



AI/7D5X EXPORT

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CAGE Code: 1SMP2

The Adams Industries' AI/7D5X night vision five power binocular is for long range observation and surveillance. This unit uses the AN/PVS-7D body assembly in conjunction with a high quality five power astronomy grade catadioptric objective lens. The AI/7D5X can also be supplied with a camera adapter for high quality night vision imagery.

Power is supplied via two AA batteries for a run time of up to 40 hours of continuous use. The AI/7D5X can be fitted with a selection of varying image intensifiers. Because the unit is based upon the popular AN/PVS-7B & D night vision goggle, repair, maintenance and supportability are greatly enhanced and the image intensifier can be upgraded at any time with a drop-in replacement MX10130 format image tube. A built-in high light cutoff turns power off to the unit if it is left on during daylight hours.

The AI/7D5X objective lens is a fast f/1.6 lens; it has a very low chromatic aberration and provides crisp imagery over its full 450-910 nm (extended blue) operating range with up to 200 lp/mm resolution (limited by choice of image intensifier). The lens is nitrogen purged, environmentally sealed and tested to withstand a water immersion depth of 3 feet.

AI/7D5X BINOCULAR CHARACTERISTICS:

MAGNIFICATION/LENS: 5.1X; F/1.6
 FIELD OF VIEW: 6.0 DEGREES
 DIOPTRER ADJUSTMENT: +2/-6 DIOPTERS
 POWER SUPPLY: TWO AA BATTERIES
 CONTROLS: 3 POSITION SWITCH
 BATTERY LIFE: 40 HOURS CONTINUOUS
 DIMENSIONS: 204 X 153 X 153MM
 WEIGHT: 0.68KG

AI/7D5X-CGTE PERFORMANCE SPECIFICATIONS:

GENERATION: CGT
 RESOLUTION: 45-54 LP/MM
 FIGURE OF MERIT: FOM < 1250
 EXPORT: PM/DTC FOM < 1250

AI/7D5X-HPTE1250 PERFORMANCE SPECS:

GENERATION: HPT
 RESOLUTION: 54-66 LP/MM
 S/N RATIO: 16-20
 FIGURE OF MERIT: FOM 950-1250
 EXPORT: PM/DTC FOM < 1250

AI/7D5X-HPTE1600 PERFORMANCE SPECS:

GENERATION: HPT
 RESOLUTION: 54-66 LP/MM
 S/N RATIO: 16-24
 FIGURE OF MERIT: FOM 1250-1600
 HALO: HALO > 1.00
 EXPORT: PM/DTC FOM < 1600

AI/PVS7-E1250 PERFORMANCE SPECS:

GENERATION: Gen. 3
 RESOLUTION: 64 LP/MM TYP.
 S/N RATIO: S/N < 19.5
 FIGURE OF MERIT: FOM < 1250
 EXPORT: PM/DTC FOM < 1250

AI/PVS7-E1600 PERFORMANCE SPECS:

GENERATION: Gen. 3
 RESOLUTION: 64 LP/MM TYP.
 S/N RATIO: S/N < 25
 FIGURE OF MERIT: FOM 1250-1600
 HALO: HALO > 1.00
 EXPORT: PM/DTC FOM < 1600