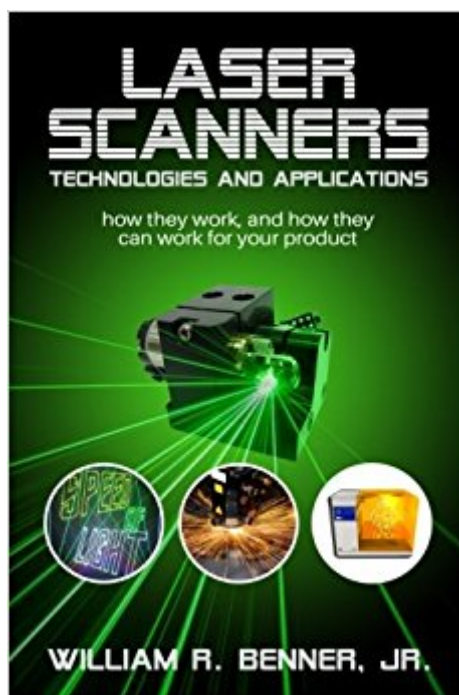




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LASER SCANNERS: Technologies And Applications: How They Work, And How They Can Work For Your Product



Synopsis

HOW TO CREATE NEW PRODUCTS THAT UTILIZE LASER SCANNING – Laser scanners are the engines inside some of today's most important products, including 3D printers, self-driving cars, laser show projectors, barcode scanners, medical imaging, and topographical laser scanning systems. However, engineering schools and universities generally don't teach students about laser scanners or how they might be used to make brand new products. This book describes a variety of laser scanners and how they might be used to create great products. The author begins by illustrating some existing products that use laser scanners. He then discusses several types of laser scanners and how they can be configured for one-dimensional, two-dimensional and even three-dimensional laser scanning. This book has a special emphasis on galvanometer-based optical scanners because of their versatility and high optical throughput, although other types of laser scanners are also described including acousto-optic, electro-optic, polygonal, resonant, and MEMS scanners. The author developed ScannerMAX scanners; there are several chapters devoted to the design features of these "stronger, cooler, faster" devices. Additional information covers signal connections, and tips for the process of designing a new product in general.

Book Information

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Customer Reviews

For people seeking to learn about laser scanners, unfortunately, there doesn't seem to be any books that cover laser scanners from both a high-level (how they work, what kind of products they might enable) as well as a low level (scan angles, scan speeds, wavelength capability, cost, etc.) I wrote this book as a practical guide to help people understand laser scanners well enough to

apply them toward the development of new products. For the most part this is a high-level guide, not an in-depth treatise. However this book does go into depth on certain galvanometer-related laser scanning topics.

EVERYTHING YOU EVER WANTED TO KNOW ABOUT LASER SCANNER This book describes a variety of laser scanners and how they might be used to create great products. The author begins by illustrating some existing products that use laser scanners. He then discusses several types of laser scanners and how they can be configured for one-dimensional, two-dimensional and even three-dimensional scanning. This book has a special emphasis on galvanometer-based optical scanners because of their versatility and high optical throughput, although other types of laser scanners are also described including acousto-optic, electro-optic, polygonal, resonant, and MEMS scanners. The author developed ScannerMAX scanners; there are chapters devoted to the design features of these "stronger, cooler, faster" devices. Additional information covers signal connections, projection surfaces, and tips for the process of designing new products in general.

Finally an expert in the laser scanning, optics and associated software field writes a technical book on the topic - and an excellent book as well! Bill Benner has invented a variety of products over the years and this book is essentially an easy to read cookbook for laser-scanning, optics and other related subjects. The wide range of topics covered in this book are easy to understand with many diagrams and pictures which ensure that the key points are clear. This book should be considered a must-read for those with a profession or interest in the lasering entertainment and laser manufacturing industries. I imagine that the knowledge and recent advances that Bill discusses in this book will have a profoundly positive impact on laser scanning and other related fields. Thank you for writing this, Bill!

Excellent introduction and reference book for anyone in the laser lightshow biz, or anyone interested in the other uses of scanners. From bar code readers to the most advanced Pangolin and other brand scanners out there, Bill covers them all. A collection of very useful technical reprints at the back of the book will be of interest to any laserista - wiring diagrams, etc. And the Kindle version is the bargain of the century! Highly recommended.

Mr. Benner's book is actually worth buying from a Engineer's standpoint. It neatly bridges the empty gap between what you'd find on the web/in data sheets about Galvos and the point where you

would have to start reading highly technical engineering papers or dig into some really old literature. Not too technical, the explanations are crisp, supported with good illustration, and the math is kept to the absolute minimum. The topics covered are relative to design of a functional scientific instrument or laser show projector using Galvo scanners.. One of the few books that tells you how to evaluate how your beam fits on a given set of mirrors, and what to expect in terms of speed and inherent delays.

Great Book for the Engineer and Techs that need to get up to speed real quick about the world of scanners. Very quick read, not dry at all. This book takes it slow and methodical to explain the details of scanners. I have read some laser scanner books that are like drinking from a fire hose! Highly recommend the Kindle download and I plan on getting the Paper Version so I can give it to my Techs to get up to speed ASAP! Saved me about 12 hours of book learning, took it down to 1 hour!

Excellent book! Good read and a wealth of information. For the beginner thru to the professional. Very handy.

Very informative book. A lot of pictures and goes very in depth. A must read for laserists who want to get a more in depth understanding about laser scanners or people who are new to laser scanning to get an understanding of the applications, functions, benefits and much more.

Good book with deep discussion about galvo design. I learned a few new things while reading this book.

Was so excited for this read...cleared front to back last night. Very well written, and can't thank you enough for putting it all on the table for this amazing reference book

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