QUIVER®

CLEARLY BETTER

arcom digital

QUIVER®

Identifying the causes of network impairments and being able to pinpoint their locations are key to eliminating them. Quiver® is the only field-troubleshooting tool that can do just that. The unique power of Quiver comes from our patented Xcor® technology, which uses advanced passive radar signal correlation to measure the presence of CPD and any other nonlinear distortion. Quiver allows technicians to consistently detect well below the system noise floor, revealing impairments previously invisible or intermittent. Quiver boosts your productivity by determining the precise distance to a problem source, eliminating hours of guesswork. Most importantly (especially to your customers) your technicians can identify and locate issues without ever disturbing your network.

BUILT TO HELP YOU PERFORM BETTER

EASY: Locate the problem and get right to work knowing exactly what you are there to fix. That's all there is to it.

EFFICIENT: Track impairments faster and identify their source quicker-without pulling pads or taking your network down. Quiver's NTC TDR now reveals and pinpoints linear distortions.

PRODUCTIVE: Quiver detects impairments well below the system noise floor making it possible to fix problems invisible to other meters. If it exists, Quiver can find it.

SIMPLE: Quiver's intuitive design makes it easy to understand and operate.

COMPLIMENTARY: Designed as the field companion to your valuable PNM tools.

FAST: Add Quiver Navigator to use your system maps to flag candidate impairment locations, further reducing the short time it takes to troubleshoot with Quiver.

PROFICIENT: Quiver's 30kHz FFT Spectrum Analyzer has the speed and resolution to capture brief ingress and impulse noise transients.

ACCESSIBLE: Quiver's 20 dB test probe enables non-disruptive measurements at locations without forward and return test points.

The ultimate productivity tool

We've seen it time and time again—once a technician demos a Quiver, they don't want to give it up. On top of Xcor, we've added a lightening-fast FFT, forward and return spectrum analyzer, QAM demod., and our latest innovation: an optional NTC TDR that works as a PNM companion tool. It's the first TDR able to operate accurately on a live plant without network disruption—truly a game changer in network maintenance.

◎ XCOR

Xcor uses existing QAM channels as radar probing signals to calculate the exact distance to a distortion source. A reference signature is created by capturing forward QAM channels as they pass the connection point, and this reference is cross-correlated with return path signals to determine the precise distance to the impairment.

FORWARD PATH

ANALOG CHANNELS   DIGITAL QAM CHANNELS

48   Freq. (MHz)   550   Second Order Product   860

RETURN PATH

Freq. (MHz)   5 6   12   18   24   30   36   42

Dectects CPD echo signals   - Roll-off
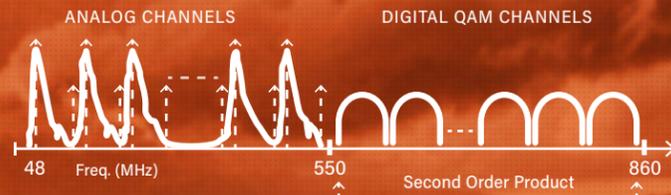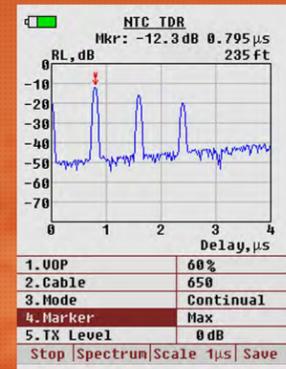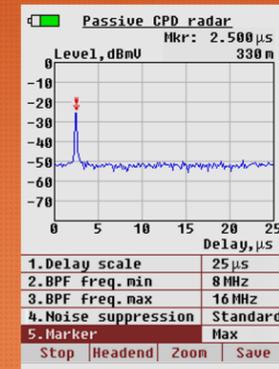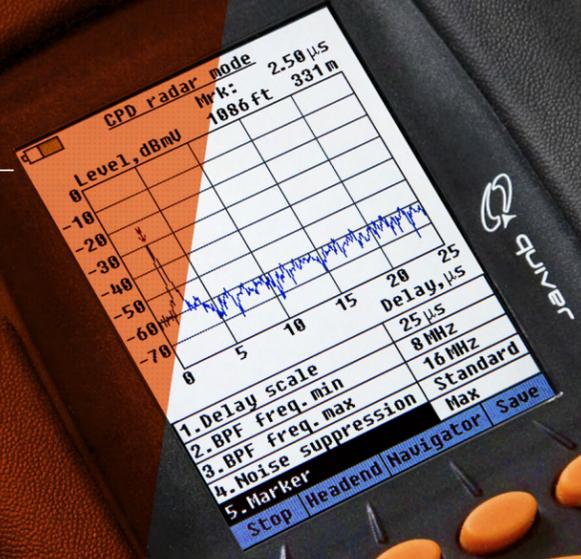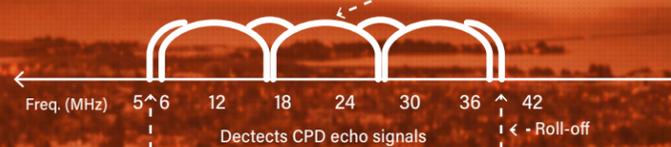
CPD

Measure the distance to CPD impairment within a few feet.

