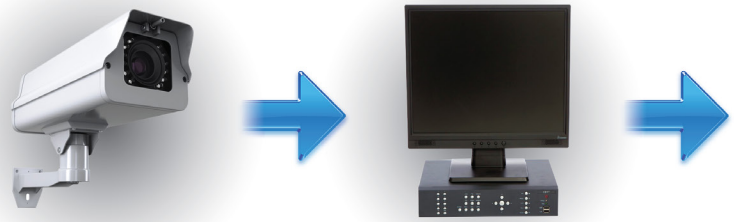
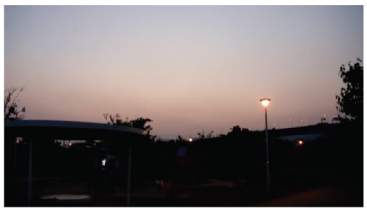
ProHawk™

See what you're missing...

ProHawk™ technology utilizes powerful processors and software algorithms to enhance video images captured under challenging circumstances, every-time and in real-time...

Our patented products minimize the effects of severe climatic conditions, unfavorable lighting and other environmental difficulties. The **ProHawk™** solutions enhance many types of imagery including conventional video, high definition video, infrared, thermal and even medical images.





Original Footage
Unenhanced

ProHawk™ Enhanced

Real Time Video Enhancement

Our advanced, patent protected technology works by analyzing and reconstructing every frame of a video stream, pixel by pixel, all in real time. It also enhances pre-recorded video.

Game Changing Technology

The **ProHawk™** products contain context sensitive, adaptive algorithms and processes that are tightly integrated into our hardware platforms. This game changing technology from **i-Acritas™** delivers maximum actionable detail to the video system user.

Plug And Play Connectivity

ProHawk™ is a plug and play, stand-alone video processing system designed for commercial industries. It is easily integrated with your existing cameras and imaging systems and can be installed in a matter of minutes.

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ProHawk™ is a highly optimized platform for dynamic range enhancement and contrast optimization to increase the visible content of the video. It combines six interconnected processes to deliver the highest quality enhancement:

- **Dynamic Range Enhancement** – The DEF algorithm uses dynamic range enhancement to minimize the effect of haze, mist, fog, dust and smoke.
- **Contrast Optimization** – Using contrast histogram analysis in an innovative way to display the images hidden in both the bright and dark areas of the frame.
- **Contextual Color Enhancement** – DEF identifies the color in the over- and under-exposed areas of the image, delivering improved color representation.
- **Edge Sharpening** – The DEF algorithm reviews each pixel together with contiguous pixels for significant color changes, generating unrivalled edge sharpening and enhancing the detail in the resultant image.
- **Rapid Movement Detection** – DEF allows the user to reduce the impact of rapid movement on the image. This minimizes the effects of rain, drizzle and snow.
- **Visual Noise Reduction** – Minimizes the impact of "noise" during high levels of enhancement.

ProHawk™ also features **Adaptive Enhancement**; i-Acritas's unique DEF enhancement methodology delivers a system that requires virtually no operator intervention to changing conditions. ***ProHawk™*** is supplied with **Control Interface Software** allowing advanced users to refine the enhancement capabilities of up to 100 ***ProHawk™*** units from a single PC.

ProHawk™ HDMI/3G-SDI

Input / Output	**Video Signal**	**HD-SDI**	**HDMI**
	Input / Output	**1 input | 2 outputs | 1 through**	**1 input via HDMI to HD-SDI adaptor | 1 output**
	Signal Format	**SMPTE259M/292M/424M**	**HDMI 1.4**
	Connector	**BNC**	**HDMI**
	Resolution	**1920 x 1080 - 60p/59.94p/50p/30p/25p 1920 x 1080 - 60i/59.94i/50i 1280 x 720 - 60p/50p 720 x 480 - 60i/59.94i 720 x 576 - 50i**	
Control	**External Control**	**RS232C | RS422 | Ethernet**	
	Connector Type	**Dsub9p(F) | Dsub9p(M) | RJ-45**	
Panel	**Push Button**	**DEF ON/OFF | Color ON/OFF | NR ON/OFF | Capture**	
Video Processing	**Throughput**	**1/60sec for 1 frame on real-time**	
	Delay time	**20µ sec**	
Capture	**Media**	**SD Card SDHC (Max 32GB)**	
	Record	**Simultaneous frame capture of original and processed image, JPEG format**	
Environment	**Operating / Storage Temperature**	**Operating 0°C to 55°C | Storage: -20°C to 54 C°**	
	Operating / Storage Humidity	**Operating: 10% to 80%RH, non condensing | Storage: 5% to 95% RH, non condensing**	
Power	**Voltage / Current**	**DC12V± | 2A (24W)**	
	AC adapter	**100 to 240VAC 50/60Hz DC12V 40W**	
Specifications	**Dimensions and Weight**	**W: 350mm x D: 175mm x H: 43.7mm, 1U Rack Mountable, 2.2 kg**	

ProHawk™ 4 Channel NTSC

Input	**Input Image**	**4 Channels (Concurrent Input)**
	Format	**NTSC-N/NTSC-M**
	Type	**Analog Composite**
	Connector	**BNC**
Output	**Output Image**	**4 Channels (Concurrent Output)**
	Format	**NTSC-N/NTSC-M**
	Type	**Analog Composite**
	Connector	**BNC**
Video Processing	**Throughput**	**Variable dependent on channel synch delay and processing options, typical 3-5 frames**
Control	**External Control**	**RS232C | RS422 | RS485 | Ethernet**
	Connector	**D-SUB9p(F) | Terminal | RJ-45**
Environment	**Operating / Storage Temperature**	**Operating 0°C to 40°C | Storage: -20°C to 65 C°**
	Operating / Storage Humidity	**Operating: 10% to 80%RH, non condensing | Storage: 5% to 95% RH, non condensing**
Power	**Voltage / Current**	**DC12V | 3.34A (40W Max)**
	AC adapter	**100 to 240VAC Full Range 47 to 63 Hz 40W - 45W**
Specifications	**Dimensions and Weight**	**W: 350mm x D: 191mm x H: 44mm, 1U Rack Mountable, 1.8 kg**