

ToughEye-1700™ Spec Sheet

Version 2.4

ToughEye-1700[™] follows the same principles as the ToughEye-3100[™] line of cameras, providing industry leading, zero maintenance, self-cleaning operation, suitable for any industrial application where a clear view is critical to the success of the operation. It continues to incorporate a rugged single-piece design, equipped with our field-proven and innovative ClearSight[™] technology. The ToughEye[™] family of cameras excel at three things: reliability, zero-maintenance operation and image clarity.



ExcelSense can customize ToughEye-1700™ installations for almost any application. Please inquire with info@excelsensetechnologies.com.

SPECIFICATIONS

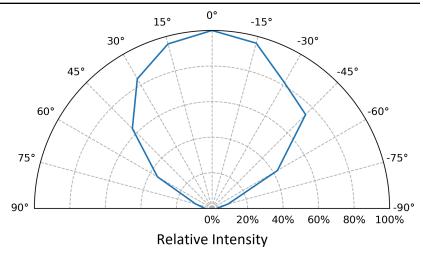
Interruption-Free View	View uninterrupted during cleaning
Resolution	Full HD (1920 x 1080) @ 30fps
Min Illumination	Color: 0.001 Lux @ (F1.2, AGC ON)
	B/W: 0.0001 Lux @ (F1.2, AGC ON)
Wide Dynamic Range	True WDR (>120dB)
Horizontal FoV	Approx. 80°, 100° (customization available)
Video (IP)	H.265 / H.264 / MJPEG
Video (Analog)	720x486 (NTSC), 720x576 (PAL)
Network	IPv4/IPv6, 802.1x, HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP,
	RTCP/RTP, PPPoE, SMTP, DNS, UPnP, FTP, ARP, SNMP
ONVIF	Profile S, Profile G
Recording	Network recording, Continuous, Motion
	Local on-board recording option available - 128GB storage capacity
Dimensions	102mm dia x 178mm [4in dia x 7 in]
Weight	3.0kg [6.5lb] - 4.3kg [9.5lb] with Bracket and Sunshield
Clean Cycle	Configurable Timer Based, Electrical Trigger (up to 24 VDC)
Max Wattage	25W
Input Voltage	PoE+: IEEE 802.3at compatible with Layer 1 PSEs. DC: 18-32 VDC
Temperature Range	-40°C to 60°C (All Versions)
IP Rating	IP69
Vibration	30Gs (at the Camera)



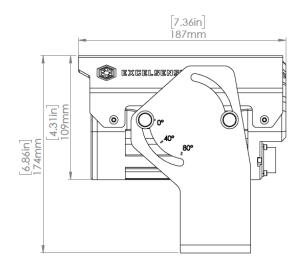
SPECIFICATIONS - INTEGRATED VISIBLE LIGHT VARIANT

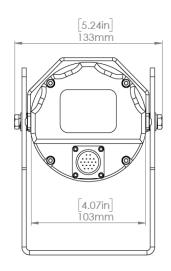
Total Luminosity	1500 lumens (typical output at 20°C)
Max Lux	3800 lux (at distance of 30cm, typical output at 20°C)
Color Temperature	4000K

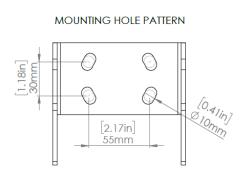
Polar Radiation Pattern



MECHANICAL DRAWING

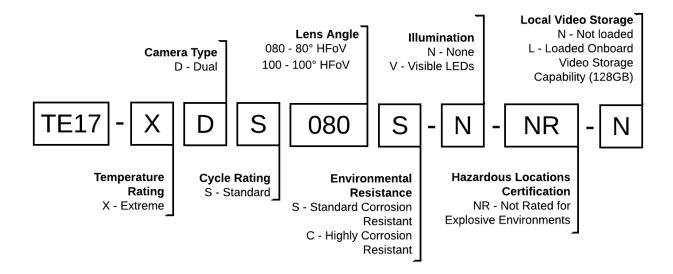








ORDERING OPTIONS



TE17 - ToughEye-1700™ camera

Temperature Rating

X - Extreme: -40°C to 60°C

Camera Type

D - Dual: IP / Analog Camera

Cycle Rating

S - Standard Cycle Rating 40,000 cycles

Lens Angle (customization available)

