



iWitness™ - Close-Range Photogrammetry (40 Hours)

This course will teach you how to use the iWitness™ close-range photogrammetry software for 2D (two-dimension) and 3D (three-dimension) modeling with emphasis on crash scene diagramming and vehicle crush measurements from digital images.

You will be introduced to close-range photogrammetry theory, planar rectification (2D measurement from a single image using XYRectify), camera use for scene imaging and photogrammetric data reduction of digital images from consumer grade digital cameras. From there we will explore the functionality of the iWitness™ software such as the facet-form polyline tool, pointing editing, edit/review, working with multiple project networks, point offsetting, project unit scaling, 3D model rotation, axis inclination and network stitching. You will also learn how to integrate photogrammetric data with other metrology devices such as total stations.

We will teach you how to metrically calibrate your digital SLR camera in iWitness™. We will show you the required tasks of the photogrammetric computer analytics from importing the digital images through final DXF export of a 2D and 3D network for use in CAD.

You will be required to participate in field exercises using an outdoor staged scene and must be familiar with the operation of a PC. A background in 3D scene measurements from other measurement devices, as well as experience with CAD diagramming software, will be helpful. Although not required, you are encouraged to bring your own entry-level, prosumer, or digital SLR camera for camera calibration and practice use. The digital

camera must be equipped with the ability of manual focus and you must understand your camera's settings.

Topics include:

- Theory of close-range photogrammetry and image rectification
- Overview of the iWitness™ software
- Camera calibration
- Field imaging
- Image importing and exporting
- 3D crush modeling exemplar/crush profiling
- 3D transformation to control, import projects for linking and axis inclination
- Working with digital images from other cameras
- Image rectification (2D planar measurements from a single image)
- Automatic measurement using iWitnessPRO™

Notes: For those that pass the examination, and are ACTAR certified, the course is eligible for 30 CEUs. Graduates of this course are eligible for discount pricing from the software company. Please see your instructor for details.

Audience: Law enforcement and private traffic crash investigators, claims adjusters, engineers, attorneys, safety officers, military investigative personnel, animators and graphic designers

Course Fee: \$895*

*** Due to very limited seating, a \$250 non-refundable deposit is required in order to register for IPTM's iWitness™ - Close-Range Photogrammetry course. Payment or purchase order must be submitted with registration.**

COURSE FEE

The course fee includes tuition, a student reference manual and study materials. We accept checks, cash, agency purchase orders and credit cards. Credit card payments may be made online using your Visa, MasterCard, Discover or American Express card. **Due to very limited seating, a \$250 non-refundable deposit is required to register for computer or digital photography courses. Payment or purchase order must be submitted with registration.**

REGISTRATION

Register online at www.iptm.org. A minimum number of registrations must be received for a class to run as scheduled. When the minimum criterion has been met, written confirmation will be mailed, faxed, or emailed to you.

Please do not make airline reservations until you receive written notification confirming that the course will run as scheduled.

REFUND POLICY

A 10% administrative fee will be assessed to all refunds. In lieu of a refund, student substitutions can be made or a credit can be issued for a future course.

TRANSPORTATION AND LODGING

Most locations are served by several major airlines. Ground transportation, food and lodging are the responsibility of the student. However, hotels in the listed areas offer a special rate to IPTM program participants. For more information, please visit our website at www.iptm.org or call us at (904) 620-IPTM.

CONTINUING EDUCATION CREDITS

Continuing Education Units (CEUs) are available through IPTM. Please call us at (904) 620-IPTM for details.

To register for this course online, please visit our website at:

www.iptm.org

Institute of Police Technology and Management University of North Florida

Registration Form

(Please type or print)

NAME _____ SS# _____

ORGANIZATION _____ TITLE _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

TELEPHONE _____ FAX _____

E-MAIL _____

Course Title: _____

Course Fee*: _____

** Due to very limited seating, a \$250 non-refundable deposit is required in order to register for computer software or digital photography courses. Payment or purchase order must be submitted with registration.*

For online courses, full payment must be received at least one week prior to the first day of class.

Please indicate the dates and location of the course for which you are registering:

Course Dates: _____

Course Location: _____

**Please do not make
airline reservations until you receive
written notification confirming that the
course will run as scheduled.**

You can also register online at: www.iptm.org

Authorizing/Registering Official

Americans with Disabilities Act Program Accessibility: Individuals who require reasonable accommodation in order to participate must notify the registrar at (904) 620-IPTM at least five working days prior to the class.

NAME _____ TITLE _____

REGISTERING PERSON'S E-MAIL _____

PURCHASE ORDER NUMBER _____ [] FEE ENCLOSED

Make checks payable to: Institute of Police Technology and Management

[] SEND INVOICE TO _____

REFUND POLICY: Effective January 1, 2012, a 10% administrative fee will be assessed to all refunds. In lieu of a refund, student substitutions can be made or a credit can be issued for a future course.



Return to:

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