



Drone as First Responder

RPIC Reference Card - Flying at night/flying in precipitation

Flying at Night with NightSense

Enable Low Light Mode (By default, NightSense will automatically turn on when entering Low Light Mode)

Set NightSense settings/preferences for flight (such as Auto-off When Using Pathfinder or Auto-Off When Using Boost)

Turn on strobe lights (to help other aircraft maintain visibility with Skydio X10)

Tip: Use thermal camera and AR street overlay (to help you maintain situational awareness in low light conditions)

Tip: Stay within range of visual features and ambient light to maintain healthy VIO

Flying at Night with NightSense in Precipitation

Disable NightSense (and follow steps for "Flying at Night without NightSense")

Flying at Night without NightSense

Enable Low Light Mode (By default, NightSense will automatically turn on when entering Low Light Mode)

Turn on strobe lights (to help other aircraft maintain visibility with Skydio X10)

Stay clear of obstacles (obstacle avoidance is disabled when flying in Low Light Mode without NightSense)

Maintain a strong GPS signal (if the drone is near or underneath large structures, or doesn't have a clear view of the sky then GPS may be degraded)

Tip: Use thermal camera and AR street overlay (to help you maintain situational awareness in low light conditions)

Tip: Stay within range of ambient light if possible

Flying at Night in Precipitation

Same as above (follow steps for "Flying at Night without NightSense")

Flying in Precipitation (Daytime)

Disable obstacle avoidance

Turn on strobe lights (to help other aircraft maintain visibility with Skydio X10)

Stay clear of obstacles (obstacle avoidance is disabled when flying in Low Light Mode without NightSense)

Monitor VIO and GPS health (if obstacle avoidance is disabled the drone will use GPS navigation as the primary navigation source. If GPS degrades, then the drone will fall back to VIO (if healthy).