

1



ExTREMECAM
Ex d Thermal Camera

- ONVIF Profile S compatible
- Supports H264 & H265 compression
- Supports streaming in MPEG-2 TS (UDP), RTP, RTSP, RTMP* and TSRTTP
- Image compression to 5 Mbps
- Compatible with Spitfire® BPLM
- Supply voltage 12 - 24 VAC/DC
- Operating temp -20°C to < +60°C
- Multiple rear and side gland entries
- Ex d protection for environmental conditions underground

Nautitech® Ex d thermal cameras with ONVIF interface and 92% image compression offer real-time thermal imaging from Longwall or Development equipment to control room on the surface.

Focus of camera lens	7.5mm								
Optimal viewing angle	62°	42°	32°	22°	17°	11°			
Optimal view distance	3.0m	4.3m	5.4m	6.0m	9.0m	12.0m	18.0m	25.0m	38.0m

2



HAWKEYE
Displays

3



SPITFIRE®
Underground
Communications

- Operational benefits for critical decision making**
- ✓ Marker band identification during cutting cycles
 - ✓ Situational awareness in darkened locations
 - ✓ Heat source identification such as belt rollers and cables
 - ✓ Transfer point analysis
 - ✓ Personnel detection
 - ✓ Increased driver visibility in low seams

ExTREMECAM Camera assembly with compatible Hawkeye displays and Spitfire® BPLM for real-time data transfer from the face to the surface

1 ExTREMECAM Cameras		
Item	Component	Part #
1	Ex d Thermal IP Camera w/data compression	ME5890-2-90-290
2	12 Core x O.5mm2 individually Screened, Black PVC	ME1185-0-21-031
3	FRAS Cable Trailing Hose	ME5060-0-21-028
4	Ex d Straight Metric Plug, M20 thread	EXCM004224
5	FLP Cable gland, FLP, M20x1.5	CM004638
6	Clamp Hose, 16-27mm, 12W3P, SS	CM004634
7	Universal Mounting Bracket for cameras	ME5060-0-05-011

2 HAWKEYE Displays		
Item	Component	Part #
1	Hawkeye 3.5" Graphic Display	ME5460-2-90-271
2	Hawkeye Quad 7" Graphic Display	ME5070-2-99-470

3 SPITFIRE® Underground Communications		
Item	Component	Part #
1	Spitfire® BPLM	CT1228-2-99-002
2	SUPER Spitfire® Repeater	ME1228-2-99-183
3	Spitfire® Wingman Controller	ME5380-2-99-298
4	Spitfire® Wi-Fi Bubble Assembly Kit	ME5590-2-90-275
5	Spitfire® Profiler	ME5340-2-99-275
6	Spitfire® Remote Display	CT1228-2-99-004
7	Spitfire® BPLM Power Cable	PL122810
8	Spitfire® Powerline BUS Cable, M to F, 2m	CT1228-2-21-005
9	Capacitive Coupler	ME1228-2-00-029

