LEANTEC
INTELLIGENCE CO.,LTD.

## Specification

Digital 2D Galvo Scanner
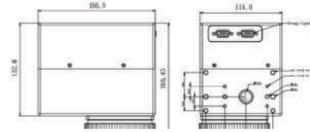
Model	Syntec 2D Galvo Scanner
0.1% Full Range Affect Time	0.4ms
1% Full Range Affect Time	1.0ms
Thermal Drift	<8.3 μrad/K
Long-term Drift Over 8 Hours	15.271 μrad
Linearity	0.1 mrad @2m/sec
Repeatability	<1.5 μrad @2/sec
Position Bandwidth	1140 Hz
1mm Word Marking Speed	300 words/sec
Wavelength	1064nm
Focal Length	210mm
Working Distance	246.2mm
Input Aperture	10~14mm
Inport Spot	50μm
Resolution	24bit(Digital Encoder)
Size	165*166.45*166(mm)
2D Marking Range	120X120(mm)
Marking Speed	5m/s
Scanning Area	±10

70SB All-in-one Control Driver System
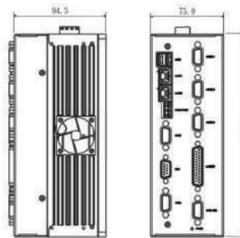
Model	70SB
Axial Communication Interface	Mechatrolink III
Input Voltage	±15V
Supported Laser Interface	Supports comercial 25pin laser interface
Pulse Frequency	Max: 1MHz
Minimum Pulse	0.5μs
IO Interface	4I/12O (Extend IO via SRI)
Galvanometer Protocol	XY2-100
Data Sharing Interface	USBx2 Ethernetx2
Laser Galvo Scannerr	Syntec 2D Galvo Scanner

71SA Laser Marking Serial Controller
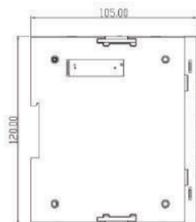
Model	71SA
Axial Communication Interface	Mechatrolink III
Input Voltage	24V
Galvanometer Controlling Interface	XY2-100
Supported Laser Interface	Supports comercial 25pin laser interface
Pulse Frequency	Max: 1MHz
Minimum Pulse	0.5μs
IO board	FC-IO extension
FC-IO extension	SRI interface
VGA	Support

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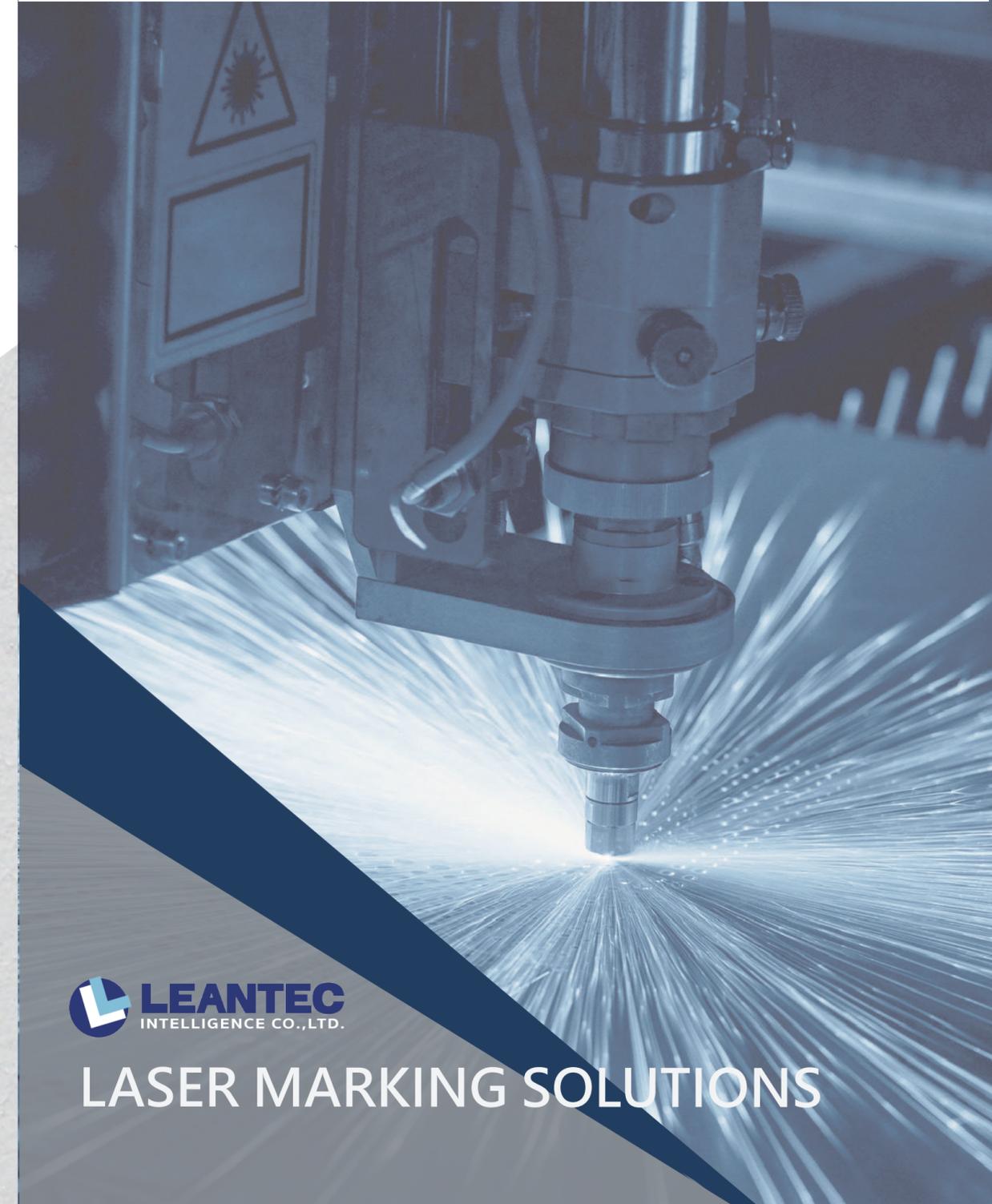✉ sales@leantec.com.tw

