

# TRUST **RF**HAWKEYE<sup>®</sup>



PATENT-PENDING MONITORING SYSTEM FROM Dielectric<sup>®</sup>



BECAUSE **PREDICTIVE**  
BEATS **REACTIVE**  
EVERY TIME WHEN  
IT COMES TO  
PROTECTING YOUR  
TRANSMISSION  
SYSTEMS.

Your transmission line is the unsung workhorse of a broadcast system. Undetected degradation of this vital component can be devastating, leading to extensive damage and time off-air.

RFHAWKEYE<sup>®</sup> is the pioneering IP-connected system that delivers real-time data to effectively monitor your lines.

- › Continuous remote real-time, time-domain system measurement and recording at full power
- › Detects, locates and warns of VSWR changes or arcing in the transmission system



## WHY CHOOSE RFHAWKEYE<sup>®</sup>?

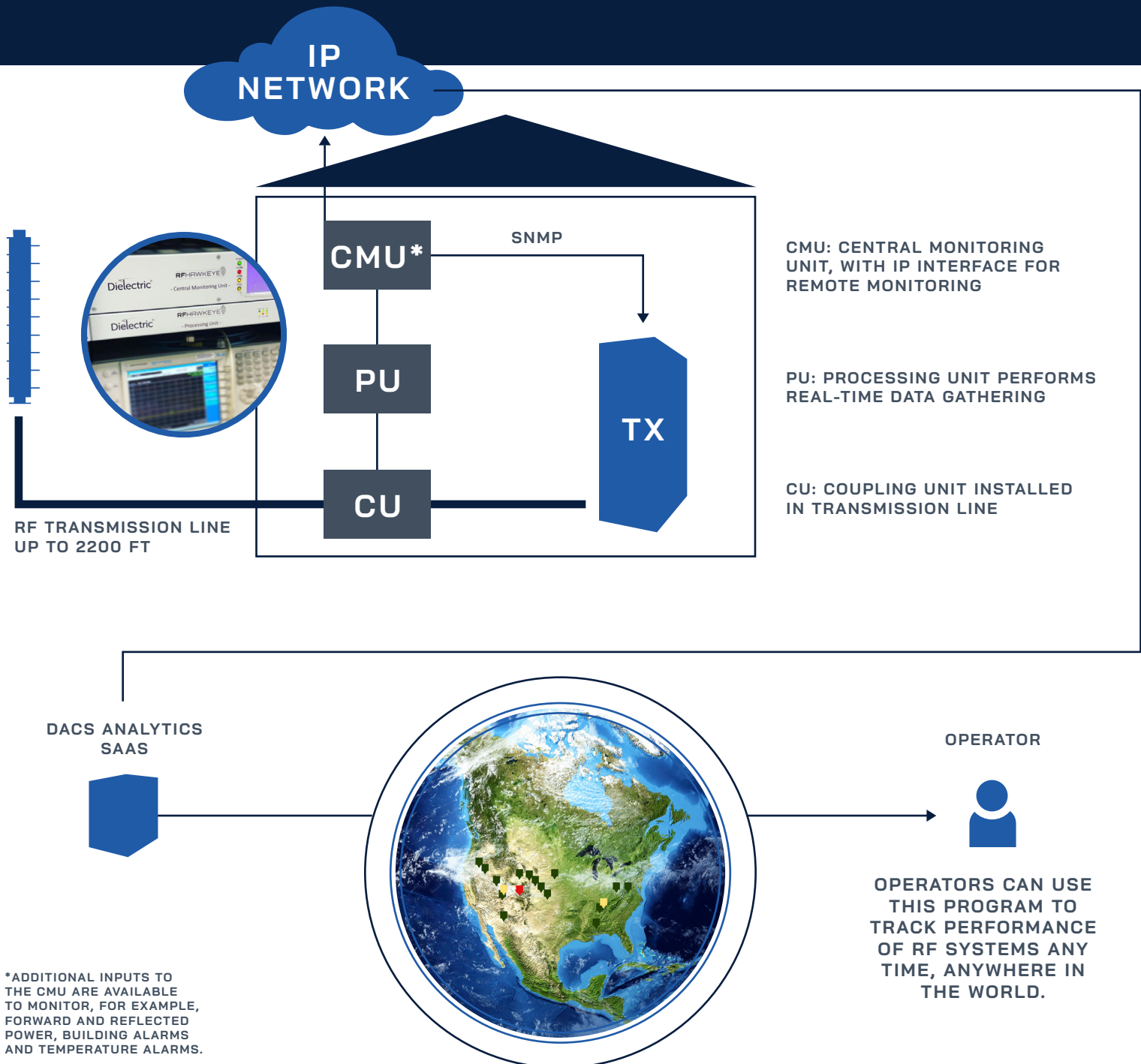
- It's the first and only transmission system monitor that alerts you to small VSWR anomalies before they deteriorate and cause damage—rather than reacting to a fault, such as an arc or a line burn-up, as it is already occurring.
- It identifies the exact location of any anomalies...and sends alerts anywhere in the world.
- Its preemptive approach allows corrective action to be initiated at the first sign of trouble, avoiding potentially catastrophic failures and costly downtime.
- Field proven—in operation in the US.
- Easily installed in new or existing systems inside the transmitter building.



