

# SAMEL 90

**SAMSYSTEMS**

## ***Tactical rotary wing UAV SYS-178***

*The SYS-178 is a small 25 kilograms rotary wing UAV, capable of automatic and autonomous flight.*

*Launch and recovery can be performed from the ground or from a ship flight deck.*

*SYS-178 provides surveillance, reconnaissance with real time high-definition video.*

*A high-bandwidth, encrypted AES128/256 data link ensures the connection with the ground control station and the drone.*





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### ***Main technical parameters:***

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• <b><i>Maximum takeoff weight.</i></b>	<b><i>20 kg</i></b>
• <b><i>Rotor diameter (foldable):</i></b>	<b><i>1.80 meters</i></b>
• <b><i>Lenght:</i></b>	<b><i>1.70 meters</i></b>
• <b><i>Maximum flight ceiling:</i></b>	<b><i>2000 meters ASL, ISA conditions</i></b>
• <b><i>Payload.:</i></b>	<b><i>&lt; 4 kg</i></b>
• <b><i>Endurance at cruise speed:</i></b>	<b><i>Minimum 3 hours</i></b>
• <b><i>Range:</i></b>	<b><i>over 50 km with Auto track antenna system</i></b>
• <b><i>Fuel-tank volume</i></b>	<b><i>up to 6 liters</i></b>
• <b><i>Propulsion: thermal engine with</i></b>	<ul style="list-style-type: none"> <li>• <b><i>Ignition system</i></b></li> <li>• <b><i>Fuel: oil-gasoline mixture</i></b></li> <li>• <b><i>Electric generator</i></b></li> <li>• <b><i>Autostart system</i></b></li> </ul>
• <b><i>Payload</i></b>	<ul style="list-style-type: none"> <li>• <b><i>Day and night vision camera</i></b></li> <li>• <b><i>Zoom 30x optical</i></b></li> <li>• <b><i>Full stabilization system</i></b></li> <li>• <b><i>Targhet feature</i></b></li> <li>• <b><i>Laser pointer</i></b></li> </ul>
• <b><i>Missions</i></b>	<ul style="list-style-type: none"> <li>• <b><i>Surveillance and targets determination and allocation</i></b></li> <li>• <b><i>Targeting</i></b></li> <li>• <b><i>Security missions</i></b></li> <li>• <b><i>Artillery Fire Adjustment</i></b></li> <li>• <b><i>Assistance in Rescue missions, including emergency delivery of the medical materials</i></b></li> <li>• <b><i>Detection of forest and mountain fires, assistance in floods</i></b></li> </ul>