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

Inspect, test, certify, and save with one device

### **QUICK START GUIDE**



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Notice

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FCC Information

Electronic test equipment is exempt from Part 15 compliance (FCC) in the United States.

**European Union** 

Electronic test equipment is subject to the EMC Directive in the European Union. The EN61326 standard prescribes both emission and immunity requirements for laboratory, measurement, and control equipment. This unit has been tested and found to comply with the limits for a Class A digital device.

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

Introduction CHAPTER 1

### **Key Features and Functions**

Description	HD4i	0LP-82	OLP-87
Portable handheld display with 3.5" color touch screen	Ø	$\oslash$	
Simple graphical menu-driven interface	$\oslash$	$\oslash$	$\oslash$
Accepts PASS/FAIL P5000i Probe	$\oslash$	$\oslash$	$\oslash$
Accepts external USB power meter	$\oslash$	$\oslash$	
Integrated connector certification reporting	$\oslash$	$\oslash$	$\oslash$
On-board storage: Endface images and inspection analysis	$\oslash$	$\oslash$	$\bigcirc$
User-definable acceptance criteria	$\oslash$	$\oslash$	$\bigcirc$
Integrated optical power meter		$\oslash$	$\oslash$
On-board storage: Power meter results		$\oslash$	$\bigcirc$
Integrated PON power meter (BPON, EPON, and GPON)			$\oslash$
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**

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with Patch Cord Microscope (PCM)

Controls CHAPTER 2

- Connector interface
- 2 3.5 inch color touch screen
- **3** Key pad (operator control panel)
- 4 LED indicators
- **6** Patch Cord Microscope (PCM) with FMAE adapter
- **6** Test head cover
- Battery life indicator
- 8 Graphic menu interface
- **9** 2x USB2 interfaces, 1x micro-USB interface, external power supply connector
- **1** PCM controls (focus control, automated PASS/FAIL analysis, magnification control)

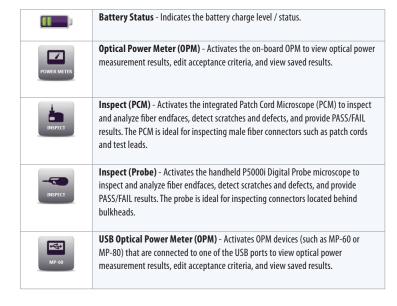
### **Operator Control Panel**

lack	<b>HOME</b> - Press to go to the home screen			
<b>=</b>	MENU - Press to open a menu			
~	BACK - Press to go back one step			
Ð	INPUT SELECT KEY (ISK) - Press for fast toggling between device functions			
$\circ$	POWER - Press to switch the instrument ON and OFF			
U .	<b>NOTE:</b> LED glows GREEN when the instrument is ON.			
Ç.	ARROW KEYS  • Press to navigate through the menus  • Press to change values in the menus  CENTER KEY  • Press to confirm the selection			
Н	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			
+	<b>CHARGE</b> - Glows <i>AMBER</i> when battery is charging; If the power is OFF, charging will continue with no LED indicator			

### **Home Screen Display**

OLP-82P Home Screen shown

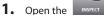




### **OPERATION**

### **Setting Up PASS/FAIL Analysis**

Select Acceptance Criteria: Inspection (Probe)





**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)



**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 you 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

Operation CHAPTER 3

### **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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