

Getting Started with the EOTS Software



Getting Started with the EOTS Software

This guide will go over the basics of how to set up the EOTS software. Please carefully read *Section 1* for important recommendations on optimizing your long term testing setup.

If you have any questions, please email support@jgroptics.com



Getting Started with the EOTS Software

1. Important Recommendations

1.1. General Information

A good setup for long term testing has additional challenges compared to standard IL/RL measurements.

The two most critical aspects are:

- connector contamination
- microcracks and fiber management

Before connecting any jumper to the instruments, inspect **both ends** with a microscope. A bench top ferrule inspection scope such as JGR's CS400K is recommended for inspecting jumpers and connectorized switch pigtails.

When connecting directly to an instrument bulkhead, a bulkhead inspection probe can facilitate the process.

Even dirt in the peripheral zones outside the core can affect long term IL stability. **Extra diligence is required.**



JGR's **CS400K-CM**
inspection scope

Getting Started with the EOTS Software

1. Important Recommendations

1.1. General Information

Fiber microcracks are difficult to detect and a slow IL drift over many hours or days is a common manifestation. If possible, replace any fibers that are suspected of having microcracks.

Microcracks are especially sensitive if the fiber is bending. It is recommended to have enough flat space to allow the fibers going from the instruments to the chamber to be as straight as possible. Avoid any crossed fibers.

Hanging fiber is another common source of drift. This is sometimes unavoidable between the bench and the environmental chamber but fiber should be supported as much as possible.

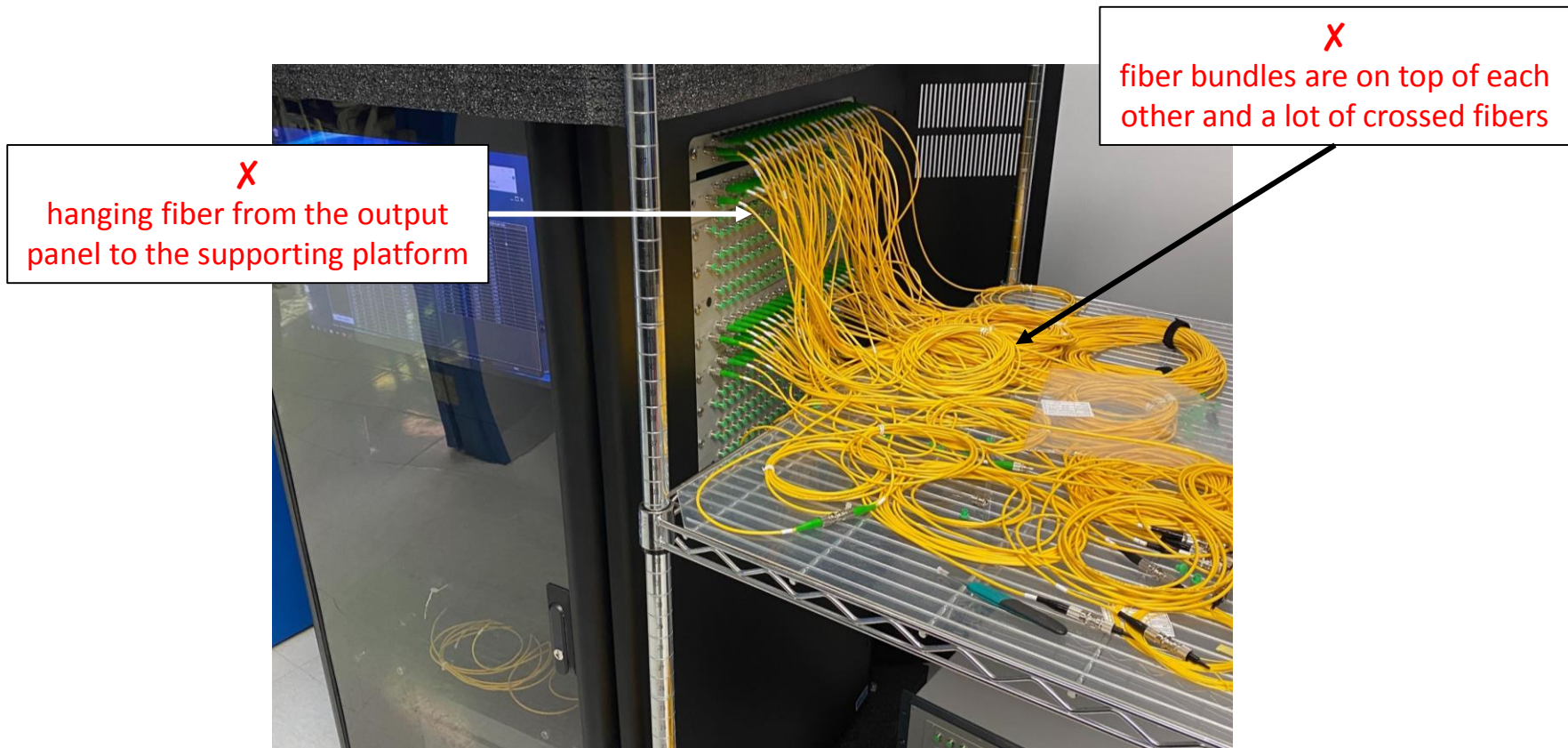
The lab conditions should be optimized for temperature and humidity control. For example, the Telcordia GR-326 standard defines ambient lab conditions for temperature = 23 ± 2 °C and RH < 75%.

The EOTS software can apply external fiber drift corrections from reference channels. It is recommended to manage the fiber in such a way that the reference channel is within the bundle of channels it is correcting as much as possible outside the chamber.

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1. Important Recommendations

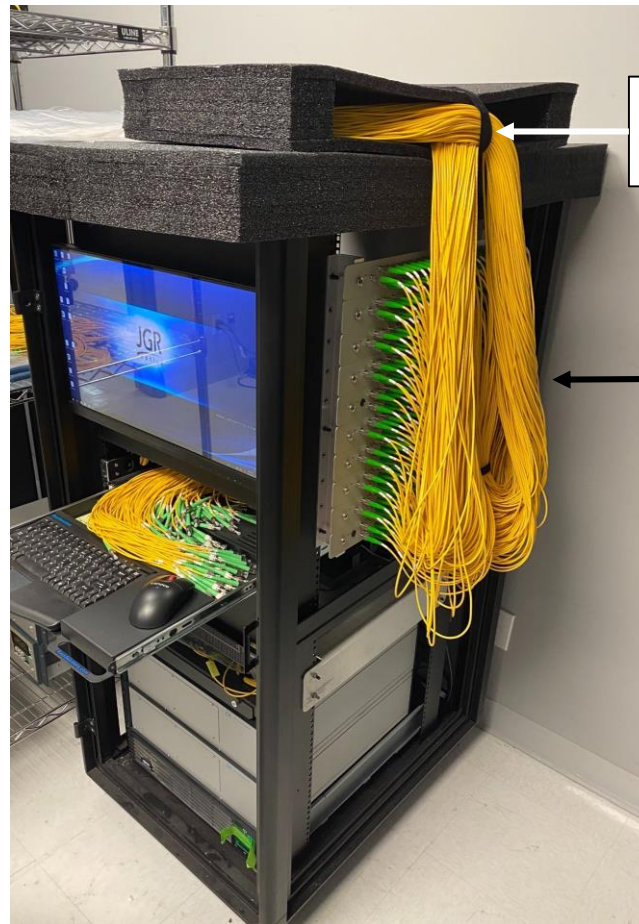
1.2. Examples of Fiber Management



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1. Important Recommendations

