WESCAM™ 16SS725 and 16SS1000

PAYLOAD SPECIFICATIONS

Sensor - **Color Daylight CCD TV Camera**

Type:	3CCD: Ikegami HL-59WNA
Format:	2/3", IT; NTSC or PAL
Gain (dB):	-3dB to +30dB (mid gain) +6dB to +42dB (high gain)
Horizontal Resolution:	650 TV lines (16:9) 700 TV lines (4:3)
Vertical Resolution:	400 TV lines
Sensitivity:	2000 lux @ f11
Minimum Illumination:	.25 lux @ f1.4
Video Output (digital):	16:9 or 4:3 format

Zoom Lens for 16SS1000

Type:	Canon J33ax15B
Focal Lengths (with 2x):	15mm to 1000mm

Field-of-view:

16:9 Aspect Ratio	
Wide	35.5° (H) x 20.4° (V) @ 15mm
Narrow (with 2x)	0.55° (H) x 0.31° (V) @ 1000mm
4:3 Aspect Ratio	
Wide	32.7° (H) x 24.8° (V) @ 15mm
Narrow (with 2x)	0.50° (H) x 0.38° (V) @ 1000mm

Zoom Lens for 16SS725

Type:	Canon J33ax11B
Focal Lengths (with 2x):	15mm to 726mm
16:9 Aspect Ratio	
Wide	47.1° (H) x 27.5° (V) @ 11mm
Narrow (with 2x)	0.76° (H) x 0.43° (V) @ 726mm
4:3 Aspect Ratio:	
Wide	43.6° x 33.4° @ 11mm
Narrow (with 2x)	0.69 x 0.52 @ 726mm

Remote Control:
Zoom, Focus, Filter, Iris, 2x Extender (external camera control via the RM-11WNA remote control)

GIMBAL SPECIFICATIONS

Active Gyro-Stabilization
Three (3) Axes Inner (pitch/yaw/roll), maintained through lookdown; Two (2) Axes Outer (azimuth/elevation)

Vibration Isolation
Six (6) Axes passive isolation (x/y/z/pitch/yaw/roll); plus additional vibration isolator.

Line-of-sight Jitter	<10 microradians rms
Roll Range:	725+\- 28° / 1000+\-30°
Slew Rate/Acceleration:	55°/sec., 143°/sec.
LOS Pan Range:	Continuous 360°
LOS Tilt Range:	+15° to -120°

SYSTEM SPECIFICATIONS

Physical Dimensions

Gimbal
39.5 kg (88 lbs.)
40.6 cm (16.0") dia. x 55.4 cm (21.8") ht. [look down 77.2 cm (30.4") ht.]

External Isolator
8.8 kg (19.5 lbs.)
40.9 cm (16.1")W x 70.1 cm (27.6")L x 12.8 cm (5.4")H

SmartLink Interface Unit (with MTG Tray)
4.7 kg (10.3 lbs.)
25.7 cm (10.1") x 32.3 cm (12.7") x 12.7 cm (5.0")

Camera Body
2.6 kg (5.7 lbs.)
Ikegami HL-59WNA camera body
13.3 cm (5.3") x 37.0 cm (14.6") x 30.8 cm (12.1")

Hand Controller
0.9 kg (1.9 lbs.)
10.7cm (4.2") x 23.6 cm (9.3") x 7.4 cm (2.9")

Remote Camera Controller
RM11WNA
0.5 kg (1.1 lbs.)
8.0 cm (3.1") x 13.7 cm (5.4") x 5.0 cm (2.0")

Cables
7.6 kg (16.8 lbs.)
Control cable 6m (19.7ft), AUX control cable 6m (19.7ft), Hand controller ext. cable 7.6m (25ft), Power cable 4.6m (15ft) and System Interface Unit power & video cable 2m (6.6ft).

Power (nominal)
28 Vdc, 15 amps (without ancillary equipment)

OPTIONS AVAILABLE

Camera:
Sony BVP 570* NEC DP-850WS/DP-850S

Wide-angle camera:
Sony XC999 with 12mm lens (16SS1000 only)

Controller:
Control console, in lieu of standard hand controller

Upgrades:
Autotracker; RS232/422; ARINC 429; GPS; Microwave TX;

Video Equipment:
CRT or LCD monitors, video recorders

Microwave Equipment:
OmniPod, Skypod V, Skypod LC air-to ground systems, Troll RCS remote control system.

Installation:
FAA certified installation brackets

