

Photo Science, Inc.

Eight Office Locations:

Lexington, KY

Atlanta, GA

Greenbelt, MD

Orlando and St. Petersburg, FL

Colorado Springs, CO

Bangor, ME

Philadelphia, PA



*Corporate
Headquarters*

Photo Science, Inc.

Founded in 1974 in Lexington, Kentucky

- *Over 195 professionals*
- *Full-service Surveying, Mapping, and GIS capabilities*
- *One of the nation's largest and most well-equipped survey and mapping firms*
- *Highly Diversified Offices, Individually Managed*

Personnel

- **17 ASPRS Certified Photogrammetrists**
- **16 Registered Professional Land Surveyors**
- **4 Registered Professional Engineers**
- **3 ASPRS Certified Mapping Scientists**
- **7 Commercial Pilots**

Technical Staff

- 6 Camera Operators
- 5 Aerial Triangulation Specialists
- 28 Stereo Compilers/Image Analysts
- 28 Remote Sensing Specialists
- 7 Digital Orthophotography Specialists
- 5 Scanning Technicians
- 21 Survey Technicians
- 7 Photo Lab Technicians
- 24 Edit Technicians
- 25 GIS Technicians
- 10 applicationDevelopers

Cameras

Five USGS Calibrated Film Cameras:

- RMK Top 15 (2)
 - LMK 2000 (1)
 - LMK 1000 (2)
- ZI Imaging Digital Mapping Camera (DMC)
 - Applanix DSS 322 Camera

Four outfitted with IMU, all with ABGPS



Aircraft



	<u>2 - 690 Turbo Commanders!</u>	<u>PA-31 Navajo</u>	<u>Cessna T-310R</u>	<u>Cessna T-210N</u>	<u>Cessna T-210N</u>	<u>Cessna U-206</u>	<u>Cessna U-206G</u>
Engine	Twin Turbine				Single		
Cruise Speed (Knots)	275	175	185	165	165	144	144+
Airborne GPS	<i>IMU / DMC</i>	Yes	<i>IMU</i>	<i>IMU</i>	Yes	Yes	<i>LiDAR</i>
Flight-Management System	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Service Ceiling	35,000 31,500	20,500	27,400	28,500	28,500	16,700	16,700

INDIANA

2968 DOQQ'S

92 Counties

36,291 Square Miles

11,645 Flight Line Miles

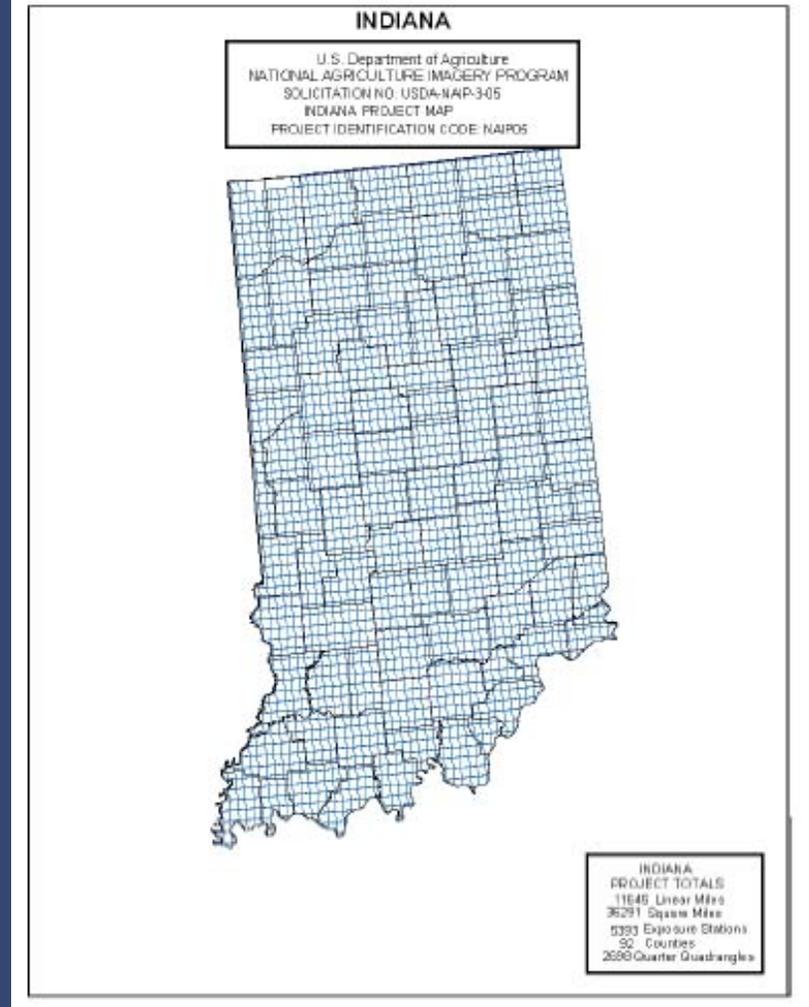
5393 Exposures

57 Flight Lines

7/1 – 8/15 Flight Dates

Sept 14th CCM Delivery

Dec 13th Last Delivery



AERIAL PHOTOGRAPHY *(FILM)*

- State divided into 14 areas
- 217 Flight Lines, 5903 Exposures
- Three Aircraft,
 - *subcontracted portion (Land-Air) due to Service Bulletin 237 (Commander), expanded USGS, DOT and COE Projects.*
- *86% flown in July, finished 8/2, re-flights by 9/2 – 170 exposures rejected internally (2.8%).*



N167R – 42%
N101UF – 32%
N6238Q – 26%

19 Flight Days
July – 14 Days
Aug – 3 Days
Sept – 2 Days

Scanning

- All Scanning accomplished in – House using Vexcel 5000
- *Every Image scanned for Analytics*

Analytics

- Intergraph ISAT Software
- Performed Analytic Triangulation from Existing Imagery

Ortho Production

- 92 County CCM's, 2968 Quarter Quads
- Surdex Assisted... *due to expanded USGS, DOT and COE Projects. Also utilized ISAT & Same Processes*
- All CCM's and Ortho's delivered...

Problems / Issues:

- *ATC Indianapolis*
- *Restricted Area*
- *August weather for re-flights*

Lessons Learned

- Larger Areas could have reduced turns, longer lines
- No further Contract sales anticipated (*State was flown in Spring of '05 with Digital, leaf off, better resolution*)

Can do substantially more in '06

Four Aircraft:

Two Turbine Commanders, Two Piston Twins

Digital Camera

Photo Science



Questions - Comments