1.2. Examples of Fiber Management



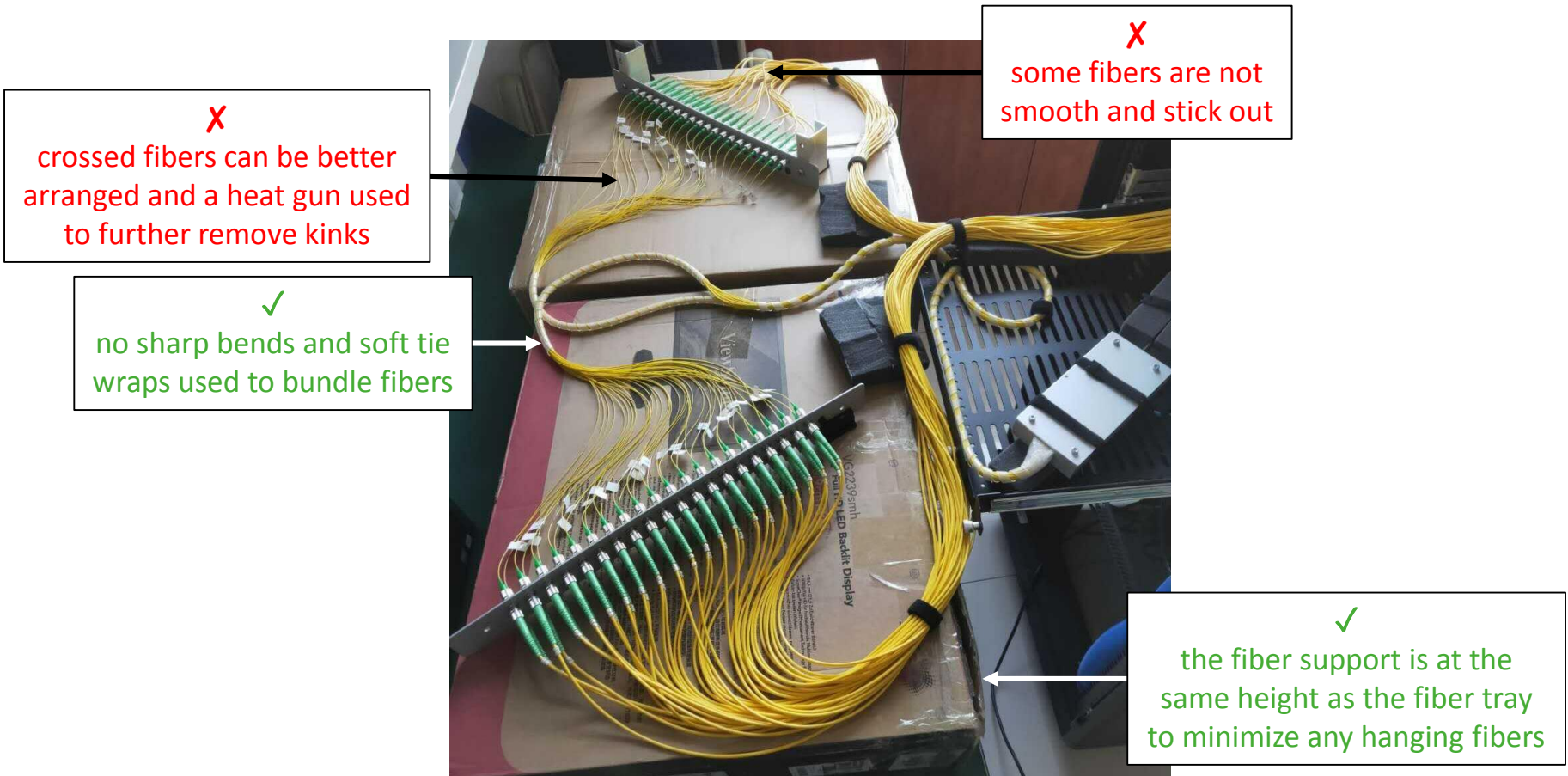
✓
fibers are bundled together

✗
hanging fiber

Getting Started with the EOTS Software

1. Important Recommendations

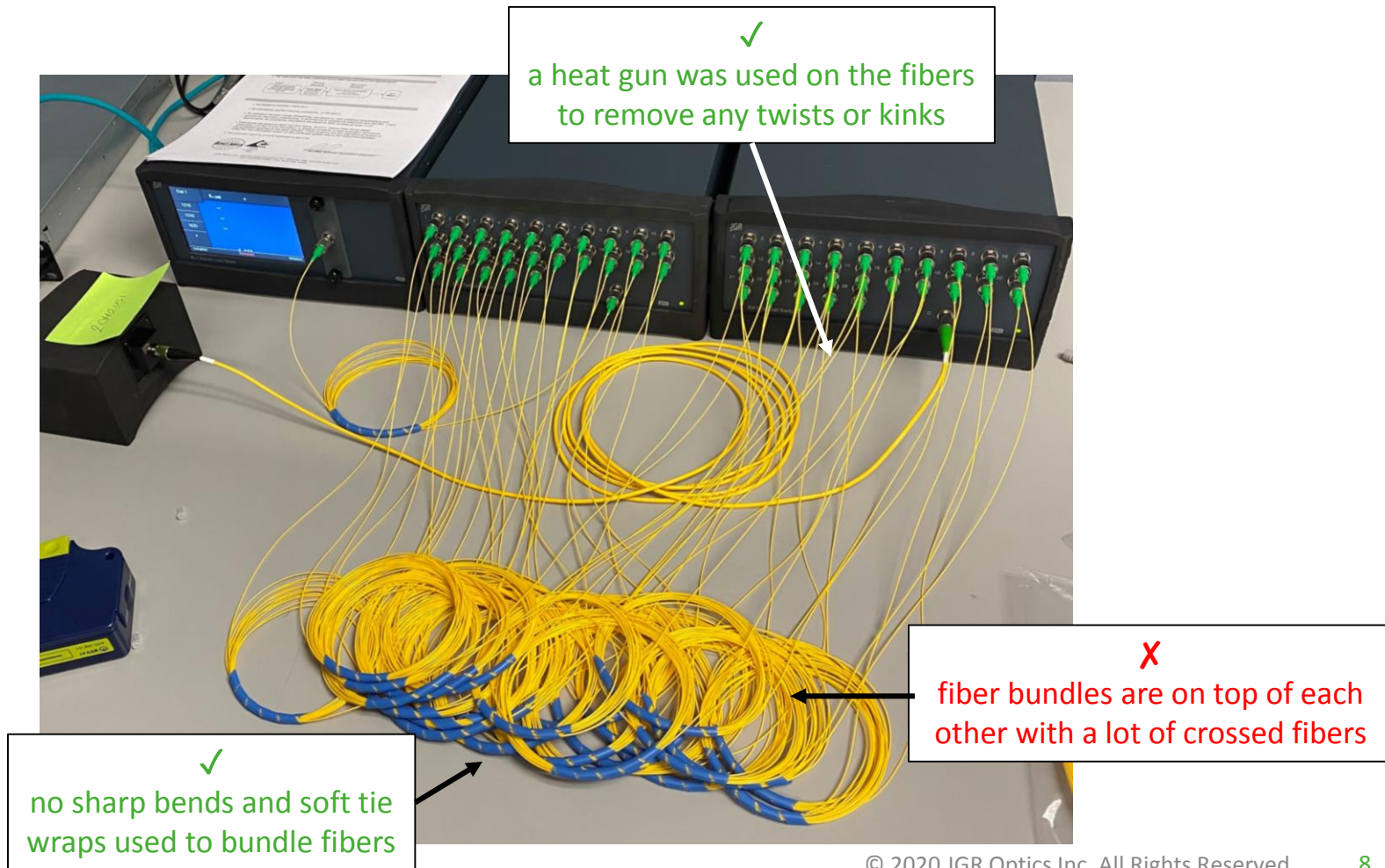
1.2. Examples of Fiber Management



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1. Important Recommendations

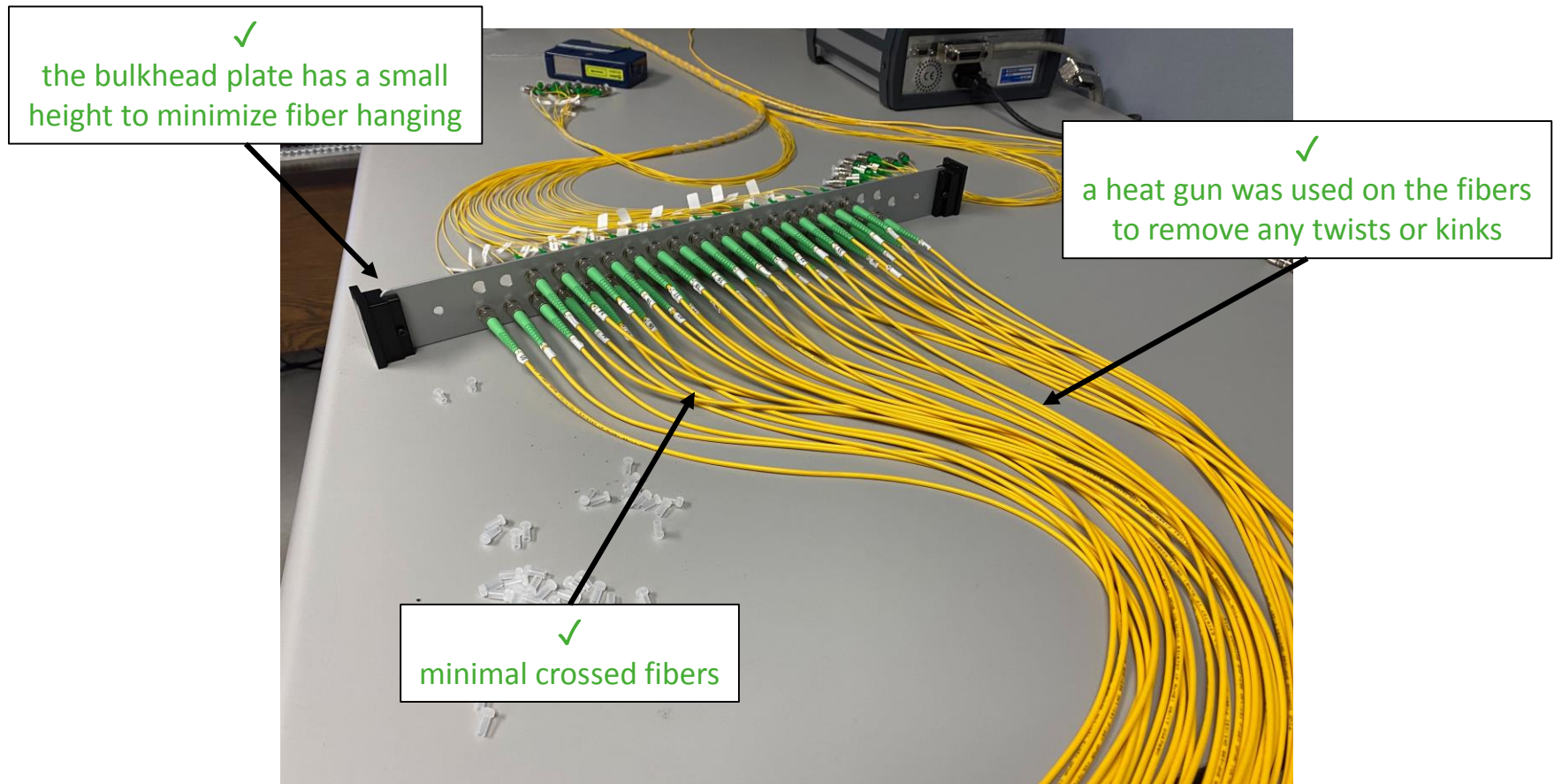
1.2. Examples of Fiber Management



Getting Started with the EOTS Software

1. Important Recommendations

1.2. Examples of Fiber Management



Getting Started with the EOTS Software

2. Software and Hardware Installation

2.1. Software Installation

If you have purchased a complete EOTS in a rack with server PC included, the software and hardware have been pre-installed and you can skip section 2.

If you wish to use the EOTS software for an RL1 and SX1s purchased separately or need to set up a new computer, this section will cover the setup process.

Begin by running the *JGR Environmental Test Suite.exe* installer.

This will install the necessary VISA drivers to control the RL1 and SX1 and the following two applications:

- JGR EOTS – main software to run test sequences
- JGR Data Tools – software used to view data and export to Microsoft Excel

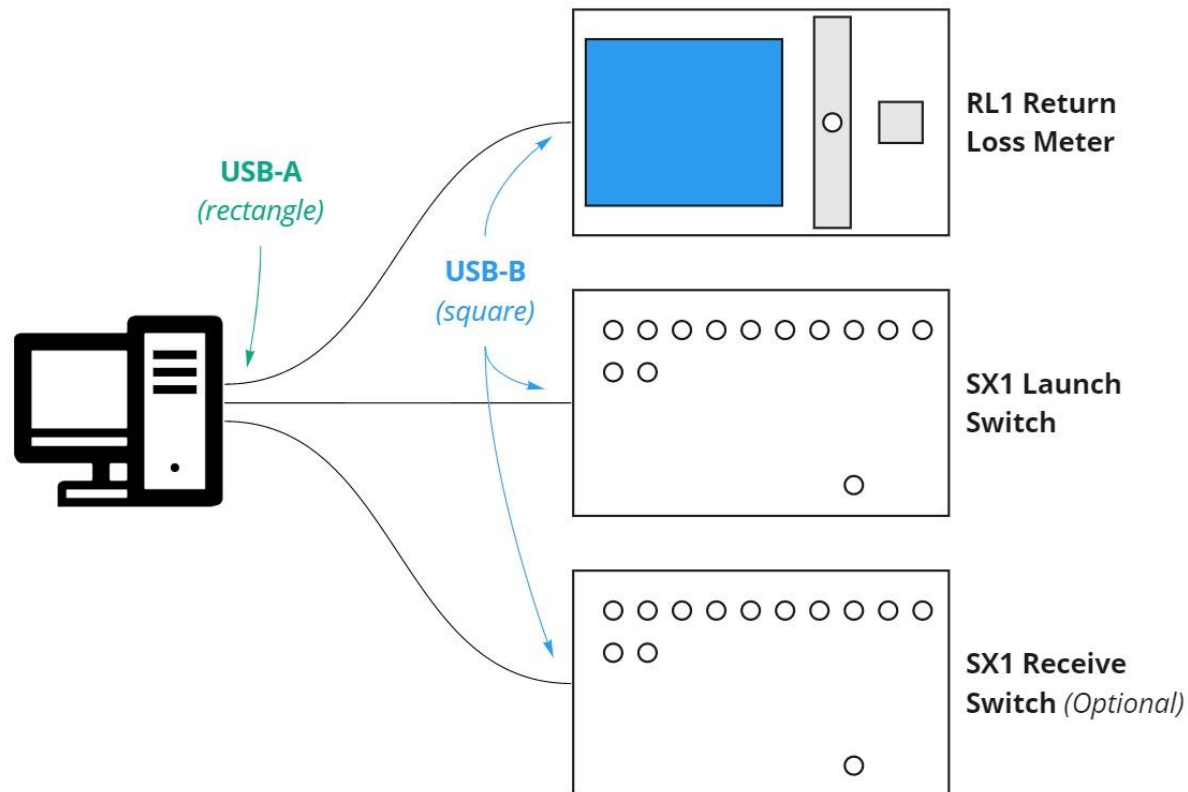
The EOTS software auto detects instruments on launch. If the application is running, close it before proceeding to the hardware connections.

Getting Started with the EOTS Software

2. Software and Hardware Installation

2.2. Hardware Installation

- Power on and connect each instrument via USB to the controlling PC then launch the EOTS software.

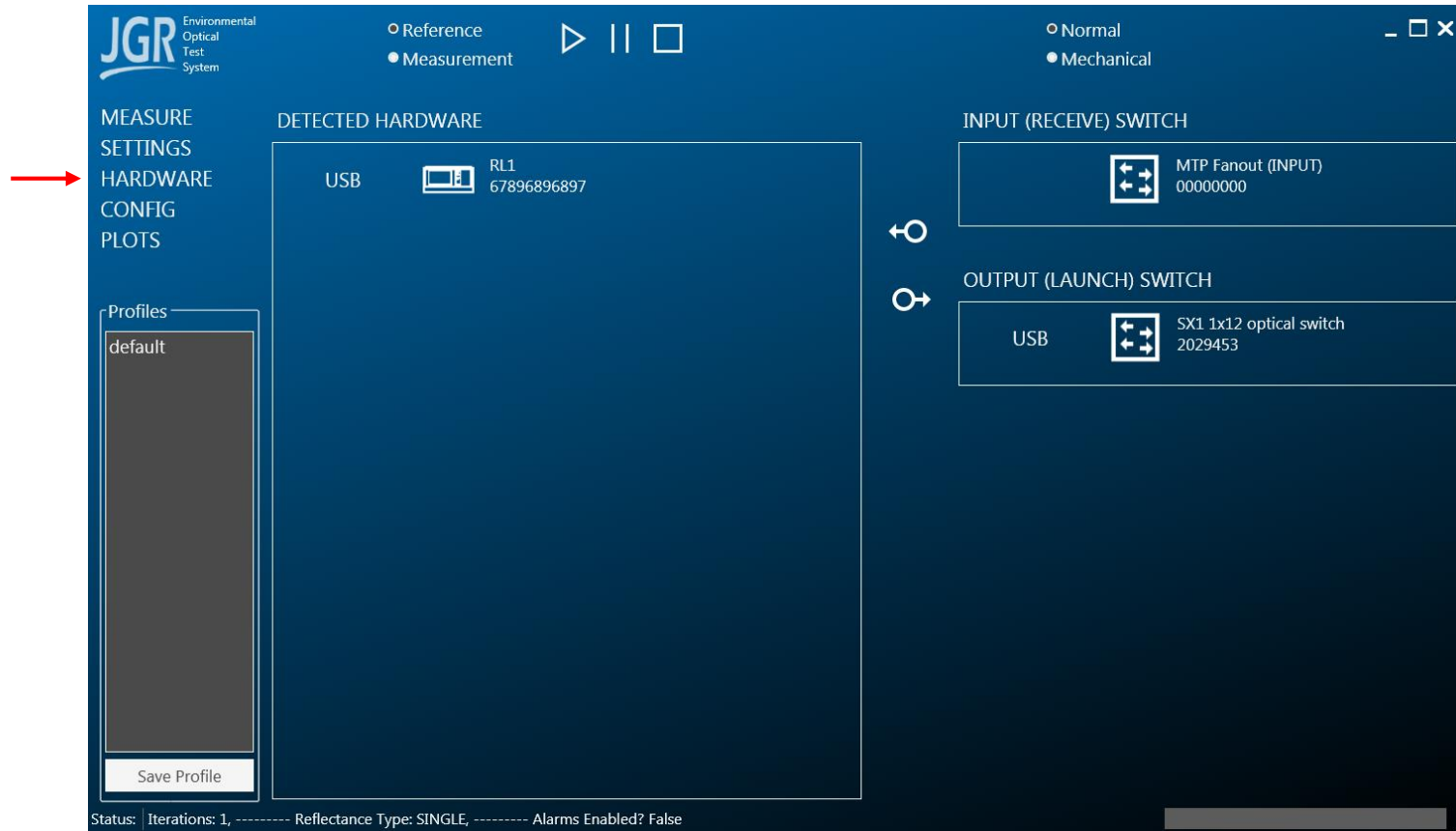


Getting Started with the EOTS Software

3. Software Initial Setup

3.1. Assigning Hardware

- Click on the *HARDWARE* tab then click and drag the switches to their appropriate positions.
- If using only one SX1 switch, drag the virtual hardware *MTJ Fanout (INPUT)* to the input position.