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LASER MARKING SOLUTIONS

Laser Marking Solution

70SB Fiber laser marking solution
For high speed and special path galvanometer processing
Solution: Laser marking and driver integrated controller +Digital 2D vibratingmirror module+2D CADCAM

Fiber laser: Fiber laser on market compatible, 20-50W

CADCAM(2D/3D)
USB
EtherNet
All-in-one Control Driver System
Syntec digital 2D Galvo Scanner
Fiber laser

71SA Laser marking serial controller
For traceability: serial no., LOGO and bar code marking on working pieces
Solution: Serial laser marking controller + 2D/3D CADCAM.

Allows XY2-100 digital signal for galvo scanner controlling.

CADCAM(2D/3D)
USB
EtherNet
Serial laser marking controller
Wide range axial control
2D/3D Galvo Scanner
Fiber laser

Application

Date number

LOGO

Pictures

2D code

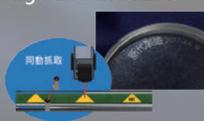### Application with axial machines
Galvo Scanner erected on machine in concept of light knife. Satisfies processing by collaboation of axial and galvanometer

Working pieces marking
Conbines fully automatic loading and unloading and laser making, realizing traceability easily

Production line marking large axial machines
Conbines production line and laser marking , rapid processing with visual system

Wide range marking
Improve efficiency by axial movement and galvanometer processing

Software function

Multiple transmission method

Marking controlling software

PC CAD/CAM

Internet

USB

Object

Basic drawing

Bitmap
.bmp/.jpg/.png

1D/2D barcode

Contour line

Monoline

Hunting line

SY200801

Built-in CADCAM

Online parameter setting

➤ Position
➤ Size
➤ Frequency range
➤ Delay parameter
➤ Speed
➤ Power

Gray scale and frequency change

Gray scale 255 in different frequency

➤ High frequency: high energy density
➤ Low frequency: low energy density
➤ Sync of move command and frequency change
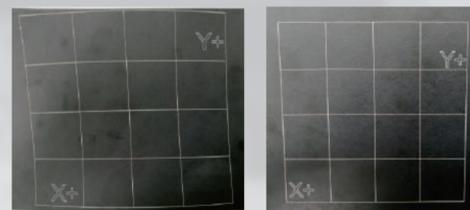➤ Gray scale on metal

Authority setting

Authority setting decreases operating mistakes

➤ Operator: Quicken technical work
➤ Engineer: Processing parameter adjustment
➤ Machinery factory: Controller parameter setting

Distortion correction

➤ Optical composite correction

Features

Digital 2D galvo scanner

➤ 24 bit high precision digital encoder
➤ High respond voice coil motor
➤ Avoiding temperature drift
➤ Galvanometer and driver separatied, avoiding heat generation

Surface marking

➤ Satisfies surface machining 3D CAD/CAM controlling, for immediately zooming.

Wide range marking

➤ Capable of wide range axial contol
➤ Possess mainterlinking function
➤ Allows tray module parameters setting

CE CADCAM

➤ Allows end CADCAM edits
➤ Possess basic primitives
➤ Allows processing parameters and delay parameters setting
➤ Detail setting in front-stage; trimming in back-stage
➤ Allows automatic Serial Number setting

Online and offline marking

➤ Accomplished parameter adjustment without computer, more stable and suitable for factory environments
➤ One touch marking, marking what you see without worries

Multiple applications
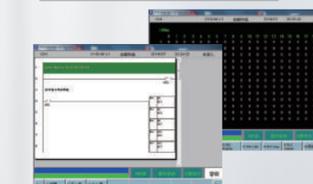
➤ Customized MACRO and PLC developing tool for automation
➤ Concatenates robot arms, visual system and axis
➤ Realized intelligent measurement
➤ Easily extendable I/O modules

Customize screen

➤ HMI development tool provides user to customize screens
➤ Allow user to create brand style
➤ Suitable for individual industry

Vision System

➤ Positioning marking
➤ Reading 1D barcodes and 2D codes(Data-Matrix and QR Code, etc)
➤ Step by step camera and laser correction