

Visual Documentation ✓CHECKLIST

Have you considered the value of these professional PHOTO & VIDEO services for your upcoming project?



- PRE-Construction SITE & STRUCTURE Documentation**
Photo or VideoWALKTHRU** of the construction site and surrounding properties & structures.
Photo or VideoWALKTHRU** of existing interior of your building, or the spaces to be renovated.
- PRE-Construction ENGINEERING PROJECT Documentation**
Photo or VideoWALKTHRU** of entire project ROUTE for pipelines/street impvts and site work.
- POST-Construction Photo or VideoWALKTHRU Documentation**
Project documentation after completion of engineering projects, to show condition at time of release to owner, and to show completed restoration of private properties.
- PERIODIC Construction ProgressPHOTOS**
Periodic site visits and photography of construction activities throughout project.
Rates begin under \$400 per site visit with 15 views, delivered on our P-Tn LINKINGapp.**
- ProgressWEBCAM Construction Site Monitoring & Time-lapse ProgressCAMovie.**
Online, 'real-time', user-controlled pan-tilt-zoom site monitoring, with edited time-lapse movie(s).
Basic start-up begins with a fee of \$1500, or totally custom installations are available.
Leased system monitoring with monthly hosting fees ranging from \$430 to \$485 / mo.
- Worksite ProgressWEBCAM or SecurityCAM 24/7 Project Site Monitoring**
Portable solar-power Trailer/Mast-mounted wireless IPcamera - motion analytics & phone/email alerts.
- AERIAL ProgressPHOTOS [UAS Quadcopter/Drone available for select sites]**
Peroidic [mo'ly or qtrly] flyover of project site and photography of 5-6 AERIAL STILLS and/or VIDEO.
Rates begin at \$475 or less per flight, with 5 views, posted online to view or download.
- PhotoWALKTHRU** DECKS & FLOORS .. or .. PRE-Occupancy**
Documentation prior to concrete encasement pours for Floor/Deck/Columns, or all interior spaces (plus exterior overviews) at time of Owner Occupancy. Based upon project square footage.
- PhotoWALKTHRU** M-E-P // In-WALL and CEILING**
Mechanical-Electrical-Plumbing in walls, at time of inspection; prior to drywall enclosure or ceiling tiles.
- VideoRECORD** of Owner Training Sessions** given by Mechanical Equipt & Supplier Reps.
- FINAL Photography of completed projects for marketing & promotional use.**
Our base fee for this high-quality creative photography begins at \$450-750
- iPlanTables Interactive Workstation for Project Closeout HQ & Facilities Mgmt.**
iPlanTables Touchscreen Workstations are ideal central storage and retrieval 'headquarters' for all of your electronic documentation – with full scale viewing of plan sheets & surveys, plus training session videos, O&M manuals, as-builts, inspections & warranties, etc.
Take a look thru our [CATALOG](#), then call us to set up an online webinar with Q&A to learn more.

****Our P-Tn LINKINGapp IS OUR CLIENTS' PREFERRED METHOD OF RECEIVING Visual Documentation. THIS ALL-DIGITAL DOCUMENTATION APPROACH LINKS PHOTOS or VIDEOS TO PLAN SHEETS USING BUTTON ICONS, FOR EASY SEARCH & ACCESS TO YOUR IMAGES.**

Call our Professional Staff 913-384-9369

FIND US ON THE WEB; www.P-Tn.com or EMAIL OUR STAFF; contact@P-Tn.com

We're your CONNECTION to **iPlanTables**



CLICK IMAGE for CATALOG

FM-ELT Series
43" - 49" - 55" Mobile Workstations
Sit-Stand-Flat-Present modes.
THE ULTIMATE SOLUTION and
our MOST POPULAR MODELS!



The NEWEST iPlanTable MODEL!
iDeskTop Mount - 43" Touchscreen Workstation
available with up to 5 total monitors, converts
from desktop or flat surface to an
electric tilt, sit-stand workstation.
Move the monitor, not the whole desk!

FM-ELT Hydra --- 55" with up to 5 total monitors



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 on the web at P-Tn.com

FM-ELT OCC
Office Command Center
55" Dual Sit-Stand desks
with 4 total monitors



CLICK IMAGE for VIDEO

iWallMount 55" - 85"
The industry's only electric articulating wall mount !
this Interactive Workstation transitions from
conference room presentation height to a
45 degree collaboration station.

FM-ELT RJ Series - 43"- 49"
This mobile workstation is a nimbler
version of our FM-ELT series,
providing a smaller footprint
with 40-90 degree tilt and
one side monitor.



