accuracy** | Single mode: ±2dB, multi mode: ±4dB |
| **IOR Setting** | 1.4000~1.7000, 0.0001 step |
| **Units** | km, miles, feet |
| **OTDR Trace Format** | Telcordia universal, SOR, issue 2 (SR-4731)<br>OTDR: User selectable automatic or manual set-up |
| **Testing Modes** | Visual fault locator: Visible red light for fiber identification and troubleshooting<br>Light source: Stabilized Light Source (CW, 270Hz, 1kHz, 2kHz output)<br>Field microscope probe |
| **Fiber Event Analysis** | Auto or manual operation, displayed in table format<br>User defined PASS/FAIL thresholds:<br>-Reflective and non-reflective events: 0.01 to 1.99dB (0.01dB steps)<br>-Reflective: 0.01 to 32dB (0.01dB steps)<br>-Fiber end/break: 3 to 20dB (1dB steps) |
| **Other Functions** | Real time sweep: 1Hz<br>Averaging modes: Timed (1 to 3600 sec.)<br>Live Fiber detection: Verifies presence communication light in optical fiber<br>Trace overlay and comparison |