



**BOBCAT**  
INTELLIGENT CAMERA SERIES



## IGV-B1920

The **IGV-B1920** is an advanced high-speed progressive scan, fully programmable CCD camera designed for imaging applications that require high frame rates, high quality images, and powerful features and flexibility. The camera has a small size, light weight, and is built around Kodak's KAI-2093 Interline transfer CCD image sensor with a 1.0" optical format. IGV-B1920 is available with Ethernet output (GigEVision compliant).

The B1920 provides an image resolution of 1928 x 1084 and delivers up to 41 frames per second at full resolution. The camera image processing engine is based on a high-speed, high-density FPGA, featuring programmable resolution, speed, 8 independent AOIs, binning, triggering, exposure control, line and frame time, I/O mapping, external/internal sync, AGC, AEC, Auto Iris, transfer function correction, user LUT, Defective and Hot Pixel Correction (DPC, HPC), and Flat Field Correction (FFC).

### Features

1928/1920 x 1084/1080  
Mono and color - 8/10/12/14-bit data  
Normal and over-clock operation (33/41 fps)  
Ethernet ouput, GigEVision and Gen<|>Cam support  
RS232 serial communication  
Analog and digital gain and offset control  
1x, 2x, 3x, 4x, 8x horizontal and vertical binning  
Eight (8) independent horizontal and vertical AOIs  
Programmable horizontal and vertical resolution  
Programmable line time, frame time and speed  
Programmable external trigger:  
    3 triggering sources  
    5 triggering modes  
Automatic gain, exposure and iris control

Internal/External exposure control  
Internal/External H and V sync input/output  
Left/right digital bit shift  
Test image with image superimposition  
Built in pulse generator  
Programmable I/O mapping  
    4 programmable inputs  
    3 programmable outputs  
Dynamic transfer function correction  
Dynamic black level correction  
Defective and hot pixel correction  
Two dimensional Flat Field Correction  
Temperature monitor  
Field upgradeable firmware, LUT, DPC, HPC, FFC

### Applications

Industrial  
Medical  
Microscopy  
Military  
Scientific  
Surveillance

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