

MODEL 5490 SERIES

ClarifEYer Video Enhancement

- ☐ Real-time Video Visibility Enhancement
- ☐ Easy Connectivity: Plug and Play
- ☐ High Quality Results



PHONE: (800) 275-2080

HIGH SIERRA ELECTRONICS

FAX: (530) 273-2089

The ClarifEYer Model 5490 series are a range of products developed to improve image clarity and visibility in videos shot in adverse and low-light weather conditions. The ClarifEYer method uses normal color video from a standard CCTV color camera. Each video frame is processed in real time and the colors are modified to increase visibility. Even marginal differences in color and contrast can be used to sharpen and enhance object visibility. The result is video images that constantly self-adjust to the environment. Applications include low light, fog, rain, snow, haze, smoke, and blowing sand.

ClarifEYer enhanced CCTV monitoring provides significant benefits to Traffic Management Systems. With the 5490, an operator can see the real time video in far better resolution and detail than they might be able to see with raw video data. Better images to the operator mean improved response to incidents by emergency services personnel. Rapid and accurate incident detection can also help reduce traffic delays and the chance of secondary accidents occurring.



The 5490 Series is comprised of a portable unit for desktop applications and a rack mount configuration available in single channel and two channel models. Each are "plug and play" and require no modification to the monitors and/or video recorders displaying and recording the video data. All units operate in real time with less than one frame per second delay between the input and output video. In particular, the 19" rack-mount units make it possible to clarify a whole system. By installing it with a video switch, it is possible for an operator to choose and switch any camera through the ClarifEYer, providing enhanced visibility wherever it is needed.

The 5491-01 is an analog-to-digital encoder that offers an Open Network Video Interface Forum (ONVIF) compliant video enhancement solution for hybrid CCTV networks. When replacing an analog CCTV system with Internet Protocol (IP) video, the 5491 allows the operator to maintain their investment in analog cameras. In addition to providing video visibility enhancement, the 5491 encodes the video to IP.

02-5490-00(A)

Environmental Monitoring Solutions

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SPECIFICATIONS:

Real Time Enhancement	<1 Frame per Second
Communication Protocol	Hyper Terminal or Windows (Quick Term for MAC OS X)
Resolution	176 x 120 to 720 x 576
Video Standards	NTSC 525-Line 30 FPS, Autosensing of Format
Operating Conditions	
Temperature	0 to 50° C. (32° to 122° F.)
Humidity	0 to 80% RH (Non-Condensing)
Outdoor Requirements	Requires NEMA4X or IP67 (or above) Enclosure
Available Settings Models 5490-01/-02/-03	
Enhancement	Video
Level	Saturation
Window Position	Hue
Window Size	Brightness, Contrast, Sharpness
Available Settings Model 5491-01	
Enhancement	Level, Window Position, Window Size
Video	Saturation, Hue, Brightness, Contrast, Sharpness
Power	12 VDC
Approvals	CE & FCC Part 15 Subpart B Class A

	5490-01	5490-02	5490-03	5491-01
Size	1.75" H X 19" W X 11" D	3.5" H X 19" W X 11" D	2" H X 7" W X 7" D	2" H X 7" W X 7" D
Weight	5 Pounds	7 Pounds	3 Pounds	2 Pounds
Shipping Weight	7 Pounds	9 Pounds	5 Pounds	4 Pounds

5491-01

Video Streaming	Multi-stream H.264 & Motion JPG: 3 Simultaneous, Individually Configured Streams in Max Resolution @ 30/25 FPS
Processor & Memory	ARTPEC-3, 128MB RAM, 128MB Flash: Local Storage Internal 8GB/SDHC Memory Card
Audio Streaming	2 Way, Full duplex
Audio Compression	AAC-LC 8kHz 32kBit/s, 16kHz 64 kBit/s
Audio Input/Output	External Microphone Input or Line Input, Line Level Output
Security	Password Protection, IP Address Filtering, HTTPS Encryption, IEEE 802.1X Network Access Control, Digest Authentication, User Access Log
Supported Network Protocols	IPv4/v6, HTTP, HTTPS, Qos Layer 3 DiffServ, FTP, SMTP, Bonjour, UPnP, SNMPv1/v2c/v3 (MIB-11), DNS, DynDNS, NTP, RTSP, RPT, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS
Application Programming I/F	Open API for Software Integration, including VAPIX from Axis Communications available at www.axis.com . Includes the ONVIF Specification available at www.onvif.org . Support for Axis Video Hosting System (AVHS) with One Click Camera Connection.
Video Buffer	64 MB per- and Post-Alarm

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ORDERING GUIDE::

Model 5490-01.....	ClarifEYer 1-Channel Rack-Mount Unit
Model 5490-02.....	ClarifEYer 2-Channel Rack-Mount Unit
Model 5490-03.....	ClarifEYer Portable Unit
Model 5491-01.....	ClarifEYer Analog to Digital Encoder



Model 5490-03



Model 5490-03

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