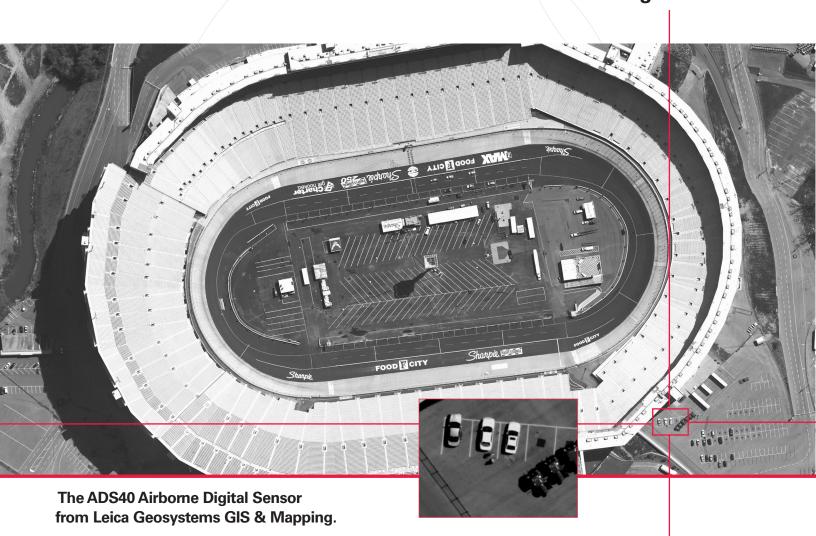
## ADS40 Large-Scale Digital Imagery

You need it.
The ADS40 provides it.

5 cm spatial resolution from the industry's #1 airborne digital sensor.



## The proof is in the picture. See the results for yourself.



For more information about the Leica ADS40, call +1 303 799 9453, toll-free +1 877 463 7327 or visit gis.leica-geosystems.com.







Images from the ADS40 sensor show the Bristol Motor Speedway in Bristol, Tennessee, USA, near the Virginia-Tennessee state line. Bristol has been the site of numerous NASCAR-sanctioned events since 1961.



## **Specifications**

Electronic Characteristics			
Dynamic range CCD chain	12-bit		
Resolution A/D converter	14-bit		
Data channel	16-bit		
Data modes	Raw data, compressed		
Data compression factor	2.5x - 25x		
Data normalization modes	Linear, non-linear		
Radiometric resolution of compressed data	8-bit		
Recording interval per line	≥ 1.2 msec		
Spectral Range and Filters			
Spectral range	Panchromatic, RGB, Near Infrared		
Spectral bands	Band	I (nm)	
	Panchromatic (trapezoidal)	$465 - 680 \text{ (at } \lambda = 50\%)$	
	Red (rectangular) Green (rectangular)	610 – 660	
	Blue (rectangular)	535 – 585 430 – 490	
	Near-infrared (rectangular)	835 – 885	
Mechanical Interface	Trodi ilinaroa (rootangalar)		
/	W. I. 001 I	1 : 1 : 70	
Sensor Head SH40	Weight: 66 kg; diameter: 59 cm; height: 76 cm; fits PAV30 mount		
Control Unit CU40	Weight: 43 kg; 19" rack mountable Width: 45 cm; height: 34 cm; depth: 52 cm		
Mass-Memory MM40	Weight: 19.5 kg, removable, portable		
Operator Interface 0140	Total weight: 14 kg		
IS40 Interface Stand	IS40 stand fits RC30 NAV-sight installation		
IMU/GPS (Applanix POS 510-0EM)	IMU integrated with SH40,		
	GPS and POS integrated in CU40		
Mount	Fits into Leica PAV30 gyro-stabilized mount		
Total weight installed	224 kg		
Operational			
Capacity of Mass Memory	580 GB hard disk for up to 9h recording in ADS40 data format at 2.5 msec interval with 3 panchromatic and 4 spectral bands		
Geometric resolution	GSD 1/2 ft / 15 cm: < 240 k	n	
and Ground Speed (GS)	GSD 1 ft / 30 cm: <480 kn		
	GSD 2 ft / 60 cm: <970 kn		
Environmental			
Pressure	Non-pressurized cabin up to 25,000 ft (7,620 m)		
Humidity	0% to 95% rH		
Operating temperature	-20 °C to +55 °C		
Storage temperature Sensor Head SH40	-40 °C to +70 °C		
Storage temperature Control Unit CU40	-40 °C to +85 °C		
Electrical			
Average power consumption SH40, CU40, PAV30	< 750W / 28 VDC		
Fuses	Typically 2 x 20A or 1 x 33A		
Standards			
General standards for temperature,			
electronics environment, etc.	ISO 7137; RTCA DO-160D		
Electronic conformity	FCC Part 15		
EMC standards	EN 50082-2; EN 55022		
Standard for emergency landings	FAR § 25.561		