

For more information contact:  
**Mike Thorsted 888-241-6874 X114**  
 e-mail: [mthorsted@syntronics.net](mailto:mthorsted@syntronics.net)



### 9540 Series Gated Intensified CCD Camera Systems

The NVS Models 9540 and 9540/III consist of a Sony XC-ST70 CCD camera, control unit and interface cables. Either camera may be used with any RS-170 frame grabber digital analysis system. The 9540 camera has a Gen II intensifier fiberoptically coupled to the CCD sensor; the 9540/III camera has a Gen III intensifier. Both intensifiers are 18mm in diameter and have a custom wrap-around power supply that allows external gain control.

	<u><b>Model 9540 (Gen II)</b></u>	<u><b>Model 9540/III (Gen III)</b></u>
Type:	DEP XX2050 (XD-4), P-43 phosphor	ITT FS9911C, P-43 phosphor
Spectral Sensitivity:	350nm to 920nm	400nm to 940nm
Luminous Gain (2850°K):	30,000 typ. to 50,000 max	50,000 typ. to 80,000 max
Gate Modes:	Auto, internal, external	Auto, internal, external
Gate Width:	20ns to 34ms (up to 300kHz rep. rate)	50ns to 34ms (up to 20kHz rep. rate)
Gain:	Zero to max gain, 10 turn pot	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	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 9540A** – unintensified day camera modified for int/ext gain control, with control box & cables