

SmartClass™ Fiber FBP-HD4i/HD4iP and OLP-82/82P

Inspect, test, certify, and save with one device

QUICK START GUIDE



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Independent Laboratory Testing	This unit has undergone extensive testing according to the European Union Directive and Standards.

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INTRODUCTION

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JDSU's SmartClass Fiber family is the next generation of optical handheld test solutions that allow technicians to inspect, test, certify, and save on a single device. Designed to help users work smarter and faster, the SmartClass Fiber family incorporates the features that technicians rely on every day to deliver best-in-class reliable networks to their customers.

Products in the SmartClass Fiber family include:

**HD4i**

Digital handheld video display





























**OLP-82**

Digital handheld video display with optical power meter

**OLP-87**

Digital handheld video display with PON power meter

Key Features and Functions

Description	HD4i	OLP-82	OLP-87
Portable handheld display with 3.5" color touch screen			
Simple graphical menu-driven interface			
Accepts PASS/FAIL P5000i Probe			
Accepts external USB power meter			
Integrated connector certification reporting			
On-board storage: Endface images and inspection analysis			
User-definable acceptance criteria			
Integrated optical power meter			
On-board storage: Power meter results			
Integrated PON power meter (BPON, EPON, and GPON)			
Integrated PASS/FAIL patch cord microscope option	 HD4iP	 OLP-82P	 OLP-87P

This **Quick Start Guide** highlights general controls and use the **HD4i** and **OLP-82** products only. A comprehensive User Manual is included on the FiberChekPRO installation disk that is included with this product.

For further information on the **OLP-87** or other JDSU fiber test tools, visit www.jdsu.com/test.

CONTROLS

2











Standard

with Patch Cord Microscope (PCM)



- ❶ Connector interface
- ❷ 3.5 inch color touch screen
- ❸ Key pad (operator control panel)
- ❹ LED indicators
- ❺ Patch Cord Microscope (PCM) with FMAE adapter
- ❻ Test head cover
- ❼ Battery life indicator
- ❽ Graphic menu interface
- ❾ 2x USB2 interfaces, 1x micro-USB interface, external power supply connector
- ❿ PCM controls (focus control, automated PASS/FAIL analysis, magnification control)

Operator Control Panel

	HOME - Press to go to the home screen
	MENU - Press to open a menu
	BACK - Press to go back one step
	INPUT SELECT KEY (ISK) - Press for fast toggling between device functions
	POWER - Press to switch the instrument ON and OFF <i>NOTE: LED glows GREEN when the instrument is ON.</i>
	ARROW KEYS <ul style="list-style-type: none"> • Press to navigate through the menus • Press to change values in the menus CENTER KEY <ul style="list-style-type: none"> • Press to confirm the selection
	SAVE - Press to save results
	LOW BATTERY - Glows RED when battery is low
	TEST IN PROCESS - Glows RED when a measurement is running in the background
	CHARGE - Glows AMBER when battery is charging; If the power is OFF, charging will continue with no LED indicator

Home Screen Display

OLP-82P Home Screen shown





	Battery Status - Indicates the battery charge level / status.
	Optical Power Meter (OPM) - Activates the on-board OPM to view optical power measurement results, edit acceptance criteria, and view saved results.
	Inspect (PCM) - Activates the integrated Patch Cord Microscope (PCM) to inspect and analyze fiber endfaces, detect scratches and defects, and provide PASS/FAIL results. The PCM is ideal for inspecting male fiber connectors such as patch cords and test leads.
	Inspect (Probe) - Activates the handheld P5000i Digital Probe microscope to inspect and analyze fiber endfaces, detect scratches and defects, and provide PASS/FAIL results. The probe is ideal for inspecting connectors located behind bulkheads.
	USB Optical Power Meter (OPM) - Activates OPM devices (such as MP-60 or MP-80) that are connected to one of the USB ports to view optical power measurement results, edit acceptance criteria, and view saved results.

OPERATION

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Setting Up PASS/FAIL Analysis

Select Acceptance Criteria: Inspection (Probe)


1. Open the  **INSPECT (Probe)** application
2. Press  **MENU**
3. Select **PROFILE** (*choose desired PROFILE from list*)
4. Select **TIP** (*choose from list*)

Select Acceptance Criteria: Inspection (PCM)

1. Open the  **INSPECT (PCM)** application
2. Press  **MENU**
3. Select **PROFILE** (*choose desired PROFILE from list*)

*Set Up OPM
PASS/FAIL
Thresholds
(if measuring in
dBm)*






1. Open the **POWER METER** application
2. Select **MORE... > EDIT WAVELENGTH TABLE**
3. Select a wavelength from the list
4. Press  **MENU**
5. Select **ENTER LIMIT**
6. Enter your desired limit value (*measured in dBm*) using the numeric keypad
7. Press **OK**
 - Repeat steps 4–7 for all desired OPM wavelengths
8. Check the boxes for only the wavelengths you want to use

Using the Device



This SmartClass Fiber device allows users to inspect, test, certify, and save results quickly and easily by **driving the user's behavior** and incrementally stepping them through each application as it should be used in a **proper testing workflow** as follows:

Starting from the Home Screen



1. Certify the patch cord/test lead endfaces

- a. Press the  to activate the PCM
- b. Inspect patch cord/test lead end **A** using the PCM
- c. Press the [TEST] button on the PCM
- d. Press  to save result *(if necessary)*
- e. Move end **A** over to the OPM port
- f. Inspect patch cord/test lead end **B** using the PCM
- g. Press the [TEST] button on the PCM
- h. Press  to save result *(if necessary)*
- i. Leave end **B** in the PCM

2. Certify the bulkhead connector endface

- a. Press the  to activate the Probe Microscope
- b. Inspect the bulkhead endface using the Probe Microscope
- c. Press the [TEST] button on the Probe
- d. Press  to save result
- e. Plug patch cord/test lead end **B** into the bulkhead port

3. Measure the optical power

- a. Press the  to switch to the OPM
- b. Select desired wavelength *(OPM value will be displayed on the screen)*
- c. Press  to save result
- d. Repeat as necessary for other wavelengths

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