Getting Started with the EOTS Software

3. Software Initial Setup

3.2. Setting Reference Channels

- Click on the *SETTINGS* tab.
- To assign a reference channel, press ALT + S to go into supervisor mode then modify the cells. Pressing ALT + S again locks the reference channels.
- Exiting this page without an assigned save file will prompt an error message.

JGR Environmental Optical Test System

Reference
Measurement

MEASURE
SETTINGS
HARDWARE
CONFIG
PLOTS

Profiles
default

Save Profile

TEST SETTINGS

Save File: C:\Users\JGR\Documents\test.sqlite Browse

☐ Enable Alarms

☐ Auto Map DUT on Insert

☒ Start Measurement After Ref

☐ Pause At End Of Sequence

☐ Min Sequence Time ☐ Command Delay

Stabilize 2x2
Minutes: 0

Iterations: 1
Minutes: 0
Hours: 0
Days: 0

Minutes: 0
Seconds: 0
Minutes: 0
Hours: 0

Seconds: 0
Minutes: 0
Hours: 0

REFERENCE CHANNELS

REF #1: 1 REF #3: 0 SPLICE: 0

REF #2: 0 REF #4: 0 ☐ Disable IL Reference Channels

REFLECTANCE OPTIONS

Reflectance Measurement Mode: ☒ Total ☐ Dual ☐ Single

Averages: ☒ Fast ☐ Standard

CUSTOM HEADERS

Number of Custom Headers: 0

Row Headers

Status: Iterations: 1, Reflectance Type: SINGLE, Alarms Enabled? False

Getting Started with the EOTS Software

3. Software Initial Setup

3.2. Setting Reference Channels

The reference channels compensate for external fiber IL drift. It is suggested to bundle the fibers together as much as possible and include each reference channel within its corresponding group.

The reference channels are the physical channels on the switches. All other EOTS channel numbering will be adjusted accordingly.

For example, a 100 channel EOTS comes with 2 reference channels:

- each switch has 102 physical channels
- REF #1 is assigned to physical ch 1
- REF #2 is assigned to physical ch 52
- the displayed channels in the *MEASURE*, *CONFIG* and *PLOTS* are adjusted accordingly
 - EOTS ch 1 = physical ch 2
 - EOTS ch 2 = physical ch 3
 - ..
 - EOTS ch 51 = physical ch 53
 - ..
- REF #1 compensates for EOTS ch 1-50
- REF #2 compensates for EOTS ch 51-100

Getting Started with the EOTS Software

3. Software Initial Setup

3.3. Managing Reference Lengths and System IL

- Click on the *CONFIG* tab to set the lengths of each switch and measure the system IL.

The screenshot shows the JGR Environmental Optical Test System software interface. The left sidebar contains the following menu items: MEASURE, SETTINGS, HARDWARE, CONFIG (highlighted with a red arrow), and PLOTS. The main window is divided into several panels. The 'MANAGE REFERENCES' panel is highlighted with a red box. It contains the following fields and controls:

- Switch:** OUTPUT (LAUNCH) (dropdown menu)
- Length:** Launch Length (dropdown menu)
- Select Channels to Reference:** (text input field) **Measure** (button)
- Enter Length:** (text input field) **Fill Selected** (button)
- Output (Launch) IL:** **Measure** (button)
- 1.27/1.13** (displayed value)
- UPC Stub:** (text input field)

The 'MANAGE REFERENCES' panel also includes a table with the following columns: Ch., Launch Length (m), Receive Length (m), and MTJ Length (m). The table contains 11 rows of data, all of which are NaN.

Ch.	Launch Length (m)	Receive Length (m)	MTJ Length (m)
1	NaN	NaN	NaN
2	NaN	NaN	NaN
3	NaN	NaN	NaN
4	NaN	NaN	NaN
5	NaN	NaN	NaN
6	NaN	NaN	NaN
7	NaN	NaN	NaN
8	NaN	NaN	NaN
9	NaN	NaN	NaN
10	NaN	NaN	NaN
11	NaN	NaN	NaN

The 'MANAGE DUTS' panel is also visible, showing fields for Part Number, Fiber Type, Fiber Count, and Specifications (IL, RL_A, RL_B, RL_{TOTAL} in dB). The 'Profiles' panel shows a list of profiles with 'default' selected. The status bar at the bottom indicates: Status: Iterations: 1, Reflectance Type: SINGLE, Alarms Enabled? False.

Getting Started with the EOTS Software

3. Software Initial Setup

3.3. Managing Reference Lengths and System IL

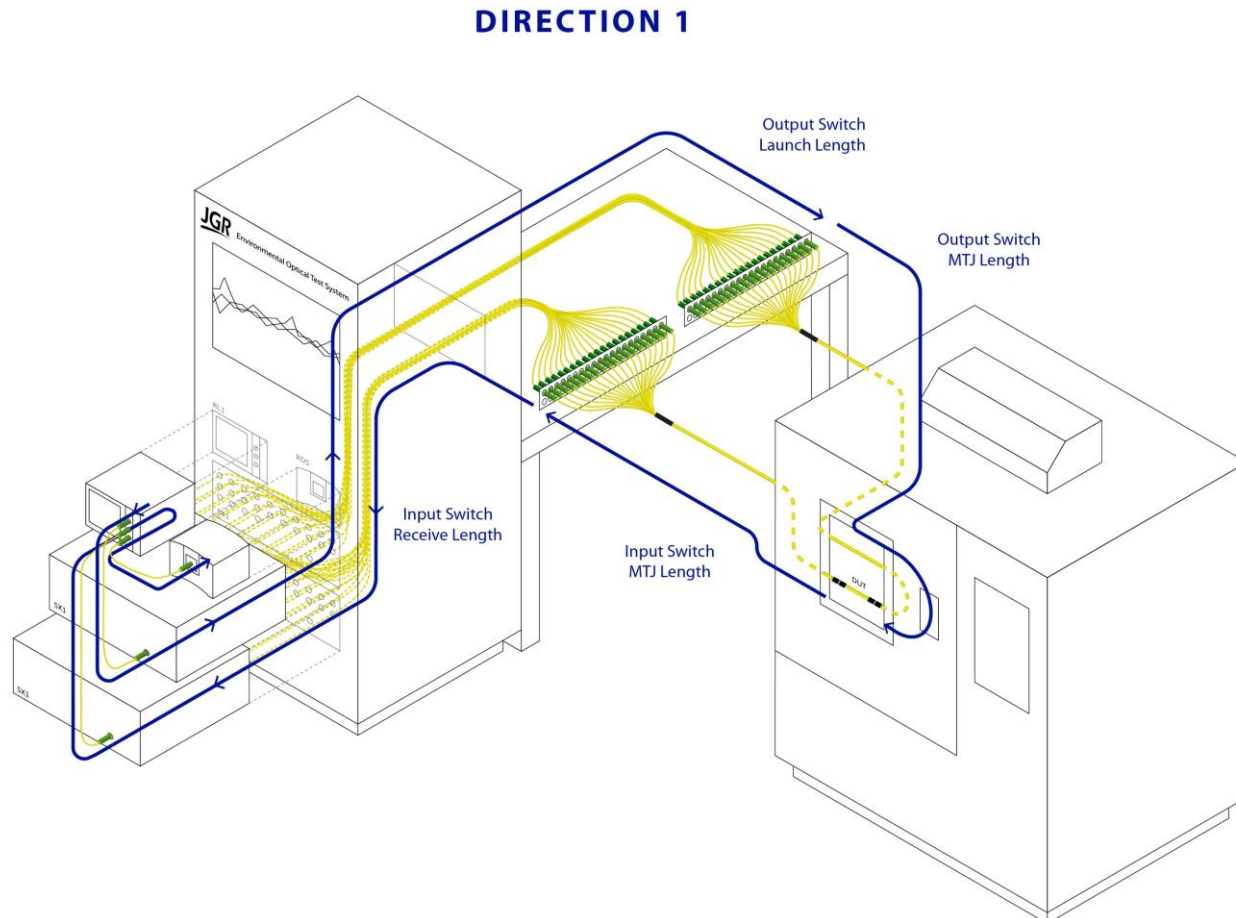
- The definition of the different lengths are shown in the following pages. They are the reference lengths for RL_A and RL_B .
- In the case of a bidirectional RL1 (ex: RL1-**2X**-3050-S-09FA):
 - each switch must have defined launch and receive lengths
- In the case of a single output RL1 (ex: RL1-**01**-3050-S-09FA):
 - the launch switch must have a defined launch length
 - the receive switch (or fanout) must have a defined receive length
- Each switch must have a defined MTJ length.

Getting Started with the EOTS Software

3. Software Initial Setup

3.4. Length Definitions

Pigtail configuration:

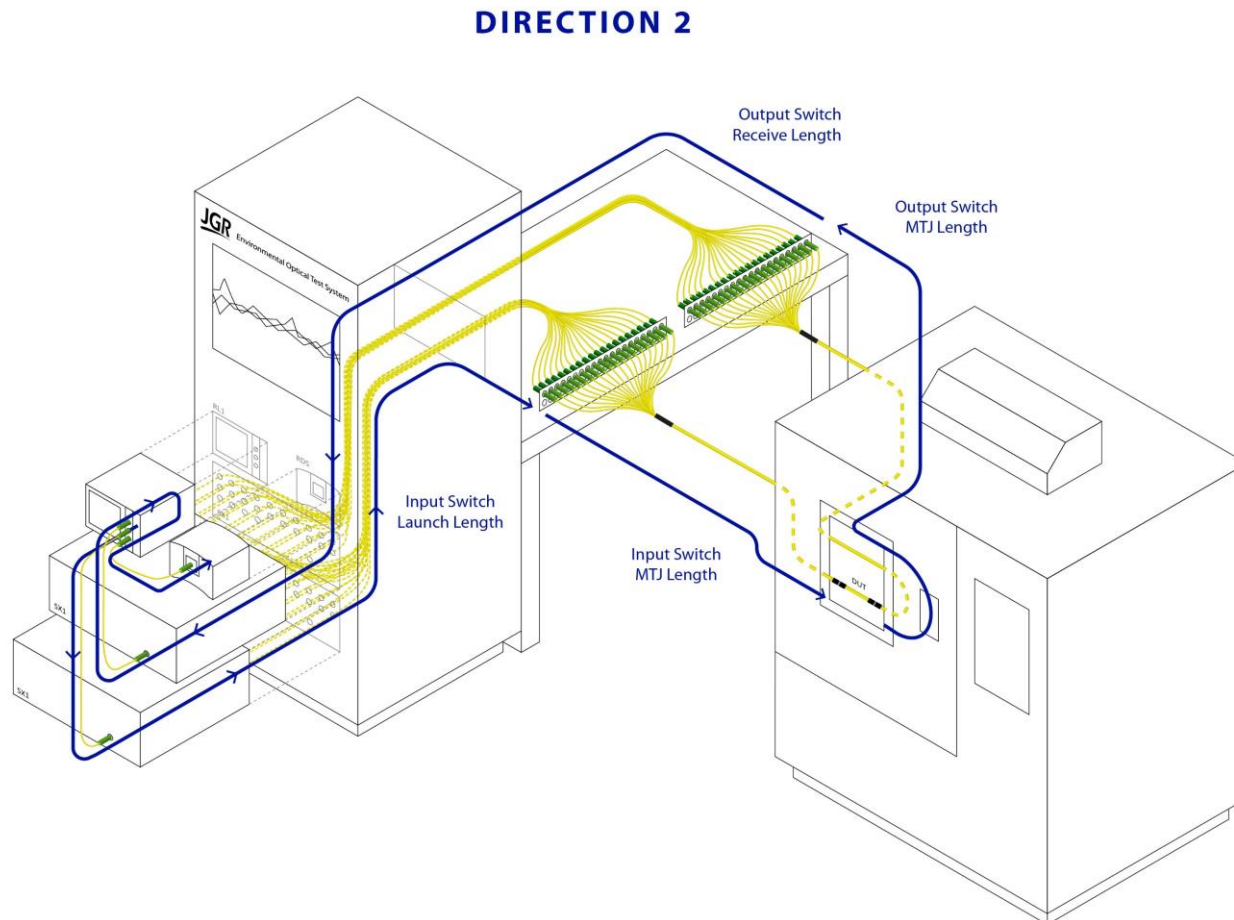


Getting Started with the EOTS Software

3. Software Initial Setup

3.4. Length Definitions

Pigtail configuration:

