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### 2040 Series Gated Intensified CCD Camera Systems

The NVS 2040 series cameras are a single piece unit with automatic control of intensifier gate width for all lighting conditions. The 2040 series have an RS-232 interface and are available with a high resolution Gen II or Gen III intensifier, which are 18mm in diameter and have a custom wrap-around power supply that allows external gain control. Each camera can be controlled via computer or control box, and may be used with any RS-170 frame grabber digital analysis system.

	<b><u>Model 2040 (Gen II)</u></b>
Type:	DEP XX2050 (XD-4), P-43 phosphor
Spectral Sensitivity:	350nm to 920nm
Luminous Gain (2850°K):	30,000 typ. to 50,000 max
Gate Modes:	Auto, internal, external
Gate Width:	20ns to 34ms (up to 300kHz rep. rate)
Gain:	Zero to max gain, 10 turn pot
Sensitivity:	5 x 10 <sup>-5</sup> lux full video 1 x 10 <sup>-6</sup> lux useable video

	<b><u>Model 2040/III (Gen III)</u></b>
Type:	ITT FS9911C, P-43 phosphor
Spectral Sensitivity:	400nm to 940nm
Luminous Gain (2850°K):	50,000 typ. to 80,000 max
Gate Modes:	Auto, internal, external
Gate Width:	50ns to 34ms (up to 20kHz rep. rate)
Gain:	Zero to max gain, 10 turn pot
Sensitivity:	1 x 10 <sup>-5</sup> lux full video 5 x 10 <sup>-7</sup> lux useable video

**CCD Camera:**  
 Type: Sony XC-ST70 interline transfer  
 Sensor: Sony ICX-082  
 CCD Pixels: 768(H) x 494(V)  
 Noise Figure: >60dB  
 Output Signal: RS-170 (NTSC)  
 Sync: Genlock or crystal controlled  
 VD and HD: TTL level

**Miscellaneous:**  
 Input Power: 110-240VAC, 50/60Hz  
 Camera Size/Weight: 118mm x 54mm x 66mm, 0.45 kg  
 Controller Size: 215mm x 165mm x 63mm  
 Lens Mount: 1" format, C-Mount with back focus adjustment  
 Options: Peltier cooler (reduces intensifier temp. by 35°C)  
 S-20 photocathode for UV (180-830nm response)  
 Digitally delayed, externally triggered gate

**Model 2040** – Gen II with control box  
**Model 2040RS** – Gen II w/o control box

**Model 2040/III** – Gen III with control box  
**Model 2040/IIIRS** – Gen III w/o control box

