

Benchmark's Integrated Surveillance System (ISS) is highly customizable to meet your exact operational needs and budget. Simply select the base, mast, camera and additional options to optimize your solution. Not sure what options meet your needs? Take a look at our suggested configurations for various use cases and customize from there.

All configurations include a control laptop loaded with cutting-edge PureTech Systems™ PureActiv™ software with perpetual license for target identification and tracking, including terrain and nautical maps. Laptop includes 2 TB video data storage. Dual channel GPS for geo-positioning and 2x2 MIMO for radio communication are included.

Base Configurations

Standard sled mobile solution: Rugged and durable, the standard sled fits on the back of a Ford-150, Toyota Hilux or other small pickup truck for maximum versatility. It slides easily on and off the truck and can be used on the ground without the truck as a temporary tower. The mast is held constantly upright, meaning it is visible from the outside of the truck when not in use. Mast deploys in under two minutes.

Covert sled mobile solution: The covert sled has all the durability of the standard sled with the added advantage of folding totally flat in the bed of a light-duty pickup truck when not in use. A motorized automatic cover closes over the stowed mast so that only the flat cover is visible (note: for eight meter masts an extended bed is required, for 10 meter masts a gate apron is required). Optimal for urban environments or any situation where rugged surveillance is required but not obvious to possible threats or bystanders. Mast deploys in under two minutes.

Two-man tower: Two-man towers provide remote observation with an unobstructed 360° view. Towers install in less than 10 minutes, raise to six meters in under four minutes and withstand winds up to 40 mph. Mast not required.

Masts

Top of the line Wilburt brand masts are available in four meter, six meter, eight meter and 10 meter heights when fully extended. All masts include controls necessary to retract and deploy the masts.

Cameras

Benchmark camera integrations incorporate infrared and non-infrared cameras in a sturdy casing on a top of the line gimbal for precise control in challenging environmental conditions.



Camera Configurations Include:

Model	Features
CAM-SD-HD-300-A	Dual SD IR camera and HD Day System with Rugged PT Gimbal. IR features 30-300mm F5.5 CZ lens. Day Camera features 500mm lens and 1080 HD. Laser range finder and laser illuminator (15Km range) (3 Mile Human Detection)
CAM-SD-HD-700-A	Dual SD IR camera and HD Day System with Rugged PT Gimbal. IR features 70-700mm F5.5 CZ lens. Day camera features 500mm lens and 1080 HD. Laser Range Finder and Laser Illuminator (15Km range) (6 Mile Human Detection/ID Range)
CAM-HD-HD-300-A	Dual HD IR camera and HD Day System with Rugged PT Gimbal. 30-300mm F4.0 CZ lens. LRF and LI (15Km range) (4 Mile Human Detection)
CAM-HD-HD-700-A	Dual HD IR camera and HD Day System with Rugged PT Gimbal. 70-700mm F4.0 CZ lens. LRF and LI (15Km range) (8 Mile Human Detection)

Recommended options

Self-leveling mast: Recommended for any use case involving hills or rough terrain, Benchmark's self-leveling technology levels the camera in seconds from angles of up to 15°. More reliable than software-aided image leveling, Benchmark's self-leveling technology gives the user an accurate picture of targets' relative positions.

Specialty options

One-button drone: Get a closer look at any target by deploying a gas/battery hybrid drone using our one-button deployment technology. Software uses coordinates from the camera to pilot the drone automatically. The drone can fly up to five miles and return to its place on top of the truck or two-man tower. **(Note: FAA or other national and local regulations may apply. In U.S. flight above 120 meters or outside of operator's line of sight may require FAA waivers. Please follow all regulations when operating your drone.)**

4x4 MIMO upgrade: Multi-input multi-output radio technology allows users to incorporate the ISS into nearly any type of radio communication network.

Private LTE connectivity: Share ISS screen views with other ISS units or a central command unit using a private LTE data network. Networking multiple ISS units together creates a virtual wall of protection where virtually nothing can pass undetected.

Custom radio integration: Provide specs for your agency's radio network and we will integrate antennas and receivers at our factory.



Suggested Configurations

Local and State Law Enforcement

Local and State law enforcement need reliable tools that give officers valuable information but still fit in always-tight budgets.

- Standard sled
- Four meter mast
- CAM-SD-HD-300-A camera
- Add self-leveling if operating in rural areas

Critical Infrastructure/ Utilities

Infrastructure and utilities need the ability to get a close-up view of different areas of their site at different times. We recommend the following configuration as a starting point, then make changes based on your specific operational situation.

- Standard sled
- Six meter mast
- CAM-SD-HD-300-A camera
- One-button deployment drone

Federal Law Enforcement/Federal Facility Protection

Federal law enforcement requires a versatile and expansible solution that provides good value for agency resources. We recommend the following configuration as a starting point, then make changes based on your specific operational situation.

- Covert sled
- Six meter mast
- CAM-SD-HD-700-A camera
- Self-leveling
- One-button deployment drone

Need help configuring your ISS? Have more questions? Ready to get pricing information? Contact us at surveillance@bench.com or 623-300-7000 for more information.

Benchmark Surveillance Solutions is built on our broad engineering expertise, so if you are looking for an option or technology not listed in this document please reach out! We excel at engineering custom solutions.

