Date: PIC/VO: Location:

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# XAG V40/P40/P100 Preflight Check List

## PRE-FLIGHT LINE CHECK

Crew E	Briefing	
	- Production and Prod	HSE-UAV
	Check Airspace	
	Confirm Communication method (Cellular, LNT/RCN)	UOE IIA
	Confirm Positioning Method (RTK, GPS)	HSE-UA
	Discuss Flight Plan and Objectives, Roles and Responsibilities	
	Note conditions: geography, weather, sound-mind of personnel	
	Note hazards: people, objects, animals, visual limitations, etc.	
	Weather Conditions	
	Other Notes	
Battery	y Check	
	Flight Battery: Minimum 90% Charge	
	Remote Control Battery: Minimum 75% Charge	
	Phone/Tablet: Minimum 75% Charge	
	(If Applicable) LNT: If using flight battery, minimum 50% charge, if using 12v source, adequately of	charged
	(If Applicable) Portable RTK: Minimum 80%	
LNT Co	onfiguration (If Applicable)	
	Find shaded location which provides open line of sight between LNT, RTK, Drone, and Controller	
	Confirm LNT antennas and LNT stand are attached and free of defects	
	Connect desired power cable to LNT (Flight battery or 12v source)	
	Power on battery then press LNT power button, confirm LEDS show powered on.	
	Connect to LNT WIFI network	
RTK Co	onfiguration (If Applicable)	
	Select solid and flat ground with open space above. There should be no obstacles over the elevat	tion angle of 15° for
	continuous tracking and observation of the satellites and high quality satellite signal.	
	Set up tripod securely with bubble level centered.	
	Attach the RTK extension rod and antenna and power on	
	DO NOT MOVE RTK BASE STATION!	
	Open XAG One App	
	Open Devices	
	Select RTK device	
	Click Set Datum, select desired Datum Type	
	Confirm RTK is FIXED	
Mecha	nical	
	Batteries are free from error lights and from physical damage or swelling	
	GPS and flight antenna(s) are attached and free of defects	
	Motor arms are secure to airframe and in locked position	
	Spraying Nozzles are in the correct orientation and in locked position	
	Propellers are free from damage, secured and in correct rotational position	
	Propellers are Unfolded and locked (If Applicable)	
	Landing Gear - secure, no cracks or damage	
	Ensure Obstacle Avoidance Sensor, Terrain Sensor and Camera Lens is clean	
	Ensure Battery (For P100, 2 Batteries) is fully inserted	

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### **FLIGHT LINE**

Reconfi	irm Area Awareness, check for new non-participants	
	Place aircraft on a level surface with tail towards operator, with a safe distance of at least 30ft (10m) from operators,	
	bystanders and obstacles	
	Ensure ACS2 Controller is powered on	
	Ensure Spray tank is fully inserted, filled, and Level Sensor Cable is connected	
	Ensure Drone battery (For P100, 2 Batteries) is powered on	
	CLEAR FLIGHT LINE and ensure safe distance of least 30ft (10m) from operators, bystanders and obstacles	
	Ensure all devices are online with no errors	
	(If Applicable) Set RTK Base Station (Drone and Optional ASC2 RTK Mapping Rover)	
	<ul> <li>Enter device page</li> </ul>	
	o Open Drone device	
	<ul> <li>Select Positioning tab (Satellite antenna Icon)</li> </ul>	
	o Ensure RTK position is enabled	
	Select desired RTK Reference	
	o Ensure RTK is ACTIVE	
	☐ If utilizing ACS2 RTK ROVER	
	<ul> <li>Enter device page</li> </ul>	
	o Open ACS2 Device	
	o Ensure RTK position is enabled	
	Select desired RTK Reference	
	o Ensure RTK is ACTIVE	
Confirm	n all Systems Ready Discuss any new Area Hazards (people, animals, obstacles, weather, etc.)	
	ENSURE ALL SYSTEMS GO - Notify non-participants to remain behind flight line	
	Manual Operation	
	Hold Both Triggers on ACS2 for 3s to start takeoff	
	Autonomous Operation	
	Ensure Entry/Exit routes and flight area is safe	
	<ul> <li>Click "Start Operation" and follow prompts to begin take off.</li> </ul>	
	Ensure proper handling and behavior of aircraft	
	Conduct Desired Flight Mission	
	Conduct Desired Fight Mission	
POST FI	LIGHT OPERATIONS - PILOT IN COMMAND MUST REMAIN IN POSSESION OF THE REMOTE	
CONTR	OLLER/XAG One App	
	Manual Landing	
	<ul> <li>Hold Both Triggers on ACS2 for 1s to start landing</li> </ul>	
	<ul> <li>Let aircraft land and rotors come to full stop</li> </ul>	
	Autonomous Landing	
	Monitor automatic landing	
	Be prepared to override landing in APP or controller is necessary	
	<ul> <li>Let aircraft land and rotors come to full stop</li> </ul>	
	Power off flight battery, then remove	
	NOTE: Built in battery backup in the drone will keep avionics powered on for up to 5 min. If a new battery is not	
_	replaced within 5 min, drone will disconnect from LNT, ACS2 and RTK and require reconfiguration when powered on	
	again.	
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NOTE: FAILURE TO FOLLOW PROCEDURES AS OUTLINED MAY RESULT IN A CRASH, INJURY, DEATH & PROPERTY DAMAGE. PLEASE OPERATE SAFELY.

Please remember operators must follow all Laws, Rules, Policies and Procedures. Please note: HSE nor its Dealers or Affiliates are liable for any losses or damages related to operating this or any other aircraft