FC-49
Field Commander
Designed as a
professional workstation
not a TV mounted in a box,
incorporates a professional level
touchscreen monitor, PC, printer,
UPS battery backup, washable keyboard
& mouse - the only ventilated and
cooled job box on the market!



CALL US!
 we'll build one for YOU!

913-384-9369



Visual Documentation ✓ **HYPERLINKS**

CLICK or CONTROL-CLICK the links below for ONLINE ACCESS
To P-Tn VIDEOS or INTERACTIVE SOFTWARE



□ **UAS-QUADCOPTER [DRONE]**

An AERIAL Progress Report **VIDEO** that includes still photos ...

1.) http://www.P-Tn.net/DR/P-TnSTCEAST_20191025_APR-720.mp4

Click the link above and the progress video, embedded with still photos, will play.

□ **UAS-QUADCOPTER [DRONE]**

An AERIAL 2D3D **MAP** of a building project site for online viewing of surface details in HI-RES 2-D, with vegetation health & elevations layers, plus an interactive 3-D MODEL of the site ...

2.) https://www.dronedeploy.com/app2/data/5db453162958735e7be91a4b;jwt_token=eyJhbGciOiJIUzUxMiIsInR5cCI6IkpXVCJ9.eyJzY29wZSI6WyI0Y2MwNjI3OGYwX0YyOEE1MkUyQTBPUEVOUEIQRUxJTkUiXSwidHlwZSI6IjIyWWRPbmx5UGxhbiIsImlkIjojIjoiNWRiNDUzMjZTdZTkxYTRiIiwiaXhwIjoyNTM0MDIzMDA3OTI9.zS16L_YqA7dJZ8NVwg70SkB28GsFt8yEdLZddu-vKvR61xz_RqTuuHXc-gZ-pwV-ftX6ANbjTePflG2KpFjygz

Click the link above to view AERIAL MAPPING imagery using online software.

An AERIAL 2D3D **MAP** of an engineering project for online viewing of surface details in HI-RES 2-D, with vegetation health & elevation layers, plus interactive 3-D MODEL of the site ...

3.) https://www.dronedeploy.com/app2/data/5d9de260dc73da36f52e9cda;jwt_token=eyJhbGciOiJIUzUxMiIsInR5cCI6IkpXVCJ9.eyJzY29wZSI6WyJhbnAwODRhMzNiX0YyOEE1MkUyQTBPUEVOUEIQRUxJTkUiXSwidHlwZSI6IjIyWWRPbmx5UGxhbiIsImlkIjojIjoiNWQ5ZGUyNjBkYzczZGEzNmY1MmU5Y2RhIiwiaXhwIjoyNTM0MDIzMDA3OTI9.FxUvQmGazrI5Y8-XkrmSbJHLBEcgJLTdBr-0eith5XPbZ2-KvvZntTg7RqDWWL7qMye-YTsWy3sbngIuAoc2aw

Click the link above to view AERIAL MAPPING imagery using online software.

□ **Our LINKINGapp All-Digital Delivery System**

1.) <http://www.P-Tn.net/comlink/apptutorial.mp4>

Click the link above and the LINKINGapp TUTORIAL, will play.

□ **Online ProgressWEBCAM ARCHIVEpics INTERFACE**

1.) <http://www.P-Tn.net/pwc/CERNERNE/archivepics.asp>

Click the link above to visit an inactive INTERFACE for a past ProgressWEBCAM project.

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DRONE MYTHS

BIGGEST MYTH - *I'm not charging for my services, so I am not regulated like professionals in the UAS (drone) business are ...* --- Flying a UAS related to ANY business activity or purpose, or simply while "on the company clock", places you within ALL of the FAA regulations and restrictions for professional UAS commercial usage. You AND your employer will be liable in the event of an incident, or simply if you are reported for flying. The FAA has established fines of \$1100 for flight by a NON-certified pilot, plus fines of \$11,000 for hiring a NON-Certified pilot to fly for any business activity – **these are PER-FLIGHT fines!**

MYTH - **It's called a D-R-O-N-E!** --- Not really ... it is a UAS or Unmanned Aircraft System. Drone is not totally wrong, but (unfortunately) is more often associated with military use. A UAS Quadcopter is perhaps the most common UAV (Unmanned Aerial Vehicle), utilizing 4 propellers. But the entire SYSTEM (all equipment hardware AND the FAA Certified UAS pilot, PLUS the Visual Observer) is where you should focus attention, since no single component can safely deliver success with remote aerial imaging.