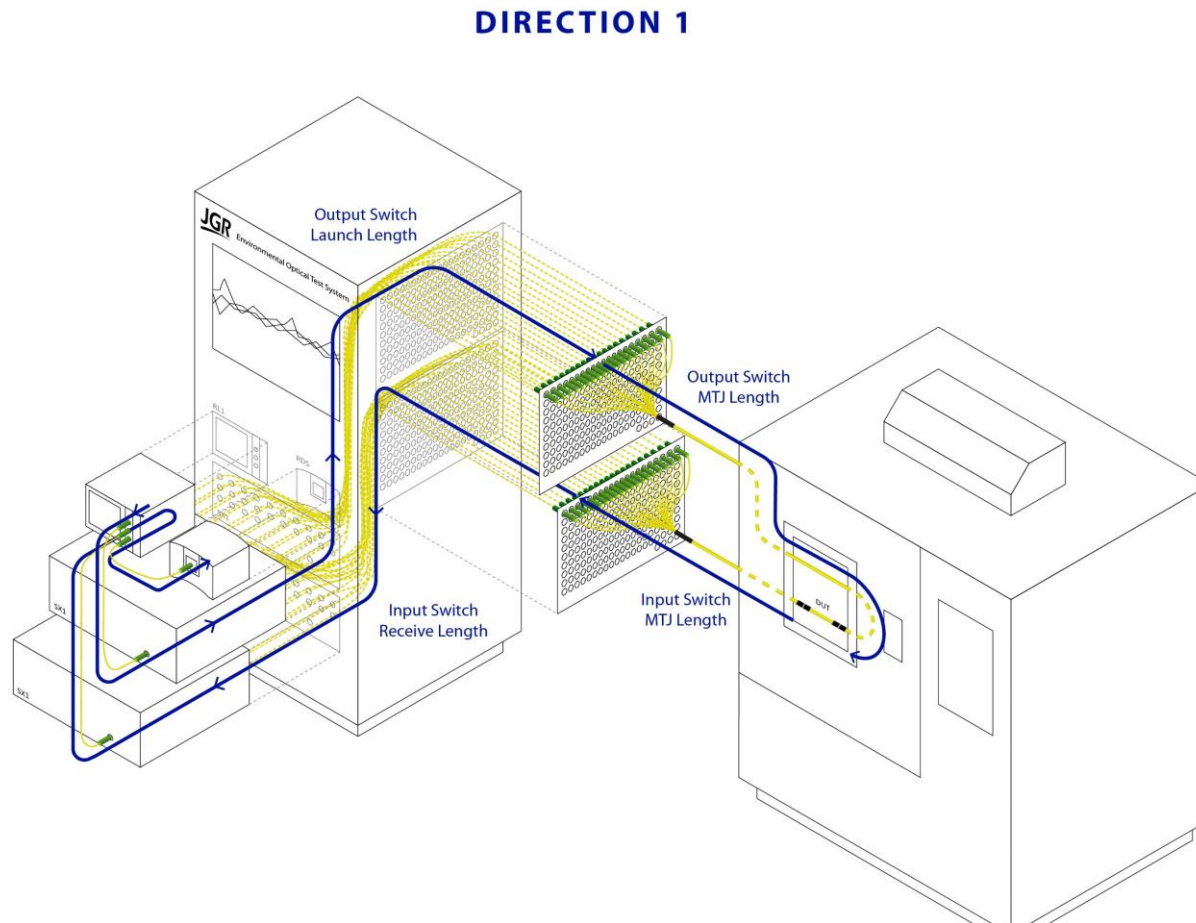


Getting Started with the EOTS Software

3. Software Initial Setup

3.4. Length Definitions

Side panel configuration:

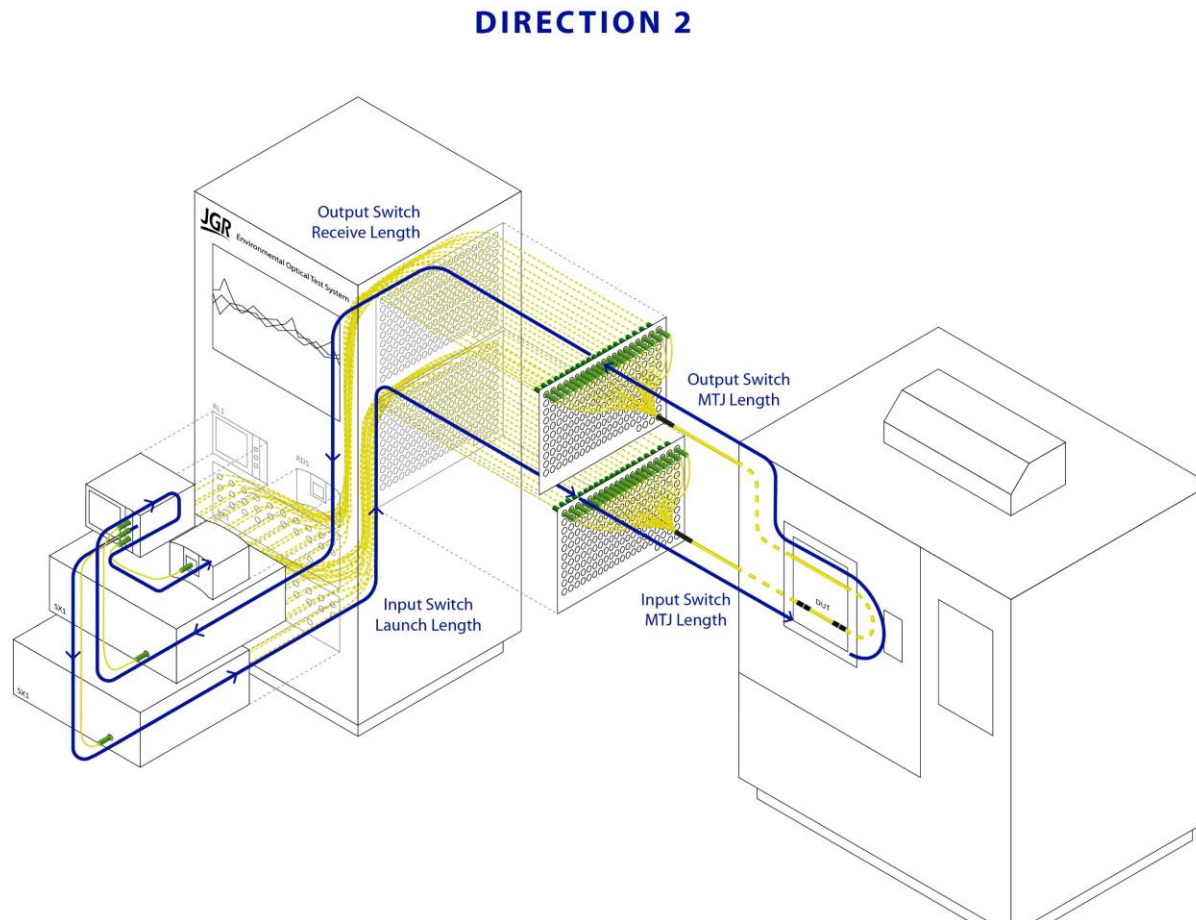


Getting Started with the EOTS Software

3. Software Initial Setup

3.4. Length Definitions

Side panel configuration:

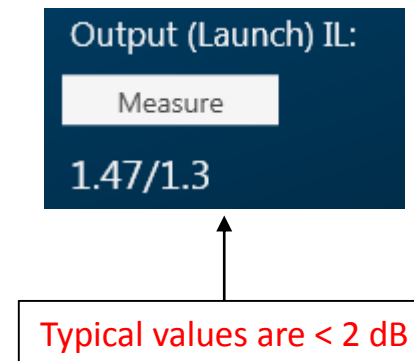
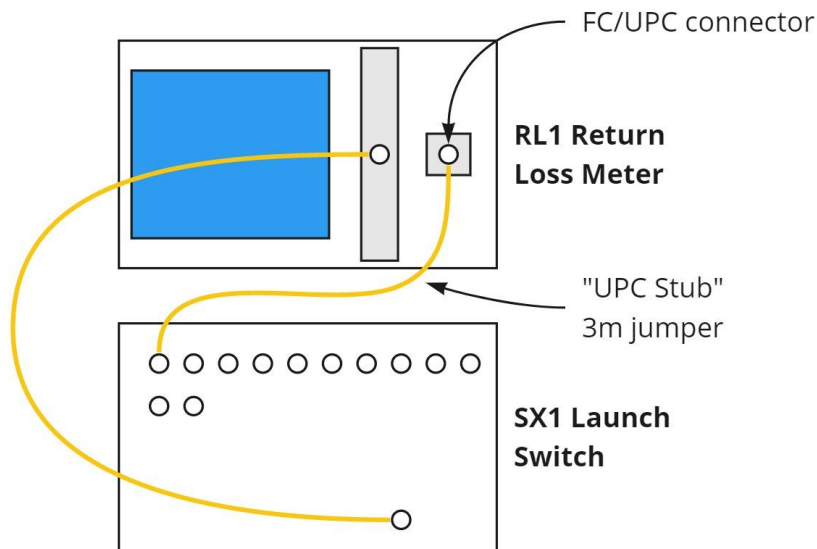


Getting Started with the EOTS Software

3. Software Initial Setup

3.5. Direction 1 Length References and System IL

- It is recommended to use a 3m jumper with a flat polish (PC) connector for the length referencing.
- Alternatively, an APC jumper can be used. Putting on a dust cap will increase the reflection and may help in cases where there is some uncertainty.
- Inspect and connect the UPC stub from launch ch 1 to the detector and measure the *Output (Launch) IL*.



Getting Started with the EOTS Software

3. Software Initial Setup

3.5. Direction 1 Length References and System IL

- Without changing the optical connections measure the launch length of the output switch on ch 1.

Switch: OUTPUT (LAUNCH) ▾

Length: Launch Length ▾

Select Channels to Reference:

1 → Measure

Ch.	Launch Length (m)	Receive Length (m)	MTJ Length (m)
1	6.4	NaN	NaN
2	NaN	NaN	NaN
3	NaN	NaN	NaN
4	NaN	NaN	NaN
5	NaN	NaN	NaN

- Repeat the previous point for each channel or enter manually if the lengths are known.

Switch: OUTPUT (LAUNCH) ▾

Length: Launch Length ▾

Select Channels to Reference:

2-11 → Measure

Enter Length:

6.4 → Fill Selected

Output (Launch) IL:

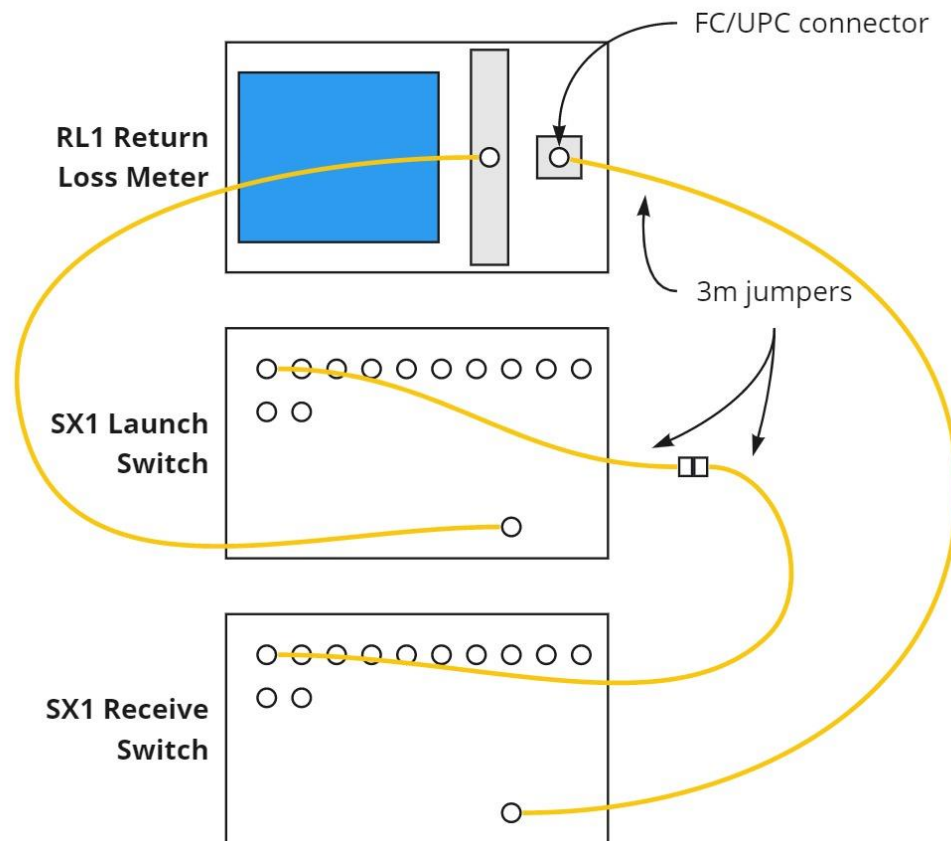
Ch.	Launch Length (m)	Receive Length (m)	MTJ Length (m)
1	6.4	NaN	NaN
2	6.4	NaN	NaN
3	6.4	NaN	NaN
4	6.4	NaN	NaN
5	6.4	NaN	NaN
6	6.4	NaN	NaN
7	6.4	NaN	NaN
8	6.4	NaN	NaN
9	6.4	NaN	NaN
10	6.4	NaN	NaN
11	6.4	NaN	NaN

Getting Started with the EOTS Software

3. Software Initial Setup

3.5. Direction 1 Length References and System IL

- If using a receive switch, inspect and connect two 3m jumpers between the launch switch ch 1 and receive switch ch 1.

