

AUTONOMOUS DRONES ADVANCED SOLUTIONS



Design, Develop, Manufacture
UAVs for Special Missions



About CopterPIX

CopterPIX is a cutting-edge Israeli high-tech aerospace company. The company specializes in designing, developing and manufacturing autonomous cutting-edge BVLOS UAV applications and solutions.

CopterPIX works closely with the world's leading integrators, HLS providers, military and aerospace industries, local and governmental authorities and strategic-infrastructure operators (electricity, oil and gas).

CopterPIX is an authorized vendor to the Israeli MOD and provides the Israeli Defense Forces tactical, inspection and multi-rotor drones, up to 25 kg.

The unique combination of CopterPIX's R&D ingenuity, technical skills and creative integration solutions allow us to offer our customers the perfect solution for their specific needs.

CPX, CopterPIX's open framework (hardware and software) enables at least 30% longer flying time with more payload than any other commercial drone currently available.

Our Drones

Spec.		ERE75 OZ	ERE95 Mini LR	ERE95 Mini Pro	ERE95 Pro Hybrid	ERE1000 HL Hybrid	ERE95 Pro	ERE1000 HL	ERE1000 Pro-Max	ERE1000 XL
MTOW		4 kg	10.5 kg	13.5 kg	21 kg	26.5 kg	21 kg	30 kg	30 kg	46 kg
Weight		2 kg	4.4 kg	4.4 kg	13.5 kg	16.2 kg	6.2 kg	8.8 kg	9.2 kg	14.2 kg
Prop		15"	30"	28"	28"	30"	28"	30"	30"	30"
Battery Li-Ion or Li-Po		3P6S (9 A) 2P6S (9.9 A)	1P12S (22 A\30 A)	1P12S (22 A\30 A)	Generator 2.4 KW	Generator 3 KW	1P12S (22 A\30 A)	1P12S (22 A\30 A)	1P12S or 2P12S (22 A\30 A)	2P12S or 3P12S (22 A\30 A)
Dimensions	Ø Open	690 mm	125 mm	117 mm	1580 mm	1690 mm	1580 mm	1690 mm	1690 mm	1780 mm
	Ø Folded	190 mm	420 mm	420 mm	580 mm	855 mm	605 mm	855 mm	855 mm	570 mm
	Height	401 mm	550 mm	490 mm	740 mm	870 mm	606 mm	740 mm	740 mm	810 mm
Max Speed		20 m/s	25 m/s	25 m/s	15 m/s	15 m/s	20 m/s	20 m/s	15 m/s	15 m/s

Performance (flight minutes)

Model	Payload kg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	MTOW	Weight	
ERE75 OZ		40 min	36	25																				4 kg	2 kg
ERE95 Mini LR		100 min	92	82																				10.5 kg	4.4 kg
ERE95 Mini Pro		87 min	83	79	60	53	47																	13.5 kg	4.4 kg
ERE95 Pro Hybrid		320 min	280	210	200	130	120	80	50	40														21 kg	13.5 kg
ERE1000 HL Hybrid		325 min	285	235	197	159	126	75	84	65	35													26.5 kg	16.2 kg
ERE95 Pro		78 min	75	72	63	57	55	45	37	33	30	26												21 kg	6.2 kg
ERE1000 HL		76 min	74	63	57	52	47	40	38	36	35	34	32	30	28									30 kg	8.8 kg
ERE1000 Pro-Max		86 min	78	72	68	65	64	62	56	54	52	51	32	30	28	25	22							30 kg	9.2 kg
ERE1000 XL						52	49	48	47	42	40	39	38	37	35	33	31	25	23	22	21	20		46 kg	14.2 kg



We don't just provide drones with the world's best performance. We provide the world's best solutions.

Our cutting-edge platforms leverage drone technology to solve the most daunting business challenges – from A to Z.

Through our advanced drone technology, CopterPIX delivers comprehensive turnkey solutions for the most pressing challenges. We design, manufacture, test and integrate cutting-edge technologies to provide our customers a complete answer to their most challenging demands – which is why we are world's leader in providing fully autonomous BVLOS UAV platforms and capabilities.







Camera






					
DRAGONEYE2	X80	NIGHTHAWK2	NIGHTHAWK2-V	NIGHTHAWK2-UZ	RAPTOR
Weight: 115 g Zoom: X40 IR: 640 x 480	Weight: 140 g Zoom: X80 IR: Day Only	Weight: 250 g Zoom: X40 IR: 640 x 480	Weight: 320 g Zoom: X40 IR: 640 x 480	Weight: 350 g Zoom: X40 IR: 1280 x 720	Weight: 640 g Zoom: X80 IR: 1280 x 720

GCS

	
8" Android	10" Android
	
10" Android \ Windows	10" Panasonic Toughpad

Communication

					
Multi-band	Cellular \ Sat.	Encryption	Network Relay	Mesh Networking	Multi-input Multi-output

				
Omni Range: 5 km	High-Gain Omni Range: 10 km	Directional Range: 25 km	Tracking Directional Range: 50 km	Sat. / LTE / 5G Range: Unlimited

Custom Drones

- Able to integrate with any 3rd-party hardware or software based on our CPX open framework
- Custom hardware and software development
- Custom development of mechanical devices



CPX Open Framework

Accessories

- RTK - centimeter accuracy in GPS positioning accuracy
- 360-degree obstacle avoidance
- Lidar collision avoidance
- Remote ID and ADSB
- Companion air unit (Linux \ Windows OS)
- Parachute safety system
- Dead reckoning position calculation



NON-GPS Navigation

CopterPIX offers unique solutions for GPS-denied environments, enabling operation in all conditions, day or night, indoors or outdoors, on the ground, or over bodies of water.

- DR (dead reckoning) for accurate positioning using the drone's internal IMU
- Relative position based on vision (SLAM and optical flow) or radar estimation
- Absolute position based on pre-loaded imagery



The CopterPIX Edge

Team

- R&D
- Engineering
- Manufacturing
- Training

CPX

- Open Framework (Hardware and software)
- CPX SDK



Manufacture & Aerial Services

- Licensed drone operator - up to 2000 kg
- Licensed manufacturer
- Licensed pilots and UAV's
- Licensing services

WE MAKE THE IMPOSSIBLE POSSIBLE

The CopterPIX CPX Mission-Critical Platform

Deep-Tech Capabilities 📌 Open-Platform 📌 Flexible 📌 Scalable 📌 Adaptable

Hardware and Software

- Ground station
- Docking station
- Drone



Cloud Software

- Command center
- 3rd party
- Fleet management

Ground Control Software

Advanced mission-planner deployment