Atlas STAG
Technical reference datasheet
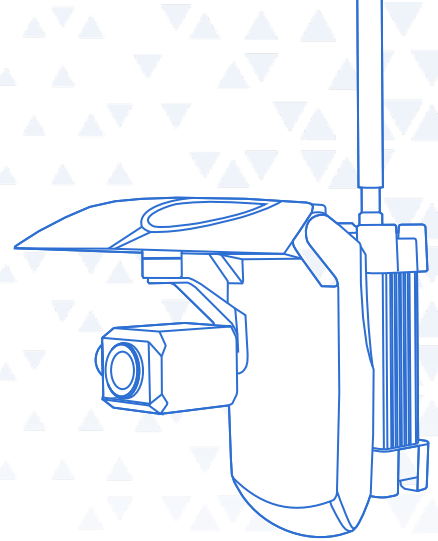
PHYSICAL CHARACTERISTICS

Dimensions, folded (w x d x h)	**104 x 73 x 236 mm**
Dimensions, unfolded (w x d x h)	**104 x 224 x 217 mm**
Dimensions, with RELAY attached	**104 x 224 x 281 mm**
Weight (w/o battery)	**495 grams**
Weight (incl. battery and payload)	**1250 grams**
Enclosure	**Impact resistant PC-ABS, UL94V-0**
Ingress protection	**IP44, weather resistant**

OPERATIONAL ENVIROMENT

Operating temperature	**-20°C to +55°C**
Relative humidity	**5 ~ 95%, non-condensing**

PAYLOAD SUPPORT

Visor FF	**Thermal VGA (640 x 480) at 30fps**
Kalos 120	**3x zoom, 4K (3840 x 2160) at 30fps**
Argus M20	**20x zoom, FHD (1920 x 1080) at 30fps**

MAINBOARD AND STORAGE

Embedded flight controller	**Atlas SCM**
Onboard video transcoding	**Yes, hardware accelerated**
Onboard object tracking	**Yes, AI image co-processor**
Supported codecs	**H.264 / H.265**
Onboard storage	**MicroSDXC up to 2TB**
Secure storage	**Yes, AES256 encryption**

ONBOARD SENSORS

GNSS	**U-blox 10 (GPS + GLONASS + Galileo)**
Directional awareness	**Digital compass**

COMMUNICATIONS (VIA RELAY)

Primary radio	**Atlas ATR-200 @ 1W**
AtlasMESH Compatible	**Yes**
Standard (civilian) freq. range	**2.4 - 2.4835 Ghz**
Full extended freq. range	**2.2 - 2.7 Ghz**
Frequency hopping	**Yes, including smart scan**
Onboard antenna	**3dB**
Radio range	**>8.5 km**
Certification	**CE, FCC**

ACCESSORIES

Charger	**Atlas Smart charger (Gen 2)**
Tripod mount	**1/4 inch thread, adjustable head**

BATTERY AND POWER

Battery bay	**Atlas Smart Battery compatible**
Runtime with internal battery	**Up to 9 hours**
Runtime with external power source	**Unlimited**
Battery management system	**Yes, Smart battery**
Charging	**USB-C PD compatible, 90W**
Charge time	**65min**