VIDEO**INTELLIGENCE**

ATACAMA
ATMOSPHERIC TURBULENCE MITIGATION

PASSION FOR **TECHNOLOGY.**

RHEINMETALL

Combat the effects of atmospheric turbulence on long-range imagery by connecting REUK's ATACAMA device to correct the distortion in real-time. Compatible with live, real-time HD digital, analogue and also recorded sources, ATACAMA applies world-leading video enhancement technology for visibly improved imagery in the presence of atmospheric effects such as heat haze.

KEY FEATURES

- Correct distortion caused by warping and scintillation due to atmospheric turbulence
- Patented, mature technology
- Connect live HD digital, analogue and recorded sources
- Web-enabled GUI and VMS integration interfaces
- Small form factor

With its small size footprint, this compact incarnation of ATCOM brings the capabilities of a respected and powerful PC-based software technology to any integrated imaging system. Compatible with a wide range of SMPTE digital video input standards, **ATACAMA** also supports analogue input sources and displays. With a web enabled GUI, or options for VMS or other host system integration, via serial or Ethernet links, the user can also easily command the device. Settings can be saved across power cycles for 'set and forget' operation.

APPLICATIONS

ATACAMA deploys the world leading video processing software **ATCOM**, by **EM Photonics, Inc.**, in a small form factor. Ideal for integration into any security, surveillance and situational awareness system, it will improve operational effectiveness, without compromising the original system size or its real-time performance.

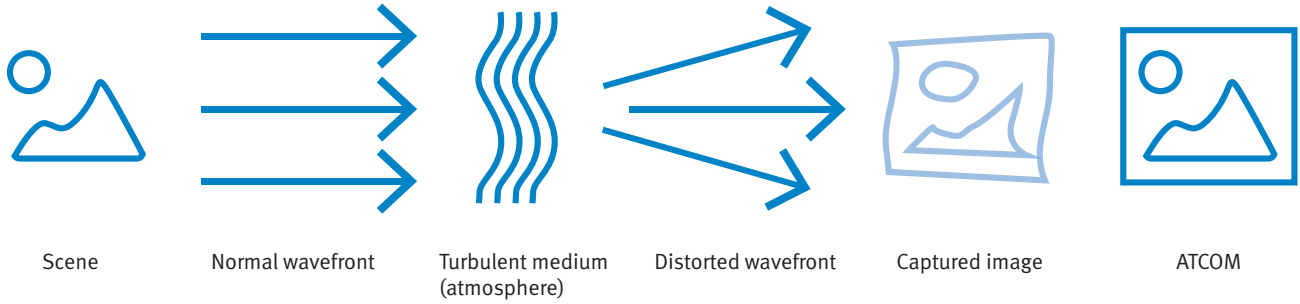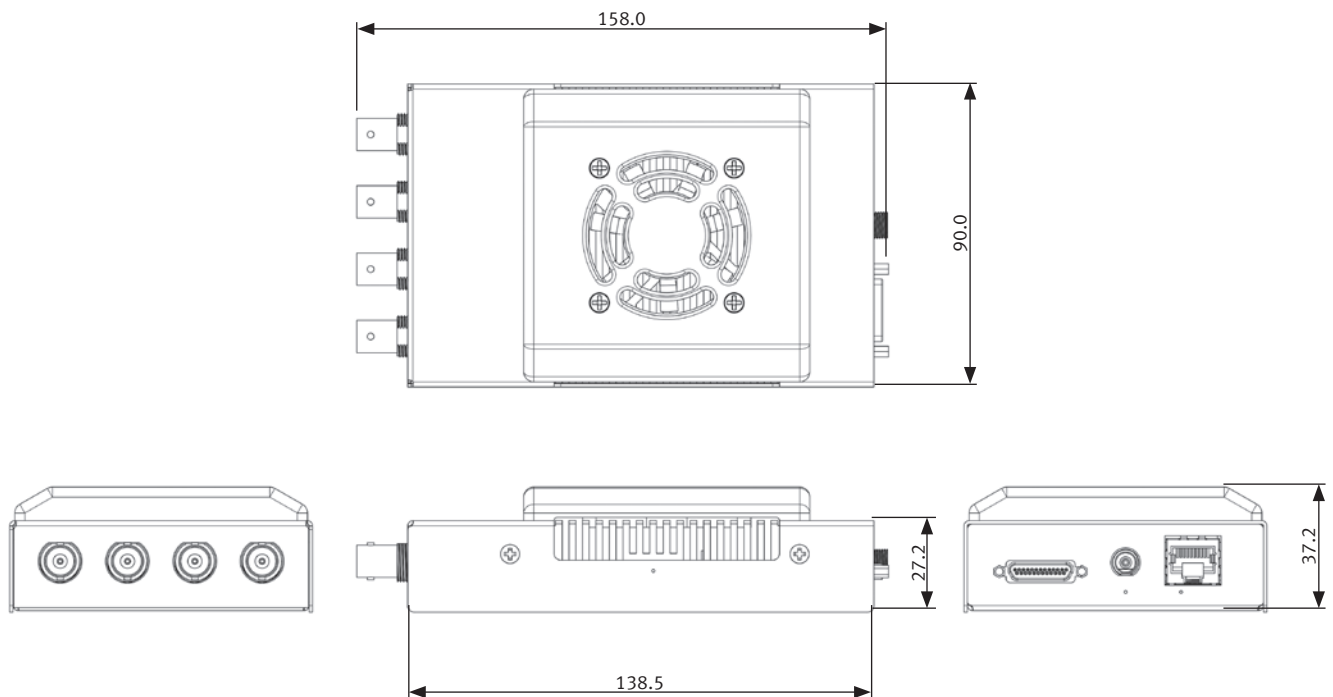| TECHNICAL DATA	
Enhancements	
Channels	Single HD-SDI or analogue channel
Processing	ATCOM by EM Photonics, Inc.
Processing ROI	Steerable, 512 x 512 window @ up to 30 FPS
Video Processing	De-interlace, aspect ratio conversion
Latency	133 ms (‹4 frames @ 30 FPS)
Input Interfaces	
HD-SDI	720p 50/60, 1080p 25/30
Analog	Composite PAL (NTSC on request)
Output Interfaces	
HD-SDI	720p 50/60, 1080p 25/30
Analog	Composite PAL (NTSC on request)
Control	
Control	Ethernet web GUI, control API, 2x RS232/422/485
Electrical and Physical	
Power	9 – 15 V, 12 V nom. ‹14 W, mode dependent
Temperature	0 to 40°C
Boxed Weight	600 g
Boxed Size	158 mm x 90.0 mm x 37.2 mm

ATACAMA – An in-line, real-time, small form factor video processor for mitigating the effects of atmospheric turbulence.

| Scene | Normal wavefront | Turbulent medium (atmosphere) | Distorted wavefront | Captured image | ATCOM |

REUK is proud to include the patented ATCOM technology from EM PHOTONICS, Inc., within this product. ATCOM has been optimised to REUK's HALO streaming-video architecture, exploiting the latest system-on-chip processing technology.

ATCOM

EM Photonics
Accelerated Computing Solutions

158.0

90.0

27.2

138.5

37.2

Rheinmetall Electronics UK Ltd.
UK Office
Unit B The Apex
St. Cross Business Park
Newport, Isle of Wight
PO30 5XW
Phone +44 1983 216 600
sales_reuk@rheinmetall.com

US Office
North American Distributor
EM Photonics Inc.
51 East Main Street
Suite 203, Newark
DE 19711, USA
Phone +1 302 456 9003
sales@emphotonics.com