

# CLV6xx Analysis Training

## SICK LifeTime Services Training Course



### Description

The course continues beyond the basics of bar code technology and scanner operating principles. The course investigates in more detail how code resolution affects readability, how to use scanner reading range charts, available scan width, and how scan speed influences read rates. Participants will examine how to analyze scanner diagnostic data.

Participants will learn techniques for trouble-shooting difficult applications, how to use scanner push buttons to check alignment and how to evaluate performance using SOPAS Engineering Tool. Participants are expected to know the basics of how to connect to scanners with SOPAS software in order to check and adjust basic reading parameters. The class instructs how to save scanner configurations, fastest techniques to replace a scanner, load a saved configuration and best maintenance practices. The course will present a systematic approach to optimize scanner performance for different scanner applications.

The instructor will share presentations and product demonstrations using either an online meeting tool, or when delivered at customer site or at the SICK North American Training Center, a hands on learning experience. Exercise tasks will be used to monitor participant's competency as the training progresses.

### Objectives

- Examine how code density affects scanner readability and read range
- Examine print contrast ratio effects
- Optimize scan speed for best read rates
- Examine where different scanner models are best suited (Do I have the right scanner installed?)
- Practice best mounting techniques
- Practice using push buttons
- Analyze scanner diagnostic data
- Save and load a configuration
- Examine application optimizing techniques

### Course Benefits

- Participants will learn to determine if the optics of a scanner is matched for code density and distance
- Participants will learn which type of scanner parameters work best for low contrast ratio applications
- Participants will learn how to evaluate scanner performance using SOPAS Engineering Tool
- Participants will learn how to obtain and analyze advanced scanner diagnostic information using SOPAS to trouble-shoot difficult applications
- Participants will become familiar (and at ease) in connecting to scanners and be able to analyze performance while on-line during production
- Participants will learn a systematic approach to optimize a scanner application in order to improve read rates and produce higher throughput



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### Target Audience

Systems Integrators, Select Installation Contractors, Process Engineers and Maintenance personnel needing to improve performance

### Prerequisites

- CLV6xx Basic Configuration Training

### Recommended Additional Course(s)

- Dynamic Focus Control Configuration
- Auto Focus Control Configuration
- CAN Configuration
- Oscillating Mirror
- Match Code

### Duration

4 Hours

### Class Size

Maximum of 8

### Where Offered

- Customer site
- SICK North American Training Center
- Online meeting

### Format

Presentation, demonstration, and exercises/quizzes

### Testing Available

Yes

### Customer Required Materials

For training at customer site, at a minimum, for every two participants:

- PC with SOPAS installed prior to attending
- Minimum of two (2) 110 VAC outlets

For virtual training:

- PC with SOPAS installed prior to attending
- Online meeting tool installed (if necessary) prior to attending

SICK furnishes scanner hardware and accessories for hands-on.

### Logistics

The following must be made available for the duration of the training:

- A suitable training room/area for the lecture portion of the training
- A projector with screen for use with a PC

Failure to have the customer required material and/or logistics available may lead to ineffective training and may result in the class not being able to achieve the described objectives and course benefits.

### Part Number

PN 1079549

Travel expenses additional. Please contact SICK for information

### SICK Training & Education

From product training, start-up assistance, and engineering and consulting services — SICK provides the necessary support before and after field installation through an established network of field personnel. Training, service and support programs from SICK help you reach your goals with our innovative, cost-effective solutions.

SICK offers several types of training programs to help you learn more about our innovative products and systems. Many of our training modules offer hands-on, real-world application examples and problem-solving experiences. Please visit our website at <http://www.sickusa.com> for more information.

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