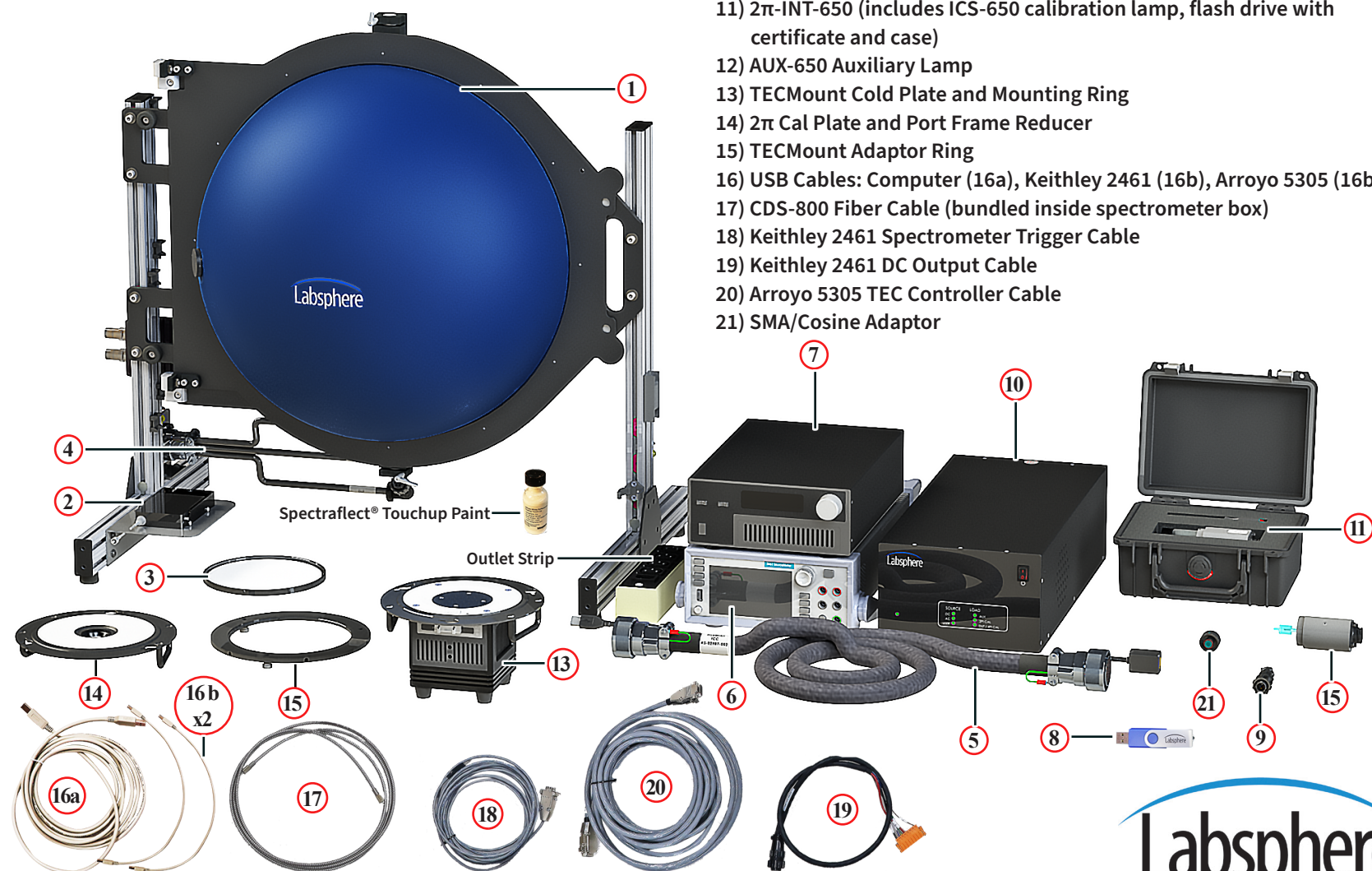# QUICK START GUIDE

for illumia® Pro3

Labsphere

This quick-start guide provides the fundamental steps required to set up, connect, and power up the Labsphere illumiaPro3 System.

Match the black hardware component identification numbers with their corresponding **red** connection diagram numbers on page 2.

For complete information, refer to the full Labsphere illumiaPro3 hardware manual **AQ-41000-050** and Integral Software manual **AQ-81000-100** included on the Labsphere USB flashdrive. (item 8)

ITEMS MAY BE IN SEPARATE BOXES WITHIN SHIPPING CRATE. ENSURE ALL ITEMS ARE PRESENT.

HARDWARE COMPONENTS

1) Integrating Sphere Assembly
2) CDS-800 Spectrometer
3) 2π Port Frame Reducer (for optional Forward Flux Standard)
4) Lamp Cable Bundle and Junction Connector (pre-installed on #1 Sphere)
5) Interconnect Cable
6) Keithley 2461 SourceMeter®
7) Arroyo 5305 TEC Controller
8) Flash Drive: System documentation and Integral® software
9) ICM-500 Shorting Plug (install into #10 ICM-500)
10) Labsphere ICM-500
11) 2π-INT-650 (includes ICS-650 calibration lamp, flash drive with certificate and case)
12) AUX-650 Auxiliary Lamp
13) TECMount Cold Plate and Mounting Ring
14) 2π Cal Plate and Port Frame Reducer
15) TECMount Adaptor Ring
16) USB Cables: Computer (16a), Keithley 2461 (16b), Arroyo 5305 (16b)
17) CDS-800 Fiber Cable (bundled inside spectrometer box)
18) Keithley 2461 Spectrometer Trigger Cable
19) Keithley 2461 DC Output Cable
20) Arroyo 5305 TEC Controller Cable
21) SMA/Cosine Adaptor

Spectraflect® Touchup Paint

Outlet Strip

16 b x2

16a

Labsphere

SYSTEM SETUP

1. Remove all components from the shipping crate and identify them with image callouts on Page 1 and number stickers on the individual package items.
2. Remove the shipping lockbolt above the clasp handle.
3. Place the electronic components (items 6, 7 and 10) to be within 14ft (4.3M) or less of the junction box on the sphere.
4. Put on nitrile or latex gloves, then connect the system's components and cables using the item numbers in the Hardware Components list on the front page as reference in the Connection Diagram below.
   Note: Refer to the illumiaPro3 hardware manual AQ-41000-050 on the flash drive [item 8] for detailed assembly information.
5. Turn on the host computer and wait for Windows to load, then turn on the power switch on the front panel of each electronic component.
6. Insert the supplied Labsphere USB flash drive into a USB socket in the host computer and run the Integral Installer.
   Note: Refer to the Integral software manual AQ-81000-100 on the flash drive (item 8) for detailed information.

⚠️ *Components may be contained in multiple boxes within the crate.*

CONNECTION DIAGRAM

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