IS THE RF MONITORING & CONTROL SYSTEM  
OF THE FUTURE...AVAILABLE TODAY.

### FEATURES & SPECIFICATIONS

- > Logs any changes with a location and time stamp
- > Works independently of the TV transmitter
- > Complements existing DAC monitoring systems
- > SNMP-enabled
- > Two I/O interfaces
- > Includes forward & reflected power monitoring as standard
- > Web-based SW interface and configuration
- > Email, SMS, APP alarm notifications triggered by user-defined parameters



## RFHAWKEYE®

Return Loss Sensitivity	> 1 dB
Detectable Return Loss	< -45 dB
Accuracy of Anomaly Location	± 8 in / 200 mm
Out-of-band Emission	< - 110 dBc ; per FCC §73.622 (h)
Arc Detection	> 100 µs
Maximum Distance from PU to CU	21 ft / 7 m
Frequency Range	470 - 700 MHz

## CENTRAL MONITORING UNIT (CMU)

Display	5 in Touch Screen
Network Input	Ethernet (LAN) or Mobile Data
Communication Protocol	SNMP
Number of RF Inputs 50-860 MHz	Option 42   4 or 2 pairs for VSWR / Return Loss Option 41   6 or 3 pairs for VSWR / Return Loss Option 40   8 or 4 pairs for VSWR / Return Loss
RF Input Connector	SMA Female, 50-860 MHz
Number of Sensor & Temperature Inputs	Option 42   2 Sensors or 4 Temperature Detectors Option 41   1 Sensor or 2 Temperature Detectors Option 40   None
Sensor Connector	Proprietary
Power Supply	90-264 V AC, 47-63 Hz - IEC/ 16W
Weight	10.4 lbs / 4.7 kg
Dimensions	2 RU / H 3.5 x W 19 x D 8.6 in / H 89 x W 482 x D 218 mm

## PROCESSING UNIT (PU)

RF Connector	2 x N - Female / 50 ohm
Safety	EN60950-1
LAN Interface	RJ-45 / Ethernet / IP Interface
Power Supply (Redundant)	2 x 90-264V AC, 47-63 Hz - IEC/ 30W
Dimension	1 RU / H 1.75 x W 19 x D 8.6 in / H 45 x W 482 x D 218 mm
Weight	5.95 lbs / 2.7 kg
Environmental Temperature	32–113° F / 0–45° C

## COUPLER UNIT (CU)

RF Connector	2 X N - Female / 50 ohm		
Power Rating	Same as Equivalent Rigid Line		
Return Loss / VSWR	> 35 dB / < 1.036:1		
Material	Rigid Line: Copper; Flange: Brass		
Environmental Temperature	32–113° F / 0–45° C		
Dimensions	3 1/8" - 50 ohm*	15.75" - 400 mm	9.5 lbs / 4.3 kg
	4 1/16" - 50 ohm*	15.75" - 400 mm	14.0 lbs / 6.4 kg
	6 1/8" - 50 ohm*	15.75" - 400 mm	27.0 lbs / 12.2 kg
	6 1/8" - 75 ohm*	15.75" - 400 mm	26.0 lbs / 11.8 kg
	7 3/16" - 75 ohm*	15.75" - 400 mm	32.0 lbs / 14.5 kg
	8 3/16" - 75 ohm*	15.75" - 400 mm	32.0 lbs / 14.5 kg

**Dielectric.com**

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