NTC/TDR

Resolve linear distortion zones identified by PNM tools.
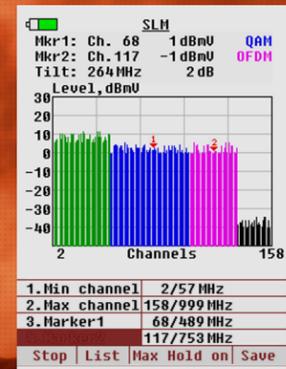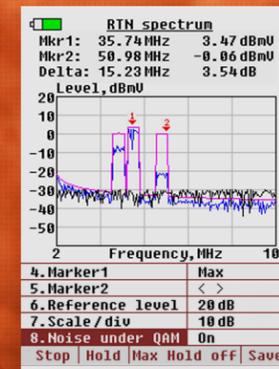
RTN Spectrum

Identify ingress with a fast FFT return SA with Noise under QAM mode.

SLM

Analyze downstream distortions in SLM, SA, QAM demodulator modes.
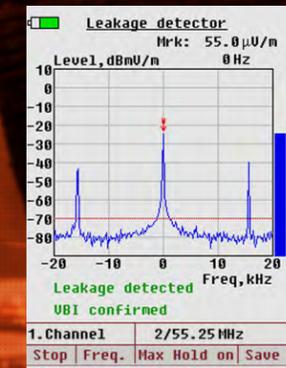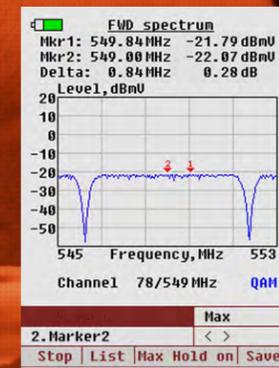
FWD Spectrum

Quickly check levels or downstream issues.

Leakage detector

Analog, OFDM, any pilot – full BW.

QUIVER XT

More power in the palm of your hand

Quiver XT packs a built-in network traffic compatible TDR to range linear distortions, and Xcor technology to pinpoint the source of non-linear distortions instantly without ever pulling pads or interrupting your network.

9.375"

QUIVER S

Maximum convenience, minimal size

We completely rethought the Quiver platform to deliver Quiver S; advanced NTC TDR technology and Xcor radar in a high-performing, compact package.

7.5"

QUIVER

Still light-years ahead of the rest

Quiver devices are the only tools able to identify and locate CPD. Simply connect to the network and the Quiver display tells you exactly how far you need to go to fix the problem.

9.375"

Quiver Navigator

With Quiver Navigator, technicians no longer need to travel to take readings at every split point. Simply select a node, current connection point, and measured time delay—and the impairment location is flagged.

Quiver XT	Quiver S	Quiver
Xcor radar full return BW	Xcor radar full return BW	Long dist. radar mode (use at headend)
Long dist. radar mode (use at headend)	FWD SA 1GHz	FWD SA 900MHz
FWD SA 1GHz	Return SA 100MHz	Return SA 70MHz
Return SA 100MHz	Noise under QAM	LNA at Return SA
LNA at Return SA	NTC TDR	Noise under QAM
Noise under QAM	Unbundled (optional)	FSK receiver and head end view for CPD (with Hunter)
QAM demod	Leakage detector	CPD calibrator mode (with Hunter)
NTC TDR	Active CPD radar	Screen saver mode
FSK receiver and head end view for CPD (with Hunter)	Bluetooth option	Unbundled (optional)
CPD calibrator mode (with Hunter)	Boot time 1 sec.	Leakage detector
Screen saver mode		Boot time 30 sec.
Unbundled (optional)		
Leakage detector		
Active CPD radar		
Bluetooth option		
Boot time 30 sec.		

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Hunter

Locate network issues with pinpoint accuracy, saving countless man-hours.

QAM Snare

The only truly effective tools to detect and track QAM, OFDM, OUDP upstream leaks. Frequency-agile and future-proof.

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