080 - Approx. 80° Horizontal FoV 100 - Approx. 100° Horizontal FoV

Environmental Resistance

S - Standard Corrosion ResistantC - Highly Corrosion Resistant

Illumination

N - None

V - Visible LEDs

Hazardous Locations Certification

NR - Not Rated for Explosive Environments

Local Video Storage

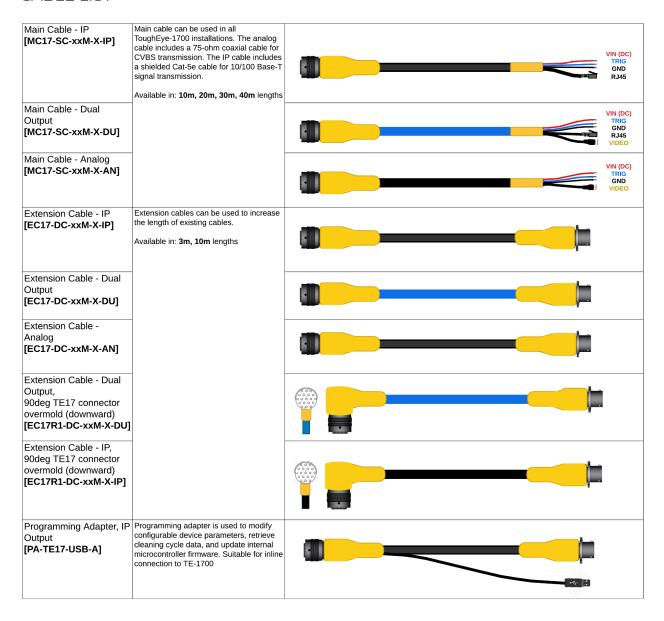
N - Not Loaded

L - Loaded Onboard Video Storage Capability (128GB)

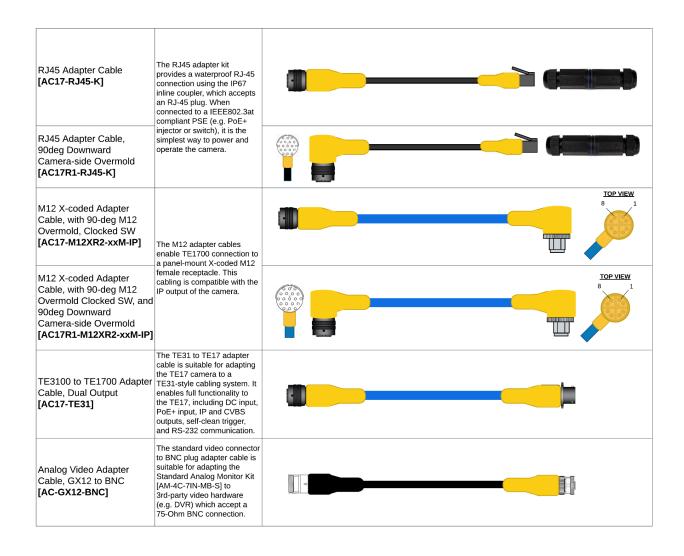


ACCESSORIES

CABLE LIST









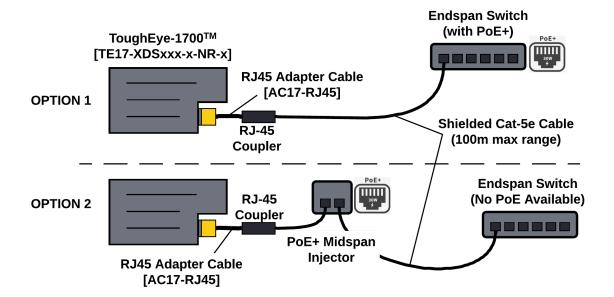
TYPICAL INSTALLATIONS

Network Configuration

The installations shown below illustrate the two main methods of powering and connecting to the ToughEye-1700™: through PoE+ or 24VDC.

Power and Stream with PoE+

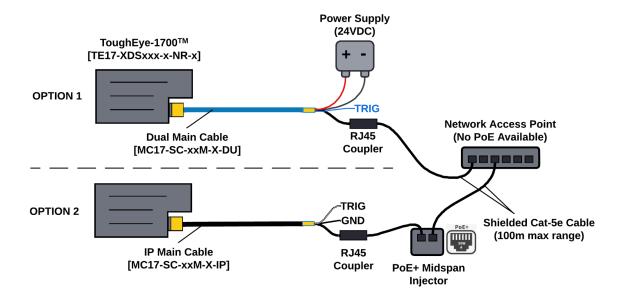
This configuration allows any Cat-5e cable to be used to power and communicate with the ToughEye-1700™ camera. No custom cabling is required to be routed, as the Cat-5e cable plugs into the custom short adapter cable for plug and play functionality. As seen in the diagram below, either a PoE+ compliant power sourcing equipment or a non-compliant switch with a PoE+ injector can be used to power the camera.





Power with PoE+ or DC Supply

This option is preferred when an extremely rugged cable is required. As seen below, the camera can be powered via a suitable 24V PSU or a suitable PoE+ source.



Analog Configuration

ExcelSense 7" Monitor Kits

ExcelSense has two offerings for analog monitor systems: the Standard Monitor series and the Extreme Monitor series.

Each monitor can be integrated into the ToughEye-1700™ analog camera system using the standard Boost Box, following the user guide found here.

Alternatively, for applications which do not require an IP67 or better junction interface, the ToughEye-1700™ can be integrated with either monitor as a simple plug-and-play solution using the main cable.

The standard monitor series kit documentation can be found <u>here</u>, and the extreme-series kit documentation is available <u>here</u>.