MYTH - **The biggest potential problem is a possible crash, but I (probably) won't.** --- Yes, you probably will crash your UAV. And your fear should not be about IF you crash it, but INTO WHAT or WHOM you crash it.
- *Think about that.* A crash is far less likely with a professional, and we're insured.

MYTH - **Drones are cheap to buy, easy to use, and ready to fly!** --- Cheap is a relative term; cheaper than buying an airplane, yes. But you should add-in several short-lifetime batteries, multi-chargers, insurance, pilot training & testing, pilot licensing fees, pilot learning curve, registration, insurance, ground spotters, logs and record-keeping, repairs ... the list goes on. Start at \$2000 for a working system [less than that if you want it easy-to-crash], \$3-5000 is the LOW end for commercial systems.

MYTH - **Well, the cost is much lower than hiring an airplane or helicopter.** --- Helicopter - yes, cheaper than a helicopter. Airplane - nope, not necessarily lower, when you consider all expenses ... the cost is actually higher, if you are photographing multiple sites in a metro area; travel time alone is dramatically *reduced* in an airplane traveling 100+mph across town! Time spent at any given location is much *longer* than shooting from an airplane or helicopter.

MYTH - **The rules are simple; stay below 400' and away from airports.** --- These are only TWO of the *myriad* of 'rules'. There are many NO FLY ZONES; **NO FLY**. There are 50' / 100' / 200' / 300' restricted UAS (drone) flight zones, and they can be anywhere, literally. Typically, you must stay FIVE-MILES away from all airports, but that also includes many other points, like medical heliports. Consider all of these spots on a map, and most of Kansas City is restricted airspace. FAA permission is required for almost all flights.

MYTH - **Drones are easy to fly, and most all the functions are automated.** --- Easy is also a relative term. They do NOT fly themselves. The complexity of the controls is far beyond a video game ... you must fly and monitor a number of critical functions simultaneously, while *keeping the UAS within your personal line-of-sight at all times*. Add wind & weather and you have a lot to deal with. Once you get your shots, they are in a raw, unedited format - all stills and video footage require Adobe Premiere or Photoshop skills to make them professional quality. Your work is only *half* done once you have captured the aerial images.

MYTH - **This is the end of the DRONE MYTH list.** --- Sorry, *this is only the beginning* ... there are countless applications available for UAS in commercial environments, and much more to learn about the regulations & skills required to use UAS successfully - and *safely*. Professional, registered UAS pilots have already done their homework, and will deliver a finished final product without the hassles, at a reasonable cost.

Call our professional staff at **913-384-9369**, email contact@P-Tn.com, or Visit P-Tn.com to learn more.





MINIMAL BASIC SPEC WORDING

for PLAN SHEET LINKING* of PHOTOS/VIDEOS;

P-Tn LINKINGapp* All-Digital Delivery System or "APPROVED EQUAL" – [WATCH TUTORIAL VIDEO](#)

Here's a start;

MINIMAL SPEC WORDING RECOMMENDATIONS for a **PHOTO/VIDEO NAVIGATION SYSTEM**.

- **Photographic images shall be captured with minimum 8-megapixel resolution, and delivered in JPG or PDF format, without image manipulation or loss of detail through compression.**
- **Video capture shall be in Full-1080dpi HI-DEF original camera file format, or mp4 format, with minimal loss of detail through compression.**
- **This record, plus additional photos/videos of construction progress, or POST-Construction conditions, shall be linked to the plan sheets and an updated DVD-ROM or USB drive shall be provided with each update.**
- **All required PHOTO/VIDEO documentation, plus additional photos/videos of construction progress, or POST-Construction conditions, shall be linked to the plan sheets and provided initially on TWO (2) USB drives, and updated DVD-ROM or USB drives shall be provided with each update.**
- **The contractor shall provide an ELECTRONIC PHOTO & VIDEO NAVIGATION SYSTEM* for searching and viewing recorded documentation imagery. The SYSTEM shall indicate the general location of each area photographed, or video recorded, using ICONS and other suitable mark-ups on the actual construction drawings (or other electronic documents), all in PDF-format. ICONS shall be individually positioned and hyperlinked to each respective photograph, video recording segment, indicating location and direction (or area) viewed.**
- **The SYSTEM shall function using standard PDF-reader software (such as FREE Adobe Reader or Bluebeam VU ... or Adobe Acrobat or Bluebeam REVU purchased software). VIDEO shall open for audio-video playback in Windows Media Player, VLC, or other current (FREE) players.**
- ***APPROVED SYSTEM is the LINKINGapp All-Digital Delivery System by P-Tn of Overland Park, KS., or an approved equal.**

ALWAYS REQUIRE a PROFESSIONAL! The QUALITY will be HIGH, but the COST will NOT.

