

# VIAVI

## Industry First, Time-Saving R-PHY Video Verification Solution

### OneExpert™ CATV – QAM Video Option

When activating R-PHY nodes, technicians need to make sure the node is working correctly in every respect. One challenge is to verify that the video is properly configured. Troubleshooting these issues can be very time consuming.

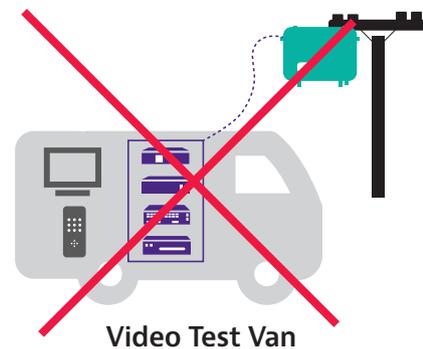
With an innovative test process, the OneExpert CATV QAM Video Option performs automated R-PHY device video verification testing in one tenth the time of other methods. The technician uses his daily use field meter to perform a complete and error-free test to proactively address port configuration issues. Every R-PHY node downstream port can be configured uniquely, which makes video configuration verification for each port necessary. Previously this testing required multiple set-top boxes, a TV, and a drop from the RPD to the truck. Techs would tune through a sample of channels and check off items on a printed list ... in a process that took at least 30 minutes.

If a problem is identified, the detailed reporting on the OneExpert and in StrataSync helps the technician and Engineering team pinpoint the problem and resolve the issue real-time.

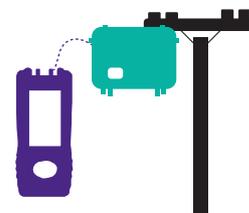
- Unique, fast, automated video verification test process
- Find problems and resolve them at activation – save costly troubleshooting time
- 3-minute complete test with meter vs. 30-minute partial test with truckload of gear
- Identify specific problem with simple drill down from OneCheck Expert for details

When a problem is identified, the detailed reporting on the OneExpert and in StrataSync helps our technician and engineering team pinpoint the problem and resolve the issue real-time, where previous methods would take hours, days or weeks to find and resolve.

Network Construction/Maintenance Director, Tier 1 MSO



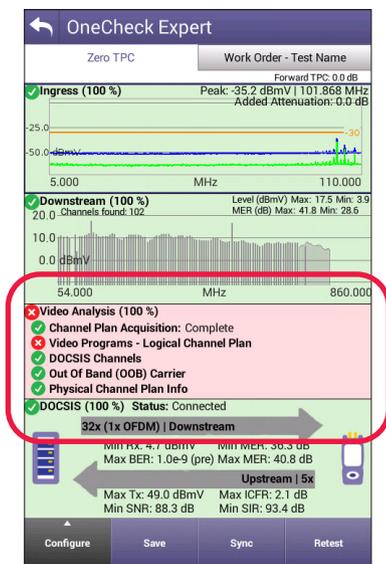
Video Test Van



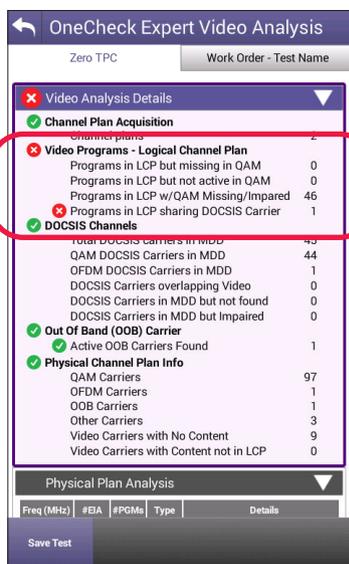
OneExpert CATV Field Meter

The QAM Video Option for the OneExpert CATV automates and dramatically speeds up the process, enabling the tech to use his daily use field meter to perform the test – complete, repeatable, and error-free. The tech sees a summary on the OneCheck Expert results screen, and when trouble is found, can drill down to identify the specific problem.

### Video test incorporated into OneCheck Expert



### Drill down for details



### Identify problem for engineering to fix

Freq (MHz)	LCN	Name	Active	Details
375.000	1237	SPMNHHD	Yes	
375.000	1425	GSNHD	Yes	
375.000	1464	OWNHHD	Yes	
375.000	1477	SMTHHD	Yes	
375.000	1485	COOKHD	Yes	
375.000	1493	DIYHD	Yes	
381.000	3472	CCV2DM	Yes	VOD
387.000	3471	CCVDM1	Yes	VOD
399.000	3474	CCVDM	Yes	VOD
405.000	3473	CCVDM3	No	Overlaps DOCSIS
771.000	953	CAM1	No	QAM Missing
777.000	952	CAM2	No	QAM Missing
789.000	951	CAM3	No	QAM Missing
789.000	950	CAM4	No	QAM Missing
885.000	2556	ControllerID	No	STB Info
885.000	3574	ChannelMapID	No	STB Info
981.000	1	COMXP	No	STB Info

With a properly equipped OneExpert CATV, a tech can perform all these tests when turning up or maintaining an RPD:

- Verify that no upstream ingress is present in network downstream of the RPD
- Full System Analysis: Level, MER, Pre/Post Bit Error Rate, Echo, Group Delay, In Channel Frequency Response, Hum, and DQI on Every Channel
- Full DOCSIS analysis of upstream and downstream (OFDM/ODMA/ SC QAM), including bonding, profile analysis, throughput, and packet quality
- Verify that out of band carriers (OOB's) are active and supplying data
- Verify that all video QAM's are present at the right frequencies per physical channel plan, and not impaired
- Verify that correct programs are present/active within each QAM according to the logical channel plan

If you're deploying Remote-PHY Devices, you need this option now. Contact a VIAVI sales expert or visit [viavisolutions.com](http://viavisolutions.com) today.



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