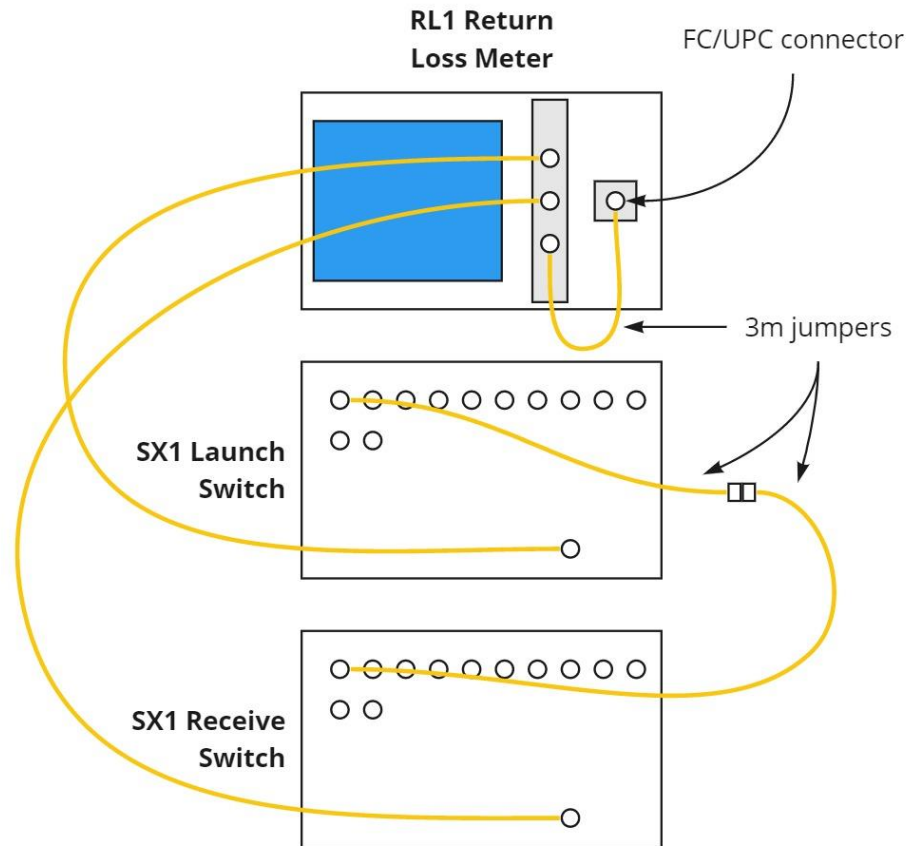


Getting Started with the EOTS Software

3. Software Initial Setup

3.5. Direction 1 Length References and System IL

- Connection diagram for a 2X RL1:



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3. Software Initial Setup

3.5. Direction 1 Length References and System IL

- Measure the receive length of the input switch on ch 1.

Switch: INPUT (RECEIVE) ▾
Length: Receive Length ▾
Select Channels to Reference:
1 → Measure

Ch.	Launch Length (m)	Receive Length (m)	MTJ Length (m)
1	NaN	6.1	NaN
2	NaN	NaN	NaN
3	NaN	NaN	NaN
4	NaN	NaN	NaN
5	NaN	NaN	NaN
6	NaN	NaN	NaN

- Repeat for each channel or enter manually if the lengths are known.

Switch: INPUT (RECEIVE) ▾
Length: Receive Length ▾
Select Channels to Reference:
2-11 Measure

Enter Length:
6.1 → Fill Selected

Input (Receive) IL:

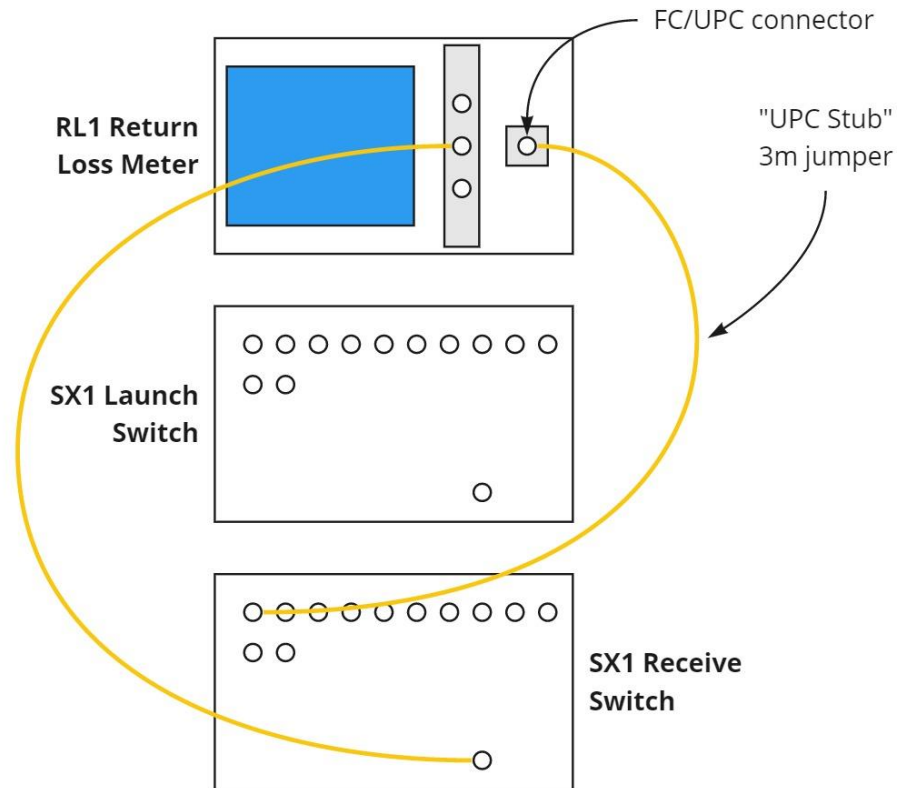
Ch.	Launch Length (m)	Receive Length (m)	MTJ Length (m)
1	NaN	6.1	NaN
2	NaN	6.1	NaN
3	NaN	6.1	NaN
4	NaN	6.1	NaN
5	NaN	6.1	NaN
6	NaN	6.1	NaN
7	NaN	6.1	NaN
8	NaN	6.1	NaN
9	NaN	6.1	NaN
10	NaN	6.1	NaN
11	NaN	6.1	NaN

Getting Started with the EOTS Software

3. Software Initial Setup

3.6. Direction 2 Length References and System IL

- Direction 2 is **only applicable** for a **bidirectional** (2X) RL1.
 - For a single output RL1, skip 3.6. and go to section 4.
- Connect the 3m jumper from the receive switch ch 1 to the detector.



Getting Started with the EOTS Software

3. Software Initial Setup

3.6. Direction 2 Length References and System IL

- Measure the *Input (Receive) IL*.

Input (Receive) IL:

Measure

1.12/1.06/1.05/1.32

↑

Typical values are < 2 dB

- Measure the launch length of the input switch on ch 1.

Switch: INPUT (RECEIVE) ▾

Length: Launch Length ▾

Select Channels to Reference:

1 → Measure

Ch.	Launch Length (m)	Receive Length (m)	MTJ Length (m)
1	6.65	6.1	NaN
2	NaN	6.1	NaN
3	NaN	6.1	NaN
4	NaN	6.1	NaN
5	NaN	6.1	NaN

Getting Started with the EOTS Software

3. Software Initial Setup

3.6. Direction 2 Length References and System IL

- Repeat the previous point for each channel or enter manually if the lengths are known.

Switch: INPUT (RECEIVE) ▾

Length: Launch Length ▾

Select Channels to Reference:

2-11 Measure

Enter Length:

6.65 → Fill Selected

Input (Receive) IL:

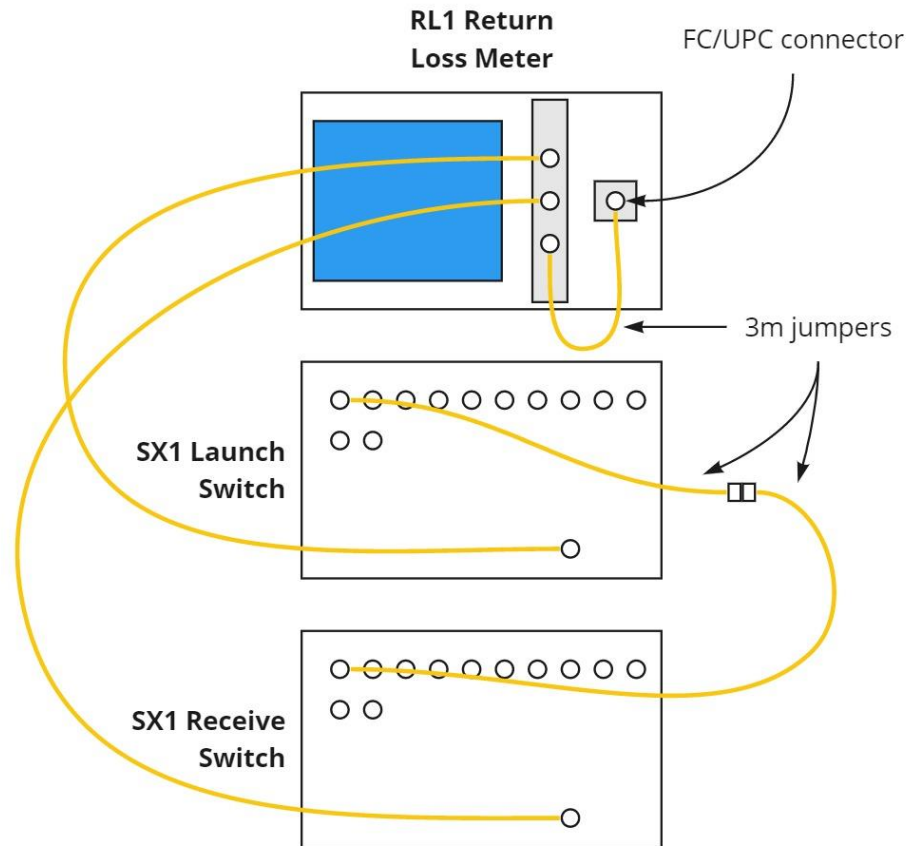
Ch.	Launch Length (m)	Receive Length (m)	MTJ Length (m)
1	6.65	6.1	NaN
2	6.65	6.1	NaN
3	6.65	6.1	NaN
4	6.65	6.1	NaN
5	6.65	6.1	NaN
6	6.65	6.1	NaN
7	6.65	6.1	NaN
8	6.65	6.1	NaN
9	6.65	6.1	NaN
10	6.65	6.1	NaN
11	6.65	6.1	NaN

Getting Started with the EOTS Software

3. Software Initial Setup

3.6. Direction 2 Length References and System IL

- Connect two 3m jumpers between the launch switch ch 1 and receive switch ch 1.



Getting Started with the EOTS Software

3. Software Initial Setup


3.6. Direction 2 Length References and System IL

- Measure the receive length of the output switch on ch 1.

Switch:

Length:

Select Channels to Reference:



Ch.	Launch Length (m)	Receive Length (m)	MTJ Length (m)
1	6.4	17.95	NaN
2	6.4	NaN	NaN
3	6.4	NaN	NaN
4	6.4	NaN	NaN
5	6.4	NaN	NaN
6	6.4	NaN	NaN


- Repeat for each channel or enter manually if the lengths are known.

Switch:

Length:

Select Channels to Reference:

Enter Length:



Output (Launch) IL:

Ch.	Launch Length (m)	Receive Length (m)	MTJ Length (m)
1	6.4	17.95	NaN
2	6.4	17.95	NaN
3	6.4	17.95	NaN
4	6.4	17.95	NaN
5	6.4	17.95	NaN
6	6.4	17.95	NaN
7	6.4	17.95	NaN
8	6.4	17.95	NaN
9	6.4	17.95	NaN
10	6.4	17.95	NaN
11	6.4	17.95	NaN

Getting Started with the EOTS Software

4. Setting Up a Test

4.1. MTJ Length References

Press ALT + S to exit supervisor mode and lock the launch and receive lengths. These lengths should be fixed unless hardware is changed.