A qualified, established commercial photography firm knowledgeable in construction practices and with a minimum of 5-years experience in photographic and audio/video recording of construction projects shall perform the documentation. If requested, the photographer/videographer shall provide examples of prior work and/or references. APPROVED supplier; P-Tn of Overland Park, KS, or an approved equal (leave this line out, if you prefer, but we are named in some specifications).

MINIMAL BASIC SPEC WORDING

for PHOTO/VIDEO DOCUMENTATION REQUIREMENTS;

- **Photographic images shall be captured with minimum 8-megapixel resolution, and delivered in JPG or PDF format, without image manipulation or loss of detail through compression.**
- **Video capture shall be in Full-1080dpi HI-DEF original camera file format, or mp4 format, with minimal loss of detail through compression.**

- Provide an **ELECTRONIC PHOTO & VIDEO NAVIGATION SYSTEM*** for searching and viewing recorded documentation imagery. This documentation record shall link all **PHOTOS/VIDEOS** to the original plan sheets and updated as needed.
- ***APPROVED SYSTEM** is the **LINKINGapp All-Digital Delivery System** by P-Tn of Overland Park, KS., or an approved equal.

PRE-Construction for PIPELINES / STREET IMPROVEMENTS -

Prior to clearing or construction operations, photograph (or record on HD video) the entire (pipeline or street) project route, including all improvements within the construction areas. Digitally link all photographs (or video recording segments) to a set of pdf-format plan sheets, indicating the location and direction of each view (or video). Deliver PRE-Construction documentation record on labeled DVD-ROM or external USB drive. These same general areas shall be documented after completion of construction operations, to show restoration of affected properties.

PRE-Construction for EXISTING BUILDINGS / STRUCTURES -

Prior to demolition or commencement of construction, photograph (or record on HD video) all interior walls and ceilings [plus floors] to document existing condition of all interior features within the construction areas. Digitally link all photographs (or video recording segments) to a set of pdf-format plan sheets, indicating the location and direction of each view (or video). Deliver PRE-Construction documentation record on labeled DVD-ROM or external USB drive. After final inspection, but prior to concealment with drywall or ceiling tile, photograph all wall and ceiling areas to show the location of M-E-P [mechanical - electrical - plumbing] installations.

Construction PROGRESS -

A monthly** visit to the construction site shall be made for photography of FIFTEEN (15) views of the site and activities, as directed by the superintendent or field representative. Digitally link all photographs to a set of DATED pdf-format plan sheets, indicating the location and direction of each view. Deliver periodic** PROGRESS documentation record on labeled DVD-ROM or external USB drive. NO prints will be required.

ALSO CONSIDER ... P-Tn Reps & SELLS iPlanTables – DNL D CATALOG - [LINK](#)

AERIAL PROGRESS or 2D3D SITE MAPPING via UAS-DRONE - [LINK](#)

ProgressWEBCAM Online Site Monitoring of EXTERIOR or INTERIOR

and SecurityCAM Monitoring of Field Office & Equipment - [LINK](#)

PRE-Occupancy PHOTOS of the entire building or structure

VIDEO RECORDING of Bldg Owner Training Sessions - [LINK](#)

ProgressWEBCAM Time-lapse Construction Video - [LINK](#)

FINAL PHOTOGRAPHY of finished site / project - [LINK](#)

MARKETING PHOTOGRAPHY and VIDEOS - [LINK](#)

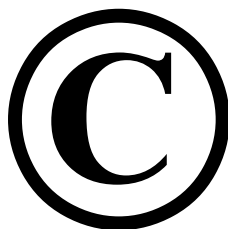
VIDEO Documentation of HAUL ROUTES

... and there's more.

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Short and sweet ...

If it LOOKS like a professionally created photograph, assume that it is, and presume that it is protected under US Federal intellectual property Copyright Law. **EVEN IF THERE IS NO © COPYRIGHT SYMBOL or PHOTO-CREDIT** Written permission is *required* from the author (read: photographer) *before* you post it, publish it, print it, reproduce it, or share an electronic file of it ... and YES, there may be a USAGE RIGHTS fee associated with obtaining that permission.

Please contact our professional staff if you have © questions.

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VISUAL
DOCUMENTATION
photo - digital - video