

# Infinity HT4000 Series

HT4200FSV End Pumped Solid State  
Nd:Gd VO4 Laser Marker with Vision System



Leader In Laser Solutions

Features:

**Small Spot Size: 30 um & High Power Intensity**

**High Speed Marking & Integrated Air-Cooled System**

**Vision In Line with Laser Marker for Inspection & Marking**

**Laser / Visible Light Scanning Accuracy Compensation Algorithm**

**Program Marking Spots by Visual Teaching**

**Real-Time Point of Mark Inspection & Viewing before / after Marking**

**Laser Integration Option of Nd: YAG / End Pumped or Fiber Laser**

Laser Applications for:

✓	Marking
✓	Cutting
✓	Trimming



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### Technical Specifications

End Pumped Solid State Gd:VO4 Laser	
Wavelength (nm)	1064
Output Power (W)	8
Q-Switch Pulse Repetition (kHz)	Up to 60
Pulse to Pulse Stability (%)	< 5
Input Power (kw)	1
HyScan 200: Scanhead System	
Laser Beam Delivery:	Galvanometer Scanhead System
F-Theta Lens Marking Area (mm)	110 x 110 *
* Optional at 60 x 60, 160 x 160	
Vision System	
Inspection Time:	0.2 sec per frame
Scanning Area (mm)	110 x 110
Camera:	CCD. Up to 2 Mega Pixels
Front of View (mm)	10 to 3
Resolution	Up to 2 um per pixel
Utilities and Environment	
Power Supply:	230 VAC, Single Phase, 13 Amp
Operating Conditions	
Environment:	Area Under Ambient temperature without condensation
Temperature:	22 to 28 degree celsius (Optimum) 10 to 30 degree celsius (Normal)
Humidity:	Up to 70% RH maximum (Optimum & Normal)
Storage Conditions	
Environment:	Area without Condensation
Temperature:	5 to 45 degree celsius
Humidity:	Up to 75% RH maximum
Dimension	
725 mm (Length) x 310 mm (Width) x 178 mm (Height)	
Lens for Field Size (mm) Working Distance (mm)	
60 x 60	100
110 x 110	180
160 x 160	300/311*

\* Type S

Note: The table above indicates one selection only that must be fixed at time of purchase.

Hypertronics Pte Ltd



#### Warranty

Hypertronics warrants each laser system to be free of material and manufacturing defects for a period of 1 year after shipment based upon normal equipment use as specified by Hypertronics and its personnel.

#### Legal Notices

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#### PC Controller

Type of Controller: Windows based PC Controller  
Marking Software: Hypermark CAD Based, GUI marking software for creation and editing of marking layout. Text, Barcode, Data Matrix polygon creation within few mouse clicks

#### Optional features includes:

- Windows True Font
- Font Editor
- PLT, AutoCAD format import
- RS - 232 Serial Comm.
- TCP/ IP comm. Via Win Socket
- BMP / Tiff marking

#### Options:

- Automatic & Semi-Auto Handlers
- Data Matrix and Linear Barcode Verifier
- Dust Collector / Fume Extractor
- Red Targeting Laser
- Auto Power Calibration System
- Marking Software Customization