The MTJ lengths can be easily adjusted if the reference cables leading to the environmental chamber are changed by one of the following methods:

1. enter manually if the MTJ lengths are known
2. connect the reference cable and leave open to air then measure with the RL1
3. connect a UPC stub of known length and leave open to air then measure with the RL1 in cases of uncertainty

(see next page)

Getting Started with the EOTS Software

4. Setting Up a Test

4.1. MTJ Length References

MANAGE REFERENCES

Switch:

Length:

Select Channels to Reference:

Enter Length:

Output (Launch) IL:

1.42/1.34/1.36/1.73

UPC Stub:

Ch.	Launch Length (m)	Receive Length (m)	MTJ Length (m)
1	6.4	17.95	3
2	6.4	17.95	NaN
3	6.4	17.95	NaN
4	6.4	17.95	NaN
5	6.4	17.95	NaN
6	6.4	17.95	NaN
7	6.4	17.95	NaN
8	6.4	17.95	NaN
9	6.4	17.95	NaN
10	6.4	17.95	NaN

Channel selection
Ex: 1,2,5 or 1-10

Manual length (in m) entry

Optional UPC stub length (in m)

Getting Started with the EOTS Software

4. Setting Up a Test

4.2. Create a DUT

Click *New* and fill in the DUT parameters then click *Save*. Specifications can be left blank.

MANAGE DUTS

Part Number

Fiber Type

Fiber Count

Specifications

IL	<input type="text" value="0.1"/>	dB	RL _A	<input type="text" value="55"/>	dB
			RL _B	<input type="text" value="45"/>	dB
			RL _{TOTAL}	<input type="text" value="45"/>	dB

Getting Started with the EOTS Software

4. Setting Up a Test

4.3. Review Settings

- Click on the *SETTINGS* tab and select measurement settings.

JGR Environmental Optical Test System

Reference
Measurement

Normal
Mechanical

MEASURE SETTINGS HARDWARE CONFIG PLOTS

TEST SETTINGS

Save File: C:\Users\JGR\Documents\test.sqlite [Browse]

☐ Enable Alarms [Configure Email]

☐ Auto Map DUT on Insert

[Configure Thermometer]

☒ Start Measurement After Ref

☐ Pause At End Of Sequence

Stabilize 2x2
Minutes: 0

☒ Iteration Test
Iterations: 1

☐ Duration Test
Minutes: 0
Hours: 24
Days: 0

☒ Min Sequence Time
Seconds: 0
Minutes: 10
Hours: 0

☐ Command Delay
Seconds: 0
Minutes: 0
Hours: 0

REFERENCE CHANNELS

REF #1: 1 REF #3: 0 SPLICE: 0

REF #2: 0 REF #4: 0 ☐ Disable IL Reference Channels

REFLECTANCE OPTIONS

Reflectance Measurement Mode:
☐ Total
☒ Dual
☐ Single

Averages:
☒ Fast
☐ Standard

CUSTOM HEADERS

Number of Custom Headers: 1

Row Headers

Annotations:

- The test will run for 24 hour, measuring every 10 min
- Total includes connector + fiber
Dual measures RL_A and RL_B separately
Single only measures RL_A
(acquisition time is the same for all)
- Fast mode < 1.5 s per RL acquisition up to 75 dB
Standard mode < 5 s per RL acquisition up to 85 dB

Status: Duration: 1d, ----- Reflectance Type: DUAL, ----- Alarms Enabled? False

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Getting Started with the EOTS Software

4. Setting Up a Test

4.4. Create a Test Sequence

- Click on the *MEASURE* tab and select test parameters then click *Insert*

The screenshot shows the JGR Environmental Optical Test System software interface. The left sidebar contains a menu with the following items: MEASURE (highlighted with a red arrow), SETTINGS, HARDWARE, CONFIG, and PLOTS. The main window is divided into several sections:

- Top Bar:** Includes the JGR logo, "Environmental Optical Test System", and radio buttons for "Reference" (selected) and "Measurement". There are also play, pause, and stop icons, and radio buttons for "Normal" (selected) and "Mechanical".
- Wavelengths:** Checkboxes for 1310, 1490, 1550, and 1625 nm. 1310 and 1550 are checked.
- Test Type:** Checkboxes for IL (checked) and RL.
- Directions:** Radio buttons for "Single" (selected) and "BiDirectional".
- DUT:** A dropdown menu showing "FC/APC to FC/".
- Profiles:** A list on the left showing "default". A "Save Profile" button is at the bottom.
- Task List:** A table with columns: Wavelength, Test Type, DUT, DUT Fiber, Output Switch, Input Switch, Result, and an empty column. It contains four rows of test data.
- Current Results:** A table with columns: DUT, DUT Fiber, Output Switch, Input Switch, IL@1310, RL@1310, RLb@1310, IL@1550, and RL@1550. The first row shows "FC/APC to FC/UPC (1)-1" with values of 1 for DUT Fiber, Output Switch, and Input Switch.
- Insert Button:** A button labeled "Insert" is circled in red.

At the bottom of the window, there is a status bar with the text: "Status: Duration: 1d, ----- Reflectance Type: DUAL, ----- Alarms Enabled? False".

Wavelength	Test Type	DUT	DUT Fiber	Output Switch	Input Switch	Result	
1310	IL	FC/APC to FC/UPC (1)-1	1	1	1		
1310	RL	FC/APC to FC/UPC (1)-1	1	1	1		
1550	IL	FC/APC to FC/UPC (1)-1	1	1	1		
1550	RL	FC/APC to FC/UPC (1)-1	1	1	1		

DUT	DUT Fiber	Output Switch	Input Switch	IL@1310	RL@1310	RLb@1310	IL@1550	RL@1550
FC/APC to FC/UPC (1)-1	1	1	1					

Getting Started with the EOTS Software

4. Setting Up a Test

4.4. Create a Test Sequence

- Multiple DUTs can be entered in the sequence.

The screenshot displays the JGR Environmental Optical Test System software interface. The left sidebar contains navigation options: MEASURE, SETTINGS, HARDWARE, CONFIG, and PLOTS. The main workspace is divided into several sections:

- Top Bar:** Includes the JGR logo, mode selection (Reference, Measurement), playback controls (play, pause, stop), and test type selection (Normal, Mechanical).
- Settings:** Wavelengths (1310, 1490, 1550, 1625), Test Type (IL, RL), Directions (Single, BiDirectional), and DUT (FC/APC to FC/).
- Task List:** A table showing the sequence of tests. The 'DUT' column uses an incremental integer to differentiate tests with the same name.
- Current Results:** A table showing the results of the tests.

A red callout box points to the 'DUT' column in the 'Current Results' table, stating: "DUTs with the same name get differentiated by an incremental integer".

Wavelength	Test Type	DUT	DUT Fiber	Output Switch	Input Switch	Result
1310	IL	FC/APC to FC/UPC (1)-1	1	1	1	
1310	RL	FC/APC to FC/UPC (1)-1	1	1	1	
1550	IL	FC/APC to FC/UPC (1)-1	1	1	1	
1550	RL	FC/APC to FC/UPC (1)-1	1	1	1	
1310	IL	FC/APC to FC/UPC (1)-2	1	2	2	
1310	RL	FC/APC to FC/UPC (1)-2	1	2	2	
1550	IL	FC/APC to FC/UPC (1)-2	1	2	2	
1550	RL	FC/APC to FC/UPC (1)-2	1	2	2	
1310	IL	FC/APC to FC/UPC (1)-3	1	3	3	
1310	RL	FC/APC to FC/UPC (1)-3	1	3	3	
1550	IL	FC/APC to FC/UPC (1)-3	1	3	3	
1550	RL	FC/APC to FC/UPC (1)-3	1	3	3	

DUT	DUT Fiber	Output Switch	Input Switch	IL@1310	RL@1310	RLb@1310	IL@1550	RLa@1
FC/APC to FC/UPC (1)-1	1	1	1					
FC/APC to FC/UPC (1)-2	1	2	2					
FC/APC to FC/UPC (1)-3	1	3	3					

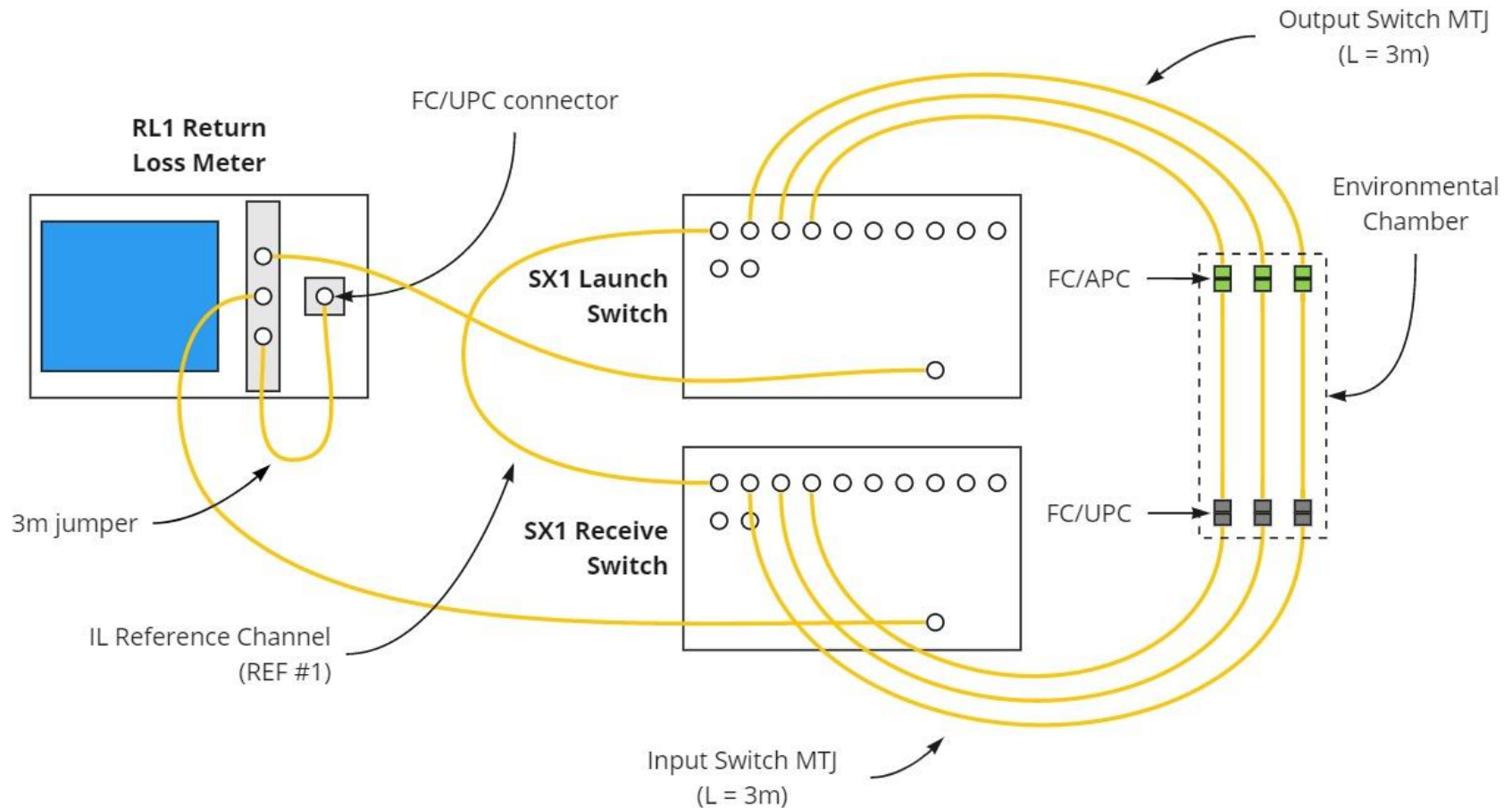
Status: Duration: 1d, ----- Reflectance Type: DUAL, ----- Alarms Enabled? False

Getting Started with the EOTS Software

4. Setting Up a Test

4.5. Start a Test

- Connect the DUTs fully then click on 
- For the test sequence of the previous page (with *REF #1* = 1), the optical connections are:

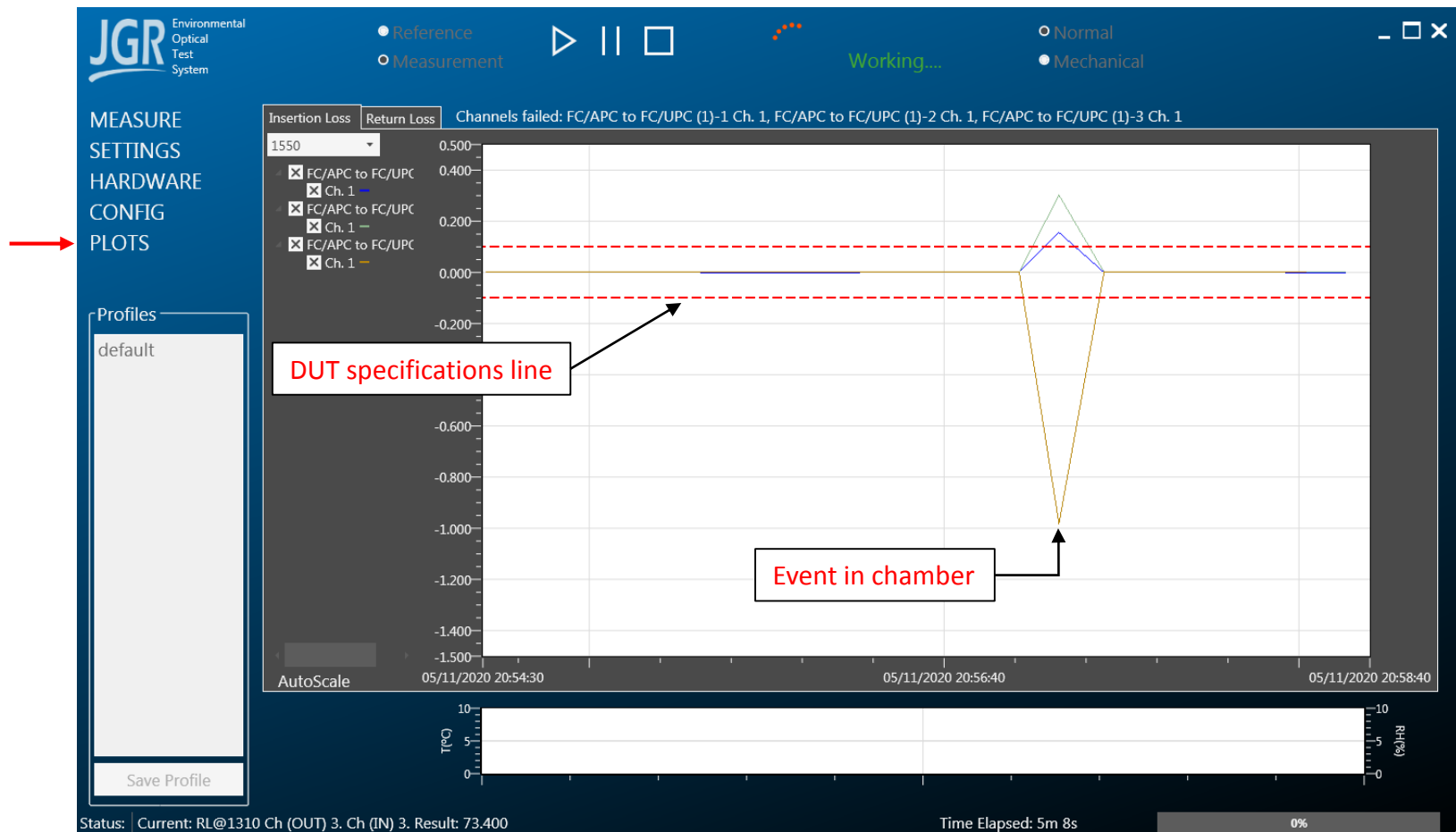


Getting Started with the EOTS Software

4. Setting Up a Test

4.6. Monitor Results in Real-time

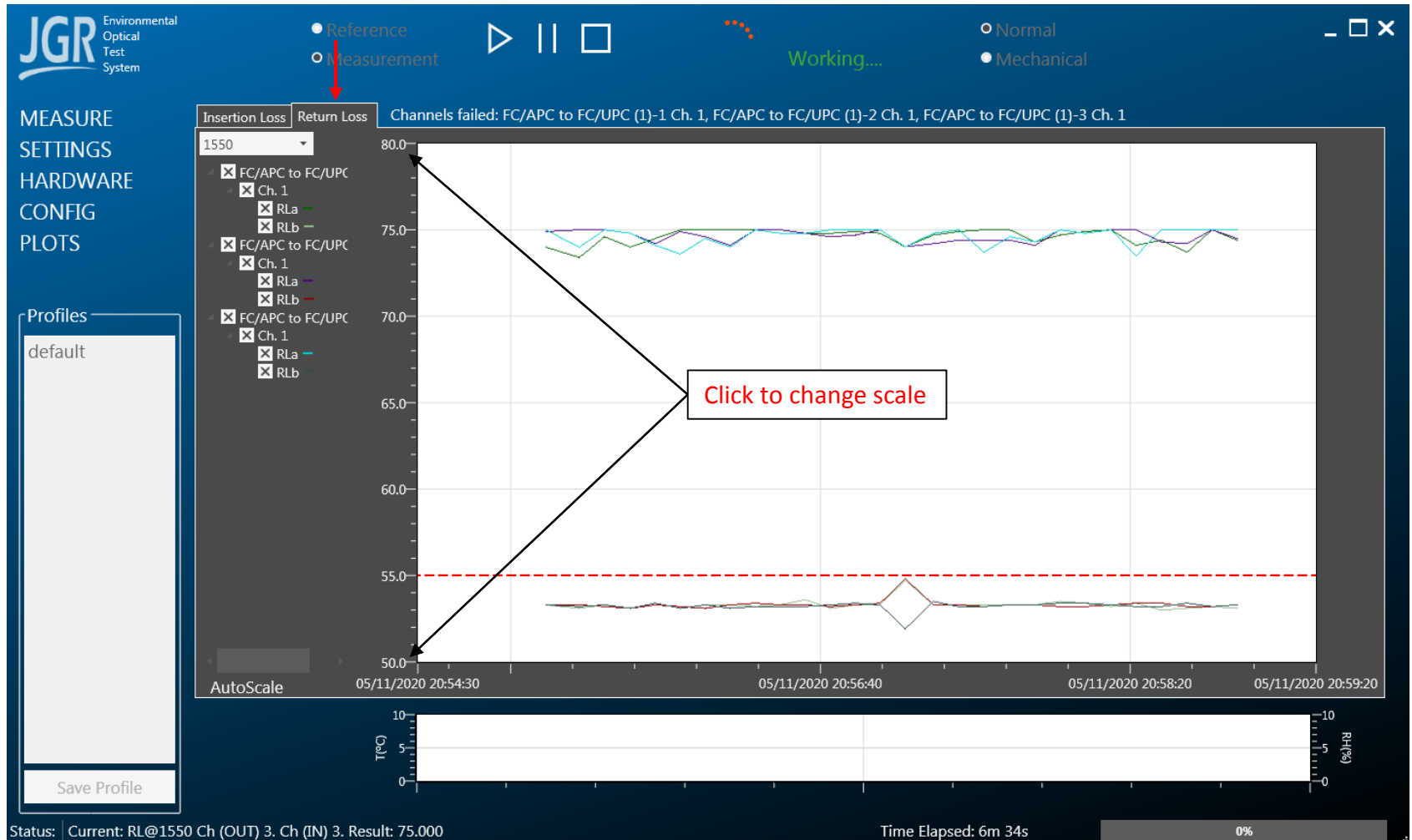
- Click on the *PLOTS* tab to view real-time graphs of the results



Getting Started with the EOTS Software

4. Setting Up a Test

4.6. Monitor Results in Real-time

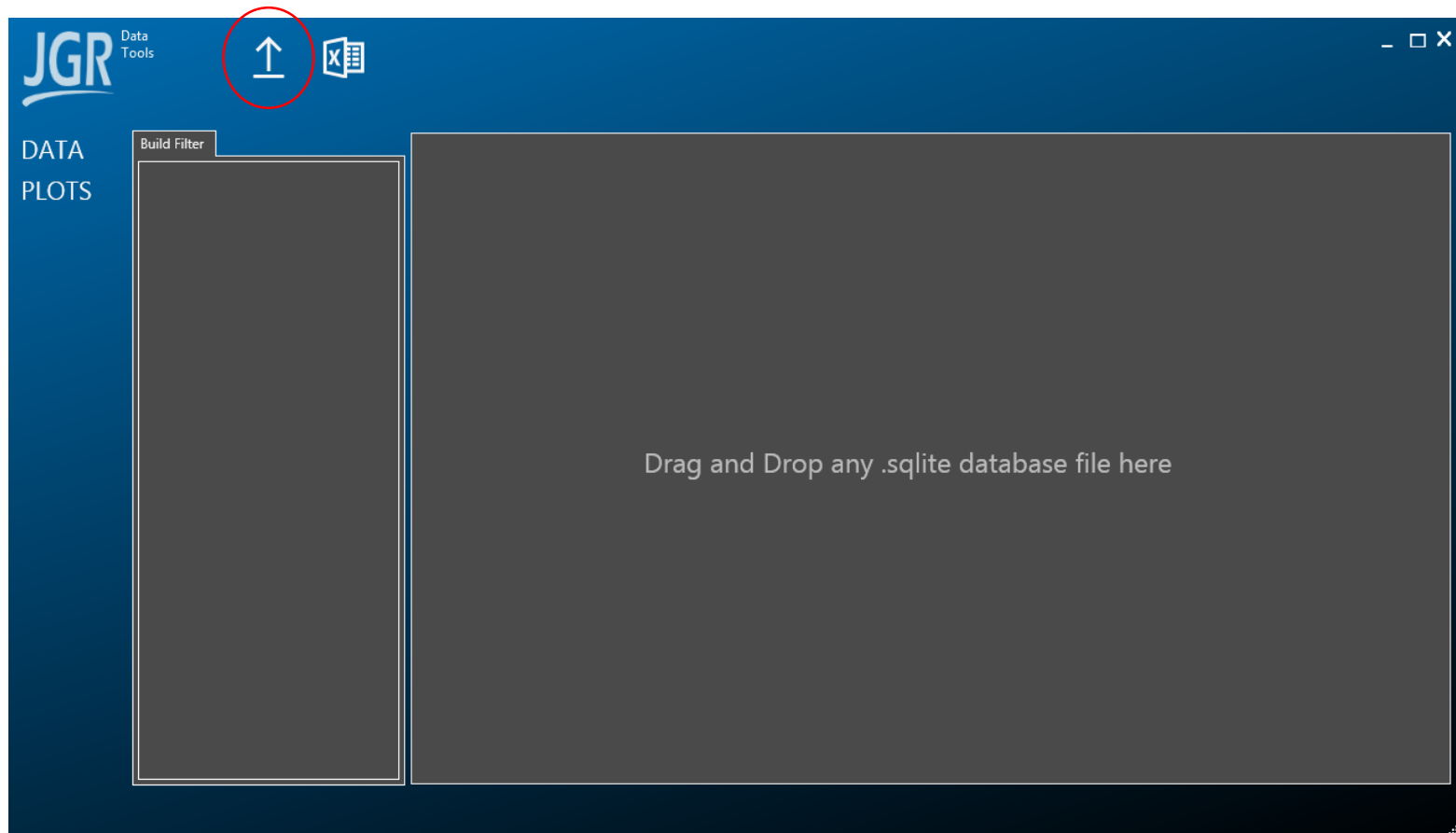


Getting Started with the EOTS Software

5. Viewing and Exporting Data

5.1. Load Data in Data Tools

- Open JGR Data Tools then click on the icon below to load an .sqlite file.



Getting Started with the EOTS Software

5. Viewing and Exporting Data

5.2. View Data in Data Tools

- Results can be viewed in table form.

The screenshot displays the JGR Data Tools application window. On the left, there is a 'DATA PLOTS' sidebar with a 'Build Filter' section containing various filter categories like Date, Wavelength, DUTName, Fiber, Direction, InputSwitch, OutputSwitch, Status, and TestType, each with an 'All' option and a trash icon. The main area shows a table of test results. A red arrow points to the 'results' tab in the table's header. The table has columns for diagnostic reference, results, and mechanical details. The data rows show test results for various configurations, including Date, Time, Wavelength, DUTName, Fiber, Direction, InputSwitch, OutputSwitch, Temperature, Humidity, Status, TestType, and Result.

