

# Spectrum 1414-8-SPH

Class 1 Division 2 - UL Listed Industrial Control Panel



EXPLOSION  
PROOF CAMERA



## Features

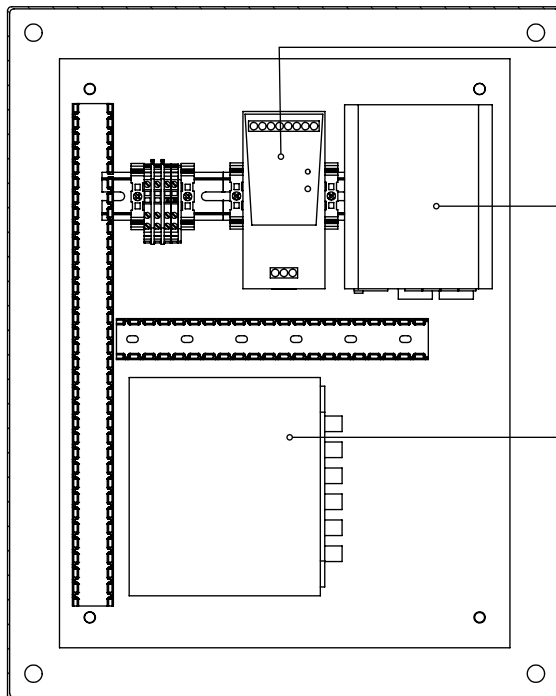
- Store-and-forward architecture with 24 Gbps switching bandwidth
- Supports jumbo frames up to 9.6k bytes
- Ring Protections
  - Industry standard G.8032 Ethernet Ring Protection Switching (ERPS)
  - Support G.8032 Ethernet Linear Protection (ERPS)
  - Rapid Ring with recovery time less than 20ms
- Radius, TACACS+, User Authentication
- Supports LLDP Protocol
- HTTPS/SSH v1/v2 Network Security
- Temperature Detection and Alarm
- Support WH Watchdog to resume operation from CPU hang up
- IEEE 1588 v2 PTP
- Port Mirroring
- Power-over-Ethernet
  - Port configuration
  - Auto Power Reset (APR)
  - DHCP per port
  - Always on PoE
  - PoE Scheduling
  - Complies to IEEE 802.3 at, IEEE 802.3af
- IEEE 802.3ad LACP, up to 6 groups and up to 4 ports per group
- Up to 4K VLAN groups, port based, IEEE 802.1Q tag, Q-in-Q, MAC based VLAN, management VLAN, Private VLAN Edge, Voice VLAN, GVRP
- ACL - up to 256 entries, drop or rate limiting based on: Source and Destinations MAC, VLAN ID and IP address, protocol, port, DSCP/IP precedence, TCP/UDP source and destination ports, IEEE 802.1p priority, Ethernet type, ICMP packets and TCP flag.

# Specifications

## Spectrum 1414-8-SPH

### General

Dimensions	406.3 x 211 x 507.9 mm ( 16 x 8.31 x 20 in. )
Weight	18kg ( 40lbs )
Material	316 Stainless Steel
Operating Conditions	-25°C to +40°C
Storage Conditions	-40°C to +85°C
UL Listed File Number	E481600
Input	120VAC 60HZ 10A
Output	IEEE 802.3at 240W
Power consumption without POE	11.1 Watts
MAC Address	8K
Backplane	24Gbps
Serial Console	RJ-45
Status LEDS	System, Power 1, Ring Master. Coupling, Power 2, Alarm, Port status
Dip Switch (2-pin)	Rapid Ring Setting
Digital output (relay)	24 VDC/1A
Digital input	Level 0 (Low): 0V to 6V Level 1 (High): 10V to 24V
Explosion-proof Certifications	Class I Division 2 Groups A,B,C,D
Certifications	EMI: CE, FCC Part 15, EN61000-4-2, EN61000-4-3, EN-61000-4-4, EN61000- 4-5, EN61000-4-6, EN61000-4-8, IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration), NEMA TS-2 Safety: IEC60950-1, UL Class 1/Div 2
Standards	IEEE 802.3 IEEE 802.3u IEEE 802.3z IEEE 802.3ab IEEE 802.3x IEEE 802.3ad IEEE 802.1p IEEE 802.1Q IEEE 802.1w IEEE 802.1s IEEE 802.1X IEEE 802.1AB IEEE 802.1ad IEEE 802.3af IEEE 802.3at IEEE 802.3ah IEEE 802.1ag IEEE 802.1D IEEE 1588 v2 ITU-T Y.1731 ITU-T G.8031 ITU-T G.8032 IEC62439-2
Warranty	3-year limited warranty



**Class I, Div 2 Power Supply 240W**  
30-56V adjustable 5A

**Managed Hardened Gigabit Ethernet PoE+ Switch**  
(8) 10/100/1000 Base-T PoE+ Ports (4) 100/1000 Base-X SFP Slots  
\*note: SFP MODULE NOT SUPPLIED\*

**Corning SPH-01**  
Single-panel, wall-mount housing; accepts 1 CCH connector panel; also includes a 6-slot, 0.4-in splice holder and can be used for splice management, cross-connect or both up to 12 fibers \*CCH panels ordered separately

# Approvals

Control Panel For Hazardous Locations

**SPECTRUM**  
CAMERA SOLUTIONS  
SPECIALIZING IN EXPLOSION PROOF TECHNOLOGY

**cULus**  
**LISTED**

FILE: E481600  
DRAWING# 1414-8-SPH

Model: 1414-8-SPH  
SN:  
INPUT: 120VAC 60HZ 10A  
OUTPUT: IEEE 802.3at 240W

TYPE 4X  
CLASS I DIV 2 GROUPS A,B,C,D  
T3C Tamb -25C to +40C