



**JADAK**<sup>®</sup>  
visionary thinking

# Focus 1690

## Area-Imaging Scanner

JADAK's Focus<sup>®</sup> 1690 provides users with increased throughput for virtually all 1D and 2D bar code reading applications—including poorly printed or damaged bar codes—by incorporating high resolution imaging and true contact reading into an affordable solution.

Focus 1690 is a high performance hand-held area-imaging scanner. This omnidirectional scanner decodes all of today's standard bar codes including 1D, GSI DataBar<sup>™</sup>, PDF417, microPDF, EAN/UCC Composite, Matrix and Postal Codes regardless of orientation.

For years, JADAK has been designing and manufacturing fixed position industrial imaging systems that are used by some of the world's leading parcel handling companies, distribution centers, and postal services. That core technology combined with optical design expertise produced the Focus, a hand-held device built to endure today's toughest work environments, packed with the most complete set of features, ease of use, and stylish, modern design.

Focus can be utilized in a variety of applications such as: retail, healthcare, shipping/receiving and supply chain management. Its laser like reading of 1D codes and omnidirectional reading of 2D codes combined with a competitive price make it the obvious solution to a broad array of applications. With its arsenal of features, Focus is the all-in-one scanner.

The Focus 1691 is ideal for applications that require high-density scanning. The 1691 delivers quick and accurate scanning of 1D bar codes as small as 3.5 mil and 2D bar codes as small as 5 mil.



## Features

- **TotalFreedom<sup>®</sup>**: Expands scanner functionality by allowing image processing, decoding and formatting plug-ins to be loaded directly to the scanner instead of the host system
- **Omnidirectional Scanning**: Eliminates need to orientate scanner to bar code
- **Mobile Phone Reading**: Excels at scanning coupons and tickets directly from the screen of a mobile device
- **CodeSelect<sup>™</sup>**: Scans up to 7 bar codes in a single flash and outputs data in any predetermined order
- **Flexible Licensing Solution**: Meets diverse scanning requirements by offering models with limited decoding capabilities—purchase decoding licenses to enable additional functionality as the need arises
- **Motion Tolerance**: Offers aggressive scanning of bar codes passing by the window in presentation mode

# Focus 1690 Technical Specifications

## Mechanical

Dimensions (LxWxH)	183 mm x 79 mm x 111 mm (7.2" x 4.4" x 3.1")
Weight	225 g (8 oz)

## Electrical

Input Voltage	5 VDC $\pm$ 0.25 V
Operating Power	2 W (400 mA @ 5 V)
Standby Power	800 mW (160 mA @ 5 V)
Host System Interfaces	USB, RS232, Keyboard Wedge, IBM 46xx (RS485)

## Environmental

Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-40°C to 60°C (-40°F to 140°F)
Humidity	0% to 95% relative humidity, non-condensing
Drop	Designed to withstand 1.5 m (5') drops
Environmental Sealing	Sealed to resist airborne particulate contaminants
Light Levels	100,000 Lux

## Scan Performance

Scan Pattern	Area Image (1280 x 512 pixel array)
Motion Tolerance	47 cm/s (18 in/s) for 13 mil UPC at optimal focus
Scan Angle	Horizontal: 50°; Vertical: 20°
Print Contrast	20% minimum reflectance difference
Pitch, Skew	75°, 75°
Decode Capability	Reads standard 1D, PDF, 2D, Postal and OCR symbologies *Note: Decode capabilities dependent on kit configuration
Warranty	5 year factory warranty

1690 Typical Performance*	
Narrow Width	Depth of Field
5.2 mil (1D)	38 mm - 146 mm (1.5" - 5.8")
7.5 mil (1D)	25 mm - 229 mm (1.0" - 9.0")
13 mil (1D)	0 mm - 330 mm (0" - 13.0")
10 mil (PDF)	0 mm - 330 mm (0" - 13.0")
15 mil (PDF)	0 mm - 432 mm (0" - 17.0")
*Resolution: 1D: 5 mil (0.127 mm) 2D: 7.5 mil (0.19 mm)	
*Performance may be impacted by bar code quality and environmental conditions	

1691 Typical Performance*	
Narrow Width	Depth of Field
4 mil (1D)	50 mm - 90 mm (2.0" - 3.5")
5.2 mil (1D)	55 mm - 98 mm (2.2" - 3.9")
13 mil (1D)	0 mm - 155 mm (0" - 6.1")
5 mil (2D)	50 mm - 88 mm (2.0" - 3.5")
7.5 mil (2D)	45 mm - 100 mm (1.8" - 3.9")
*Resolution: 1D: 3 mil (0.071 mm) 2D: 5 mil (0.127 mm)	
*Performance may be impacted by bar code quality and environmental conditions	