



# MACHINE VISION FOR WIRE & CABLE

## Real-Time Precision. Intelligent Quality.

CORPEX Machine Vision systems monitor key dimensions at production speed, measuring in real time and alerting operators instantly when values drift out of tolerance.



# CMVS-55



### PRODUCTION INSIGHTS & REPORTING

Trends and reports reduce variation, improve first-pass yield, and prevent repeat defects. Data is stored for audits and troubleshooting.



### INTEGRATION & AUTOMATION

Connect directly to PLC, SCADA, MES, and OPC environments for automated alarms, reporting, and process monitoring.



### OPERATOR-FRIENDLY INTERFACE

The touchscreen HMI shows live alarms and trends so operators respond fast and maintain quality without slowing production.



### ADVANCED VISION & AI DETECTION

High-resolution sensors and AI detect dimensional variation early, reducing scrap and improving consistency for demanding specifications.

## Built for Armoring Lines

Designed for armored and convoluted cable manufacturing, **CORPEX** combines high-speed imaging with AI-based analytics to deliver precise measurement at line speed. The system continuously measures outside diameter, convolution pitch, and product length while maintaining exceptional accuracy and consistency. Logged measurement data supports traceability, trend analysis, and continuous improvement.

### Key Benefits

- ✓ Real-time OD measurement
- ✓ Instant out-of-spec alarms
- ✓ Convolution pitch tracking
- ✓ Quality data logging
- ✓ Optional monitoring
- ✓ Production traceability



Real-time OD  
measurement



Instant out-of-  
spec alarms



Convolution  
pitch tracking



Quality data  
logging



Optional  
monitoring



Production  
traceability



Scan the QR code to view  
**CORPEX** products, solutions,  
and contact details for  
machine vision systems.

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## SYSTEM OVERVIEW



### HMI TOUCHSCREEN

- User-friendly HMI screen displaying live measurements: OD, CPF, length, and speed
- Real-time monitoring for operators to quickly assess product quality
- Advanced engineer screens for parameter adjustments and setup
- Supports tolerance and recipe changes to match different products



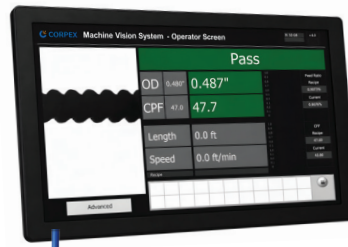
### INDUSTRIAL MACHINE VISION COMPUTER

- Industrial machine vision computer running all vision and logic processing
- LAN and PoE connectivity for cameras and network integration
- Display and USB ports for screens, setup, and data access
- 24 VDC powered and running the machine vision and AI software stack



### MACHINE VISION SENSOR HEAD

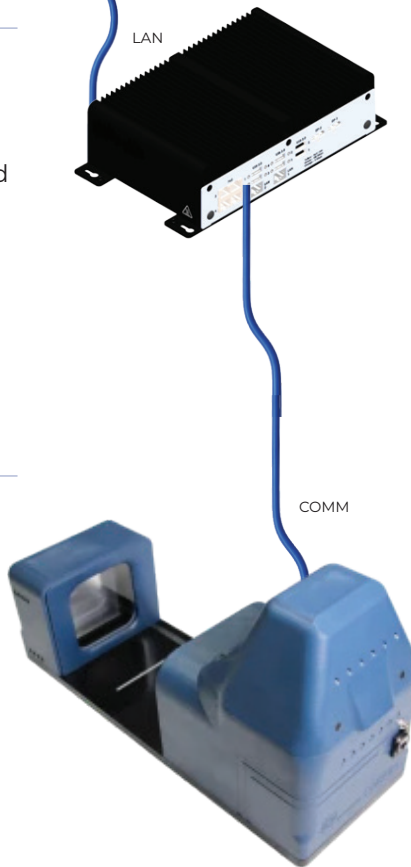
- Machine vision sensor head for armored cables up to 55 mm (2.2 in) OD
- High accuracy:  $\pm 0.002$  in ( $\pm 0.05$  mm) measurements
- Supports quality specs while reducing waste and inspection time
- 24 VDC powered



DP/HDMI

LAN

COMM



## C35 SPECIFICATIONS



**DIMENSIONS (H × W × D)**  
10.75 × 7.48 × 21.26 in / 273 × 190 × 540 mm



**INPUT POWER**  
24 VDC — M8 3-pin Connector Female



**OPERATING TEMPERATURE**  
32°F to 122°F / 0°C to 50°C



**COMMUNICATION**  
1× Ethernet



**OPERATION**  
Integrated HMI



**OPERATOR INTERFACE**  
Operator and supervisor screen



**MEASUREMENT UNITS**  
Imperial



**TARGET OD RANGE**  
0.25–2.2 in / 6–55 mm



**ACCURACY**  
 $\pm 0.002$  in @ 80 ft/min /  
 $\pm 0.05$  mm @ 25 m/min

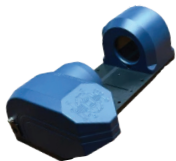


**MAX PITCH**  
0.75 in (16 CPF) / 19 mm  
(52 CPM)



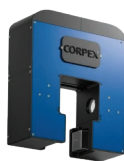
**SMART LIGHT**  
Flexible mounting

## PRODUCT RANGE



### CMVS 35

Expanded range for OD up to 35 mm (1.35"), high-speed monitoring for demanding armoring and convolution production.



### CMVS 100

Industrial solution for OD up to 100 mm (4"), built for high-volume production with stable measurement and reporting.



### CMVS 125

Industrial solution for OD up to 125 mm (5"), built for high-volume production with stable measurement and reporting.



Scan the QR code to view CORPEX products, solutions, and contact details for machine vision systems.