



J.Noref Dataset JNR-ITScam

Update from videographers

ITS

Institute for
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Sciences

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J.Noref Camera Capture Dataset Vision

- Inspired by CCRIQ dataset
- Variety of modern cameras
- Scenarios show performance differences
 - Similar but not perfect
 - Differences from placement, form factor, camera controls, in-scene action, ...
- (Nearly) full matrix of camera vs scene
 - 400 PVSs
 - Possible missing PVSs
- Designed and filmed by professional videographers
- Delivery goal: January 20, 2026

Camera impairments from 16 modern cameras

■ Phones

- Apple iPhone 16 (2024)
- Samsung A16 5G (2025)
- Google Pixel 9a (2025)
- Apple iPhone SE (3rd generation, 2022)
- Motorola Moto G 5G (2024)

■ Tablet

- Apple iPad (11th generation, 2025)

■ Pro

- Sony EX1R (2010)

■ Mirrorless

- Sony Alpha 6700 (2023)

■ DSLR

- Canon EOS Rebel SL3 (2019)

■ Point-and-shoot

- Minolta MND20 (2025) *

■ Action

- GoPro HERO 11 (2022) *
- AKASO EK7000 (2017) *

■ Dashcam

- VANTRUE E1 Lite (2022) *

■ Nannycam

- PNZEO W9 *

■ Spycam

- Mini Pen #1 (2017) *

■ * = camera with no zoom capability

Morrow Mountain State Park, Pan from Scenic Overlook

- Test visible levels of color and depth while panning



Lantana Berries and Leaves

- Test shallow depth of field, close up



Charlotte Marathon

- Test many bodies in motion (close to far)



Daniel Stowe Fountain Lights

- Test dusk and dark, splashing fountain and lights



Botanical Gardens Holidays in Garden

- Test camera pan of multiple lights, flashing lights, nighttime



Extreme Closeup of Mums

- Test extreme closeup ability and clarity coupled with camera movement



Scenarios Already Filmed

- **Leaves in the wind**
 - Test close up zoom with attached objects moving
- **ASL person signing rapidly**
 - Test movement (hands and mouth) in foreground against visually noisy background
- **Golf swing close up**
 - Test impact and fast motion across one section of the screen
- **Sunroom, vertical blinds, sunny outside, no inside lighting**
 - Test bright natural light outside, darker and unlit inside
- **Daniel Stowe tunnel lights**
 - Test nighttime lights with camera tilt motion
- **POV walking on track**
 - Test repetitious or indistinguishable fine detail while camera is in motion, motion blur
- **Candle lighting artwork**
 - Test extremely low light (single candle) against static dark background
- **Golf course/Mum**
 - Test rack focus, change of focal point
- **Pan across rock wall**
 - Test pan across uneven surface background
- **Moving traffic through arch**
 - Test moving objects in one section of the frame

Scenarios Scheduled (Tentative)

- Aquarium fish swimming, schooling
 - Test erratic movement of many items behind glass
- Hands playing on piano keys, low light and lit
 - Test hands in motion against black and white lines
 - Both professional lighting and natural light
- Fans leaving Panther Stadium
 - Test large groups of people moving in low or dim lighting
- Soccer game