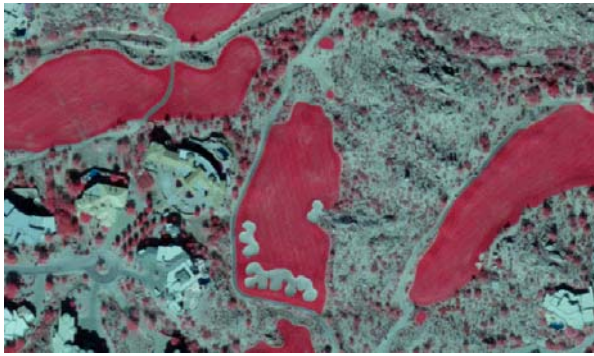


## **Product Specifications—Color InfraRed (CIR)**

### **Product Description**

Pixxures CIR (Color Infrared) ortho product is a high accuracy product that can be used for a variety of applications including vegetation mapping, vegetation type and health, landuse/landcover, change detection, and other feature extraction applications. The CIR product is accurately registered to natural color bands and can be used in conjunction with natural color images for image analysis. The CIR product can be used as a base layer to derive a variety of features that can be used as foundation layers for environmental modeling, greenhouse gas estimation, carbon credits, and other applications.

### **Product Examples**



Color Infrared



Natural Color

### **Features, Benefits, and Applications**

Product Features	Product Benefits
Highest degree of cartographic accuracy <ul style="list-style-type: none"> <li>▪ 1:1000 scale or better</li> </ul>	High accuracy imagery can be used for a multitude of applications including vegetation mapping, urban forestry, impervious surface mapping, landuse/landcover, change detection, and others
Very High resolution imagery available from variety of aerial sensors <ul style="list-style-type: none"> <li>▪ 1Ft, 1.5Ft, or 2Ft pixel</li> </ul>	User can extract variety of features including vegetation type and health, landuse/landcover, and others
Large Areas <ul style="list-style-type: none"> <li>▪ Process entire metropolitan areas</li> </ul>	Map large areas and provide seamless mosaics where necessary for areas ranging from 100 sq mi to county-wide coverage.
<ul style="list-style-type: none"> <li>▪ Consistent Quality</li> </ul>	Customer can expect consistent quality in terms of spatial accuracy as well as radiometric balancing over time, for a consistent looking product
Metadata <ul style="list-style-type: none"> <li>▪ FGDC compliant Metadata</li> </ul>	FGDC metadata compliance will allow state/local customers to meet federal standards for participation in NSDI and other federal programs

## Specifications

Product Attribute	Description
Pixel Size	1-foot (optional 6- inch, 1.5-foot, 2-foot)
Projection	State Plane (optional custom projections)
Horizontal Datum	WGS84 (optional NAD83, NAD27)
Ortho Generation	First Generation and Second Generation
Temporal Color Balancing	Available option in multi year projects
File Format	Geotiff (optional ECW, JPEG2000, tiff/tfw)
Tiling Scheme	5Kx5K feet (optional custom tiling)
Sensor	ADS40 (includes SH51/52)
Bit depth	8 bit (optional 16 bit available on custom order)
Product Components	Ortho Image Tiles FGDC Compliant Metadata File
Product Orientation	Map North Up Black fill in areas of no data
Orthorectification inputs	NED or SRTM DEM (optional custom DEM and GCP's)
Accuracy	1:1200 or better
Sensor Bands	ADS 40 Spectral Bands Blue, Green, Red, and Near Infrared

Order Parameters	
Product Type	3 band CIR, 3 band Natural Color, 4 bands
File Formats	GeoTIFF 1.0, ECW, JP2000, Tiff/tfw
Projection and Datum	[State Plane, UTM, Geographic, Custom] [WGS84, NAD27, NAD83, Custom]

## **Deliverables**

Product is delivered on your choice of standard digital media with FGDC compliant metadata. Standard formats include GeoTiff and ECW. Default projection and datum are UTM and WGS84 respectively.

For information contact:

Pixxures, Inc.

15000 West 64<sup>th</sup> Avenue, Arvada, CO 80007

Phone: 303-302-8600 Fax: 303-302-8601