	diagnosticrefch	diagnosticreference	results	mech											
	Id	Date	Time	Wavelength	DUTName	Fiber	Direction	InputSwitch	OutputSwitch	Temperature	Humidity	Status	TestType	Result	
1	05/11/2020	15:54:31	1310	FC/APC to FC/UPC (1)-1	1	1	1	1	1	--	--	PASS	IL	0	
2	05/11/2020	15:54:31	1310	FC/APC to FC/UPC (1)-1	1	1	1	1	1	--	--	PASS	RLa	72.901	
3	05/11/2020	15:54:31	1310	FC/APC to FC/UPC (1)-1	1	1	1	1	1	--	--	PASS	RLb	52.301	
4	05/11/2020	15:54:31	1550	FC/APC to FC/UPC (1)-1	1	1	1	1	1	--	--	PASS	IL	0	
5	05/11/2020	15:54:31	1550	FC/APC to FC/UPC (1)-1	1	1	1	1	1	--	--	PASS	RLa	74	
6	05/11/2020	15:54:31	1550	FC/APC to FC/UPC (1)-1	1	1	1	1	1	--	--	PASS	RLb	53.3	
7	05/11/2020	15:54:31	1310	FC/APC to FC/UPC (1)-2	1	1	2	2	2	--	--	PASS	IL	0.001	
8	05/11/2020	15:54:31	1310	FC/APC to FC/UPC (1)-2	1	1	2	2	2	--	--	PASS	RLa	74.101	
9	05/11/2020	15:54:31	1310	FC/APC to FC/UPC (1)-2	1	1	2	2	2	--	--	PASS	RLb	52.401	
10	05/11/2020	15:54:31	1550	FC/APC to FC/UPC (1)-2	1	1	2	2	2	--	--	PASS	IL	0.001	
11	05/11/2020	15:54:31	1550	FC/APC to FC/UPC (1)-2	1	1	2	2	2	--	--	PASS	RLa	74.9	
12	05/11/2020	15:54:31	1550	FC/APC to FC/UPC (1)-2	1	1	2	2	2	--	--	PASS	RLb	53.3	
13	05/11/2020	15:54:31	1310	FC/APC to FC/UPC (1)-3	1	1	3	3	3	--	--	PASS	IL	0.002	
14	05/11/2020	15:54:31	1310	FC/APC to FC/UPC (1)-3	1	1	3	3	3	--	--	PASS	RLa	73.501	
15	05/11/2020	15:54:31	1310	FC/APC to FC/UPC (1)-3	1	1	3	3	3	--	--	PASS	RLb	52.301	
16	05/11/2020	15:54:31	1550	FC/APC to FC/UPC (1)-3	1	1	3	3	3	--	--	PASS	IL	0.001	
17	05/11/2020	15:54:31	1550	FC/APC to FC/UPC (1)-3	1	1	3	3	3	--	--	PASS	RLa	75	
18	05/11/2020	15:54:31	1550	FC/APC to FC/UPC (1)-3	1	1	3	3	3	--	--	PASS	RLb	53.3	
19	05/11/2020	15:54:50	1310	FC/APC to FC/UPC (1)-1	1	1	1	1	1	--	--	PASS	IL	0.001	
20	05/11/2020	15:54:50	1310	FC/APC to FC/UPC (1)-1	1	1	1	1	1	--	--	PASS	RLa	73.501	
21	05/11/2020	15:54:50	1310	FC/APC to FC/UPC (1)-1	1	1	1	1	1	--	--	PASS	RLb	52.201	
22	05/11/2020	15:54:50	1550	FC/APC to FC/UPC (1)-1	1	1	1	1	1	--	--	PASS	IL	0	
23	05/11/2020	15:54:50	1550	FC/APC to FC/UPC (1)-1	1	1	1	1	1	--	--	PASS	RLa	73.4	
24	05/11/2020	15:54:50	1550	FC/APC to FC/UPC (1)-1	1	1	1	1	1	--	--	PASS	RLb	53.1	
25	05/11/2020	15:54:50	1310	FC/APC to FC/UPC (1)-2	1	1	2	2	2	--	--	PASS	IL	0.001	
26	05/11/2020	15:54:50	1310	FC/APC to FC/UPC (1)-2	1	1	2	2	2	--	--	PASS	RLa	73.701	
27	05/11/2020	15:54:50	1310	FC/APC to FC/UPC (1)-2	1	1	2	2	2	--	--	PASS	RLb	52.401	
28	05/11/2020	15:54:50	1550	FC/APC to FC/UPC (1)-3	1	1	3	3	3	--	--	PASS	IL	0.001	

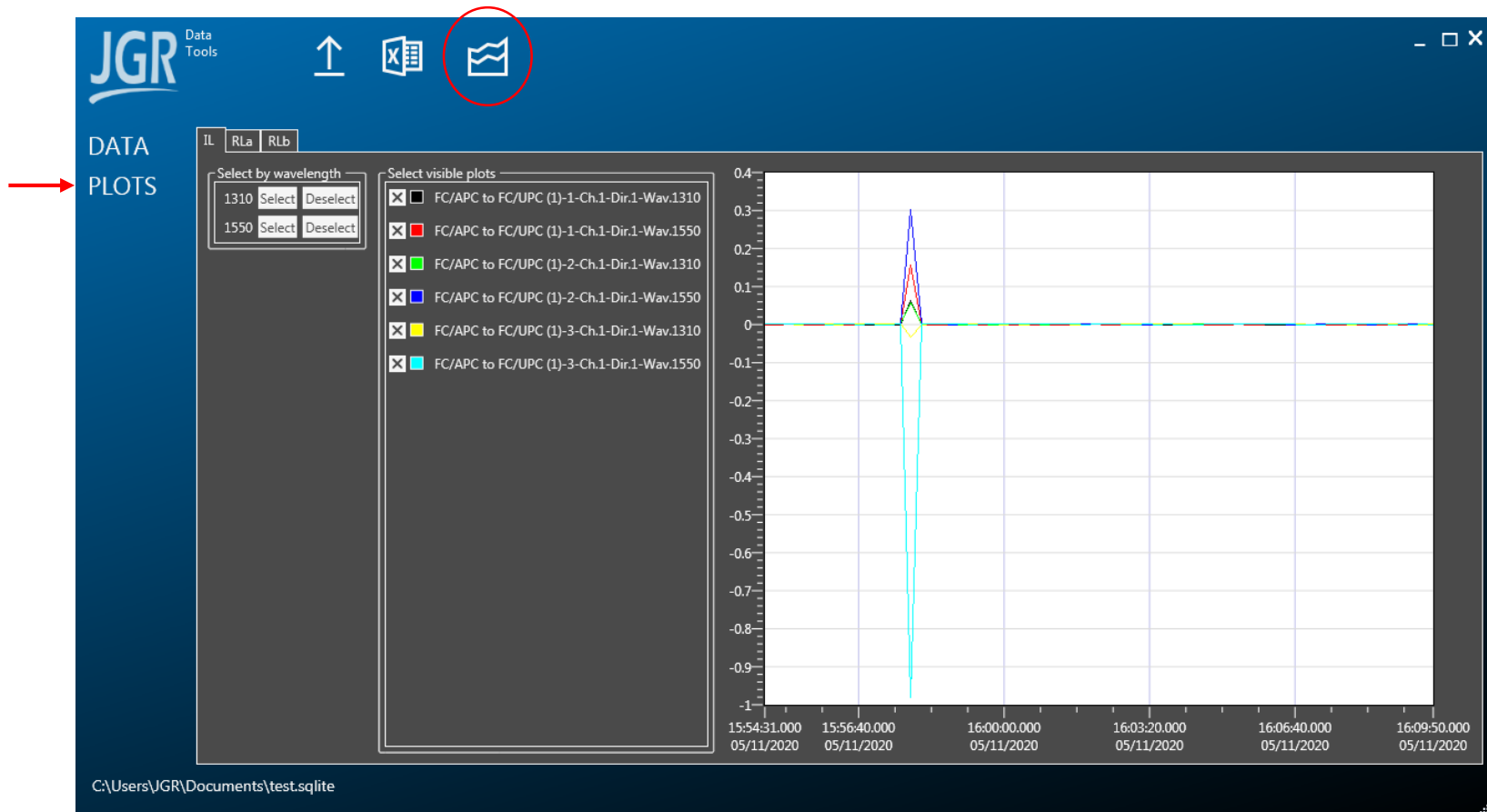
C:\Users\JGR\Documents\test.sqlite

Getting Started with the EOTS Software

5. Viewing and Exporting Data

5.2. View Data in Data Tools

- Click on *PLOTS* to view data plots.

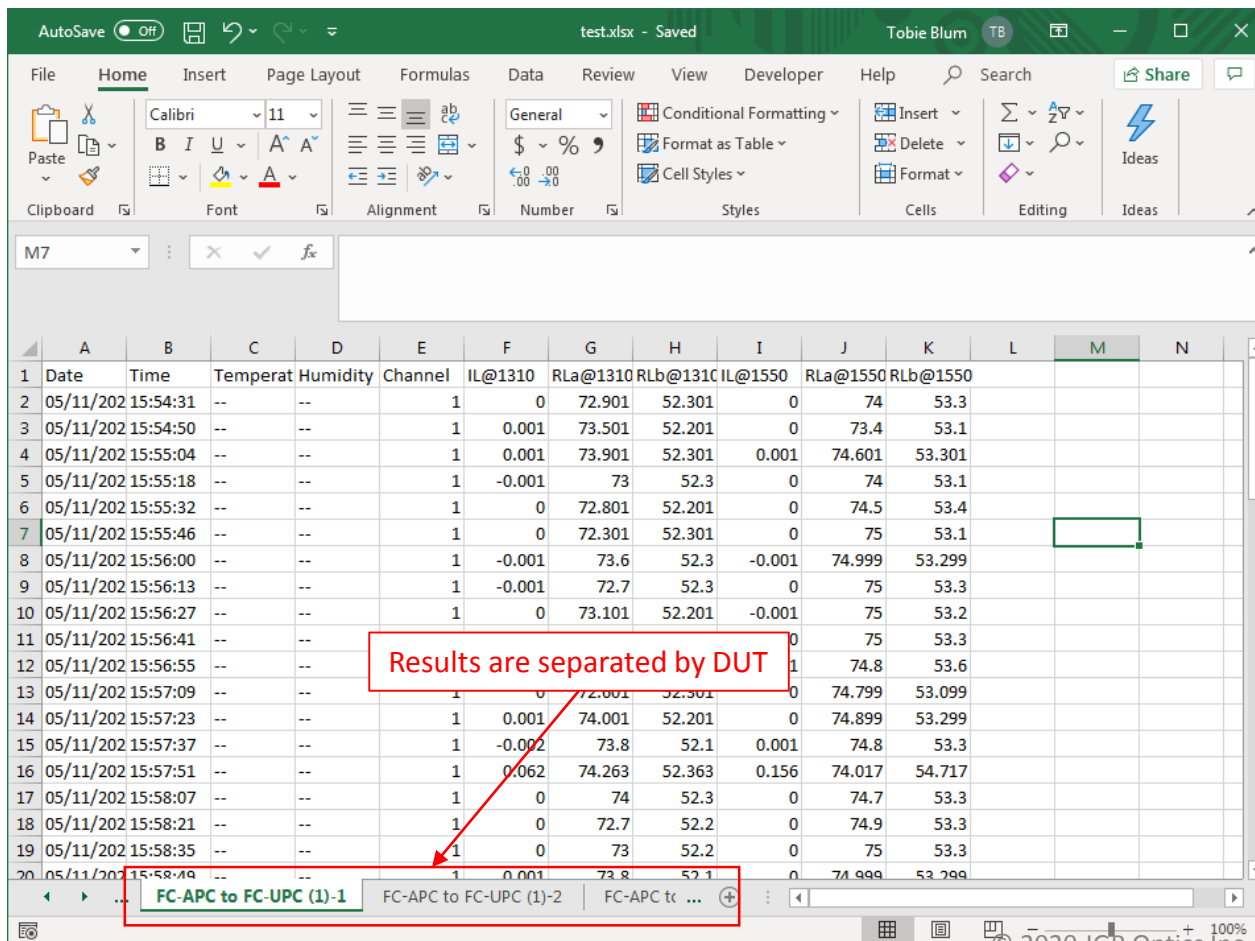


Getting Started with the EOTS Software

5. Viewing and Exporting Data

5.3. Export Data to Excel

- Click on  to export data to Microsoft Excel.



AutoSave Off test.xlsx - Saved Tobie Blum TB

File Home Insert Page Layout Formulas Data Review View Developer Help Search Share

Clipboard Font Alignment Number Styles Cells Editing Ideas

M7

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Date	Time	Temperat	Humidity	Channel	IL@1310	RLa@1310	RLb@1310	IL@1550	RLa@1550	RLb@1550			
2	05/11/202	15:54:31	--	--	1	0	72.901	52.301	0	74	53.3			
3	05/11/202	15:54:50	--	--	1	0.001	73.501	52.201	0	73.4	53.1			
4	05/11/202	15:55:04	--	--	1	0.001	73.901	52.301	0.001	74.601	53.301			
5	05/11/202	15:55:18	--	--	1	-0.001	73	52.3	0	74	53.1			
6	05/11/202	15:55:32	--	--	1	0	72.801	52.201	0	74.5	53.4			
7	05/11/202	15:55:46	--	--	1	0	72.301	52.301	0	75	53.1			
8	05/11/202	15:56:00	--	--	1	-0.001	73.6	52.3	-0.001	74.999	53.299			
9	05/11/202	15:56:13	--	--	1	-0.001	72.7	52.3	0	75	53.3			
10	05/11/202	15:56:27	--	--	1	0	73.101	52.201	-0.001	75	53.2			
11	05/11/202	15:56:41	--	--						75	53.3			
12	05/11/202	15:56:55	--	--						74.8	53.6			
13	05/11/202	15:57:09	--	--						74.799	53.099			
14	05/11/202	15:57:23	--	--	1	0.001	74.001	52.201	0	74.899	53.299			
15	05/11/202	15:57:37	--	--	1	-0.002	73.8	52.1	0.001	74.8	53.3			
16	05/11/202	15:57:51	--	--	1	0.062	74.263	52.363	0.156	74.017	54.717			
17	05/11/202	15:58:07	--	--	1	0	74	52.3	0	74.7	53.3			
18	05/11/202	15:58:21	--	--	1	0	72.7	52.2	0	74.9	53.3			
19	05/11/202	15:58:35	--	--	1	0	73	52.2	0	75	53.3			
20	05/11/202	15:58:49	--	--	1	0.001	73.8	52.1	0	74.999	53.299			

Results are separated by DUT

FC-APC to FC-UPC (1)-1 FC-APC to FC-UPC (1)-2 FC-APC to FC-UPC (1)-3